Postgraduate Programs
Research Report
Postgraduate Program
Research Report
2016
Postgraduate Program
Research Report
2016
Coordination: Luis Eduardo Coelho Andrade e Ruy Ribeiro de Campos Junior

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Escola Paulista de Medicina (EPM), São Paulo, Brazil, was officially recognized as a Medical School on May 31, 1938, and the federalization of EPM occurred after the Brazilian Presidential Decree of January 21, 1956. EPM was born based on the pioneering spirit of a group of young medical doctors, and has maintained this innovative spirit since its inauguration in 1933.

Universidade Federal de São Paulo (UNIFESP), created on December 15, 1994, resulted from the expansion of EPM into a comprehensive University conscious of its responsibility and commitment to science advancement and to the development of the community of which it is part.

EPM’s mission is to develop, at the level of excellence, the interrelated activities of teaching, research and medical assistance. At present, EPM has 35 postgraduate programs, more than 3 thousand students and 700 supervisors in various areas related to Medicine and Health (basic sciences, clinical sciences and surgical sciences) with the greatest commitment to advancement in scientific knowledge and excellence in human resource training. Several of these postgraduate programs are rated the maximum excellence score by the Brazilian Agency CAPES dedicated to National Higher Studies and Education.

Along several decades, our postgraduate programs have trained young MD and PhD fellows who now occupy pivotal academic positions in several universities across the country and abroad. This volume proudly offers a synoptic view of the structure, research focus, scientific performance and contact directions of the postgraduate programs in our institution.

Luis Eduardo Coelho Andrade       Ruy Ribeiro de Campos Junior
Chamber of Postgraduate Studies
Escola Paulista de Medicina

PREFACE
Postgraduate Programs
Historical background

The Postgraduate Program in Molecular Biology at the Universidade Federal de São Paulo (Unifesp) was founded in 1970, and was the first approved Postgraduate Program in our university. It is also one of the first postgraduate programs in São Paulo state to be officially recognized by the Ministry of Education. At that time several biomedical science departments were represented in the Program, including Biochemistry, Biophysics, Pharmacology, Physiology, Microbiology, Immunology, Parasitology, and Anatomy. Scientists from the Botanical Institute of São Paulo were also in the Program. As research developed in all these departments, with increasing scientific quality and increasing numbers of researchers, new postgraduate programs were created. Since the evaluation system was established by Capes, the Molecular Biology Postgraduate Program has received the highest grade (Grade A until the year 2000, and Grade 7, the highest grade under the new evaluation system, since 2001). Currently the majority of supervisors are professors in the Unifesp Departments of Biochemistry and Biophysics, but professors and scientists from other institutions in the state, as selected by the Committee for Postgraduate Studies, are also supervisors in the Program.

The Program nurtures the development of scientific thinking, emphasizing experimental work, data discussion in groups and presentation of scientific papers at lab meetings. In addition, postgraduate students in the Program are given the opportunity to train and supervise undergraduate students in the labs. The Program offers postgraduate level courses in biochemistry, biophysics, and cellular and molecular biology to give students a broad foundation and prepare them for teaching positions as well as research. From the beginning the Program’s main goal has been to prepare postgraduate students for the job market, including universities, research institutes and industry.

Research focus

The Program focuses on four areas: Biophysics, Biochemistry, Cellular and Molecular Biology, and Neuroscience.

The main research interests are: 1) Structural biology; 2) Biochemistry of pathological states; 3) Structure, activity and synthesis of peptides and proteins; 4) Glycobiology; 5) Immunochemistry of glycoconjugates; 6) Internalization of glycoconjugates; 7) Neurobiology; 8) Proteases and proteases inhibitors.

Selected publications


**Books and chapters**


**Grants**

Fapesp, CNPQ, Capes, Finep.


Gabriel Lopes Argello Cunha. Hypoxia induced by adhesion to plastic used in cell coculture model. Supervisor: Helena Bonciani Nader.

Tais Adelita Morais de Almeida. CXCL12 (5-67) induced apoptosis in adult neural precursors. Supervisor: Marimelia Porcionatto.


Heloisa Rosa. Participation of protein tirosin kinase SRC and nitric oxide in cell signaling stimulated by estrogen in the MCF-7 line obtained from human breast tumor. Supervisor: José Eduardo Krieger.

**MSc Thesis (2015)**


Tabata de Almeida da Silva. Characterization of anti-antiidiotypic monoclonal antibody 5.G8 ligat-
ing GD3. Supervisor: Jane Zweiter de Moraes.


Fernando Henrique Massinhani. Induction of differentiation leads to change in RUNX’s subcellular location in neural cells. Supervisor: Marimelia Porcionatto.

Marina Rodrigues e Silva. Cloning, expression and purification of recombinant BMP-2 as a tool to evaluate the role of the B1 binding receptor in the osteoblastic differentiation induced by BMP-2. Supervisor: João Bosco Pesquero.


Marcelo Alberti Paiva da Silva. Influence of PRPC on the autophagia and ER stress induced during the differentiation of N2 cells in dopaminergic neurons. Supervisor: Kil Sun Lee.


Prizes

VII Octavio Frias de Oliveira Award, category Innovation in Oncology, Dr. Ana Marisa Chudzinski-Tavassi.


Fesbe (Federation of Brazilian Societies of Experimental Biology) 2015.

Effect of proteinase inhibitor of plant origin cra- taeva tapia bark lectin in an experimental model of chronic allergic pulmonary inflammation. Bortolozzo ASS, Rodrigues APD, Arantes-Costa FM, Saraiva-Romanholo BM, Brito MV, Righetti RF, Prado CM, Leick EA, Oliva MLV, Martins MA, Tibério IFLC.

Effect of a recombinant inhibitor RBBCI (Bauhinia Bauhiniodides Cruzain/CRUZIPAIN inhibitor) and its association with heparin in a venous thrombosis model in rats. Oliveira C, Vioto MV, Ottaiano TF, Lima MA, Miranda A, Sampaio MU, Maffei FHA, Oliva MLV.


Financial support

Fapesp, CNPQ, Capes, Finep.
Pharmacology
PhD and MSc Degrees

Historical background

The Postgraduate Program in Pharmacology was founded 45 years ago. The aim of the Program is to prepare students to be highly qualified candidates for the professional practice of teaching and research in Pharmacology, Physiology and related fields. The Program focuses on quality and excellence of teaching and scientific and technological research, and on the continuous search for new knowledge. It is flexible and is thereby able to prepare students for the diversity of careers in the field of Biological Sciences. The Program also promotes the careful dissemination of results produced by the scientific community. Such actions have contributed to the development of high-level scientific research in this country, and collaboration with international centers of excellence.

Research focus

- **Experimental endocrinology**: biology and molecular pharmacology of the male reproductive tract and of the mechanism of hormone action, especially as related to male cancer and fertility;
- **Natural products**: pharmacology of active compounds isolated from medicinal plants;
- **Drug mode of action**: pharmacology of smooth musculature, neurotransmission, calcium signaling and cell death;
- **Physiology**: neurophysiology, physiology and pathophysiology of renal and cardiovascular systems, and the relationship between inflammation and dietary fats;
- **Neurotransmitters**: neuropsychopharmacology (Schizophrenia, Parkinson's disease, Alzheimer's disease, anxiety) and learning/memory.

Selected publications

- Pontes RB et al. Renal nerve stimulation leads to the activation of the Na+/H+ exchanger isoform 3


Camara H et al. Would calcium or potassium channels be responsible for cardiac arrest produced by adenosine and ATP in the right atria of Wistar rats? Eur J Pharmacol. 5;768:199-206, 2015.


Books and chapters


Grants

NIH Grant MH084018, MH069853 – Dr. Mirian Hayashi.

Fogarty International Center/NIH – Dr. Maria Christina Avellar.

Lalor Foundation (USA) – Dr. Maria Christina W. Avellar.

American Society of Andrology (USA) – Dr. Maria Christina W. Avellar.

International Society of Andrology (Germany) – Dra. Maria Christina W. Avellar.

Andrologie, French Society of Andrology – Dr. Maria Christina W. Avellar.

NIH Grant NS40932 South Caroline University – Dr. Soraya Smaili.

Program of Cooperation Brazil-Swiss – Dr. Soraya Smaili.

University of Rome Tor Vergata – Dr. Soraya Smaili.

Dr. Peter Anthony Jones from Department of Urology, Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, CA project in cooperation with Dr. Miriam Galvonas Jasiulionis.

Dr. Ralph Green, Department of Pathology, University of California Davis, CA. Project in cooperation with Miriam Galvonas Jasiulionis.

Grants from NIH MH084018, MH069853; Stanley; NARSAD; CHDI (AS); HighQ; S-R foundation and Pfizer Neuroscience, in collaboration with Dr Nicholas Brandon [Head of Psychiatry of Pfizer Neuroscience] and Drs Akira Sawa and Atsushi Kamiya [Neuroscience Department of Psychiatry, Johns Hopkins University School of Medicine. Cooperation with Dr. Mirian Akemi Furue Hayashi.

The Rockefeller University, NY, USA and Dr. Zhaoyi Wang, Creighton University Medical School, Omaha, USA. Cooperation with Dr. Catarina Porto.

Universidad Autonoma de Madrid (UAM) – Spain. Project in Cooperation with Dr. Afonso Caricati.

University of Melbourne, Australia – Prof. Robin McAllen and Clive May, project in Cooperation with Dr. Ruy Campos and Cassia Bergamaschi.

University of Bristol – Prof. Julian Patton, project in cooperation with Dr. Ruy Campos.

Università degli Studi di Milano, Italia, Prof. Nicola Montano – Project in cooperation with Dr. Cassia Bergamaschi.

University of Rome – Dr. Mauro Piacentini, Project in cooperation with Dr. Soraya Smaili.

University College, London, Dr. Sandip Patel, project in cooperation with Dr. Soraya Smaili.

Aline Goncalves Nascimento. Signaling pathways, activated by FSH and relaxin, involved in the control of proliferation and differentiation of Sertoli cells. Supervisor: Maria de Fatima Magalhães Lazari.

André Luiz de Moura. Adrenergic Activity Changes Induced by Stress in Cardiac Tissue from Beta-2 Adrenoceptor Knockout Mice. Supervisor: Regina Célia Spadari.

Carolina Maria Alves Bastos. Evaluation of cytoprotective ability of the new analogues of tacrine established in astrocyte lineage and PC-12 cells. Supervisor: Aron Jurkiewicz.


Fabiana Marcelino Meliso. Role of SIRT1 in establishing aberrant epigenetic marks associated with malignant transformation of melanocytes. Supervisor: Miriam Galvonas Jasiulionis.


Mariana Toricelli Pinto. Determining signaling pathways activated by TIMP1 along melanoma genesis. Supervisor: Miriam Galvonas Jasiulionis.


Valeria de Almeida. Role of TRPV1 receptor on positive, negative and, cognitive-like symptoms on an animal model of schizophrenia: the SHR strain (Spontaneously Hypertensive Rat). Supervisor: Vanessa Costhek Abílio.

MSc Thesis (2015)


Cauê Santos Lima. Evaluation of modulating properties of cafestol on the process of cell death in HL60 cells. Supervisor: Claudia Bincoletto Trindade.


Joyce Regina Santos Raimundo. Autonomic and renal alterations in male offspring of sleep restricted
rats during last part of pregnancy. Supervisor: Guiomar Nascimento Gomes.

Rosa Odete Gomes Antunes. Enzyme phenotype influence of converting angiotensin I (Eca – E.C. 3.4.15.1) on vascular reactivity. Maria Supervisor: Teresa Riggio de Lima Landman.

International cooperations

University Joseph Fourier of Grenoble – Dr. Mirian Hayashi.

NIH Grant NS40932 South Caroline University – Dr. Soraya Smaili.

Program of Cooperation Brazil-Swiss – Dr. Soraya Soubhi Smaili.

University of Rome Tor Vergata – Dr. Soraya Smaili.

Dr. Peter Anthony Jones from Department of Urology, Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, CA project in cooperation with Dr. Miriam Galvonas Jasiulionis.

Dr. Ralph Green, Department of Pathology, University of California Davis, CA. Project in cooperation with Miriam Galvonas Jasiulionis.

Grants from NIH MH084018, MH069853; Stanley; NARSAD; CHDI (AS); HighQ; S-R foundation and Pfizer Neuroscience, with collaboration of Dr Nicholas Brandon [Head of Psychiatry of Pfizer Neuroscience] and Drs Akira Sawa and Atsushi Kamiya [Neuroscience Department of Psychiatry, Johns Hopkins University – School of Medicine]. Cooperation with Dr. Miriam Akemi Furue Hayashi.

The Rockefeller University, NY, USA and Dr. Zhaoyi Wang, Creighton University Medical School, Omaha, USA. Cooperation with Dr. Catarina Porto.

Universidad Autonoma de Madrid (UAM) – Spain. Instituto I+D del Medicamento Teófilo Hernando, Spain. Project in Cooperation with Dr. Antonio Garcia, Dr. Afonso Caricati and Dr. Aron Jurkiewicz.

University of Melbourne, Australia – Prof. Robin McAllen and Clive May, project in Cooperation with Dr. Ruy Campos and Cassia Bergamaschi.

University of Bristol – Prof. Julian Patton, project in cooperation with Dr. Ruy Campos.

Università degli Stuﬁ di Milano, Italia, Prof. Nicola Montano – Project in cooperation with Dr. Cassia Bergamaschi.

University of Rome – Dr. Mauro Piacentini, Project in cooperation with Dr Soraya Smaili.

University College, Londres, Dr. Sandip Patel, project in cooperation with Dr. Soraya Smaili.

University of South Carolina, USA, Dr. Yi-Te Hsu. project in cooperation with Dr. Soraya Smaili.

Department of Comparative Biosciences, University of Illinois Urbana-Champaign, Project in cooperation with Dr. Maria de Fátima Lázari.

Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, CA, Department of Pathology, University of California Davis, CA e Children’s Memorial Research Center and Northwestern University, Chicago, Illinois, project in cooperation with Dr. Miriam Jasiulionis.

Prizes

National:


Student: Elizabeth Barbosa de Oliveira Sales.

Supervisor: Ruy Ribeiro de Campos Junior.

International:


APS Travel Award – Cardiovascular, Renal and Metabolic Diseases: Physiology and Gender, 2015, Annapolis, Maryland, USA, Master’s degree student: Rogerio Arger. Supervisor: Guiomar N. Gomes.


The Program has registered 18 patents:


Fapesp, Capes, CNPq, NIH, Capes-PNPD, Fapesp-MCT/CNPq-Pronex, CNPq-INCT, Academic Excellence Program (Proex) – Capes.

Please see at: http://www.posgrad.epm.br/bio-mol/multiequipa.

The Postgraduate Program in Pharmacology has produced more than 600 Masters and PhD theses since its foundation in 1970. Currently the Program has approximately 100 Masters and PhD students, as well as undergraduates, visiting professors and 30 Post-Doctoral fellows.
**Microbiology and Immunology**

**PhD and MSc Degrees**

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**Home page**
http://ppg.unifesp.br/microbiologiaeimunologia

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**Home page Sucupira**

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**Coordinator**
Rosana Puccia

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**Address**
Ed. Ciências Biomédicas – Rua Botucatu, 862 – 6º andar – Vila Clementino – Cep 04023-062 São Paulo/SP – Brazil

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**Contact**
ppg.mip@unifesp.br
(55 11) 5576-4848 extension 2933

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**Historical background**

The Postgraduate Program in Microbiology and Immunology started in 1971 and since then has consistently achieved the highest rating (Capes 7.0) among Brazilian postgraduate programs. The program has produced more than 800 Master and Ph.D. theses. Many of our former students are now productive independent researchers in our own university and in other institutions around Brazil and abroad. Our students have also gone on to be highly qualified teachers and technicians, and some have joined the biomedical industry. The Program aims at stimulating critical and independent scientific thinking, development of top quality research and high impact publications, and interaction/collaboration with local, national and international researchers.

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**Research focus**

The researchers associated with the Program study microbial pathogens (bacteria, virus, fungi, parasites) and tumor cells. The scientific interests of the faculty in the Program fall into four main areas: 1) characterization of cells and immune factors involved in cell invasion, inflammation, neurological processes, and grafts; 2) development and characterization of therapeutic agents and vaccines targeting microbial pathogens and cancer; 3) cell biology, signaling, and pathogenicity mechanisms in microbial pathogens and cancer; 4) molecular epidemiology, genetic diversity, evolution, molecular biology and regulations of gene expression in microbial pathogens.

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**Selected publications**


Books and chapters


Massaoka MH; Matsuo AI; Scutti JAB; Arruda DC; Rabaça AN; Figueiredo CR; Farias CF; Girola N; Travassos LR. Melanoma: Perspectives of a Vaccine Based on Peptides. Molecular Vaccines. 1ed. Springer Vienna, 2013, v. , p. 397-412.


Cortez C; Sobreira TJ; Maeda FY; Yoshida N. The gp82 surface molecule of Trypanosoma cruzi metacyclic forms. In: André LS Santos; Marta H Bran-
Grants

A complete list of grants that support research developed by program faculty can be accessed here: http://www.microimunounifesp.com.br/home/programa/insercao-social/fincaniamentos-vigentes/


Adriana Taveira da Cruz. The role of miR-138 and miR142-3p in melanoma development. Supervisor: Miriam Galvonas Jasiulionis.


Carlos Rogerio de Figueiredo. Evaluation of the anti-tumor potential of peptides with sequences designed according to CDR hypervariable regions: activity and mechanism of action in vivo and in vitro of the C36 peptide derived from vl CDR1 (L1) on the murine B16f10-Nex2 melanoma. Supervisor: Luiz Rodolpho Raja Gabaglia Travassos.


Erika Fernandes Campos. Elevated BAFF expression levels in the graft and elevated soluble BAFF in the serum are associated with inflammation in kidney grafts with delayed dysfunction. Supervisor: Maria Gerbase de Lima.


Priscila De Oliveira Colombo. Paracoccidioides brasiliensis protease activity on PARS and on the IL-6 degradation. Supervisor: Erika Suzuki de Toledo.

and focal glomerulosclerosis. Supervisor: Alexandre de Castro Keller.

**MSc Thesis (2015)**

Bianca Carla Silva Campitelli de Barros. The role of integrin and epithelial cells in the secretion and cytokines induced by Paracoccidioides brasiliensis. Supervisor: Erika Suzuki de Toledo.


Carina Carraro Pessoa. Participation of the D2 subunit from the vacuolar ATPase in the biogenesis of the parasitophorous vacuoles from Leishmania amazonensis and Trypanosoma cruzi. Supervisor: Renato Arruda Mortara.

Caroline Ferreira Guimarães. Potential for malignant transformation of B-1 cells resistant to ionizing radiation. Supervisor: Ana Flavia Popi.

Lais Cristina da Silva. Phylogenetic origin and diversity of virulence markers of several pathotypes of gut pathogenic Escherichia coli. Supervisor: Rosa Maria Silva.


**International cooperations**

The Program faculty maintain intense and productive collaborations with Brazilian researchers and international researchers from important institutions around the world, too many to list here. We invite you to access the complete list of collaborations on the Program website: http://www.microimunounifesp.com.br/wp-content/uploads/2013/03/Cols-Nac-e-Inter-2013-2016-site-june206.pdf

**Prizes**

A complete list of prizes awarded to Program members can be seen here: http://www.microimunounifesp.com.br/home/programa/insercao-social/premios-recebidos/

**Financial support**

Fapesp, CNPq, Capes.
Pathology
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/patologia

Home page Sucupira

Coordinator
Gilles Landman

Address
Rua Botucatu, 740 – 4º andar – Vila Clementino – Cep 04039-002 São Paulo/SP – Brazil

Contact
ppg.patologia@unifesp.br;
(55 11) 5576-4848 extension 2893

Historical background

The Postgraduate Program in Pathology was founded in 1978, by Prof. Miguel Noel Nascentes Penido Burnier Jr. For the first seven years the Program offered master degrees only; in 1985 the PhD degree was added. The Program has been directed by the following professors:

2005-2006: Profa Francy dos Reis Patricio, Coordinator; Profa. Silvia Saiuli Ihara, Vice-Coordinator
2007-2008 and 2009-2010: Profa. Silvia Saiuli Ihara, Coordinator; Prof. Vicente de Paulo Castro Teixeira, Vice-Coordinator
2011-2012: Prof. João Norberto Stávale, Coordinator; Prof. Gilles Landman, Vice-Coordinator
2013-2015: Prof. Gilles Landman, Coordinator; Profa. Silvia Saiuli Ihara, Vice-Coordinator

The Postgraduate Program in Pathology aims to train highly qualified academic and scientific professionals, qualified to join leading research and teaching groups. Postgraduate students are expected to develop skills in the following areas during their training: 1) pursuing scientific knowledge with an open-minded approach; 2) conducting scientific experiments following strict and well-designed protocols; 3) thinking critically and independently; 4) summarizing ideas; 5) working in a multi-disciplinary environment; 6) writing grants; 7) teaching; 8) recognizing and evaluating potential ethical issues in research. Students are expected to develop research projects in either experimental or applied pathology, based on literature review and relevant questioning, planning and methodological design. Students attend courses and a weekly scientific meeting.

Throughout the history of the Program, laboratory facilities have been gradually added to improve and expand research possibilities. These facilities include a Laboratory Core Facility, a Biobank, and new laboratory spaces in Research Building I. Now a new diagnostic facility for surgical pathology is under construction. The new facility will include offices for surgical pathologists and researchers, and will house the new PhD Program office.

Research focus

Main areas of research

1. Human Pathology: evaluation of diseases related to metabolism impairment, infectious diseases, circulatory system diseases, degenerative diseases, and liquid and solid neoplasias, all in humans.

2. Experimental Pathology: evaluation of diseases related to metabolism impairment, infectious diseases, circulatory system diseases, degenerative diseases and neoplastic diseases in experimental models (animal and in vitro).

3. Forensic Pathology: improvement of histopathological diagnostic methods and molecular biology applied to forensic diagnosis; evaluation of gene and genotype frequencies in the Brazilian population.
Lines of investigation


Selected publications

Selected publications 2015


Books and chapters


MSc Thesis (2015)


Veronica Quispe Yujra. Crack induced genotoxicity and mutagenicity in C57BL/6J mouse. Date: 14/10/2015. Supervisor: Daniel Araki Ribeiro.


Daiane Pereira Guimaraes. Intratumoral and inter-metastatic heterogeneity evaluation of the gene BRAF (7Q34) exon 15 in metastatic melanomas. Date: 06/05/2015. Supervisor: Gilles Landman.


International cooperations

Northumbria University Centre for Forensic Science, Northumbria University, Newcastle Upon Tyne, UK – Martin Paul Evison, BSc, MSc, PhD.

Prizes

Patricia Naomi Sakae, Henrique Tria Bianco, Luciano Camargo, Juliana Goncalves Carvalho, Maria


Financial support

Fapesp, CNPq, Capes, Finep.

Facilities

For a complete description of Program facilities, please see our website: http://ppg.unifesp.br/patologia

Research Labs:

1. Molecular Pathology Core Laboratory: open to researchers who seek assistance with paraffin embedded tissue and frozen histological sections, tissue microarray (TMA), laser microdissection, DNA extraction, FISH microscopy, and digital imaging and analysis Coordinator: Prof. Gilles Landman – Contact: glandman@unifesp.br

2. Research Building I Campus São Paulo (fifth floor): Digestive and Degenerative Diseases Laboratory. Coordinator: Prof. Celina Oshima, Prof. Silva Ihara and post-doc Ana Paula Paiotti. Contact: celina.oshima@gmail.com; silviaihara@gmail.com; appaiotti@gmail.com

3. Research Building I Campus São Paulo (fifth floor): Forensic Pathology Laboratory. Coordinator: Prof. Edna Iwamura. Contact: eiwamura@gmail.com

4. Surgical Pathology Laboratory: dedicated to assist the University Hospital and outpatient facilities, at Campus São Paulo. Home of the surgical pathology residency program since 1977. Department Director: Prof. Ricardo Artigiani. Contact: cardoso.santos@gmail.com

Other information

Program supervisors:

Ana Paula Ribeiro Paiotti
Angela Flavia Logullo Waitzberg
Celina Tizuko Fujiyama Oshima
Daniel Araki Ribeiro
Edna Sadayo Miazato Iwamura
Gilles Landman
Gustavo Rubino de Azevedo Focchi
Joao Norberto Stavale
Marcello Fabiano de Franco
Maria da Gloria Mattosinho de Castro Ferraz
Maria Regina Regis Silva
Maria Teresa de Seixas Alves
Paula Midori Castelo
Rita Sinigaglia Coimbra
Silvia Saiuli Miki Ihara
Home page
http://www2.unifesp.br/dmed/cardio/pos-graduacao

Home page Sucupira

Coordinator
Valdir Ambrosio Moisés

Address
Rua Napoleão de Barros, 715 – Térreo – Vila Clementino – Cep: 04024-002 – São Paulo/SP – Brazil

Contact
ppg.cardiologia@unifesp.br; (55 11) 55764848 extension 2852

Historical background

The Postgraduate Program in Cardiology at the Escola Paulista de Medicina, Universidade Federal de São Paulo, was established in 1978. As of the end of 2015, 171 master degrees and 169 doctoral degrees have been awarded by the Program. In the same timeframe, 494 full manuscripts were published in national journals and 920 in international journals. These include manuscripts based on students’ thesis research, which are generally published in indexed journals. Many graduates of the Program are now working in national or international institutions as researchers, teachers or other roles associated with medical or biological fields.

Professors and students in the Cardiology Program are continuously stimulated to develop innovative research projects within the focus of the Program, and to acquire and maintain funding for their projects.

Research focus

1 – Integrated analysis of physiological and genetic adaptations resulting from cellular injuries and pathologies of the cardiovascular system.

2 – Integration of biomarkers, electrocardiographic registers and multimodality imaging techniques in the diagnosis and monitoring of cardiovascular abnormalities.

3 – Integrated investigation of diagnostic and therapeutic procedures used to identify and treat cardiovascular diseases.

4 – Local and systemic reactions following cardiovascular interventions.

5 – Translational investigation of cardiovascular risk factors: hypertension, atherosclerosis and endothelial dysfunction.

6 – Investigation of cardiovascular effects of sports and physical activities.

7 – Investigation of cardiovascular effects of sleep disturbances and systemic diseases.

8 – Genetic and clinical investigation of cardiovascular malformations and acquired diseases in the fetus, in newborns and in children.

Selected publications

Felipe José de Andrade Falcão, Claudia Maria Rodrigues Alves, Adriano Mendes Caixeta et al. Relation between the ankle-brachial index and the complexity of coronary artery disease in older patients. Journal of Clinical Interventions in Aging (Online) 2013, doi 10.2147/CIA.527


Maria Marta da Silva, Teresa H. Schoen-Ferreira, Antonio Carlos de Camargo Carvalho et al. Behaviour problems in adolescents with cardiac disease:


Valdelias Xavier Pereira, Luiz Carlos de Abreu, Celso Ferreira et al. The lipodystrophy syndrome as a risk marker for cardiovascular disease in patients with HIV/AIDS treated with HAART. International Archives of Medicine (Online), 2015; doi 10.3823/1677


Books and chapters


Ecocardiografia na Terapia Intensiva e na Emergência. Antonio Carlos de Camargo Carvalho e Orlando Campos Filho. 2015.
Grants

Fapesp – 2012/51692-7
Fapesp – 2015/11028-9
CNPQ – 479395/2012-8
CNPQ – 312830/2013-0
CNPQ – 441929/2014-1
CNPQ – 300937/2015-6


MSc Thesis (2015)


International cooperations

Alberto Costa, MD, PhD – Case Western Reserve University, Department of Pediatrics, project in cooperation with Dr. Celso Ferreira.

John Godleski, MD, PhD – Harvard School of Public Health, Department of Environmental Health, project in cooperation with Dr. Celso Ferreira.

Marielle Scherrer-Crosbie, MD, PhD – Massachusetts General Hospital, Cardiovascular Research Center, project in cooperation with Dr. Orlando Campos Filho

Javier Sanz, MD – Mount Sinai Hospital, Cardiac CT and MR Laboratory, project in cooperation with Dr. Adriano Mendes Caixeta.

Jagat Narula, MD, PhD – Mount Sinai Hospital, Cardiovascular Imaging Program, project in cooperation with Dr. Adriano Mendes Caixeta.

Harvey Hecht, MD – Mount Sinai Hospital, The Lauder Family Cardiovascular Ambulatory Center, project in cooperation with Dr. Adriano Mendes Caixeta.

Akiko Maehara, MD, PhD – Columbia University, Division of Cardiology, project in cooperation with Dr. Adriano Mendes Caixeta.

Gary Mintz, MD – Columbia University, Division of Cardiology, project in cooperation with Dr. Adriano Mendes Caixeta.

Laura Kristin Newby, MD – Duke University, Division of Cardiology, project in cooperation with Dr. Renato Delascio Lopes.

Prizes


Interdisciplinary Prize, SOCESP – Cardiology Society of São Paulo State. 2014.

IX Health Prize – Category: Health and Prevention, Editora Abril. 2014.
Young Investigator Prize: offered by 70th Brazilian Congress of Cardiology. Title: Patients infected with the HIV virus have reduced endothelial function and lower titers of natural anti-peptide fragments derived from ApoB. Henrique Andrade Rodrigues da Fonseca 2015.

Camilano Scientist Prize – professional category of XIX Scientific Meeting of Centro Universitário São Camilo; Title: Effects of high protein diet with carbohydrate restriction and traditional hypocaloric diet in obese subjects: nutritional, biochemical and endothelial function evaluations. Francisco Antonio Helfenstein Fonseca 2015.

Sergio Diogo Gianinni Prize – Oral presentation (2nd place– clinical research), XV Brazilian Congress of Atherosclerosis; Title: Effect of high protein/very low carbohydrate diet standard hypocaloric diet in obese subjects: nutritional, biochemical and endothelial function evaluations. Francisco Antonio Helfenstein Fonseca 2015.

Sergio Diogo Gianinni Prize – (3rd place- basic research). XV Brazilian Congress of Atherosclerosis; Title: Imbalance between B1 and B2 subtypes of lymphocytes is related to Coronary Artery Disease. Ana Carolina Carneiro Aguirre 2015.

Financial support

Fapesp, Capes, CNPq.

Facilities

For a description of our facilities, please see http://www.posgrad.epm.br/biomol/multiequipa.
Historical background

The Postgraduate Program in Interdisciplinary Surgical Science Unifesp – Paulista School of Medicine (EPM) was established in 1975. The goal of the Program is to train faculty and researchers and to design innovative research projects that uncover new knowledge about human health and disease. Students in this Program choose an area of concentration, but also study related fields, in order to develop skills in critical assessment of scientific information and to gain knowledge of clinical epidemiological tools used in scientific research. Special emphasis is given to Critical Evaluation of Scientific Literature, Scientific Methodology, Research Integration, Biostatistics, Research Information Technology, Research Development and Didactic-Pedagogical Training. Through these studies, participants develop critical and independent reasoning in their area of concentration, become informed about related areas, participate in high-level scientific activities, use advanced technologies, and are able to form collaborations within Unifesp and with other institutions. There are currently seven areas of concentration in the Program: Vascular Surgery, Cardiac Surgery, Anesthesiology, Thoracic Surgery, Surgical Gastroenterology, Pediatric Surgery and Operative Technique and Experimental Surgery.

Research focus

1. Effects of experimental biological procedures
   1.1 Postoperative functional and histopathologic changes
   1.2 Operative strategies and graft survival and recipient in organ transplants

2. Diagnostic and therapeutic innovations
   2.1 Tissue expression of biomarkers and diagnostic and prognostic correlations
   2.2 Evaluation of the efficacy of minimally invasive surgical techniques
   2.3 Evaluation of alternative analgesic and anesthetic techniques
   2.4 Pathophysiology and diagnosis of digestive tract dysmotility
   2.5 Morpho-functional impact and post-surgical tissue healing application of prosthesis
   2.6 Systematic review of surgical therapeutic interventions
   2.7 Prevention of adverse perioperative events

Selected publications

Cavalcanti Neto AJ, Lustosa SAS, Casazza G, Reis C, Gomes MP, Do Carmo ACF, D’Ippolito G, Matos D. Combination of magnetic resonance cholangiopancreatography and conventional magnetic resonance imaging for the diagnosis of bile duct stenosis (Protocol). Cochrane Database of System-


Books and chapters


Laparoscopic heller myotomy and fundoplication. What type? Mariano de Almeida Menezes.


Edinaldo Goncalves de Miranda, Expression of P53 protein, HER2 and Ki67 in mice subjected to bladder augmentation with stomach, colon and il- lum. Supervisor: Jaques Waisberg

Felipe José de Moura Vianna. Arterial calcification relation and levels of fetuin A in patients with chronic renal failure in early hemodialysis therapy. Supervisor: Fausto Miranda Junior.

MSc Thesis (2015)


Ana Karina Soares Alves. Infusion effect of mesenchymal stem cells in liver regeneration after 70% hepatectomy: experimental model in mice. Supervisor: Marcelo Moura Linhares.


Danilo José Fiorindo Faria. Folic acid effect in three experimental models of anorectal abnormalities in mice. Supervisor: José Luiz Martins.


Carlos Toshinori Maeda. Inflammatory response and collagen morphometry study in the early and late stages between high and low density polypropylene meshes, encapsulated polypropylene with polydioxa- none, coated with oxidized cellulose and expanded polytetrafluoroethylene. Supervisor: Marcelo Moura Linhares.


International cooperations

Hopital Paul Brousse – Université Paris XI. (Prof. René Adam) and Institut Henri Bismuth (Prof. Hon. Henri Bismuth) – Prof. Marcelo Moura Linhares, Dr.Rogério Obrégon de Mattos, Dr. Leandro Dias Cézar.

Hopital Paul Brousse – Université Paris-Sud. Prof. Adriano Miziara Gonzalez. Hopital Saint Antoine (Prof. Olivier Soubrane) – Prof. Marcelo Moura Linhares, Dr.Fernando Piza Pompeu Vicentini.

University of Chicago (Prof. Marco G. Patti) – Prof. Fernando Augusto Mardiros Herbella.

Université Pierre et Marie Curie-UPMC, Paris (Prof. Olivier Soubrane and Fabiano Perdigão) – Prof. Adriano Miziara Gonzalez, Dr. Fernando Pompeu Piza Vicentine.

University Hospital Zurich-Division of Visceral and Transplant Surgery, Switzerland (Prof. Pierre-Alain Clavien) – Prof. Gaspar de Jesus Lopes Filho, Profa. Michelle Lucinda Gonçalves de Oliveira

Seoul National University Hospital – Snuh, Seoul,
Financial support

Fapesp, CNPq, Capes.

Facilities

Research in our Program takes place in a collaborative scientific system, integrating various departments within our institution and in other institutions, to provide a full range of facilities, equipment and supplies for development of thesis work. The following departments are included:

- Digestive Physiology Division (Setor de Fisiologia Digestiva – SEFIDI) – Unifesp-EPM, Prof. Edson José Lobo.
- Operative Technique Laboratory of Experimental Surgery – Unifesp-EPM, Prof. Murched Omar Taha
- Laboratory of Experimental Surgery - Unifesp-EPM, Prof. Dr. Ivan Hong Jung Koh.
- Department of Surgery Animal House Facility – Unifesp-EPM.
- Integrated Laboratory of Research in Surgery, Prof. Dr. José Luiz Martins.
- Department of Pathological Anatomy- Unifesp-EPM, Prof. Ricardo Artigiani.
- Anorectal manometry Laboratory of the Pediatric Surgery Discipline, Prof. Dr. José Luiz Martins, Unifesp-EPM.
- Experimental Model Development Center for Medicine and Biology, CEDEME – Unifesp-EPM, Profa. Heloísa Allegro Baptista.
- GRAAC Molecular Biology Laboratory, Profa. Silvia R. Caminada de Toledo.
- Laboratory of Biophysics – Unifesp-EPM, Profa. Adriana K. Carmona.
- Laboratory of Genetics – Unifesp-EPM, Profa. Marília Smith.
- Laboratory for Molecular Gynecology – Unifesp-EPM, Prof. Dr. Ismael Dale Cotrim.
- Laboratory of Pharmacology CINTERGEN – Unifesp-EPM, Prof. Dr. Hugo Pequeno Monteiro.
- Laboratory of Pharmacology – Unifesp-EPM, Prof. Dr. Afonso Carinatti.
- Department of Imaging (Diagnostic Imaging)-
- Unifesp-EPM, Prof. Nitamar Abdala.
- Preventive Medicine Department – Biostatistics – Unifesp-EPM, Profa. Rebeca de Souza e Silva.
- Health IT Department (DIS – Departamento de Informática em Saúde)- Unifesp-EPM, Prof. Paulo Bandiera Paiva.
- Cochrane Collaboration – Meta-analysis Unit, Prof. Álvaro N. Atallah.
- Technological Institute of Aeronautics (Instituto Tecnológico da Aeronáutica).

Other information

The Interdisciplinary Surgical Science Postgraduate Program began in 1975 as the Surgical Gastroenterology Postgraduate Program. In 2012 the Program was reorganized along thematic lines; concentration areas and lines of research were regrouped, and highly qualified mentors were recruited. At this time the Postgraduate Program in Interdisciplinary Surgical Science has 15 Mentors, one being a collaborator. As of December 2015, the Program has awarded 229 Masters and 133 PhD degrees, and sponsored 5 Postdoctoral Fellows. Currently the Program has 19 Master degree students, 24 Doctoral students, 16 undergraduate students and 6 Postdoctoral Fellows.
Historical background

The Postgraduate Program in Endocrinology was created in 1975, and was initially focused on training physicians. In 1998 the Program was expanded to include other health professionals, filling a gap in that area. The Program is designed to provide research-oriented training in different areas of endocrinology, including diabetes, obesity, thyroid, adrenal, neuroendocrinology, osteo-metabolic diseases, and gonadal and adrenal disorders. The main goal of the Program is to prepare students for the professional practice of teaching and research. It also aims to enable students to develop and sustain their own research with autonomy and high standards. The infrastructure consists of well-equipped research laboratories, outpatient clinics and hospital facilities. Since the Program’s foundation it has awarded more than 300 Master or PhD degrees. Currently the faculty is composed of 20 highly qualified researchers, most of them with post-doctoral training in research centers of the United States, England, Germany, Italy and France.

Research focus

Research carried out in the Endocrinology Program includes clinical, experimental and translational research in different areas of endocrinology (diabetes, obesity, thyroid, adrenal, neuroendocrinology, osteoporosis/metabolic bone disease, gonads and development). The main areas of research are epidemiology of endocrine disorders, physiology and pathophysiology in endocrinology, cellular and molecular basis of endocrine-metabolic diseases, methodological advances in measurement of hormones, and therapy in endocrine disorders.

Selected publications


PatriciaChamadoiraKhun. Evaluation of body adiposity index (BAI) to estimate percent body fat


Books and chapters

Chapter: Thyroid Cancer – Rui M.B. Maciel. 2013. in: Câncer de Tiróide: Classificação e Diagnóstico – Editor: Lucio Vilar, Publisher: Gen Editora.


Chapter: Methods for the analysis of nucleic acids: DNA and RNA. Janete Maria Cerutti. 2013. in: Guia de Genética Médica – Publisher: Manole.


Chapter: MODY. André Fernandes Reis. 2014. in: Tratado de Endocrinologia Clínica – Publisher: A.C. Farmacêutica Ltda.


Grants

CNPq, Fapesp.


Carla Sanchez Bergamin. HLA class II and the relationship between viral infection and autoimmunity in type 1 diabetes multiplex families. Supervisor: Sergio Atala Dib.

Mariana Telles Silveira. Contributions from psychology in assembling an outpatient service for patients with Disorders of Sex Development (DSD) within the Division of Endocrinology at the Universidade Federal de São Paulo: organization, clinical research and interventions. Supervisor: Claudio Elias Kater.


Ji Hoon Yang. New aspects of the follow-up of
differentiated and medullary thyroid carcinoma.
Supervisor: Rui M.B. Maciel

Revilane Parente de Alencar Britto. Nutritional and metabolic alterations in short stature women. Supervisor: Ana Lydia Sawaya


Susan Chow Lindsey. Clinical-molecular diagnosis, prognosis and evaluation of tumor signaling pathways gene expression for individualization of follow-up of patients with medullary thyroid cancer. Supervisor: Magnus R. Dias da Silva

Maria Sharmila Alina de Sousa. Multiple endocrine neoplasia type 2: Translational medicine, bioethics and society. Supervisor: Rui M.B. Maciel.

Augusto Pimazoni Netto. Efficacy of Multifactorial Interventions for the Short Term Control of Type 2 Diabetes – A Randomized, Controlled Proof-of-Concept Study. Supervisor: Maria Teresa Zanella.

MSc Thesis (2015)

Patricia Muszkat. Prevalence of vertebral fracture detected by Digital Vertebral Morphometry by DXA in women under treatment for osteoporosis in outpatient specialized clinic. Supervisor: Marise Lazaretti Castro.


International cooperations

Gregory J. Riggins, Associate Professor of Neurosurgery, Pathology, Oncology and Genetic Medicine, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA.

Prof. Mingzhao Xing – Johns Hopkins University School of Medicine, Baltimore, MD, USA

Dr. Gilberto Velho, INSERM, France.

Thyroid Studies Collaboration: United States (Cardiovascular Health Study; Health, Aging, and Body Composition Study); United Kingdom (Birmingham Study and EPIC-Norfolk Study); Norway (Nord-Trøndelag Health Study (HUNT Study); Netherlands (Leiden 85-Plus Study); Italy (Pisa Cohort); Germany (Study of Health in Pomerania); Australia (Busselton Health Study).

Antonio Carlos Bianco, Chief, Division of Endocrinology, Rush University Medical School, Chicago.

John P. Bilezikian, Chief of the Division of Endocrinology, Director of Metabolic Bone Diseases Program, University of Columbia, NY, EUA.

Prizes


Lais de Souza Moraes, Janete Maria Cerutti – José Carlos Prates Award: Best scientific paper (PhD category) – Meeting of the Structural and Functional Biology Program (2015).

Angela Leal, Rosangela Villa Marin Mio, Michael Francis Holick, Marise Lazaretti-Castro. Best Poster Award – VI Brazilian Congress of Densitometry, Osteoporosis and Osteometabolism – BRADOO. Title: Differences in the in vitro photoconversion of vitamin D, Fortaleza and Sao Paulo.

Rodrigo Nolasco dos Santos, Monica Longo de Oliveira, Rosangela Vila Marin Mio, Ivan Schonmann, Milena Carrio Dutra, Marise Lazaretti Castro. Second Place Award, Best Clinical Free Theme (Sergio Ragi Eis Prize) – VI Brazilian Congress of Densitometry, Osteoporosis and Osteometabolism – BRADOO. Title: Repercussions of the static balance in the strength and agility of postmenopausal women participating in a Rehabilitation and Activity Program Physics directed to Osteoporotic (PRADO).

Sergio Atala Dib, Francisco Arduino. Award for the 30 years of Research in diabetes – Brazilian Society of Diabetes, XX Brazilian Congress of Diabetes, 2015.

Taciana Paes, Celso S. Filho, Fernando Malerbi, Luis Clemente Rolim and Sergio Dib. Third place Award oral presentation – XX Brazilian Congress of Diabetes, 2015.

Renata A. Dotto, Andre L.G. Matta, Luciana Franco, Leticia S. Weinert, Sandra P. Silverio, Fernando

Financial support

CNPq, Fapesp, Finep, Capes.
Home page
http://ppg.unifesp.br/gastroenterologia

Home page Sucupira

Coordinator
Maria L. C. Gomes Ferraz

Address
Rua Botucatu, 740 – 2º andar – Vila Clementino – Cep: 04023900 São Paulo/SP – Brazil

Contact
ppg.gastroenterologia@unifesp.br
(55 11) 5576-4050 – 5576-4848 extension 2878

Historical background

The Postgraduate Program in Gastroenterology was founded in 1976. During the last forty years the Program has focused on training students who come from a variety of health science backgrounds, including physicians, nurses, biologists, biomedical engineers, psychologists and nutritionists. The aim of the Program has been to prepare students to become excellent researchers and teachers, able to work independently. Many postgraduates of the Program are now professors and researchers in institutions throughout Brazil, contributing to the development of science and medicine in this country.

Research focus

- **Experimental hepatology**: studies on ischemia and reperfusion and the kinin-kallikrein system using isolated rat liver

- **Gastrointestinal oncology**: molecular biology of diagnostic and prognostic markers of gastric and colorectal cancer

- **Viral hepatitis**: epidemiology, diagnosis and therapeutic aspects, with emphasis on the study of hemodialysis and renal transplant patients; molecular biology applied to the study of HBV, HCV and HEV

- **Cirrhosis, hepatocellular carcinoma and liver transplant**: epidemiological studies, diagnostic markers, indirect markers of fibrosis, renal dysfunction in cirrhotic patients

- **Non-alcoholic fatty liver disease and nutrition in hepatic diseases**

Selected publications


Silva I, Carvalho Filho R, Feldner AC, Zaros I,


Aguia-Agrave; PN Jr, Tadokoro H, Forones NM, de Mello RA. MMR deficiency may lead to a high immunogenicity and then an improvement in anti-PD-1 efficacy for metastatic colorectal cancer. Immunotherapy. 2015;7(11):1133-4.


Books and chapters

Atualização Terapêutica, 2012-2013, Artes Médicas – several chapters in Gastroenterology Section

Guias de Medicina Ambulatorial e Hospitalar da EPM-Unifesp – Hepatologia – Maria Lucia Ferraz, Janaina Narciso Schiavom and Antonio Eduardo Silva, editors, 2014 – several chapters from post-graduate students and ex-post-graduate students.


Student: Mayra de Almeida Paio. Title: Effect of supplementation with omega-3 or omega-6 enriched diet on cell death induced by kinins in ischemia-reperfusion of rat liver. Supervisor: Marcia Regina Nagaoka.
MSc Thesis (2015)

Student: Jardelina de Souza Todão Bernardino. Title: Molecular characterization of hepatitis C virus in chronic carriers from the states of Paraíba and Pernambuco, Brazil. Supervisor: Isabel Maria Vicente Guedes de Carvalho Mello.


Student: Vivian Mota Guimarães. Title: Relationship of intestinal bacterial overgrowth and systemic endotoxemia with clinical, biochemical and histopathological parameters of nonalcoholic fatty liver disease without cirrhosis. Supervisor: Edison Roberto Parise.

Student: Vanessa Aparecida de Santis e Silva. Title: Nutritional Profile of Patients with Chronic Hepatitis C Genotype 1 Infection: Association With Histological Findings. Supervisor: Ivonete Sandra de Souza e Silva.

Student: Magali Angélica da Costa. Title: Evaluation of patient’s satisfaction and socioeconomic profile of clients who attended the outpatient clinics of the Gastroenterology Division – Federal University of Sao Paulo. Supervisor: Maria Lucia Cardoso Gomes Ferraz.

International cooperations

Merieux Institute: institutional cooperation.

Harvard Medical School: cooperation with Dr. Carolina Pimentel (during PhD).

Service d Hépatologie, Hôpital Beaujon (Assistance publique Hôpitaux de Paris) e Institut National de la Santé Et de la Recherche Médicale (IN-SERM U773-CRB3), Université Denis Diderot-Paris 7 (2008 2009): cooperação com Dr. Roberto José de Carvalho Filho.

Departamento de Medicina Hospital Universitário Rikshospitalet Oslo, Noruega.

Financial support

Fapesp, Capes, CNPq.

Facilities

Please see: http://www2.unifesp.br/dmed/gastro/site/index.php/pos-graduacao/

Other information

The Postgraduate Program in Gastroenterology has trained many students who are now professors in Federal Universities in Brazil, including Federal University of Rio de Janeiro, Federal University of Santa Catarina, Federal University of Maranhao, Federal University of Pernambuco, Federal University of Sergipe and Federal University of Amazonas.

Currently there are 45 students in our Master and PhD Programs.
Home page
http://ppg.unifesp.br/obstetricia; Facebook: ppg-obstetricia

Home page Sucupira

Coordinator
Nelson Sass

Address
Rua Napoleão de Barros, 875 – Vila Clementino – Cep 04024-002 São Paulo/SP – Brazil

Contact
ppg.obstetricia@unifesp.br
(55 11) 5576-4848 extension 3036

Historical background

The Postgraduate Program in Obstetrics was founded in 1979, and is the only postgraduate Program in the country that focuses on Obstetrics. The Program is scored grade 5 by Capes. Research interests of Program members include maternal and perinatal health, especially prematurity, metabolic syndrome (pre-eclampsia, diabetes mellitus, obesity), and qualification of obstetric and fetal medicine, including assessment of fetal development and tracking and treatment of congenital anomalies. In an effort to reduce regional disparities in availability of scientific training, our Program welcomes students from all Brazilian states.

Research focus

1 – Repercussions of drugs in pregnancy: investigation of the action of drugs or other substances on maternal organs, placenta and fetus via bioassays using macroscopic morphological analysis, optical microscopy, immunohistochemistry and electron microscopy.

2 – Psychosocial and behavioral aspects of pregnancy: biopsychosocial aspects of the female condition during this stage of reproductive life and their interfaces with social, professional, and personal matters, including related personal conflicts.

3 – Clinical and metabolic repercussions of contraception: clinical and laboratory research related to contraceptive methods, including assessment of effectiveness and side effects.

4 – Maternal-fetal interaction and its relationship with obstetric pathologies: investigation of trophoblastic invasion and biomarkers resulting from this process using molecular and cell biology techniques, genetic polymorphisms and expression of mediators of inflammatory response and cell cycle regulation.

5 – Epidemiological, clinical and therapeutic investigation of obstetric and perinatal conditions: pathogenesis, epidemiology, treatment and prognosis of intercurrent conditions in pregnancy and their impact on reproductive success.

6 – Technological innovation and its incorporation in obstetric practice: impact of clinical interventions, technology and new diagnostic tests aimed at improving maternal and perinatal safety.

7 – Biophysical analysis of maternal-fetal interaction and repercussions in reproductive female tract and health fetal: using biophysical methods such as ultrasound, cardiotocography and Doppler, by themselves or together with biomarkers, to study maternal and fetal structures and adaptive mechanisms of pregnancy, including normal patterns and anomalies of this process.
Selected publications


Books and chapters


Grants

Fapesp – Fundação de Amparo à Pesquisa do Estado de São Paulo

1 – Advanced Laboratory of Three-Dimensional Ultrasound Surveys. From the Department of Obstetrics of the Federal University of São Paulo – Process 11 / 51281-4. Researcher responsible: Prof. Dr. Edward A. Junior.


CNPQ and the Bill and Melinda Gates Foundation

Influence of the vaginal microbiome and vaginal Metabolites on cervical remodeling and preterm parturition. Researchers: Antonio F. Moron.


**MSc Thesis (2015)**

Felipe Favorette Campanharo The impact of cardiac diseases in cases of severe maternal morbidity. Supervisor: Rosiane Mattar.


Nayana Alves de Brito Melo Okasaki – Hemodynamics Pattern of the ophthalmic artery in pregnant women with appropriate for gestational age fetuses and fetal growth restriction: Doppler Study. Supervisor: Luciano M. M. Nardozza.

**International cooperations**

A multicenter PIERS (Preeclampsia Integrated and Estimated Risk) project aimed at reducing the impact on personal, family and social life caused by maternal mortality and morbidity associated with preeclampsia in low- and middle-income countries. PI Peter Von Daldeszen (University British Columbia). Supervisor: Nelson Sass.

CHIPS (Control of Hypertension in Pregnancy Study) project whose main researcher is Laura Magee of the University of British Columbia (Vancouver – Canada), whose objective is to evaluate the impact of different antihypertensive treatment regimens in patients with chronic hypertension. Participation of professor Nelson Sass and student Henri Korkes.


**Internacional Exchange Program for PhD Students:**


**Post-doctorate abroad:**

- Profa. Dr. Sue Yazaki Sun. Science without Borders Program 200756 / 2014-1 at Harvard Medical School under the supervision of Prof. Ross S. Berkowitz, from 01/10/2014 to 03/31/2015, focusing on gestational trophoblastic neoplasia.
Short-Term Visits in International Centers Nelson Sass. Department of Obstetrics and Gynecology, Nara Medical University, Japan. September 2015. Prof. Hiroshi Kobayashi (Head Professor) and Katsuhiko Naruse.

Roseli Mieko Yamamoto Nomura. Visiting Professor Harris Birthright Research Center for Fetal Medicine, King’s College Hospital (UK), December 8-12, 2014.

Reception of research groups under leadership of Prof. Henk Groen – University of Gronigen (The Netherlands). Department: Epidemiology. 24 to 30/11/2015: Faculty involved: Nelson Sass, Antonio Fernandes Moron, Silvia Daher.

Prizes


Financial support

Fapesp; Capes; CNPQ; Bill and Melinda Gates Foundation; Mahle Foundation.

Facilities

Laboratories for Physiological and Experimental Obstetrics I and II. Both with physical area of approximately 40 m² have permanent material acquired with Fapesp projects and institutional technical reserve.

Laboratory of Functional Assessment of the Pelvic Floor located in the Specialties Unifesp Outpatient Clinic.

Other information

The Postgraduate Program in Obstetrics has produced more than 350 Master and PhD theses since 1979. Currently the Program has approximately 40 Master and PhD students, in addition to undergraduate students and 2 Post-Doctoral fellows.
Home page
http://www.ppgginecologia.sites.unifesp.br

Home page Sucupira

Coordinator
Rodrigo de Aquino Castro

Address
Rua Napoleão de Barros, 632 – Vila Clementino – Cep 04024002 São Paulo/SP – Brazil

Contact
karim.santos@unifesp.br
(55 11) 5576-4848 extension 2857

Historical background
The Postgraduate Program in Gynecology was created in 1977. It was conceived and initially directed by Octaviano Alves de Lima Filho. In 1982 Prof. Dr. Klaus Rudolph Mirim became Program director and in 1985 José Focchi became director. The Program received accreditation from CFE in July 1981 and awarded its first Master and PhD degrees in 1983. During the early years the Program had just a few faculty and students. That changed in the mid 1980’s when the Program was opened to students and faculty from other institutions. Professor Geraldo Rodrigues de Lima was instrumental in achieving this change. The increased number of students and faculty resulted in immediate expansion of research and learning, and allowed the development of specialized areas of study including endocrinology, mastology, urogynecology, ultrasound, endoscopy, oncology and human reproduction. Today, 39 years after its creation, the Postgraduate Program in Gynecology has awarded approximately 500 theses.

Research focus
- Clinical and experimental investigation of hormonal changes, using molecular genetic approaches
- Clinical and experimental investigation of infertility in women
- Assessment and critical analysis of new technologies in gynecology
- Molecular genetic and cellular evaluation in gynecology
- Biomarkers in gynecology
- Impact of physical activity on women
- Molecular and cellular genetics, including biomarkers, in breast diseases and genital neoplasms
- Quality of life and rehabilitation in patients with breast diseases and genital neoplasms.

Selected publications


Djehdian LM, Araujo MP, Takano CC, Del-Roy CA, Sartori MG, Girão MJ, Castro RA. Transobtura-


Books and chapters


Girão, MJBC; Sartori, MGF; Nazário, ACP – Condutas em Ginecologia – Anticoncepção e Planejamento Familiar. 1 ed. Atheneu, 2014 v. 4.


Luiza Torelli de Souza – Effectiveness of adding voluntary plevic floor muscle contraction to Pilates exercises program: An randomized controlled trial. Supervisor: Marair Gracio Ferreira Sartori.

Marcos Fernando de Lima Docema – Magnetic resonance imaging-guided occult breast lesion localization and simultaneous sentinel lymph node mapping. Supervisor: Afonso Celso Pinto Nazário.


Claudinei Alves Rodrigues – Trimendisional ultrasonography of the pelvic floor after 3 years of correction of space urinary incontinence by retropubic, transobturator or single incision. Supervisor: Zsuzsanna Ilona Katalin de Jarmy.


Roberta Foster Leonidas de Paiva – Evaluation of the inflammatory profile, oxidative stress and mood and anxiety states in field soccer players with and without premenstrual syndrome. Supervisor: Zsuzsanna Ilona Katalin de Jarmy.


Gisele Negro de Lima – Expression of genes related to steroidogenesis in the ovary of rats submitted to melatonin supplementation. Supervisor: José Maria Soares Junior.
MSc Thesis (2015)


Daiene Carvalho Casagrande – Expression of the messenger RNA of human papillomavirus E6 and E7 oncoproteins in women with negative oncotic cytologies, squamous intraepithelial atypia of undetermined significance and low grade squamous intraepithelial neoplasia. Supervisor: Neila Maria Gois Speck.

Samantha Karlla Lopes de Almeida Rizzi – Incidence of the winged scapula and morbidity of the upper limbs of patients in the postoperative treatment of axillary breast cancer. Supervisor: Gil Faciina.

Andrea Yumi Watanabe – Knowledge of women assisted at a mastology outpatient clinic on self-examination, screening and risk factors for breast cancer. Supervisor: Afonso Celso Pinto Nazário.

Prizes

Professor José Aristodemo Pinotti, GBCS Goiania Breast Cancer Symposium (2016)
Professor Cláudio Kemp ao jovem pesquisador, GBCS Goiania Breast Cancer Symposium (2016)
Menção honrosa de temas de apresentação oral, GBCS Goiania Breast Cancer Symposium (2016)
Terceiro melhor poster comentado, GBCS Goiania Breast Cancer Symposium (2014)
Professor José Aristodemo Pinotti, GBCS Goiania Breast Cancer Symposium (2014)
Professor Carlos Inácio de Paula, GBCS Goiania Breast Cancer Symposium (2014)
Professor Cláudio Kemp ao jovem pesquisador, GBCS Goiania Breast Cancer Symposium (2014)
Menção honrosa do Prêmio Antonio Franco Montoro, Hospital Sírio-Libanês. (2013)
Prêmio 3º lugar no I Congresso Paulista de Fisioterapia em Oncologia, Associação Brasileira de Fisioterapia em Oncologia (2013)

Patents

International Aplication Status Report.
Received at International Bureau: 07 October 2015.
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(43) Publication date: 17 March 2016 (17.03.2016).

Financial support

Capes, Fapesp, CNPQ.

Facilities

Experimental and Molecular Gynecology Laboratory (molecular biology, cell culture and proteomics).
Laboratory of Cell Biology and Histomorphometry.
Laboratory of Gynecological Endocrinology (hormonal and biochemical dosages).
Electron Microscopy Center (transmission and scanning microscopy).
Cell Culture Laboratory.
Viral Vector Cloning Lab with the CTC Mol/Unifesp.
Cell Therapy Laboratory (with security level 2 culture room).
In addition, the institution has a Vivarium to house experimental animals, including genetically modified animals.

Other information

We are pleased to announce the development of a course focused on molecular and cellular biology in Gynecology. This course integrates basic and clinical research in the area, and will give participants the background they need to be able to pursue development of new therapies and treatments for gynecological diseases.
**Medicine (Hematology)**

**PhD and MSc Degrees**

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**Home page**
http://ppg.unifesp.br/hematologiaoncologia &
www.oncologia.sites.unifesp.br/site

**Home page Sucupira**
https://sucupira.capes.gov.br/sucupira/public/
consultas/coleta/programa/viewPrograma.
jsf?popup=true&id_programa=1423

**Coordinator**
Maria Stella Figueiredo

**Address**
Rua Dr. Diogo de Faria, 824 4º Andar – Prédio do
Hemocentro Vila Clementino – Cep 04037002 São
Paulo/SP – Brazil

**Contact**
ppg.hematologia@unifesp.br
(55 11) 5576-4848 extension 2652

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**Historical background**

The Postgraduate Program in Medicine (Hematology) was founded 38 years ago. The primary goal of the Program is to increase knowledge and understanding of Hematology and Oncology through the training of professionals to work as teachers and researchers at Unifesp and other Brazilian universities.

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**Research focus**

**Acquired and hereditary anemias** – Investigation of mechanisms leading to different forms of anemia with the goal of reducing their incidence and complications.

**Minerals and vitamins involved in erythropoiesis** – Study of the relationship between minerals/vitamins and erythropoiesis in anemia and other diseases such as hereditary hemochromatosis.

**Blood cell antigens and antibodies** – Determination of the phenotypic and genotypic prevalence of erythrocyte, granulocyte and platelet antigens; investigation of the role of blood cell antigens and antibodies in clinical syndromes and transfusion reactions.

**Chronic Lymphoproliferative Disease** – Characterization of clinical, immunophenotypic, cytogenetic, and molecular aspects of chronic lymphoproliferative diseases including CLL, Hodgkin's disease, non-Hodgkin lymphoma, lymphomas associated with HTLV, and multiple myeloma.

**Clinical, cellular, and molecular studies in oncological diseases** – Evaluation of clinical characteristics of oncological and hematological diseases and identification of cellular and/or molecular changes in these tumors.

**Etiological study of thrombotic diseases** – Investigation of causes involved in the development of thrombotic disorders through epidemiological studies.

**Acute Leukemias, myeloproliferative neoplasms and myelodysplastic syndromes** – Study of clinical manifestations, morphological changes, immunophenotyping analysis, cytogenetic characterization, and molecular abnormalities in these diseases.

**Cell therapy in oncologic and hematologic diseases** – Correlation of clinical outcomes of different types of hematopoietic stem cell transplantation and biological markers of prognosis, minimum residual disease, graft versus host disease, and immune reconstitution post-transplant.

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**Selected publications**


Books and chapters


Grants


Fapesp: Research Project Grant. Process: 13/13804-0 From December 01, 2013 to December

CNPq. Edital Universal 14/2013 Period: 36 Months, Coordinator: Maria Stella Figueiredo.
CNPq. Edital Universal 14/2013 Period: 36 Months, Coordinator: José Orlando Bordin A.


Emília Carolina Oliveira Brandão Malafaia. The Role of TWIST1 Gene Expression and Hypoxic Microenvironment in Acute Myeloid Leukemia. Supervisor: Daniella Marcia Bahia Kerbauy.

Aline dos Santos Borgo Perazzio. Relationship of regulatory T cells and expression of the IRF-1 gene with pathogenesis and autoimmune phenomena in myelodysplastic syndromes: Prospective and sequential evaluation. Supervisor: Maria de Lourdes Chauffaille.

**MSc Thesis (2015)**

Carlos Alberto Grillo. Monoclonal antibody G12f2 assessment in the murine melanoma B16f10 immunohistochemical reaction. Supervisor: José Daniel Lopes.


Maylla Rodrigues Lucena. Effect of genetic polymorphisms on folic acid metabolism and its relationship with folate, vitamin B12 and total homocysteine concentrations in subjects undergoing folic acid fortification and/or therapy. Supervisor: Elvira Maria Guerra Shinohara.

Luana Joyce da Silva. Functional study of DUSP1 gene in osteosarcoma cell lines. Supervisor: Silvia Regina Caminada de Toledo.

**International cooperations**

Vânia Maris Morelli: Leiden University Medical Center (LUMC), Netherlands (Suzanne C. Cannegieter, Willem M. Liijfering and Frits R. Rosendaal).
Gisele Colleoni: Brussels Branch, Ludwig Institute for Cancer research: Dr. Laurent Knoops and Dr. Jean-Christophe Renault; Center Hamburg-Eppendorf (Dr. Djordje Atanackovic); Vrije Universiteit Brussel em Bruxelas (Dr. Kris Thielemans and Dr. Rik Schots); Ken H. Young – MD Anderson Cancer center.

Maria De Lourdes Chauffaille: International Consortium of Acute Promyelocytic Leukemia, IC-APL, American Society of Hematology; Dr. Jeremy Squire, Toronto University.

Mihoko Yamamoto: Dr. Guillermo Dighiero – Instituto Pasteur, Montevideo, Uruguay; Prof Alberto Orfão – Servicio de Citometría y Centro de Investigación del Cancer, Universidade de Salamanca, Espanha.

Maria Stella Figueiredo: Prof. Martin H. Steinberg, Boston University; Dra. Vivien Sheehan, Baylor College of Medicine, Texas, USA.

José Orlando Bordin: Prof. Morris A. Blajchman, McMaster University, Hamilton (CA); Prof. Michael Busch, Irwin Memorial Blood Center, San Francisco (EUA).

José Salvador De Oliveira: Fred-Hutchinson Cancer Research Center em Seatle, EUA (H.J. Deeg, Rainer Storb and Mary D. Flowers).

Daniella Kerbauy: Prof. Dr. Joachim Deeg, Fred-Hutchinson Cancer Research Center, Seatle, EUA.

Otávio Baiocchi: Dr. Andrea Gallamini (Italy); Dr. Peter Borchman (German).

Celso Arrais: Eurocord (Dr. Eliane Gluckman); Lymphoma Working Party do European Blood and Marrow Transplantation Group (Dr. Peter Dreger, Dr. Anna Sureda); McMaster University Hamilton – Canadá (Dr. Mark Crowther); Servicio de Citometría y Centro de Investigación del Câncer, Universidade de Salamanca, Espanha (Dr. Alberto Orfão); Anna Schuh, Oxford University.

**Prizes**

Gisele Colleoni – 4th Latin America Novartis Oncology Scientific Award - Hematology Category, Novartis. 2011.

Gisele Colleoni – 3rd Latin America Novartis Oncology Award, Novartis. 2009.

**Patents**


**Financial support**

Fapesp, Capes, CNPq.

**Facilities**

Viral Oncology Laboratory.
Immunohematology Laboratory.
Molecular Biology Laboratory – Polymerase Chain Reaction (PCR) and real-time PCR.
Anemia Research – HPLC for identification of abnormal hemoglobins (D10 BioRad).
Leukocyte Research – Luminex machine (DEFFF)
Cell Biology Laboratory and Flow Cytometry – two flow cytometers.
Cytogenetics Laboratory – comparative genomic hybridization (CGH), fluorescence in situ hybridization (FISH) classical or multiple (M-FISH), and comparative genomic hybridization to arrays (CGHa).
Laboratory of Hemostasis and Thrombosis – coagulometric tests, chromogenic and enzyme immunoassays with a high degree of automation (Sysmex®), microplate reader with a wavelength range from 340nm to 850nm (VersaMax, Molecular Device), microplate washer (SkanWasher 400, molecular Device), and aggregometer (Chrono-log).
Medicine (Nephrology)
PhD and MSc Degrees

Home page
http://nefro.epm.br/pg1.htm

Home page Sucupira

Coordinator
Mirian Aparecida Boim

Address
Botucatu St, 591 – 15º – 153 Room
– Vila Clementino, Cep 04023-062
São Paulo/SP, Brazil

Contact
ppg.nefrologia@unifesp.br
(55 11) 5576-4848 extension 2478

Historical background

The Postgraduate Program in Nephrology was created and accredited by the MEC for Masters and PhD in 1973. It was the first regulated nephrology Program in Brazil. Since then much important research has come out of the Program, and it has become one of the most prestigious centers in the country for training researchers. In the first 20 years of its history, the Program awarded Masters and Doctors in medicine degrees not only to fellows from São Paulo but also those from medical schools and universities throughout the five regions of the country, contributing to implementation of medical research in those universities. From 1992, driven by the need to incorporate new technologies such as cell and molecular biology, the Program began to attract professionals trained in other related fields such as biomedicine, biology, nursing, pharmacy, biochemistry, physiotherapy, etc. Thus, physicians and non-physicians fellows were awarded Masters or Doctors in Clinical or Basic Nephrology respectively, according to their undergraduate course. However, since 2004 all graduates of the Program have received the title of Master or Doctor in Science. In 1978, the Program was evaluated for the first time by Capes, the agency responsible for managing and evaluating graduate Programs in Brazil, and received a score of 4. We improved our score to 6 after creating professional management mechanisms to monitor activities developed by researchers and fellow students. In the following two evaluation periods, given our recognized capacity in training human resources, high quality scientific production and extensive interactions with other researchers, proven by many scientific collaborations with research institutions around the world, exchange of students and participation of researchers as speakers in international events, we achieved a score of 7, the highest score awarded by Capes. We have maintained that score since then.

Our Program aims to train students, researchers and teachers at a level of excellence in the field of clinical and experimental nephrology. The Program also aims to develop clinical and experimental research that contributes to the advancement of science in order to better understand the pathophysiological mechanisms of kidney diseases and their consequences to the organism, as well as the development of therapeutic strategies, improving the quality of life of patients.

Research focus

Glomerulopathies
Tubulopathies
Chronic and acute kidney disease / uremia
Hypertension,
Renal lithiasis
Polycystic kidney disease
Renal transplantation
Selected publications


Books and chapters

Professor Nestor Schor is editor of an important collection of books, the Ambulatory Medical Guides, in partnership with Editora Manole, which already has more than 40 titles, some of them already in the 3rd edition.

Professor Gianna Mastroianni Kirsztajn is one of the editors of the Current Issues in Nephrology in their last four editions, the last in 2015.


Grants

Researchers are encouraged to seek funding for their projects from Brazilian institutions and from institutions abroad, providing optimal conditions for the full development of research projects. We currently have two thematic and many regular projects funded by the Fundação de Amparo a Pesquisa do Estado de São Paulo (Fapesp). Other federal funding agencies include Capes, CNPq and Finep. The total value of funded projects coordinated by principal investigators in the Nephrology program is approximately R$ 10,000,000.00. In addition to research funding, most of the students are supported by grants from the main institutions Fapesp, Capes and CNPq.


Joelma Santina Christo – Effect of mesenchymal stem cells and their conditioned medium in acute kidney injury induced by sepsis and the acyclovir. Supervisor: Nestor Schor.

Jose Tarcisio Giffoni de Carvalho Junior – Effect of vitamin D in the modulation of Toll-like receptors expression (TLR-7 and TLR-9) expression of IL-6 and IFN-γ; B and T lymphocytes in uremia. Supervisor: Maria Aparecida Dalboni.


Frederick Wasinski – Physical training during pregnancy and modulation of metabolic variables in offspring submitted to diet hyperlipidemic. Supervisor: Ronaldo de Araújo Carvalho.

Taina Veras de Sandes Freitas – Protocol biopsies evaluation of renal allograft in low immunological risk patients receiving immunosuppressive regimens based on tacrolimus with sirolimus conversion planned for three months after transplantation. Supervisor: José Osmar Medina de Abreu Pestana.


MSc Thesis (2015)


Michel Kendy de Souza – Effects of oral supplementation of L-arginine in rats with chronic renal failure submitted to strength training. Supervisor: Alvaro Pacheco e Silva Filho.

Pedro Guilherme Coelho Hannun – Efficacy and safety elective conversion sotrastaurina to tacrolimus or mycophenolate sodium in stable renal transplant recipients. Supervisor: José Osmar Medina de Abreu Pestana.

Amandda Rakel Peixoto dos Santos – Effectiveness of paricalcitol therapy in Chronic Experimental Renal Disease Model. Supervisor: Alvaro Pacheco e Silva Filho.


Marcello Finardi Peixoto – Influence of treatment with escitalopram, depression and sleep quality in hypertension mild to moderate. Supervisor: Agostinho Tavares.


Juan Sebastian Henao Agudelo – Immunoregulatory role of microvesicles derived from mesenchymal stem cells in the polarization of macrophages. Supervisor: Alvaro Pacheco e Silva Filho.


International cooperations

Broad Institute, Harvard Medical School, Boston, EUA. Prof. Winfred Williams.

Departament of Lipids, New England Medical Center – USA. Ernest Schaefer.

Departamento de Fisiologia da Pontificia Universidade Católica do Chile. Carlos Vio.

Hypertension and Artherosclerosis Department of Boston University. Prof. Haralambus Gavras.

Departments of Pediatrics and Medicine (Nephrology-Hypertension), University of California, San Diego, EUA. Prof. Sanjay Nigan.

Division of Immunology, Beth Israel Deaconess Medical Center, Harvard Medical Scholl. Prof. Terry Strom.

Division of Pediatric Nephrology, Louisiana State University Health Sciences Center. Profa. Flavia Fernandes Jung.

Institut National de la Sante et Recherche Medicine (Inserm), França. Pierre Corvol.

Laboratório de Biologia Celular – Tufts University – Boston, USA. Prof. Brian Pereira.

Hospital de Astúrias, Espanha. Francisco Ortega. Immunobiology Research Center, Department of Surgery, Beth Israel Deaconness Medical Center, Harvard Medical School, Boston, MA, USA. Prof. Fritz Bach.

Instituto Gulbenkian de Ciência, Portugal. Prof. Miguel Soares.

Laboratoire d’Immunologie, Faculté de Médecine de Tours. Profa. Florence Velge-Roussel.


Prizes

Nestor Schor

Great Names of Brazilian Medicine – 4th Forum of Health and Welfare. 2015

Poster Presentation – Award – Salvia miltiorrhiza bunge protects function in partial ureteral unilateral obstruction in rats – The American Academy of Medical Acupuncture. 2015

José Osmar Medina de Abreu Pestana


Financial support

Fapesp, Capes, CNPq, NIH, FOR.

Facilities

Please see a list of multi-user equipment at this site: http://nefro.epm.br/setores.htm

Other information

One of our current PhD students, Pablo Ferraz, has evaluated the profile and destination of fellows trained in the Nephrology Program over the last 40 years. Of the 639 students enrolled during that period, 394 obtained the Master degree and 245 achieved the PhD. Of those who obtained the Master degree, 64% were women; for the PhD degree, approximately 50% were women. Until 1991, only fellows graduated in medicine were accepted in the Program. However, after 1992 this profile has progressively changed and now medical fellows represent 32% of graduate students in the Nephrology Program, while 68% are from other areas. With regard to home institution, half of the students in our Program came from public institutions and half from private institutions.
Neurology/Neuroscience
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/neuro

Home page Sucupira

Coordinator
Celia Harumi Tengan

Address
Rua Pedro de Toledo, 669 – Edif. Pesquisa II – 2º andar – Vila Clementino – Cep 04039-002
São Paulo/SP – Brazil

Contact
ppg.neurologia@unifesp.br
(55 11) 5576-4848 extension 2838

Historical background

The Postgraduate Program in Neurology/Neuroscience was created in 1978. In the first years of the Program only neurologists were accepted as students. During the 80’s students with backgrounds in other health and biological sciences began to be accepted, and the Program became a pioneer in the multidisciplinary approach to postgraduate education. Since then the Program accepts students with a variety of backgrounds who are interested in developing research on neuroscience and with a focus on neurological disorders. Research projects are based on clinical, basic and translational studies with the aim to elucidate pathogenesis and develop new strategies for diagnosis and treatment of neurological diseases. The available infrastructure includes clinical sections for patient care and research laboratories providing the resources needed for translational studies using patients’ samples and experimental models. The research facilities allow studies using a wide range of methods in areas such as molecular biology, biochemistry, cell culture, electrophysiology and histopathology. The Program is designed to prepare qualified research professionals, allowing the simultaneous development of science and technology in Brazil and advances in research and treatment of patients.

Research focus

Our research groups are interested in studies focusing on investigation of several types of neurological disorders. The objectives of these studies are to expand knowledge regarding clinical manifestations, pathogenesis, genetic background and treatment. Clinical, basic and translational research is performed in the areas of:

- Child neurology
- Clinical neurophysiology
- Cognitive impairment in neurological disorders
- Epilepsy
- Headaches
- Movement disorders
- Neuro-oncology
- Neuromuscular diseases
- Neuroplasticity
- Neurovascular diseases

Selected publications


Araújo B, Torres L, Stein M et. al. Decreased expression of proteins involved in energy metabolism in the hippocampal granular layer of rats submit-


Lamis FC, de Paiva Neto MA, Cavalheiro S. Fusiform superior cerebellar artery aneurysm treated with STA-SCA bypass and trapping. Surg Neurol Int (Online) 2014, doi 10.4103/2152-7806.134806


Books and chapters

Central nervous system tumors. Suzana Maria Fleury Malheiros. 2015.
Crises epilépticas. Elza Marcia Targas Yacubian. 2014.
Doença de Alzheimer. Paulo Henrique Ferreira Bertolucci. 2015.
Mitochondrial dysfunction and free radicals in neuronal death. Celia Harumi Tengan. 2015.
N-3 fatty acids and sudden unexpected death


Physical exercise as a strategy to reduce seizure susceptibility. Ricardo Mario Arida. 2013.


Social isolation disrupts hippocampal neurogenesis in young non-human primates. Simone Cinini Maria. 2015.

Transtornos do movimento. Henrique Ballalai Ferraz. 2015.


Tratamento medicamentoso das epilepsias. Elza Marcia Targas Yacubian. 2014.

Grants

National Institute of Translational Neuroscience. Principal Investigator: Ésper Abrão Cavalheiro; period 03/01/2009 – 02/28/2015; Fapesp&CNPq (08/57904-0).

New approaches of studies on neural stem cells in central nervous system diseases. Principal investigator: Beatriz Monteiro Longo; period 10/01/2012-09/30/2014; Fapesp (12/11984-9).

Multimodal investigation of epileptogenesis with emphasis in the implementation of new animal models and new tools. Principal investigator: Iscia Teresinha Lopes Cendes (Unicamp); co-investigators: Fernando Cendes; Maria da Graca Naffah Mazzacoratti; Debora Amado Scerni. period 04/01/2012-03/31/2016; Fapesp&CNPq (11/50680-2).

Brain plasticity induced by physical exercise. Principal investigator: Ricardo Mario Arida; co-investigator: Fulvio Alexandre Scorza; period 10/01/2009-09/30/2013; Fapesp (09/06953-4).

Morphofunctional, biochemical and molecular analysis in experimental model of myopathy associated with statin. Principal investigator: Helga Cristina Almeida da Silva; period 04/01/2013-03/31/2015; Fapesp (12/21267-2).

Focal dystonia in musicians in Brazil. Principal investigator: Henrique Ballalai Ferraz; period 02/01/2013-01/31/2015; Fapesp (12/10544-5).

Cellular effects of deep brain stimulation in anterior thalamus nucleus in experimental models of temporal lobe epilepsy. Principal investigator: Luciene Covolan; period 10/01/2012-09/30/2012; Fapesp (12/50950-2).

Mapping patterns of c-Fos expression in the central nervous system of the marmoset (Callithrix jacchus) after seizure. Principal investigator: Luiz Eugenio Araujo de Moraes Mello; period 09/01/2013-08/31/2015; Fapesp (13/12031-8).

EEG patterns in premature newborn children under caffeine use. Principal investigator: Marcelo Masruha Rodrigues; period 08/01/2012-07/31/2014; Fapesp (11/50140-8).


Temporal Lobe Epilepsy: a Study Correlating Brain Image, Morphological Features, Electrophysiological Findings, Hormonal and Neurochemical Aspects in Humans With and Without Mesial Temporal Sclerosis. Principal investigator: Luiz Eugenio Araujo de Moraes Mello; co-investigators: Maria da Graca Naffah Mazzacoratti; Debora Amado Scerni; Maria José da Silva Fernandes Linha de fomento; period 04/01/2007-05/31/2013; Fapesp, Cinapce Program).

Gene expression in peripheral blood cells from Friedrich ataxia patients. Principal investigator: Orlando Graziani Povoas Barsottini; period 12/01/2012-11/30/2014; Fapesp (12/17494-3).

Influence of aerobic exercise on the expression and distribution of microRNAs in the hippocampal formation of adult rats. Principal investigator: Ricardo Mario Arida; period 10/01/2013-09/30/2015; Fapesp (13/12692-4).


Renato Filev. Behavioral and molecular effects of phytocannabinoids on locomotor sensitization induced by ethanol in mice. Supervisor: Luiz Eugenio Araujo De Moraes Mello.


Reinaldo Teixeira Ribeiro. Register of cluster headache in Brazil. Supervisor: Mario Fernando Prieto Peres.


Michelle Gasparetti Leão Araujo. Pharmacological antagonist to study the role of the P2X7 receptor on changes caused by pilocarpine-induced seizures. Supervisor: Maria José da Silva Fernandes.

MSc Thesis (2015)


Claudia Beatriz De Campos Lotti. Late Onset Multiple Sclerosis: A Retrospective Cohort Study. Supervisor: Acary Souza Bulle Oliveira.


James Henrique Yared. Huntington’s Disease: Comparative volumetric study in patients, presymptomatic individuals and normal controls using automated segmentation of magnetic resonance images. Supervisor: Henrique Ballalai Ferraz.
Vassiliki de Brito Patsis. Evaluation of N-Acetylcycteine treatment in behavioral and histological events caused by pilocarpine. Supervisor: Maria José da Silva Fernandes.

Rafael Karan Vianna de Sá. Update of contextual appetitive memory induced by cocaine involves consolidation and not reconsolidation mechanisms. Supervisor: Jair Guilherme dos Santos Junior.


Carlos Zarate – National Institutes of Health, Bethesda, MD, USA.
Clement Hamlin – Toronto Western Hospital, Toronto, Canada.
Philippe Ryvlin – Claude Bernard Lyon-1 University, Lyon, France.
Ingmar Blumcke – University Hospital Erlangen, Schwabachanlage, Erlangen, Germany.
João Malva – University of Coimbra Coimbra, Portugal.
Fernando Gomez-Pinilla – UCLA, USA.
Anthony Lang – University of Toronto, Canada.
Helen Scharfman – New York University Langone Medical Center, USA.

Prizes

Paulo Niemeyer Award, Liga Brasileira de Epilepsia. 2014. Elza Marcia Targas Yacubian.
Péter Murányi Award. 2014. Ricardo Mario Arida.
Best researcher on sudden unexpected death in epilepsy of Latin America, Sociedad de Psiquiatria Y Neurologia de La Infancia Y Adolescencia do Chile. 2013. Fulvio Alexandre Scorza.
Science and Innovation Santander Award. 2013. Luciene Covolan.
Best Paper Award in in the area of Nervous System Tumors. XVIII Congresso SBOC, Sociedade Brasileira de Oncologia Clinica. 2013. Suzana Maria Fleury Malheiros.
First Prize of the Research Paper of the American Academy of Medical Acupuncture, American Acad-
emy of Medical Acupuncture. 2006. Luis Eugenio Araujo de Moraes Mello.

**Patents**


**Financial support**

CNPq, Capes, Fapesp, Finep, MCT.

**Facilities**

Our facilities include the medical school hospital, outpatient clinics and research laboratories. Our supervisors are members of specialized clinical teams that provide consultation and treatment in various sub-specialties of neurology and neurosurgery. We highlight the unit for research and treatment of epilepsies, focusing on the integrated study of patients with intractable epilepsy. Research laboratories provide the required infrastructure for studies using a variety of methods including electrophysiology, neuropathology, cell culture, molecular biology, biochemistry, and experimental animal models.

**Other information**

The Postgraduate Program in Neurology/Neuroscience has produced more than 500 Master and PhD theses. Currently the Program has approximately 130 Master and PhD students and 33 supervisors.
Home page
http://ppg.unifesp.br/otorrinolarioingologia

Home page Sucupira

Coordinator
Norma de Oliveira Penido

Address
Rua dos Otonis, 700 – Vila Clementino – Cep 04025-002 São Paulo/SP – Brazil

Contact
ppg.otorrino@unifesp.br
(55 11) 55764848 extension 2771

Historical background
Since its beginning in 1979, the Postgraduate Program in Otorhinolaryngology has sought to educate teachers and researchers, with the primary purpose of disseminating scientific knowledge and generating new knowledge in the field of otorhinolaryngology. Our two areas of focus, which correspond to the two areas of concentration in the Program, are the skull base and head and neck surgery. Our effort toward educating professors and researchers has resulted in 278 master degrees, 160 doctor degrees and 8 post-docs, many of whom currently work in various federal, state and private universities across the country.

As a multidisciplinary and multi-professional initiative, our Program integrates with other areas of health sciences. Our goal is to present to the institution and the national academic community a set of researchers with skills and experience in experimental and clinical research.

Research focus
Pathophysiological mechanisms, evaluation and treatment of disorders of the upper aerodigestive tract.
Bio-histocompatible implantable materials.
Morphological, physiological and pathological mechanisms of sensory and neural disorders of hearing and body balance.
New tools in teaching and training in otorhinolaryngology and head and neck surgery/Behavior of neoplasms of the upper aerodigestive tract.
Morphology, physiology and pathology of the thyroid and parathyroid glands.

Selected publications
3 – Vidigal T; Haddad FL; Gregorio LC; Poyares D; Tufik S; Bittencourt LR. Subjective, anatomical, and functional nasal evaluation of patients with obstructive sleep apnea syndrome. Sleep & Breathing, v. 17, p. 427-433, 2013.
4 – Pezato R; Almeida DC; Bezerra TF; Silva FS; Perez-Novo C; Gregório LC; Voegels RL; Câmara NO; Bachert C. Immunoregulatory effects of bone marrow-derived mesenchymal stem cells in the nasal polyp microenvironment. Mediators of Inflammation (Print), v. 2014, p. 1-11, 2014.
6 – Barros BBC; Andrade JSC; Garcia LB; Piaia, GR; 3. Cruz OLM; 3. Onishi ET; Penido NO. Microendoscopic ear anatomy of guinea pig applied to experimental surgery. Acta Cirúrgica Brasileira (Online), v. 29, p. 07-11, 2014.

7 – Pezato R; Pérez-Novó CA; Hotappels G; De Ruyck N; Van Crombruggen K; De Vos G; Bachert C; DeryCke L. The expression of dendritic cell subsets in severe chronic rhinosinusitis with nasal polyps is altered. Immunobiology. Sep;219(9):729-36, 2014.


9 – Neiva FC; Borin A; Lee KS; Dias MVS; Rodrigo BR; Covolan L. Expression of aquaporin 2 following facial nerve crush in rats. Acta Oto-Laryngologica, v. 3, p. 1-5, 2015.


11 – De Godoy LBM; Palombini LO; Martinho HFI; Rapoport DM; De Aguiar VT; Klichouvicz PC; Tufik S; Togheiro SM. New Insights on the Pathophysiology of Inspiratory Flow Limitation During Sleep. Lung, v. 193, p. 387-392, 2015.

12 – Marencos HA; Zymberg ST; Santos RP; Ramalho CO. Surgical treatment of non-functioning pituitary macroadenomas by the endoscopic endonasal approach in the elderly. Arquivos de Neuro-Psiquiatria (Online), v. 73, p. 764-769, 2015.


Books and chapters

Book:


Chapters:


Grants

Fapesp
- Regular project – 2012/51698-5 – Responsible: Prof. Dr. Mauro Vaisberg.

Capes

Brazilian Health Ministry Grant
Responsible: Prof. Dr. Márcio Abrahão.

Financial support from private companies
Neurograff Eletromedicina Ltda. Responsible: Prof. Dr. Fernando Freitas Gananca.
Associação Brasileira de Otorrinolaringologia e Cirurgia Cérvico-Facial. Responsible: Prof. Dr. Fernando Freitas Gananca.
Audibel: Responsible: Prof. Dr. José Ricardo Gurgel Testa.
Banco Itaú Holding Financeira SA: Responsible: Prof. Dr. Luis Carlos Gregório.

1 - Title: Effect of human papillomavirus (types 6, 11, 16 and 18) vaccine in the treatment of children with recurrent respiratory papillomatosis.
Student: Juliana Sato Hermann.
Supervisor: Shirley Shizue Nagata Pignatari.

2 - Title: Facial nerve identification with fluorescence: an experimental study in rats.
Student: Giuliano Molina de Melo
Supervisor: Onivaldo Cervantes.

3 - Title: Association Between Tinnitus and Arterial Hypertension.
Student: Ricardo Rodrigues Figueiredo.
Supervisor: Norma de Oliveira Penido.

4 - Title: Prevalence of minor structural alterations of the larynx: influence on the concept of normal vocal fold.
Student: Bruno Teixeira de Moraes.
Supervisor: Noemi Grigoletto de Biase.

5 - Title: Ménière’s disease: molecular study of AQP2, AQP3, KCNE1, GJB2 and GJB6 genes
Student: Karen de Carvalho Lopes.
Supervisor: Fernando Freitas Gananca.

MSc Thesis (2015)
1 - Title: Balance and vestibular assessment in the obstructive sleep apnea.
Student: Juliana Antoniolli Duarte.
Supervisor: Fernando Freitas Gananca.

2 - Title: Ethmoidal crest resection at sphenopalatine artery surgery.
Student: Paulo Saraceni Neto.
Supervisor: Eduardo Macoto Kosugi.

3 - Title: Video-head impulse test in vestibular migraine patients.
Student: Marcio Cavalcante Salmito.
Supervisor: Fernando Freitas Gananca.

4 - Title: Hearing sequelae from acute otitis media.
Student: Francisco Polanski Cordeiro.
Supervisor: Norma de Oliveira Penido.

5 - Title: Laryngeal disorders in children with congenital heart diseases
Student: Ana Amelia Soares Torres.
Supervisor: Shirley Shizue Nagata Pignatari.

6 - Title: Volumetric Evaluation of the Maxillary Sinus in Patients Treated With Orthopedic Maxillary Expansion.
Student: Fabio Eduardo Maiello Monteiro Alves.
Supervisor: Reginaldo Raimundo Fujita.

7 - Title: Reproducibility of Systematic Evaluation of Upper Airway and Craniofacial Skeleton in Patients with Obstructive Sleep Respiratory Disturbance
Student: Danilo Anunciatto Sguillar.
Supervisor: Fernanda Louise Martinho Haddad.
8 - Title: Serum levels of inflammatory markers in children undergoing adenotonsillectomy
Student: Viviane Maria Guerreiro Da Fonseca.
Supervisor: Reginaldo Raimundo Fujita.

9 - Title: Inflammatory markers in palatine tonsils of children with obstructive sleep apnea syndrome
Student: Vitor Guo Chen.
Supervisor: Reginaldo Raimundo Fujita.

International cooperations

1 - David Geffen School of Medicine (University of California, Los Angeles) Prof: Marcos Bandeira Paiva.
2 - Ghent University (Belgium) Prof: Luiz Carlos Gregório and Prof.a Claudina Pérez-Novo and Prof. Claus Bachert and Rogério Pezato.
3 - Iowa University (USA) Profa: Norma de Oliveira Penido and Ricardo Figueireiro.
4 - Regensburg University (Germany) Profa: Norma de Oliveira Penido and Ricardo Figueireiro.
5 - Mount Sinai School of Medicine Profa: Norma de Oliveira Penido and Profª. Drª. Sujana S. Chandrasekhar,
6 - Harvard Medical School Prof: Eduardo Macoto Kusugi and Luciano Lobato Gregório.
7 - Medizinische Hochschule Hannover (Germany) Prof: Oswaldo Laércio Mendonça Cruz and José Santos Cruz de Andrade

Patents


Financial support

Fapesp, Capes, CNPq.

Facilities

Please see http://www2.unifesp.br/dotorrino/ppgmedotor

Other information

The Postgraduate Program in Medicine Otorhinolaryngology has produced 438 Master and PhD theses since its foundation 35 years ago. Currently the Program has 46 Master and PhD students, undergraduates, visiting professors and 11 Post-Doctoral fellows.

Prizes

Historical background

The Postgraduate Program in Pediatrics and Sciences Applied to Pediatrics was founded 35 years ago with the objective of training students to a) design and implement scientific projects for the advancement of knowledge of human health and its interfaces, with emphasis on children and adolescents, b) disseminate that knowledge through oral and written media, c) transmit that knowledge to other groups of students and professionals seeking scientific collaboration, d) promote international dialogue in science and create international networks of collaboration and e) seek research funding for new and ongoing scientific investigation in pediatrics and applied sciences.

Research focus

Education in Pediatrics
Investigation of the ways in which Pediatrics and Neonatology are taught and learned, with emphasis on the learning processes of health professionals

Infection and immunization
Evaluation of the immune system in different groups of individuals; studies of infection in patients with hematological disorders; studies of HIV infection and psychological aspects of HIV infection in children and adolescents; studies of immune responses to vaccines in infants, children and adolescents.

Morbidity of children and adolescents and hospital care
Clinical studies of critically ill patients, especially those with oncologic diseases, renal diseases and those submitted to renal transplants.

Neonatal morbidity and neonatal care
Clinical studies of neonatology focusing on morbidity and mortality of critically ill newborn infants, neonatal care from delivery room to hospital discharge, neurobehavior of neonates, growth and development of the very low birthweight preterm infant up to adulthood.

Normal and pathological growth and development
Studies on body composition and nutritional aspects of children and adolescents, with emphasis on school children; studies on nutrition of children and adolescents and metabolic risk in adulthood; studies on growth and endocrine problems of patients treated for cancer in childhood.

Physiology and disorders of the gastrointestinal tract
Studies on infectious agents that affect the gastrointestinal tract; studies on absorptive and motility disorders; clinical studies on inflammatory bowel disease and celiac disease; studies on gastro-esophageal reflux.
Physiology and epidemiology of nutritional, hormonal and metabolism disorders

Studies on biochemical aspects of metabolism, bioenergetics and regulation of energy expenditure of children and adolescents; studies on epidemiology of nutritional problems of children and adolescents; studies of nutritional status for micronutrients and macronutrients.

Physiology and epidemiology of respiratory, allergic, immunological and inflammatory disorders

Clinical studies on characterization of immunodeficiencies, allergic and autoimmune diseases in children and adolescents; evaluation of pulmonary development of infants, children and adolescents with or without lung diseases; studies of rheumatologic, auto-immune and auto-inflammatory diseases in children and adolescents.

Selected publications


Silveira JA, Colugnati FA, Poblacion AP, et al. The


Books and chapters


Suely B. Diógenes. 2015.


Como gerenciar um programa de asma na escola. Marylin Urrutia-Pereira. 2015.


Rinite alérgica – visão do alergista – Gustavo F. Wandalsen. 2015.

Grants

Department of Nutritional Sciences State University of New Jersey, Profa Dra Ana Lydia Sawaya.
Pediatric Rheumatology International Organization (Itália). Prof Dr Cláudio Arnaudo Len.

Children’s Hospital of Los Angeles. Prof Dr Cláudio Arnaudo Len.

Pediatric Pneumology Division of Hospital El Pino, Santiago, Chile. Profs Drs Dirceu Solé e Gustavo F. Wandalsen.

University of Murcia, Spain. Profs Drs Dirceu Solé e Gustavo F. Wandalsen.

University of Surrey. Prof Dr. Mauro Fisberg.

University of Zaragoza, Spain. Prof Dr Mauro Fisberg.

International Danone Institute. Prof Dr Mauro Fisberg.

University of Munich, Germany. Prof Dr Mauro Fisberg.

Emory University and Department of Clinical Laboratory and Nutrition Sciences. Prof Dr. Mauro Fisberg.

Claude Bernard Lyon University. Prof Dr Paulo César Koch Nogueira.

University of California. Profas Dras Regina Célia de Menezes Succi and Daisy Maria Machado.

National Institute of Health (NIH). Profas Dras Regina Célia de Menezes Succi and Daisy Maria Machado.

University of Montreal. Profas Dras Regina Célia de Menezes Succi and Daisy Maria Machado.

Lausanne Health Institute. Profas Dras Regina Célia de Menezes Succi and Daisy Maria Machado.

Valderrbilt University. Profas Dras Regina Célia de Menezes Succi and Daisy Maria Machado.

Neonatal Task Force – International Liaison Committee on Resuscitation. Profas Dras Ruth Guinsburg and Maria Fernanda Branco de Almeida.
Duke University. Profas Dras Ruth Guinsburg and Maria Fernanda Branco de Almeida.


Jeffrey Model Foundation. Profa Dra Beatriz Tavares Costa-Carvalho.

Latin American Registry on Primary Immuno- deficiencies. Profa Dra Beatriz Tavares Costa-Carvalho.


Cristiane Ribeiro Ambrósio. Opinions and profiles of Brazilian pediatricians, instructors of neonatal resuscitation, regarding the practices of resuscitation in the delivery room in extreme premature infants. Supervisor: Ruth Guinsburg.


Ho Chi Hsien. Angiotensin converting enzyme in sickle cell disease. João Tomás de Abreu Carvalhaes.


Juliana Bergamo Veja. Consumption of soft drinks and artificial juices by Brazilian preschoolers in 2006. Supervisor: José Augusto de Aguiar Carrazedo Taddei.


Ludimilla Scodeler de Camargo. Analysis of the evolution of the nutritional status of infants with allergic proctocolitis. Supervisor: José Augusto de Aguiar Carrazedo Taddei.

Marynea do Valle Nunes. Impact of a package of measures on the prevention of hypothermia of the preterm newborn from birth to admission to the neonatal unit. Supervisor: Maria Fernanda Branco de Almeida.

Renata Cavalcante Kuhn dos Santos. Nutritional status of children from 5 to 10 years of age with low birth weight in the city of Embu das Artes (SP). Supervisor: Maria Wany Louzada.

Talita Lemos Paulino. Evaluation of carotid inti-

**Prizes**

**National**

57th Jabuti Award – Câmara Brasileira do Livro. Ana Lydia Sawaya.

Honorable Mention – Federação de Sociedades de Biologia Experimental. Ana Lydia Sawaya.

Oliveira Lima Award – Brazilian Congress of Allergy and Immunopathology. Title: Reações adversas à imunoglobulina humana endovenosa no tratamento de pacientes com imunodeficiência primária. Student: Danielle Bichuette. Supervisor: Beatriz Costa Tavares.

3rd place poster presentation, 5th Symposium of Neonatal Resuscitation – Ensino da reanimação neonatal para parteiras tradicionais, Sociedade Brasileira de Pediatria. Maria Fernanda Branco de Almeida e Ruth Guinsburg.

Nicola Albano Award in 22nd Brazilian Congress of Perinatology and 9th International Symposium of Fetal Medicine. Title: Asfixia ao nascer e mortalidade neonatal precoce no Brasil e em recém-nascidos de muito baixo peso: série temporal, Sociedade Brasileira de Pediatria. Maria Fernanda Branco de Almeida e Ruth Guinsburg.

Eliete Solomon Tudisco Award – Academic Area, Conselho Regional de Nutricionistas, 3ª região. Olga Maria Silverio Amancio

**International**

First Place Poster Presentation – XVII Latin American Congresso of Allergy, Asma and Immunology. Title: Los medios sociales em El monitoreo de niños atendidos em un servicio especializado: La expectativa de lós padres y cuidadores. Dirceu Solé.

**Financial support**

Fapesp, Capes, CNPq.

**Facilities**

Please see http://www.pediatria.unifesp.br/posgraduacao/

**Other information**

The Postgraduate Program in Pediatrics and Sciences Applied to Pediatrics has produced more than 660 Master theses and more than 270 PhD theses. Currently the Program has approximately 124 Master and PhD students, 10 undergraduates, 02 visiting professors and 03 Post-Doctoral fellows.
Home page
http://ppg.unifesp.br/pneumologia

Home page Sucupira

Coordinator
Luiz Eduardo Nery

Address
Rua Botucatu, 740 – 3º andar – Disciplina de Pneumologia – Vila Clementino – Cep 04023-062 São Paulo/SP – Brazil

Contact
ppg.pneumologia@unifesp.br
(55 11) 5576-4238 / 5576-4848 extension 3030

Historical background

The Postgraduate Program in Pulmonology at Federal University of São Paulo – Escola Paulista de Medicina (EPM) was accredited in 1975 as the first program in Brazil to offer a PhD in the respiratory area. In the first 15 years of its existence, the Program fulfilled its role to set Respiratory Physiology and Medicine as a structured research field within Brazilian universities. It pioneered the establishment of a Large Animal Experimental Laboratory, in which models of Acute Respiratory Failure were studied. The Pulmonary Function and the Clinical Exercise Physiology Laboratories were the first in Brazil to do more complex functional assessments. During that period, many professors teaching courses in the Program left to pursue post-doctoral training abroad, then returned to join the faculty of the Program permanently. In 1991 the Program was opened to other health professionals in addition to medical health professionals. That approach, now fully implemented, was innovative at that time, and allowed the formation of multi-professional research teams, including members from the related fields of Physical Therapy, Nutrition, Nursing, Psychology, Biology, Dentistry, Engineering, and Biomedicine. The main lines of research were established in the 1980’s. From its creation through 2015, the Program has trained more than 300 graduate students (166 MSc and 139 PhD). In 2015, four MSc, three PhD and one post-doctoral fellow received their degrees. The Program now has 13 faculty members (5 of them admitted in the last 2 years). Most of the professors and researchers in the respiratory area currently active in universities and research centers in our country received training through our Program.

The fundamental objectives of the Program are: (i) training of professionals qualified for teaching and research in science, focusing not only on the respiratory tract, but with strong interdisciplinary participation; (ii) establishment of innovative lines of research, with special reference to pathophysiological and epidemiological aspects of lung diseases and related topics, and (iii) creation and dissemination of original scientific knowledge, within a perspective of cooperation and integration with national and international research centers.

Research focus

1. Clinical, epidemiological, pathophysiological and molecular bases of obstructive diseases and respiratory infection
2. Pathophysiological characterization, diagnostic and epidemiological markers of interstitial lung diseases
3. Pathophysiological characterization, diagnostic and epidemiological markers of diseases of pulmonary circulation
4. Physiology and pathophysiology of cardiopulmonary and metabolic diseases during exercise
5. Epidemiology and prognostic factors of lung cancer
Selected publications


Books and chapters


Doenças do Trato Respiratório – Section Coordinator : Nery LE.

From 2013 a 2015 around 60 book chapters were published in our Program.

See Capes Report and Curriculum Lates of Professors from Respiratory Division.

Medicina Respiratória. 1. ed. São Paulo: Atheneu, 2014. v. 2. 1638p Pereira, CA e Holanda MA.

Grants

Fapesp and CNPQ:

Profa. Ana Luisa Godoy Fernandes, Prof. Bruno Miranda Silva, Prof. José Alberto Neder, Prof. José Roberto Jardim, Profa. Lia Rita Bittencourt and Prof. Luiz Eduardo Nery.
Pharmaceutical Laboratories (for clinical research in asthma, COPD, oncology and pulmonary hypertension):

AL Fernandes, I Santoro, JR Jardim, JSO Arakaki, O Nascimento.

Capes (supporting post-doctoral fellows):
Profas. M.R. Gazzotti and E.M. Ferreira


Flávio Ferlin Arbex – Impact of heart failure with reduced left ventricular ejection fraction on exercise responses in patients with COPD. – Supervisor: José Alberto Neder.

Mayron Faria de Oliveira – Muscle blood flow and oxygenation during exercise in COPD – Heart failure overlap. Supervisor: José Alberto Neder.

Maria Clara Noman de Alencar – Role of resting echocardiogram and cardiopulmonary exercise testing in prognostic evaluation of COPD-HF overlap. Supervisor: José Alberto Neder.

MSc Thesis (2015)

Melline Della Torre de Almeida – Analysis of energy expenditure in the activities of daily living (ADLS) in patients with idiopathic pulmonary arterial hypertension (IPAH). Supervisor: Jaquelina Sonoe Ota Arakaki.


Beatriz Cyrillo Amorim – A 4-min self-paced step test to assess exercise impairment in copd patients. Supervisor: José Alberto Neder.


International cooperations

Members of the Program have performed, and continue to perform, research studies in collaboration with several Brazilian and International scientists. Below is a list some of our recent international collaborators:

Profs. Dennis O’Donnell – University of Kingston, Canada.
Profs. Jose Alberto Neder – University of Kingston, Canada
Profs. Nestor Muller – Prof. Emeritus, Univ. Of British Columbia, Canada
Profs. Ioannis Vogiatzis, National and Kapodistrian Univ. Of Athens, Greece
Profs. Dr Marc Miravitlles – Hospital Clinic, Barcelona, Spain
Profs. Sue Ward – Prof. Emeritus, Univ. of Leeds, UK
Profs. Bart Celli – Harvard University, USA
Profs. Doug Mc Evoy – University of Flinders, Australia
Profs. Douglas Bradley – University of Toronto, Canada
Profs. Allan Pack – University of Pennsylvania, USA

Prizes

Faculty members in the Program have received many awards, including awards for their research studies, as presented at meetings and as published papers, laboratory certification, honorary awards from graduating EPM classes and from the Brazilian Book Chamber, and honorary research fellowships.

Financial support

CNPq, Fapesp, Capes, and Pharmaceutical Companies.

Facilities

Please see http://www2.unifesp.br/dmed/pneumologia/posgraduacao.htm.

Other information

Development of research equipment
(i) Metabolic System with Expired Gas Mixing Chamber utilized in the first studies of the Clinical Exercise Laboratory of the Respiratory Division, (ii) Pneumatic Shutter to measure neuro respiratory muscle control during exercise (Occlusion Pressure)
Community outreach

In addition to participating in teaching, academic research and patient care, professors in the Program are involved in several community outreach activities, including (i) participation in professional associations such as the Paulista and Brazilian Societies of Pneumology, (ii) presentation of structured programs addressing topics in Respiratory Medicine, including Education in Asthma, Smoking Cessation, and Pulmonary Function Tests, (iii) formation of guidelines and consensus for scientific societies and government agencies, (iv) “Ad hoc” consulting for various government agencies (CNPq, Capes, Fapesp), (v) consulting with the Secretary of Health of São Paulo to establish technical standards for home oxygen use, respiratory physiotherapy, inhalation therapy and pulmonary function tests, (vi) consulting with the Public Ministry of the State of São Paulo to establish diagnostic criteria for Pneumoconiosis and (vii) recruitment of graduate students from other Brazilian Universities, through agreements with Unifesp.
Home page
http://ppg.unifesp.br/urologia

Home page Sucupira

Coordinator
Agnaldo Pereira Cedenho

Address
Rua Napoleão de Barros, 715 – 2º andar
– Vila Clementino – Cep 04024-002
São Paulo/SP – Brazil

Contact
teixeira.camila@yahoo.com.br
(55 11) 5576-4848 extension 4086

Historical background

The Postgraduate Program in Urology was founded in 1978. In 1999 the Program was opened to professionals from other health science backgrounds in addition to medical doctors. The main objective of the Program is to provide an environment where translational research can be done. To meet this goal we recruit students from a variety of disciplines and with a variety of experience, including basic science, clinical science and surgical intervention. We are committed to the training of science-oriented researchers, with emphasis on scientific method, resource management in research, and meaningful cross-talk between clinical and basic scientists. This approach has boosted our national and international partnerships over the past decade, and strongly increased our capacity to graduate researchers able to think critically about scientific issues in the field of Urology.

Research focus

Morphofunctional and Biotechnological Urogenital Development: stem cell generation and scaffold development for the development of novel therapeutic options in male and female voiding dysfunction.

Oncogenesis and Tumor Markers: molecular and cell biology of urological tumors, and impact of cancer treatment on these mechanisms.

Human Reproduction and Andrology: molecular and cellular mechanisms of male and female infertility, as well as on embryo development.

Selected publications


Grants

Identificação de potenciais biomarcadores de disfunção testicular em adolescentes com varicocele. Agnaldo P. Cedenho. 2014
Efeito da Fragmentação de DNA espermático no perfil lipídico de blastocisto de murinos. Agnaldo P. Cedenho. 2014
Pesquisa de biomarcadores proteicos para o sucesso da fertilização in vitro através da análise proteômica do meio de cultura. Deborah M. Spaine. 2014
Desenvolvimento de uma matriz acelular derivada de bexiga urinária de ratos. Fernando G. de Almeida. 2013.


Marcelo Rodrigues Cabrini. Fibrotic protein expression profiles in penile tissue of patients with erectile dysfunction. Supervisor: Cassio Andreoni.
Valeria Barradas. Seminal oxidative stress in adolescents with varicocele. Deborah M. Spaine.

MSc Thesis (2015)


International cooperations

University of Miami – Miller School of Medicine (The Miami project to cure paralysis) – Dr. Nancy Brackett, Dr. Charles Lynne, Dr. Ibrahim Emad.
Technical University of Munich (TUM) – Chair of Proteomics and Bioanalytics. Dr. Bernhard Kuster
Leipzig University – Institute of Medical Physics and Biophysics. Dr. Ricardo P. Bertolla. Dr. Jürgen Schiller.
Department of Chemistry, Purdue University. Dr. R. Graham Cooks.
Cleveland Clinic – Andrology Center. Dr. Ashok Agarwal.

Prizes

2016 NIH Travel Award: Smoking alters sperm function and the proteome profile in men with varicocele. In: American Society of Andrology (ASA)


2013 In-Trainning Travel Award: Seminal plasma lipid fingerprinting and its association to semen oxidative stress and sperm nuclear DNA fragmentation. In: 69th Annual Meeting of the American Society for Reproductive Medicine (ASRM), 2013, Boston. Fertility and Sterility (2013); 100:s123.


Financial support

Fapesp, Capes, CNPq, Fleury Group.

Patents


Ophthalmology and Visual Sciences
PhD and MSc Degrees

Home page
http://www.ofthalmounifesp.com.br/

Home page Sucupira

Coordinator
Denise de Freitas

Address
Rua Botucatu, 821 – 2º andar –
Vila Clementino – Cep 04023062
São Paulo/SP – Brazil

Contact
ppg.ofthalmologia@unifesp.br
(55 11) 5576-4848 extension 2259 –
extension 5529

Historical background

The Postgraduate Program in Ophthalmology was established in 1979, with the goal of training professors and researchers in vision and ophthalmology processes as a whole. The Program has awarded over 174 masters and 508 doctoral degrees.

The Program has one of the best reputations among graduate programs in Ophthalmology and Visual Sciences in Brazil and, with the recent achievement of the highest rating by Capes it maintains an exclusive leadership position in Brazil, with performance comparable to the most important international education and research centers.

The Program offers two courses: Ophthalmology, geared toward physicians who are experts in the area of ophthalmology and Visual Sciences, geared toward superior degree professionals, e.g., ophthalmology technologists, psychologists, biologists, nurses, and others involved and interested in the area.

Both courses are offered in the academic master’s degree, doctor’s degree and post-doctoral degree modalities. The first two modalities include two categories: post-graduates in probation, who are developing fundamental skills and knowledge but are not officially enrolled with Unifesp, and post-graduates officially enrolled with Unifesp.

Currently, the Program boasts 25 professors accredited by Unifesp and available to advise students.

Research focus

Research Focus in Visual Science
Evaluation of visual function by psychophysical and electrophysiological methods.
Virtual medicine applied to learning and improving the diagnosis and management of eye disease.
Biopsychosocial protocols in ophthalmology.

Research Focus in Diagnostic Methods
Use of bioengineering to develop new technologies in ophthalmology.
Functional and anatomical diagnosis of retinal ganglion cells.

Research Focus in Intervention Protocols
Assessment of the intraocular inflammation mediated response.
Bioengineering of the ocular surface.
Use of pharmacology and photodynamics to inhibit retinal and sub-retinal neovascular proliferation.
Anatomic and optics quality indicators of the eye’s anterior segment and its annexes.
Morphofunctional responses of the host to drug interactions.
Research Focus in Physiopathogenesis

Molecular biology applied to pathophysiology of eye expansive processes.

Molecular biology applied to identification of pathogens of the anterior segment of the eye.

Biochemistry applied to ophthalmology and visual sciences.

Study of prevalence and frequency of visual disturbances and prevention and management promotion measures.

Translational research in visual sciences and clinical and surgical Ophthalmology.

Selected publications


Books and chapters


Grants

Structural modification, physicochemical characterization and biological tests of Biomaterials and Tissue for Ophthalmic Use, Paulo Schor – Fapesp – 2012/07343-8

Applicability dye composed of anthocyanins and proanthocyanidins fruit Acai (Euterpe orelacea) in chromovitrectomy in humans, Eduardo Buchele Rodrigues – Fapesp – 2014/07686-8

Toxins such as Acanthamoeba spp virulence factors in ocular surface infections, Fábio Ramos de Souza Carvalho – Fapesp – 2011/51626-1

Ocular study of the Brazilian Amazon Region (The Brazilian Amazon Region Eye Survey – Bares): Prevalence and Causes Vision Of Disability To Near And Far And Blindness,Solange Rios Salomão – CNPq – 402120/2012-4

Anthocyanins and proanthocyanidins application of the fruit of the acai (Euterpe orelacea) in ophthalmologic surgery, Mauricio Maia – CNPq – 402718/2013-5

Cell Therapy derived from embryonic stem cells into retinal degenerative diseases – CIRM, Rubens Belfort Jr. – CNPq – 400036/2013-4

Interferon-gamma release assay (IGRA) GenExpert platform and polymerase chain reaction in real time (RT-PCR), implications for diagnosis and managing ocular inflammation related tuberculosis, Cristina Muccioli – CNPq – 401096/2014-9

Reconstruction of Ocular Surface: Basic Aspects, Clinical and Surgical, Rubens Belfort Jr. – Thematic Project Fapesp – 01/07036-3


Renata Portella Nunes, Cost-effectiveness of the pharmacological treatments for age-related macular degeneration. Supervisor: Michel Eid Farah.


Olival Cardoso do Lago, The influence of motor experience in the visual pattern in athletes of Soccer,
Tennis and Handball. Supervisor: Paulo Schor.


Vagner Rogério dos Santos, Prototype development and validation of portable reading system (PRS) for low vision. Supervisor: Adriana Berezovsky.

Hermelino Lopes de Oliveira Neto, Multicenter randomized clinical trial to assess the effectiveness of intra-vitreous injections of bevacizumab, triamcinolone or their combination in the treatment of diabetic macular edema. Supervisor: Rubens Belfort Jr.

Rafael Lacerda Furlanetto, Structure-function correlation in glaucoma of high-resolution ultrasound and magnetic resonance imaging with optical coherence tomography, frequency doubling perimeter and standard automated perimeter. Supervisor: Augusto Paranhos Jr.

Cristina Miyamoto, Effects of amfenac and its combination with bevacizumab on the secretion of pro-angiogenic and inflammatory cytokines by retinal pigment epithelial cells. Supervisor: Miguel Burnier Jr.


Maria Eugenia Orellana de Alonzo, Immunohistochemical Analysis of Retinoblastoma Cell Phenotype using Neural and Glial Cell Markers. Supervisor: Miguel Burnier Jr.

Jarbas Pereira de Macedo, Comparison between femtosecond laser deep anterior lamellar keratoplasty associated with phototherapeutic keratectomy and the manual technique, in keratoconus. Supervisor: Luciene Barbosa Sousa.

Karine Duarte Bojikian, Fetal ocular volume measurement by tridimensional ultrasound. Supervisor: Ivan Maynart Tavares.

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**International cooperations**

- Henry C. Witelson Ocular Pathology Laboratory, McGill University, Montreal, Canada, coordinated by Prof. Dr. Miguel Burnier Jr.
- Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA
- UC Davis Eye Center, UC Davis, California, USA
- Illinois Eye and Ear Infirmary, University of Illinois College of Medicine, Chicago, Illinois, USA
- Shiley Eye Center, UC San Diego, California, USA
- Massachusetts Institute of Technology (MIT), Boston, Massachusetts, USA
- The Wilmer Eye Institute, Johns Hopkins University, Baltimore, Maryland, USA
- Universidad de La Frontera, Temuco, Chile
- Doheny Eye Institute, Los Angeles, California, USA
- Università di Bologna, Bologna, Italy
- Mayo Clinic, Department of Ophthalmology, Jacksonville, Florida, USA (mayoclinic.org)

**Prizes**

- 2014 Capes Prize for staff development coordination of highest level for the thesis “The use of Lutein and Zeaxanthin as dyes for intraocular ophthalmological surgeries”, defended in 2013 by Diogo de Sousa Martins under the guidance of Prof. Rubens Belfort Jr. MD.
- American Society of Retina Specialists (ASRS) Honor Award for outstanding service to the Society’s Scientific and Educational Programs, Eduardo Buchele Rodrigues
- American Society of Retina Specialists Prize – 17th Annual ASRS Film Festival, Prof. Dr. Michel Eid Farah
- FUNDAPI – Piedade Cohen Foundation Certificate of Recognition – for the sake of eye health of the state of Amazonas population, as general coordinator of the lower Amazon Cataract Project, Walton Nosé
- 2015 Conrado Wessel Prize for Medicine, Conrado Wessel Foundation, Rubens Belfort Jr.
**Facilities**

The Program has eight laboratories, described below, all located on the EPM / Unifesp – Campus Vila Clementino. Four of the labs are in Research Building II, three in the Department of Ophthalmology and Visual Sciences Building, and one in Research Building I. For further details about the labs, please visit our website at http://www.oftalmounifesp.com.br.

**Ocular Protozoology Laboratory (LAPRO) and Ocular Infection Mechanisms Laboratory Studies (LEMIO), coordinated by Profa. Denise de Freitas and Fábio Ramos.**

**Ophthalmology Ocular Microbiology Laboratory (LOFT), coordinated by Profa. Ana Luisa Hofling-Lima.**

**Ocular Surface Advanced Centre (CASE), coordinated by Prof. José Álvaro Pereira Gomes.**

**Laboratory of Ocular Bioengineering, coordinated by Prof. Paulo Schor.**

**Laboratory of Clinical Electrophysiology of Vision, coordinated by Profa. Adriana Berezovsky and Solange Salomão.**

**Retina Research Laboratory, coordinated by Profs. Michel Farah, Mauricio Maia and Eduardo Büchele Rodrigues.**

**Imaging Center in Ophthalmology, coordinated by Profa. Norma Allemann.**

**Laboratory Hemostasis Ocular and Biomarkers – LHO, coordinated by postdoctoral student PNPD/ Capes Dra. Linda Christian Carrijo-Carvalho and by Profa. Dra. Denise de Freitas.**

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**Patents**


**Financial support**

Academic Excellence Program (Proex) – Capes.
Human Communication Disorders
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/dchfono

Home page sucupira

Coordinator
Brasília Maria Chiari

Address
Rua Botucatu, 802 – Vila Clementino
– Cep 04023062 São Paulo/SP – Brazil

Contact
ppg.dch@unifesp.br;
(55 11) 5576-4531 / extension 2713

Historical background

The Postgraduate Program in Human Communication Disorders: Speech and Audiology Science was established in 1979 by Professors Raymundo Manno Vieira, Pedro Luiz Mangabeira Albernaz, Maurício Malavasi Ganança and Paulo Augusto de Lima Pontes. The Program, offering Master and PhD degrees, was accredited by the Federal Council of Education, No. 624/82, in December of 1982. Throughout its existence the Program has received high ratings in the Brazilian Education Ministry evaluation (Capes), most recently receiving a grade of 6, the second highest grade possible. Professor Brasília Maria Chiari is the current Program Coordinator, with Professor Maria Cecilia Martinelli as Vice Coordinator.

Research focus

Speech, Language and Hearing Science.

Selected publications

Mancini PC; Durrant JD; Starling ALP; et al. Children with phenylketonuria treated early. Ear and Hearing (Print). 2013; volume: 34, p. 236-244.

Andrade KC; Menezes PL; Carnauba AT; Rodrigues RG; Leal MC; Pereira LD. Non-flat audiograms in sensorineural hearing loss and speech perception. Clinic. 2013; volume: 68, p. 815-819.

Cera ML; Ortiz KZ; Bertolucci PHF; et al. Speech and orofacial apraxias in Alzheimer’s disease. International Psychogeriatrics. 2013; volume: 17, p. 01-07.


Carvalho CAF; Capellini SA; Avila CRB. Phonological working memory and reading in students with dyslexia. Frontiers in Psychology. 2014; doi: http://dx.doi.org/10.3389/fpsyg.2014.00746.


Ricci NA; Aratani MC; Ganança HHCM; et al. Challenges in conducting a randomized clinical trial of older people with chronic dizziness: before, during and after vestibular rehabilitation. Contemporary Clinical Trials. 2015; volume: 40 p. 26-34.


**Grants**

Ten Professors in our Program have received CNPq Productivity Scholarships (04 PQ 1 (02 – 1D 01 – 1C and 01 – 1B) and 06 PQ 2). These awards support ongoing projects, which integrate our research focus.

**Funded projects:**

- **Professor Dra. Brasília Maria Chiari**
- **Professor dra. Jacy Perissinoto (Coordinator)**
- **Professor Dra. Jacy Perissinoto (Member)**


Ana Paula Perez Sales. Re (Habilitation) by the FM system and the auditory training in auditory processing disorder. Supervisor: Liliane Pereira Desguardo.


Tiago de Melo Araujo. Effect of sound amplification in speech perception in elderly with and without tinnitus. Supervisor: Maria Cecília Martinelli Iorio.

**MSc Thesis (2015)**

Carla Fonseca Moraes Tonelini. Hearing aid benefit study: a comparison of fittings pre and post probe-mic verification with Brazilian Portugueses test signal. Supervisor: Maria Cecília Martinelli Iorio.

Elisangela Zacanti. Assessment of voice therapy on asymptomatic subjects’ vocal tract by means of cone beam computed tomography. Supervisor: Brasília Maria Chiari.
Fernanda Corral da Fonseca. Speech perception with hearing aids in the elderly with no evidence of cognitive impairment. Supervisor: Maria Cecília Martinelli Iorio.


Isabella Christina Oliveira Neto. Measures of the maximum displacement of the hyoid and larynx during swallowing. Supervisor: Maria Inês Rebelo Gonçalves.


Mariana Silva Freitas. Auditory processing pre and post acclimatization in hearing aid users. Supervisor: Daniela Gil.


**International cooperations**

Dr. Susan Scollie, Western Ontario University.
Dr. Alessia Paglialonga, Biomedical Engineering, Politecnico di Milano, Italy.
University of Oxford.

**Financial support**

Capes, CNPq and Fapesp.

**Other information**

The Program has produced more than 550 Master and PhD theses since its foundation 34 years ago. Currently the Program has approximately 60 Master and PhD students plus 5 Post-Doctoral fellows.
Home page
http://ppg.unifesp.br/radiologia

Home page Sucupira

Coordinator
Suzan Menasce Goldman

Address
Rua Napoleão de Barros, 800 – Vila Clementino – Cep 04024-002 São Paulo/SP – Brazil

Contact
ppg.ddi@unifesp.br
(55 11) 5576-4848 extension 2875

Historical background

The Postgraduate Program in Radiology was founded 35 years ago with the goal of preparing students for careers as highly qualified teachers and researchers in the fields of clinical radiology and radiological sciences. The Program is open to all who have scientific curiosity and are willing to invest time and effort for their own benefit and for the benefit of national education and research. Students in the Program have the opportunity to grow, expand their knowledge and share it with colleagues, and to (re)discover the pleasure of researching, teaching and learning. If that sounds interesting to you, we invite you to meet our team of advising professors and learn about our research projects.

Research focus

Diagnostic Imaging and Therapy

Studies of diagnostic imaging in various areas of radiology, including neuroradiology/head and neck, musculoskeletal system, internal medicine, and oncology, as well as interventional radiologic procedures with diagnostic or therapeutic purposes

Science and Education

Studies focused on radiological sciences and related fields, with emphasis on new teaching methodologies applied to graduate students and medical residents and evidence-based radiology

Management and Technology

Study of management practices applied to health, focused on radiology and diagnostic imaging, as well as studies involving physical and radiological protection, radiology technology, information technology, computer imaging, among others

Selected publications


Fernandes EA, Mann TS, Puchnick A, Tertu-


Books and chapters

Books


Chapters


Hugo Alexandre Sócrates de Castro. Impact of transition zone PSA density on reducing the number of unnecessary biopsies in patients with PSA levels between 2.6 and 10.0 ng/ml. Supervisor: Sergio Ajzen.

André Yui Aihara. CT measurement of the axial rotation of the femoral component in total knee arthroplasty performed by the gaps balancing technique. Supervisor: Artur da Rocha Correa Fernandes.


Denis Szejnfeld. Radiofrequency ablation of functioning adrenal adenomas: preliminary clinical and laboratory findings. Supervisor: Suzan Mensace Goldman.


International cooperations

Salomão Faintuch. Beth Israel Deaconess Medical Center – Harvard Medical School.

Silvana de Castro Faria. MD Anderson Cancer Center – University of Texas.

Financial support

Capes, CNPq, Fapesp.

Facilities

Please see http://www.ddi.unifesp.br

Other information

The Postgraduate Program in Radiology has produced more than 300 Master and PhD theses since its establishment 35 years ago. Currently the Program has approximately 50 Master and PhD students, undergraduates, visiting professors and post-doctoral fellows.
Infectious Diseases
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/infectologia

Home page Sucupira

Coordinator
Ricardo Sobhie Diaz

Address
Rua Pedro de Toledo, 715 – 20º andar – Vila Clementino – Cep 04039-002 São Paulo/SP – Brazil

Contact
ppg.infectologia@unifesp.br; infectologia.pgdipa@gmail.com
(55 11) 55764834 / 5576-4848 extension 1320

Historical background

The Infectious Diseases Division of Escola Paulista de Medicina was created in 1933, and the Postgraduate Program in Infectious Diseases was founded in 1983. There are currently 14 faculty members mentoring students in the Program. Most of these supervisors were trained in the USA, Canada, Germany or France.

Research focus

Strategies and assessment of therapies in infectious diseases.
Blood transmitted diseases.
Epidemiology, pathogenesis and diagnosis of viral, bacterial, and fungal infections.
Infections in immunocompromised patients.

Antimicrobial mechanisms of susceptibility and resistance.

Selected publications


Passos-Castilho AM, Carvalho VM, Cardozo KH, Kikuchi L, Chagas AL, Gomes-Gouvêa MS, Malta F, de Seixas-Santos Nastri AC, Pinho JR, Carrilho FJ, Granato CF. Serum lipidomic profiling as a useful tool for screening potential biomarkers of hepatitis B-related hepatocellular carcinoma by ultraperformance liquid chromatography-mass


Books and chapters


Ana Maria Passos. Determination of Lipid Profile of Human Serum for Screening of Potential Biomarkers for Detection of Hepatocellular Carcinoma Associated with Viral Hepatitis. Supervisor: Celso Francisco Hernades Granato.


MSc Thesis (2015)

Sheila Negrini Parmezan. Detection of Painfluenzavirus1-4 on Respiratory Specimens of distinct populations of Sao Paulo by Real Time PCR. Supervisor: Nancy Belley.


Laura Alejandra Nucci. Evaluation of the Gene Expression of Toll-like receptor (TLR) and Oxidative Metabolism in PBMCs from patients diagnosed with sepsis due to pneumonia. Supervisor: Reinaldo Solomão.

Elaine Cristina Francisco. Analysis of the Intraspecific Diversity of Trichosporon asahii and Trichosporon faecale by Maldi-Tof Ms. Supervisor: Arnaldo L. Colombo.


International cooperations

Dr Michael P Busch, Professor of Laboratory Medicine, University of California, San Francisco, in collaboration with Dr Ricardo Sobhie Diaz

Dr David Denning, Manchester University, Faculty of Life Sciences, ERC, University of Hospital of
South Manchester, Manchester, Manchester, UK, project in collaboration with Dr Arnaldo L. Colombo.

Dr David Perlin from the Research Institute Center New Jersey Medical School – Rutgers, The State University of New Jersey, New Jersey, NJ, project in collaboration with Dr Arnaldo L. Colombo.

Dr. David Nicolau from the Center for Anti-Infective Drug Development, Harford Hospital, Hartford, CN, project in collaboration with Dr Carlos Kiffer.

Dr Hélio S. Sader from the JMI Labs, North Liberty, IA, project in cooperation with Dr Ana C. Gales.

Dr Jacques Meis from the Clinical Microbiology & Infectious Diseases, Canisius Wilhelmina Ziekenhuis, Nijmegen, The Netherlands, project in collaboration with Dr Arnaldo L. Colombo.

Dr Mariana Castanheira from the JMI Labs, North Liberty, IA, project in cooperation with Dr Ana C. Gales.

Dr Marina Freudenberg from the Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany, project in collaboration with Dr Reinaldo Salomão.

Dr Michael Gilmore from Department of Ophthalmology Microbiology and Immunity, Harvard University, Boston, MA, project in cooperation with Dr Antônio Carlos C. Pignatari.

Dr Odalys Blanco from the Centro Nacional de Sanidad Agropecuaria, CENSA, Cuba, project in collaboration with Dr Reinaldo Salomão.

Dr Ronald N Jones from the JMI Labs, North Liberty, IA, project in cooperation with Dr Ana C. Gales.

Dr Suzane Silbert from the Esoteric Lab, Tampa General Hospital, Tampa, FL, project in cooperation with Dr Antônio Carlos C. Pignatari.

Dr Timothy Walsh from Cardiff Institute of Infection and Immunity, Cardiff, UK, project in cooperation with Dr Ana C. Gales.

Dr Victor Rosenthal from International Nosocomial Infection Control Consortium, Buenos Aires, Argentina, project in cooperation with Dr. Eduardo Medeiros.

Prizes


Financial support

Fapesp, Capes, CNPq.

Facilities

Alerta Laboratory (Ana C. Gales).
HIV/AIDS and Viral Hepatitis Outpatient Research Clinic (David Lewi; Ricardo Sobhie Diaz).
Hospital Infectious Control Department (Eduardo Medeiros).
Immunology Laboratory (Reinaldo Salomão).
Microbiology Special Laboratory (Antonio Carlos Pignatari).
Mycology Special Laboratory (Arnaldo Colombo).
Nucleus on Infections on Solid Organs Transplants (Luis Camargo; Arnaldo Colombo).
Nucleus on Infectious Diseases during Pregnancy (Adauto Castelo Filho).
Retrovirology Laboratory and NB-3 Laboratory (Ricardo Sobhie Diaz; Luiz Mario Janini).
Virology Laboratory (Celso Granato; Nancy Bellei).
Health Sciences Applied to Rheumatology

PhD and MSc Degrees

Home page
http://ppg.unifesp.br/reumatologia

Home page Sucupira

Coordinator
Cristiane Kayser

Address
Rua Pedro de Toledo, 720 – 3rd floor
Ambulatório Vila Clementino – Cep 04023-062
São Paulo/SP – Brazil

Contact
ppg.reumatologia@unifesp.br
(55 11) 5576-4239

Historical background

The Postgraduate Program in Health Sciences Applied to Rheumatology at Universidade Federal de São Paulo was founded in 1983 by Professor Edgard Atra, Full Professor of Rheumatology. The Program aims to develop high-quality Master and PhD researchers, able to teach and carry out research in Rheumatology and related fields. It is mainly focused on the development of original research involving basic, translational and clinical science in Rheumatology, but high-level scientific research in fields associated with rheumatic diseases is also supported. In recent years the Program has been involved in promoting interchange with international research centers to further internationalization, innovation and collaboration in rheumatology research. An important purpose of the Postgraduate Program is to increase and improve rheumatology teaching activities and ensure that current developments in rheumatology are communicated to the medical and research community in Brazil. From its founding through 2015, the Program has trained more than 250 PhD and Master students. In addition to excellent scientific and research training, we hope to provide our students with an awareness of the important role of socio-economic factors in health and healthcare and to inspire them to serve the Brazilian community.

Research focus

Clinical and epidemiological aspects of rheumatic diseases: clinical and laboratory parameters; causes of death in rheumatic diseases

Pathophysiology of rheumatic diseases: auto-antibodies, cytokines and humoral mediators in rheumatic diseases; molecular and cellular biology; endothelial function and microcirculation

Fundamental rheumatology: evaluation of rheumatic diseases using imaging methods; metabolic bone diseases

Treatment: spine and rehabilitation; drug therapy

Selected publications


Souza AW, de Leeuw K, van Timmeren MM,


de Souza AW, Perazzio SF, de França NR, et al. High mobility group box 1 serum levels are increased in Behçet’s disease, but not associated with disease activity or disease manifestations. Rheumatol 2015;54:2151-5.


**Books and chapters**


**Grants**

http://www.posgrad.epm.br/osgrad/AnuarioCamaraPGEPM.asp?id=33009015031P7&ldAv=5


Atila Granados Afonso de Faria. Hemolytic activity of C2 complement in patients with hepatitis C
virus infection. Supervisor: Luiz Eduardo Coelho Andrade.


Gerson Dierley Keppeke. Autoimmune response to IMPDH2 and cell biology aspects of “rods and rings” structures recognized by anti-IMPDH2 antibodies. Supervisor: Luiz Eduardo Coelho Andrade.

MSc Thesis (2015)


Danielle Cristiane Baldo. Autoimmune humoral response and biochemical markers of liver disease in asymptomatic individuals with anti-mitochondrial antibodies. Supervisor: Luiz Eduardo Coelho Andrade.


Aline Cristina Orlandi. Reproducibility of the questionnaire ‘Ankylosing Spondylitis: What do You Know’ to the Portuguese language. Supervisor: Jamil Natour


Bruna Aurora Nunes Cavalcante. The impact of obesity on the prevalence of osteoporosis and fragility fractures in women: analysis of two epidemiological studies in Brazil. Supervisor: Marcelo de Medeiros Pinheiro.

Louise Tandaya Bendahan. Clinical, laboratorial and radiographic characteristics in patients with ankylosing spondylitis with symptoms after age 45 years and older. Supervisor: Marcelo de Medeiros Pinheiro.


International cooperations

University of Gainesville, Florida, USA – Prof. Edward K L Chan.

Paris Descartes University, INSERM U1016, Institut Cochin, Sorbonne Paris Cité, Paris, France – Prof. Yannick Allanore.

University Medical Center Groningen (UMCG) – University of Groningen, Netherlands. Dra. Johanna Westra.

University of Alberta, Edmonton, Canada - Prof. Walter P Maksymowycz, Department of Medicine; Prof. Robert G Lambert, Department of Radiology and Diagnostic Imaging.

University of South Carolina, Columbia, SC, USA – Prof. Nitin Shivappa, Cancer Prevention and Control Program; Prof. James R Hebert, Department of Epidemiology and Biostatistics, Arnold School of Public Health.

Prizes

National:


International:


“12th International Workshop on autoimmunity and autoantibodies -3rd place- 2014”; Student: Gerson D Keppeke Supervisor: Luis Eduardo Coelho Andrade.
**Patents**

Patent (INPI), Number: BR 10 2016 009754 1; Title: Method of detection of adequate intake of inosine monophosphate dehydrogenase 1 and 2 enzyme inhibitor, use of the method and kit to perform the method. Gerson D. Keppeke; Prof. Luis Eduardo Coelho Andrade.

**Financial support**

Fapesp; Capes; CNPq; Sociedade Brasileira de Reumatologia; Instituto Fleury; Laboratório de Análises Clínicas e Patologia do Hospital Israelita Albert Einstein.

**Facilities**

Please see http://ppg.unifesp.br/reumatologia
Historical background

The Postgraduate Program in Psychiatry and Medical Psychology was established in 1984 and offers both Masters and Doctorate degrees. Multidisciplinary in nature, the Program covers aspects of psychiatry and medical psychology ranging from anthropology to basic and applied neuroscience, with a strong epidemiological component. It has an active policy of exchange with national and international educational and research institutions, especially with the Institute of Psychiatry (IoP) and King’s College in London, which enriches the training opportunities available to students in the Program and furthers the development of advanced research in psychiatry and mental health. Training of teachers for public institutions in emerging regions of the country is also emphasized, attracting students from other Latin American countries and assisting in the dissemination of research at the national level and among poor countries in the areas at stake. The strategy is to stimulate the development of research in the places of origin, focusing on the most relevant mental health problems. Research done by members of the Program, including studies published in the best journals in the field, has contributed to increased understanding of mental health.

Research focus

- Diagnostic Methods in Psychiatry
- Psychopathology and Clinical Psychiatry
- Epidemiology and Social Psychiatry
- Child and Adolescent Psychiatry
- Psychiatric and Psychological Interventions

Selected publications

2013

Asevedo E, Gadelha A, Noto C et al. Impact of peripheral levels of chemokines, BDNF and oxidative markers on cognition in individuals with schizophrenia. Psychiatry Research 2013; 47: 1376-82.


Attux C, Martini LC, Elkis H et al. A 6-month randomized controlled trial to test the efficacy of a lifestyle intervention for weight gain management in schizophrenia. BMC Psychiatry (online) 2013; doi: 10.1186/1471-244X-13-60.

2014

Pan PM, Salum GA, Gadelha A et al. Manic symptoms in youth: dimensions, latent classes, and asso-


Mendes dos Santos M, Quintana MI, Moreira FG et al. Drug-related disorders and the criminal and clinical background of the prison population of São Paulo State, Brazil. PLoS One (online) 2014; doi: 10.1371/journal.pone.0113066

2015-2016


**Books and chapters**

**Books**

2013

2014
Saúde Mental na Escola: o que os Educadores Devem Saber. Autores: Gustavo M. Estanislau; Rodrigo Affonso Bressan; Colaboradores. Editora: Artmed.

Hospital de Custódia: prisão sem tratamento – fiscalização das instituições de custódia e tratamento psiquiátrico do Estado de São Paulo. Organizadores: Quirino Cordeiro e Mauro Gomes Aranha de Lima. Publicação do Conselho Regional de Medicina do Estado de São Paulo (Cremesp).

2015
Autismo, linguagem e cognição. Sheila Cavalcante Caetano; Maria Célia Pereira Lima-Hernandes; Fraulein Vidigal de Paula; Briseida Dogo Resende; Marcelo Módolo (orgs.). Paco Editorial. Páginas: 124.

**Book chapters**

2013

2014

2015

**Grants**

PALOP Mental Health Implementation Research Training Program.

Urbanicity, childhood trauma and adolescent co-morbid psychopathology in Brazil and Chile.

Trauma, mental health and early childhood development.

Public health implications of alcohol industry corporate social responsibility programs (Latin America).

Post-traumatic stress disorder and neuroprogression: new approaches in understanding the effect of violence on mental functioning.

National Institute of Public Policies of Alcohol and Other Drugs.

Mother’s Support Program (PAM) and Teacher Support Program (PAP) to improve cognitive, social and communication skills in preschool children, improve maternal quality of life and reduce domestic violence.

Prevention in schizophrenia and Bipolar disorder. From neuroscience to community: a multiphase,
multimodal and translational platform for investigation and intervention.

High risk cohort for psychiatric disorders in childhood: neuroimaging follow-up after 3 years.

Neurodevelopment and the course of mental disorders in childhood: factors of remission and evolution. A follow-up neuroimaging study after 3 years.

The progression of telomeric shortening in bipolar disorder: the accelerated aging paradigm.

Incidence and effects of toxic stress on neurodevelopmental, cognitive and socioemotional outcomes in children and adolescents: a cross national comparative collaboration.

Evolution of changes in brain energy metabolism along different stages of bipolar disorder.

Construction and validation of the musical perception skill (AHPM) battery for elementary school children.

A double-blind, randomized, placebo-controlled study of the effects of repetitive transcranial magnetic stimulation in obese people with binge eating disorder.


Daniela Arroyo Esquivel. A Study of Mental Health and Quality of Life of Residents of Orthopedics and Traumatology, Unifesp-EPM. Supervisor: Latife Yazigi.


Marco Antônio Gomes del Aquilla. Relationship Between Decoding Skills in Reading and Cortical Thickness in scholars from 7 to 10 Years of Age. Supervisor: Acioly Luiz Tavares de Lacerda.


**MSc Thesis (2015)**


Paula Maria Serafim. A Clinical Trial for evaluation of Psychoeducation Effectiveness for adherence to treatment in subjects with Post Traumatic Stress Disorder. Supervisor: Marcelo Feijó de Mello.


Thais Graziela Francisco Cavalcante. Psychoeducational groups for Parents of Children with Autism...


Raphael Swan Rodrigues. Association Between Sociodemographic, Clinical and neuropsychological variables and Pharmacological Treatment response in Patients with Attention Deficit Hyperactivity Disorder (ADHD). Supervisor: Maria Conceição do Rosário.


Denisse Claudia Jaen Varas. The Impact of Exposure to Violence and Other Traumatic Events on Mental Disorders in Adolescents and Young Adults in the City of São Paulo. Supervisor: Jair de Jesus Mari.

**International cooperations**

Universidade Eduardo Mondlane (UEM); Vanderbilt Institute for Global Health (VIGH); Columbia University; Institute of Psychiatry, Psychology and Neurosciences IoPPN) – Kings College London London School

Imperial College – London; University College of London Texas Tech University; University of Toronto; University of Tromso (Noruega); University of Western Sydney; University of Newcastle; Keele University; Simon Fraser University;

**Prizes**


Capes Thesis Award 2015 in the area of Medicine II – Ary Gadelha de Alencar Araripe Neto, Thesis: “Characterization of the role of oligopeptidases (NDEL1 eECA) in schizophrenia: a translational and multimodal study” Supervisor: Rodrigo Affonseca Bressan.

L’Oréal Prize 10th edition of “For Women in Science”, Elisa Brietzke; Area: Life Sciences, with the work “The Paradigm of Accelerated Aging in Bipolar Disorder”.

Young Leaders Medical Program Award from the National Academy of Medicine 2015 – Ary Gadelha de Alencar Araripe Neto.

The Gerald L. Klerman Award of the Depression and Bipolar Support Alliance – Young Investigator – 2015 – Rodrigo Barbachan Mansur.

**Patents**

ment of the enzymatic activity of a protein linked to cerebral neurodevelopment. In particular, it contributes significantly to the diagnosis of schizophrenic patients, representing an important tool for a more precise diagnosis, since it is based on the molecular knowledge that determines this pathology.

Financial support

Fapesp, CNPq, Capes, NIH, IDRC.

Facilities

Please see http://psiquiatriaunifesp.posgrad.com.br

Other information

Capes has awarded the Postgraduate Program in Psychiatry and Medical Psychology a rating of 6, the second highest possible rating. The Program has more than 100 Master and PhD students who come from Brazil, North America, South America, Latin America and Africa. There are currently 28 supervisors in the Program (23 permanent supervisors). Eight of our permanent supervisors have received research productivity grants from CNPq.
Home page
http://ppg.unifesp.br/psicobiologia

Home page Sucupira

Coordinator
Débora Cristina Hipolide

Address
Rua Napoleão de Barros, 925 – Vila Clementino – Cep 04024-002 São Paulo/SP – Brazil

Contact
ppg.psicobiologia@unifesp.br
(55 11) 2149-0152

Historical background

The Postgraduate Program in Psychobiology began in 1971 as part of the Pharmacology Program of Escola Paulista de Medicina, today the Universidade Federal de São Paulo. In 1987 it became an independent Program. It currently includes 25 supervisors who work in four areas of specialization: Medicine and Biology of Sleep, Medicine and Sociology of Drug Abuse, Cell and Molecular Bases of Behavior, and Neurobiology, Emotion, Cognition and Motivation.

The Psychobiology Program is the largest of its kind in Brazil, and is considered a Center of Excellence by Capes, the Federal Agency which ranks postgraduate programs. It participates in the World Health Organization (WHO) Drug Abuse Program and the Anti-Drug National Reference Center (Senad). The Sleep Institute is also considered a center of excellence by international organizations due to the quality of its service and scientific research.

From its inception through 2015 the Program has graduated 349 MScs and 237 PhDs, more than half of whom have taken lectureships and research positions in leading Federal or State institutions of higher education in Brazil. At present the Program hosts 33 MSc students, 56 PhD students, 58 undergraduates and 25 Post-Doctoral fellows. In 2015 the Program produced 175 papers in internationally indexed Journals.

Research focus

Research carried out in the Program can be classified into the four following fields:

Medicine and biology of sleep: The aim of this area is to develop and disseminate, through teaching, research, extension and diffusion, theoretical and practical knowledge in the field of sleep, contributing to the establishment of a community of professional health workers and researchers in this area. Studies on human subjects and animals include the effects of sleep deprivation, sleep pathologies, and epidemiology of sleep.

Medicine and sociology of drug abuse: The aim of this area is to provide multidisciplinary training, integrating knowledge from the fields of medicine, biology and psychology, in the study of psychoactive substances and problems associated with their use. Research includes studies on the underlying neurobiology of the effects of psychotropic substances (neuroadaptive processes, risk factors, genetic, epigenetic, psychosocial and environmental influence), as well as the development and/or evaluation of innovative pharmacological and psychosocial interventions aimed at different populations of substance abusers.

Cellular and molecular bases of behavior: Studies in this area are aimed at understanding the molecular and neurobiological mechanisms of
behaviors in healthy and pathological conditions, including studies both in humans and animals, as well as the impact of stressful events and therapeutic interventions in triggering such changes. Behavioral changes in models of genetic and molecular mechanisms related to these diseases are also a focus of research.

Neurobiology, emotion, cognition and motivation. This area includes research with humans and laboratory animals which aim at uncovering the underlying neurobiological mechanisms of various types of healthy and pathological behaviors, including investigation of neurotransmitter systems, inactivation of brain structures, complementary medicine techniques and various manipulations, including pharmaceuticals.

Selected publications


Books and chapters

Andrade ALM, De Micheli D, Silva EA, Souza-Formigoni MLO, Goeldner FO. Neural development in adolescence. In: De Micheli D, Andrade ALM, Sil-


Grants

The financial support of the non-profit association Associação Fundo de Incentivo à Pesquisa (AFIP) has been crucial to the survival of the Program, especially in relation to the provision of staff, materials and infrastructure. The Program is also supported by Capes and several of the Program’s members receive research funding from national agencies such as Fapesp and CNPq.

Other grants include:

National Policy on Drugs (SENAD) of the Ministry of Justice No. 01/2015: “Effects of biperiden (muscarinic antagonist) in dependence on cocaine / crack and alcohol: preclinical studies and clinical.” José Carlos Fernandes Galduróz.

Canadian Institutes of Health Research (CIHR) / Philips-Respironics Inc: “An international, multicenter, open, parallel group, prospective, randomized, controlled trial to determine the effectiveness of treatment with continuous positive airways pressure (CPAP) in addition to standard care in cardiovascular reducing (CV) morbidity and mortality in Patients with co-existing CV disease and moderate-severe obstructive sleep apnea (OSA).” Lia Rita Azeredo Bittencourt.

Sanofi-Aventis: International multicenter study LTE. Sergio Tufik.

Biolab Brazil: Study on safety and efficacy of Serenus. Sergio Tufik.

Laboratory Servier: Agomelatine study. Sergio Tufik (co-investigator).


Murilo Dattilo. Effects of sleep deprivation on muscle recovery parameters, after eccentric action-induced damage. Supervisor: Marco Tulio de Mello.

Aline da Costa Soeiro. Impact of individual differences in locomotor sensitization on conditioned reward in mice: a comparison between modafinil and methamphetamine. Supervisor: Isabel Marian Hartmann de Quadros.


Sandra Souza de Queiroz. Physiological and behavioral aspects of healthy young men undergoing sleep restriction. Supervisor: Marco Tulio de Mello.


Gabriel Natan de Souza Pires. Systematic reviews and meta-analyses of the effects of sleep deprivation on anxiety in humans and rodents. Supervisor: Monica Levy Andersen.

Karina Agustini Zanin. Effects of repeated administration of zolpidem on different memory stages in mice subjected to sleep restriction. Supervisor: Dalva Lucia Rollemberg Poyares.
Anna Carolina Ramos. The study of impulsivity on cocaine/crack addiction and gambling disorder: neurocognitive and neuroimaging aspects. Supervisor: Carlos Fernandes Galduroz.

Ricardo Teixeira Mazzeo. Eletrophysiological patterns in the hippocampus, amygdale and medial prefrontal cortex in the retrieval of aversive conditioning. Supervisor: Maria Gabriela Menezes de Oliveira.

Andre Luiz Monezi Andrade. Evaluation of adherence to and effects of a virtual intervention to alcohol users. Supervisor: Maria Lucia Oliveira de Souza Formigoni.


Viviane Grassmann Marques. The effect of physical training and fish oil consumption in Attention Deficit/Hyperactivity Disorder Children. Supervisor: Jose Carlos Fernandes Galduroz.


Thais de Moura Guimarães. Cardiovascular parameters in Mild Obstructive Sleep Apnea. Supervisor: Lia Rita Azeredo Bittencourt.


Carolina Fioroto Chaves. Involvement of the autophagic pathway in successful aging. Supervisor: Vania D Almeida.


Lais de Oliveira Marchioro. Effects of paradoxal sleep deprivation on the deployment and progression of murine melanoma metastasis. Supervisor: Deborah Suchecki.

Joao Paulo Pereira Rosa. The influence of psychobiological variables on adherence and adherence to an exercise program. Supervisor: Marco Tulio De Mello.

Mariana Pantaleao del Re. The influence of a protein meal on the thermic effect of food in obese men with Obstructive Sleep Apnea. Supervisor: Marco Tulio de Mello.

Hernando Ivan Padilla Luna. Alcohol as a risk factor for dementia. Supervisor: Cleusa Pinheiro Ferri.

International cooperations

Canadian Institutes of Health Research (CIHR)/Philips-Respironics Inc. – Prof. Douglas Bradley and Profa. Lia Rita Azeredo Bittencourt.


The George Institute for International Health, Sydney, Australia – Prof. Doug McEvoy and Profa. Lia Rita Azeredo Bittencourt.


Sunnybrook Health Sciences Centre, Toronto, Canada. – Prof. Fernando Morgadinho dos Santos Coelho.


University of Strasbourg, Strasbourg, France – Prof. Jean-Jacques Bourguignon and Prof. Jair Ribeiro Chagas.

Mayo Clinic, Minnesota, USA – Prof. Jair Ribeiro Chagas and Isobel Scarisbrick.
Prizes

Santander Health Science and Innovation Award: “Impact of sleep disorders on metabolic profile and cardiovascular risk: a prospective population study in the city of São Paulo”. Capes Elsevier 2015 Award in the Health Sciences category. Sergio Tufik.


Financial support

Fapesp, Capes, CNPq, NIH, Afip.

Facilities

Various research laboratories, seminar rooms, and offices support the Program’s ongoing investigations. Research laboratories outside the Department provide additional resources for research training and collaboration. Program facilities include:

- Biomedical Sciences Building (Edifício de Ciências Biomédicas – Unifesp), first floor, total area of 582 m². This facility includes offices for Psychobiology faculty and students, a classroom, the Departmental office, a Biochemistry Laboratory, an Imaging Room (film reading analyses), and a graphic arts room equipped with a high-speed high capacity Silicon Graphics Indigo workstation which will be important for our educational and outreach initiatives.

- Psychobiology Vivarium Building, four floors, total area of 466 m². In addition to the vivarium per se (housing rats and mice), the building holds a number of behavioral testing rooms, a room for recording sleep parameters in rodents, histology and surgery rooms, and a dedicated area for sleep deprivation experiments. All of these rooms have temperature and dark-light controls.

- Clinical Psychopharmacology Building (2,500 m²), located at Rua Napoleão de Barros, 925, Vila Clementino, São Paulo, including the Clinical Analyses Laboratory (3rd floor) and the Sleep Laboratory (2nd floor), total area 2,500 m². The Sleep Laboratory occupies a 408 m² area and includes 10 bedrooms with suites. Each bedroom is equipped with infra-red monitoring cameras, bi-directional communication systems and a central monitoring system. In addition to polysomnographical analyses, the Sleep Laboratory is used for digital brain mapping, evoked potential analyses and multiple latency sleep tests. The 1st floor of the building contains 12 offices, two meeting rooms, two research laboratories and one dental office. On the ground floor there are 5 doctor’s offices, patient waiting
rooms, a Library with 3,500 titles and 15 journal subscriptions, Medline and Current Contents. A 75-seat auditorium is also located on the ground floor. In the basement there is a kitchen, laundry room, dressing rooms, dining room, cold room, storage room and parking.

**Other information**

In addition to our research programs, we also partner with government agencies to develop social and educational activities, especially in the area of drug abuse, through courses for professional and community empowerment [project SUPERA (site in Portuguese http://www.supera.senad.gov.br/)], and online education involving brief interventions for drug abuse for health workers and religious and community leaders Fé na Prevenção (site in Portuguese http://www.fenaprevencao.senad.gov.br/). In the cognitive field, the Program has strong links with the CPN (Paulista Center for Neuropsychology: site in Portuguese http://www.cpnsp.com.br/), which provides interdisciplinary assistance and cognitive assessment of children with neurodevelopmental and learning disorders, genetic syndromes and acquired brain injury, as well as cognitive rehabilitation for adults. Educational outreach in this area includes symposia and courses (e.g. Seminar on Inclusion and Singularity; Project Mirim: Interdisciplinary Models of Rehabilitation in Childhood).

In the area of sleep, as of 2015 the Program had graduated 835 Sleep Specialist MDs or other health professionals, trained 975 polysomnography technicians, assisted in the development of national equipment and legal aspects related to sleep disorders, and taken part in international consensuses on sleep-related pathologies. Our Program is also involved in improving preschool, primary and secondary education. We implemented the PERAE/SHAHRP project, a school-based curriculum program that aims to reduce alcohol-related harm, and the Prevention of Drug Use Among Students From Public Schools, in conjunction with the Ministry of Health. We also share information about techniques that enhance learning through Facebook, Youtube, and a Teacher Training Program in Cognitive Development.
Structural and Functional Biology
PhD and MSc Degrees

Home page
http://bioestrufunc.posgrad.com.br

Home page Sucupira

Coordinator
Sintia Iole Nogueira Belangero

Address
Rua Botucatu, 740 – Ed. Leitão da Cunha – Térreo – Vila Clementino – Cep 04023900 São Paulo/SP – Brazil

Contact
ppg.morfologia@unifesp.br
(55 11) 5576-4259

Historical background

The Postgraduate Program in Structural and Functional Biology, initially known as the Postgraduate Program in Morphology, was certified by Capes in 1988 to offer Master degrees and in 1992 to offer PhD degrees. In 2009 the Program underwent a restructuring process which included recruitment of additional mentors and a new name. Our main goals are educating scientists and professors, as well as leading high-level research. Thanks to the excellent training provided by the 23 supervisors in the Program, all professors with national and international prominence in their fields, a high percentage of graduates from our Program go on to great positions in academia or in industry.

Research focus

Research in our Program falls into two main categories:

Cellular and Molecular Biology: cellular and molecular biology applied to diseases of aging; applied structural and functional biology; reproductive biology.

Genetics: human and medical genetics; genetics and epigenetics of cancer.

Selected publications

2013


Carvalheira et al. DDIT3, STT3A (ITM1), ARG2 and FAM129A (Niban, C1orf24) in diagnosing thyroid carcinoma: variables that may affect the performance of this antibody-based test and promise. Mod Pathol. 2013 Apr;26(4):611-3.


Ota et al. ZDHHC8 gene may play a role in cortical volumes of patients with schizophrenia. Schizophr Res. 2013 Apr;145(1-3):33-5.

2014


2015


Books and chapters

2013

• Fernanda Tereza de Lima. Genetic counseling in hereditary predisposition syndromes to cancer.
• Ileana de Rubio. Fetal goiter in dysomogenes: molecular etiology and clinical aspects.
• Estela Sasso Cerri. Cartilage (chapter) – Histology fundamentals for health students.
• Gianna Carvalhira. Chromosome studies: karyotype and advanced techniques.
• Feel Belangero. FISH and diagnostic applications
• Manoel de Jesus Simões. Fundamentals of histology for health students.
• Decio Brunoni. Ambiguous external genitalia and intersex states.
• Luis Gracia Alonso. Craniofacial genetics: dysmorphological aspects.

• Pablo Nicola. Medical genetics and its interface with multimedia.
• Decio Brunoni. Guide to medical genetics – series of guides for outpatient and hospital medicine at EPM-Unifesp.
• Janete Cerutti. Methods of analysis of nucleic acids: DNA and RNA.
• Ileana de Rubio. Bloodspot test for all.
• Marilia Smith. Genetic progerioid syndromes.
• Estela Sasso Cerri. Bone tissue (chapter): histology fundamentals for health students.

2014

• Ricardo dos Santos Simões. Descriptive and topographic anatomy of the lower genital tract.
• Fernando Vagner Lobo Ladd. Chapter two – stereological and allometric studies on neurons and axo-dendritic synapses in superior cervical ganglia.
• Spencer Luiz Marques Payao. Alzheimer’s disease.
• Ricardo dos Santos Simões. Embryogenesis and development of the female genital system.
• Ana Maria Massad Costa. Embryology of the lower genital tract.
• Sergio Podgaec. Endometriosis – experimental model.
• José Maria Soares Junior. Permanent estrus – experimental model.
• Ricardo dos Santos Simões. Normal cell structure.
• José Maria Soares Junior. Physiology of the lower genital tract.
• Decio Brunoni. Medical Genetics.
• Ana Beatriz Alvarez Perez. Medical genetics, dysmorphology and genetic counseling.
• Vinicius Cestari do Amaral. Induced hyperprolactinemia in animals.
• Gustavo Rubino de Azevedo Focchi. Histology of the lower genital tract.
• Ricardo dos Santos Simões. Gonadotrophic hormones.
• Pablo Nicola. Multimedia in genetics and its interface with the medical clinic.
• Carlos Jared. Apothecaries of nature: considerations on the chemical defense of cutaneous amphibians.
- Luis Gracia Alonso. Rehabilitation.
- Mônica Lipay. Disorders of sexual differentiation.

2015
- Glaucia Alonso. Strategies for prevention of congenital and acquired deficiencies.
- Ana Beatriz Alvarez Perez. Medical genetics, dysmorphology and genetic counseling.
- Geraldo Medeiros-Neto. Iodine deficiency disorders.
- Sintia Belangero. Genetic variants in the lesions of the musculoskeletal system in athletes.
- Ricardo Smith. Dr. Claro Homem de Mello? The first psychiatrist in São Paulo.
- Adriana Carbonel. Effects of genistein and daidzein in female reproductive tract.
- Glaucia Alonso. Strategies for prevention of congenital and acquired deficiencies.
- Ricardo Smith. Retinal biochemistry, physiology and cell biology.

Grants

National grants in 2015


Marcio Luiz Alves Moura. Effects of low frequency mechanical vibration and intensity associated to estrogen therapy on the bone tissue of female osteopenic mice. Supervisor: Manuel de Jesus Simões.


Mariana Brandão Ferreira. Polymorphisms of NR3C1, CHRM2, TPH1 and MC1R genes and their correlation to ancestral markers and biopsychosocial factors in individuals with temporomandibular disorders. Supervisor: Luis Garcia Alonso.

Camila Cicconi Paccola. Effect of nicotine on the seminiferous epithelium of exposed rats during the intrauterine phase and lactation. Supervisor: Sandra Maria Miraglia Valdeolivas.


MSc Thesis (2015)

• Claudia Branco Battistella. Biopsychosocial factors of the axis II of the research diagnostic criteria in individuals with temporomandibular and migraine dysfunction. Supervisor: Luis Garcia Alonso.

• Andre da Costa Vaz. Impact of unilateral left varicocele, induced on peripuberty, on the morphology and function of sertoli cells from adult rats and its repercussion on spermatogenesis. Supervisor: Sandra Maria Miraglia Valdeolivas.


• Ticiana Volpato Oliveira. Sox2 expression dynamics during the gonocyte-spermatogonia transition in rats: likely relation to the emergence of trunk parsons. Supervisor: Taiza Stumpp Teixeira.


• Ariadne Stavare Leal. Influence of hyperprolactinemia on cell proliferation, apoptosis and collagen in the lacrimal gland of female mice. Supervisor: Manuel de Jesus Simões.


• Talita Biude Mendes. Effects of resveratrol on the reproductive parameters of adult rats submitted to experimental varicocele induced from peripuberty. Supervisor: Sandra Maria Miraglia Valdeolivas.

• Diana Aparecida Dias Câmera. Investigation of the stem cell expression markers in murine melanoma cell line and its reprogramming in induced pluripotent cells. Supervisor: Irina Kerkis.

• José Paulo de Pizzol Junior. Contribution of matrix metalloproteinase-1 (MMP-1) and lysosomal acid phosphatase (ACP) in the degradation of lamina of the eruptive pathway in rat molars. Supervisor: Paulo Sergio Cerri.

International cooperations

Official Covenant

International Doctorate Program in Molecular Oncology and Endocrinology, Universidade de Napolés Federico II, Italy.

Universidad de La Frontera, UFRO, Chile. Programa de Post Grado Maestria.

International Collaborations (Internal Professor, External Professor and International Institution)

Ana Beatriz Nara – L.M. Sobreira, Johns Hopkins University, USA.

Cristiane Damas Gil – Roderick J. Flower and Mauro Perretti, William Harvey Research Institute, London, UK.

Elizabeth Suchi Chen – Gustavo Turecki and Carl Ernst, Department of Genetics Psychiatry, McGill, Montreal, Canada.

Irina Kerkis – John Tilly, Harvard Medical School, USA.

Janete Maria Cerutti – Gregory Riggins and Penn Huang, Neurology and Neurosurgery Department, Johns Hopkins Medical School, USA.

Janete Maria Cerutti – Alfredo Fusco. Universidade de Napolés Federico II, Italy.

Janete Maria Cerutti – Nikola Besic, Institute of Oncology, Ljubljana, Slovenia.

Luis G. Alonso – Mingzhao Xing, Neurology and Neurosurgery Department, Johns Hopkins Medical School, USA.
Luis G. Alonso – José Ramón Mérida-Velasco, Departamento de Anatomía y Embriología Humana II da Universidade Complutense de Madrid.
Luis G. Alonso – Ophir Klein, University of California San Francisco, USA.

Maria Isabel de Souza Melaragno – Alexandre Reymond, Center for Integrative Genomics, University Of Lausanne, Switzerland.
Maria Isabel de Souza Melaragno – Jeremy Squire and Dra. Maïsa Yoshimoto, Ontario Cancer Institute, Princess Margaret Hospital, Canada.

Maria Isabel de Souza Melaragno – Thomas Liehr, do Instituto de Genética Humana da Universidade de Jena, na Alemanha.
Maria Isabel de Souza Melaragno – Laura Conlin, Anne Lawlor Hutchinson and Nancy Spinner, Division of Human Genetics and Molecular Biology, Children’s Hospital of Philadelphia, Pennsylvania, USA.

Marília Arruda Cardodo Smith – Gustavo Turecki, Department of Genetics Psychiatry, McGill, Montreal, Canada.

Marília Arruda Cardodo Smith – J Mill, Kings College, Londen, UK.

Marília Arruda Cardodo Smith – Guo H, Dr. Uitto J and Dr. Li Q, Thomas Jefferson University, Philadelphia, USA.

Marília Arruda Cardodo Smith – Jeremy Squire and Dra. Maïsa Yoshimoto, Ontario Cancer Institute, Princess Margaret Hospital, Canada.

Rejane Reginato – Lilian I. Plotkin Indiana University – USA.


Ricardo Smith – Universidad de Talca, Talca, Chile.

Sérgio Schenkman – Roberto Docampo, University of Georgia Athens, USA.

Sérgio Schenkman – Silvia Moreno, Universidade da Georgia Athens, USA.

Sérgio Schenkman – Maria Teresa Tellez-Inon, INEGI, Buenos Aires, Argentina.


Silvia Regina Caminada de Toledo – Sharon A. Savage, Division of Cancer Epidemiology and Genetics (DCEG), National Cancer Institute, USA.

Silvia Regina Caminada de Toledo – Sebastian di Cesare, The Henry C. Witelson Ocular pathology, McGill, Montreal, Quebec, Canada.

Silvia Regina Caminada de Toledo – Miguel Burnier, Centre Hospitalier Afillie Universitaire de Quebec, Quebec, Canada.

Sintia Iole Belangero – Gerome Breen. Medical Research Council Social Genetic and Developmental Psychiatry Research Centre, Division of Psychological Medicine, Institute of Psychiatry, King’s College London, UK.

Sintia Iole Belangero – Hakon Hakonarson. Center for Applied Genomics, Children’s Hospital of Philadelphia, USA.

Sonia Maria Oliani – Mauro Perretti, London Centre for Biochemical Pharmacology, William Harvey Research Institute, Barts and The London School of Medicine, Queen Mary University of London, UK.

Sonia Maria Oliani – Karin Vicente Greco, Northwick Park Institute for Medical Research (NPIMR), London, UK.

Taiza Stumpp – Ian Adams and Richard Meehan, Medical Research Council, Human Genetics Unit, Edinburgh, UK.

Taiza Stumpp – Howard Cooke, Human Genetics Unit, University of Edinburgh, UK.

Prizes


Are We Really At The Dawn Of Understanding Sporadic Pediatric Thyroid Carcinoma? Student: Lais de Sousa Moraes. Supervisor: Janete Maria Cerutti. Endocrine-Related Cancer. Fl: 4.805.

Genetic Mechanisms Leading To Primary Amenorrhea in Balanced X-Autosome Translocations. Students: Mariana Moyses Oliveira, Roberta dos
Santos Guilherme, Anelisa Gollo Dantas, Vera de Freitas Ayres Meloni. Supervisors: Ana Beatriz Alvarez Perez, Maria Isabel de Souza.

**Patents**

#BR1020150185685: “Flavonoid composition and its uses.” Daniela Rodrigues de Oliveira (PhD student) and Suzete Maria Cerutti (supervisor).

**Financial support**

Fapesp; Capes; CNPq (Brazil); Newton Fund (England); NIH (USA).

**Facilities**

Our laboratories are equipped with modern and automated apparatus for performing various molecular and genetic techniques, including extraction and quantification of nucleic acids and proteins (QiaCube-Qiagen, Bioanalyzer, NanoDrop), genotyping, mutation and copy number variation detection, gene expression and proteomics analyses, DNA methylation and ChIP-Chromatin Immunoprecipitation studies (next generation sequencer – Ion Torrent PGM; platform microarray – Agilent; real time PCR -Viia7 and 7500 – Applied Biosystems; optical and fluorescence microscopy – Zeiss).

**Other information**

There are approximately 30 Master students and 50 PhD students registered in our Program at this time, as well as 20 post-doctoral fellows.
Translational Surgery
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/cirurgiatranslacional

Home page Sucupira

Coordinator
Miguel Sabino Neto

Address
Rua Botucatu, 740 – 2º Andar –
Vila Clementino – Cep 04023-062
São Paulo/SP – Brazil

Contact
ppg.plastica@unifesp.br
(55 11) 5576-4118

Historical background

The Postgraduate Program in Translational Surgery started in 1982 as part of the Postgraduate Program in Orthopedics. The first doctoral degrees were awarded in 1985 to Dr. Lydia Masako Ferreira and Dr. Roberto Rudge Ramos. In 1990 it became an independent Program, known as the Postgraduate Program in Reconstructive Plastic Surgery, which was officially certified in 1992. Since that time the Program has awarded 43 Masters and 13 Doctoral degrees.

Dr. Marino Lazzareschi was the original coordinator of the Orthopedics Postgraduate Program, followed by Dr. José Laredo Filho, Dr. Jorge de Moura Andrews and Dr. Lydia Masako Ferreira, the current coordinator.

The Program has grown and developed over its history. For the past 16 years it has received a score of 6 from Capes, the second highest score possible. Factors responsible for this achievement include faculty restructuring in 2001 and opening the Program to researchers from various fields. In particular, basic science, such as molecular biology, physics, biophysics, histology, genetics, tumor biology, and tissue engineering, has been incorporated into the Program’s research, and many collaborations and joint projects have been developed.

Since the focus of the research projects in our Program is no longer strictly plastic surgery, but rather includes aspects of basic research and clinical application, a proposal was made to change the Program name to better reflect the research being done. In April, 2012 the new name, Postgraduate Program in Translational Surgery, was approved and adopted.

Research focus

1 - Measurement of osteoarticular deformities
   1.1 - Methods of measurement in dentofacial deformities
   1.2 - Articular instabilities

2 - Quality of life as a method of evaluation of plastic surgery
   2.1 - Self-esteem, body image, depression and sexuality
   2.2 - Functional capacity, pain and physical activity
   2.3 - Cost effectiveness and management in surgery
   2.4 - Evidence-based medicine

3 - Ecto and mesodermal tissue regeneration
   3.1 - Oxidative stress and experimental models in transplants
   3.2 - Measurement of tissue and nerve regeneration
   3.3 - Development of minimally invasive techniques
   3.4 - Cell culture, cell therapy and stem cells applied to surgery.
Selected publications


Gragnani A; Cezillo MVB; Oliveira AF; Ferreira LM. Neuroleptic malignant syndrome in trauma patient. Burns (Oxford), v. 41, p. 1147-1151, 2015.


Sayum Filho J; Lenza M; Carvalho RT; Pires OGN; Cohen M; Belloti JC. Interventions for treating fractures of the patella in adults. Cochrane Database of Systematic Reviews (Online) v. 2, p. 01, 2015.

Gracitelli GC; Meric G; Briggs DT; Pulido PA; Mccauley JC; Belloti JC; Bugbee WD. Fresh Osteochondral Allografts in the Knee: Comparison of Primary Transplantation Versus Transplantation After Failure of Previous Subchondral Marrow Stimulation. American Journal of Sports Medicine, v. 43, p. 885-891, 2015.

Curto D; Tamaoki MJ; Martins DE; Puertas EB; Belloti JC. Surgical approaches for cervical spine facet dislocations in adults. Cochrane Database of Systematic Reviews (Online), v. CD008129, p. 01, 2014.

Lenza M; Belloti, JC; Andriolo, RB; Faloppa F. Conservative interventions for treating middle third clavicle fractures in adolescents and adults. Cochrane Database of Systematic Reviews (Online), v. 7121, p. 01, 2014.

Felix GAA; de Brito MJA; Nahas FX; Tavares H; Cordás TA; Dini GM; Ferreira LM. Patients with mild to moderate body dysmorphic disorder may benefit from rhinoplasty. Journal of Plastic, Reconstructive & Aesthetic Surgery, v. xx, p. 1-9, 2014.

Abramoff MMF; Pereira MD; Seixas MT; Segreto RA; Guilherme A; Ferreira LM. Low-level laser therapy on bone repair of rat tibiae exposed to ionizing radiation. Photomedicine and Laser Surgery (Online) v. 32, p. 1-9, 2014.


Books and chapters


Ferreira LM. Qué decir a las jóvenes?. In: Lilia Priscilla Alcocer Cordero (Org.). El Bisturi de Venus. 1ed. Santiago do Chile: Santiago do Chile, 2015, v. 1, p. 64-72.


Suzuki V; Carvalho EF; Fanaro GB; Oliveira CR; Trindade CB; Ferreira LM. Personal Dieter na Suplementação e Prescrição de Fitoterápicos. Personal


<table>
<thead>
<tr>
<th>Student, thesis title</th>
<th>Begin</th>
<th>End</th>
<th>Supervisor</th>
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<tbody>
<tr>
<td>Ricardo Manzur Ayala A new stabilizer for orotracheal intubation</td>
<td>08/2014</td>
<td>12/2015</td>
<td>Lydia Masako Ferreira</td>
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<tr>
<td>Pedro Debieux Vargas Silva Bioabsorbable versus metallic interference screws for graft fixation in anterior cruciate ligament reconstruction.</td>
<td>10/2012</td>
<td>12/2015</td>
<td>João Carlos Belloti</td>
</tr>
<tr>
<td>Vinicius Ynoe de Moraes Platelet rich therapies for musculoskeletal soft tissue injuries</td>
<td>06/2013</td>
<td>12/2015</td>
<td>João Carlos Belloti</td>
</tr>
<tr>
<td>Fabio Teruo Matsunaga Treatment of the humeral shaft fractures – minimally invasive osteosynthesis with bridge plate versus conservative treatment with functional brace. A randomised controlled trial.</td>
<td>07/2013</td>
<td>12/2015</td>
<td>João Carlos Belloti</td>
</tr>
<tr>
<td>Jorge Raduan Neto Treatment of reducible unstable fractures of the distal radius – Randomized clinical study comparing the locked volar plate and external fixator methods.</td>
<td>02/2013</td>
<td>12/2015</td>
<td>João Carlos Belloti</td>
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<td>Antonio Altenor Bessa de Queiroz Knee focal cartilage lesion: a comparison between the hydrogel implant technique and the osteochondral autologous transplantation. A randomized clinical trial.</td>
<td>07/2013</td>
<td>12/2015</td>
<td>Moisés Cohen</td>
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<tr>
<td>Allan Zimmermann Autologous adipose-derived mesenchymal stem-cells and hydroxyapatite in guided bone regeneration of rabbit calvaria.</td>
<td>07/2013</td>
<td>11/2015</td>
<td>Lydia Masako Ferreira</td>
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<td>Denise de Almeida Mendes Application time for wound dressing following breast augmentation with silicone implants: randomized controlled trial.</td>
<td>05/2013 11/2015</td>
<td>Daniela F. Veiga</td>
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<td>Sarita Mac Cornick Toll-Like receptors gene expression of human keratinocytes cultured of large burn injury.</td>
<td>01/2013 11/2015</td>
<td>Alfredo Gragnani Filho</td>
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<tr>
<td>Mônica Sarto Piccolo Burn specific health scale-brief: Translation into Brazilian Portuguese, cultural adaptation and validation.</td>
<td>01/2013 05/2015</td>
<td>Alfredo Gragnani Filho</td>
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<tr>
<td>Vanessa Yuri Suzuki Eating behavior in women submitted to abdominoplasty.</td>
<td>12/2013 12/2015</td>
<td>Lydia Masako Ferreira</td>
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<tr>
<td>Lília Cristina de Arruda Lymphatic drainage in women undergoing thighs dermolipectomy after bariatric surgery.</td>
<td>11/2013 12/2015</td>
<td>Lydia Masako Ferreira</td>
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<tr>
<td>Fabiana da Silva Augusto Translation, cross-cultural adaptation and validation of the Cardiff Wound Impact Schedule to brazilian portuguese.</td>
<td>12/2013 11/2015</td>
<td>Lydia Masako Ferreira</td>
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<tr>
<td>Tânia Corrêa Miller Effect of omega-3 fatty acid supplementation in skeletal muscle and in the lipid profile in rats submitted to swimming.</td>
<td>12/2013 11/2015</td>
<td>Flávio Faloppa</td>
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<tr>
<td>Mariana Merida Carrillo Negrão Controlled insufflation of carbon dioxide in the viability of random skin flaps of rats.</td>
<td>12/2013 11/2015</td>
<td>Lydia Masako Ferreira</td>
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<td>Marco Antonio Mattar Continuous compression model in fibroblast culture derived from human periodontal ligament.</td>
<td>12/2013 11/2015</td>
<td>Lydia Masako Ferreira</td>
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Student, thesis title | Begin | End | Supervisor
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Luiz José Muaccad Gama  
Single-layer plication for repair of diastasis recti: The most rapid and efficient technique. | 12/2013 | 11/2015 | Fabio Xerfan Nahas

Lilian Baldan Záccaro Augustinho  
Breast Evaluation Questionnaire in breast reconstruction through the use of musculocutaneous flaps of latissimi dorsi and rectus abdominis. | 12/2013 | 11/2015 | Miguel Sabino Neto

Rani da Cunha Moretti  
Dexamethazone preoperative medication – the effects into primary culture of human dental pulp cells. | 08/2013 | 11/2015 | Silvio Eduardo Duailibi

Verônica Chomiski Bicalho Custodio  
Keratinocyte growth factor (KGF) on wound healing gene expression in keratinocytes from burned patients. | 10/2013 | 09/2015 | Alfredo Gragnani Filho

Luciana Aparecida de Sousa Iwamoto  
Demineralization/ decellularization for natural teeth scaffold. | 06/2013 | 05/2015 | Silvio Eduardo Duailibi

Natália Miki Rosário  
Translation into Brazilian Portuguese, cultural adaptation and validation of “The European Organization for Research and Treatment of Cancer – Quality of Life Questionnaire – Bone Metastase 22”. | 06/2013 | 05/2015 | Miguel Sabino Neto

Adriana Corbolan Andrade  
Breast-Q® in the assessment of reduction mammaplasty outcomes. | 08/2013 | 05/2015 | Daniela Francescato Veiga

Rafael Panisi de Campos Meirelles  
Experimental model of radiodermatitis in rabbits. | 06/2013 | 03/2015 | Lydia Masako Ferreira

**International cooperations**

Brown University (USA) – Dr. Jeffry Morgan.
University of Washington (USA) – Dr. Loren H. Engrav.
University of South Florida (USA) – Dr. Paul R. Sanberg.
University of Pittsburg (USA) – Dr. W. P. Andrew Lee.
Tufts University (USA) – Dr. Pamela Crotty Yelick.

**Prizes**

2013 – Prize Richard Caspari – Isakos Congress  
2013 – Honorable Mention Award – Integrator forum of researchers. sexuality in women submitted to increasing mastoplasty – Paulo Afonso M. P. Guimarães / Miguel Sabino Neto.
2013 – ADA Award - APCD – 2nd Place – CIOSP


2014 – Award Victor Spina – Work Best Mama – Student of Master Vidal Warrior.

2014 – Award Ivo Pitanguy – Honorable Mention – Prof. Max Domingues Pereira / Mariana Moraes.


2014 – Best Scientific Work Award – 15th Congress of Knee Surgery – Tomographic assessment of the rotation of components in torah navigated toss prostheses – Shumacher, FC; Debieux, P; Castro, AM; Aihiara, AY; Fernandes, ARC; Queiroz, AAB; Francioci, CES; Luzo, MVM.

2014 – 2nd Place – Free Theme Premium – Poster Category – Influence of operating wound coverage time after increasing mamoplasty in cultural colonization – SBCP – Reginal, MG – Veiga, DF.


2015 – 2nd Place – Awarding Creativity – 52nd Brazilian Congress of Plastic Surgery – SBCP, Sabino-Neto, M.

2015 – 2nd Place – Best Resident – 52nd Brazilian Congress of Plastic Surgery – SBCP, Santos, MTS.

2015 – 1st Place – Award Best Research Work – 52nd Brazilian Congress of Plastic Surgery – SBCP, Gragnani-Filho, A; Isoldi, FC.

2015 – Award Roberto Correa Chen – 52nd Brazilian Congress of Plastic Surgery – SBCP, Isoldi, FC; Ferreira, LM; Noronha, S; Noronha, SC.

2015 – 1st Place – Best Award Scientific Work – 3rd SBRATE Congress, Astur, DC; Bernardes, A; Castro, S; Arliani, GG; Kaleka, CC; Pochini, AC; Cohen, M.

2015 – 3rd Place – Scientific Labor Award – 3rd SBRATE Congress, Arliani, GG; Astur, DC; Lara, PS; Ejinisman, B; Gonçalves, JPP; Cohen, M.

**Patents**

1) Improvement introduced in Calcaneus protector. Developers: Profª. Leila Blanes and Profª. Lydia Masako Ferreira Process number: MU8500119-8


6) Device Valve Mounted in Expansible Endoprostheses Applied in Aortic or Pulmonary Position – Utility Model N. Pi0901411-0 A2. Developer: Domingo M. Breile; G. Agreli; José Honório Palma; Enio Buffolo.

Facilities

Microsurgery Laboratory – Located on the 11th floor/right wing of Research Building I, Rua Pedro de Toledo, 781. Coordinator: An Wan Ching.

Cell Culture Laboratory (keratinocytes, fibroblasts) – Located on the 4th floor/left wing of Research Building I, Rua Pedro de Toledo, 781. Coordinators: Alfredo Gragnani Filho, Lydia Masako Ferreira.


Experimental Surgery and Vivarium – Located at Rua Borges Lagoa, 806. Coordinators: Lydia Masako Ferreira, Miguel Sabino Neto, Bernardo Hochman.

Tissue Engineering and Biomanufacturing Laboratory – Located at the Center for Cellular and Molecular Therapy, Unifesp, Rua Mirassol, 207. Coordinators: Silvio Eduardo Duailibi and Monica Talarico Duailibi.

Skull and Maxillofacial Measurement Laboratory – Located at Rua Borges Lagoa, 806. Coordinator: Max Domingues Pereira

Skin Analysis Laboratory – Located at Rua Botucatu, 591 cj142. Coordinators: Miguel Sabino Neto, Lydia Masako Ferreira.

Burn Treatment Unit – Located on the 14th floor of Hospital São Paulo. Coordinators: Lydia Masako Ferreira, Miguel Sabino Neto, Alfredo Gragnani Filho.
Historical background

Nutrition is a science with interfaces with several areas of knowledge, especially those related to the health sciences. For this reason, the Postgraduate Program in Nutrition of the Federal University of São Paulo – Escola Paulista de Medicine, since its creation in 1991, aims at enhancing the multidisciplinary and interdisciplinary character of the area. It is composed by professors from different academic departments, such as Medicine, Pediatrics, Physiology, Nutrition, and Biology. The interdepartmental nature of the Program contributes to its interdisciplinary character and has greatly enriched scientific interactions and stimulated student integration.

Up to December 2014, the course graduated 210 masters and 119 PhDs of different professional backgrounds, such as nutritionists, medical doctors, physical educators, biologists, biomedical scientists, psychologists, nurses, dentists, speech therapists, physical therapists, chemists, statisticians and pharmacists. Our students come from several Brazilian states and the Program acts to stimulate and support the implementation, by our graduates, of new research centers, in order to diminish the regional disparities in scientific development of the country. In addition, policies have been developed to stimulate national and international cooperation. The Program has also welcomed foreign students from Latin America and Africa and is open to receive students from all countries.

Research focus

Biochemistry and Physiology of nutrition
Studies of the biochemical and physiological repercussions of different diets.

Nutrition in clinical specialties
Nutrition studies in gastroenterology, nephrology, oncology, pediatrics, geriatrics and other specialties, aiming to evaluate the effect of diet or specific nutrients on the genesis and treatment of pathologies, including actions of multiprofessional teams.

Food quality and composition
Nutrients and microbiological analyzes as indicators of food quality, with emphasis in public health.

Health and nutrition in specific population groups
Clinical, dietary, anthropometric, biochemical, socioeconomic and epidemics of specific population groups such as children, adolescents, pregnant women, infants and the elderly.

Selected publications
Barros KV, Carvalho PO, Cassulino AP, Andrade I, West AL, Miles EA, Calder PC, Silveira VL. Fatty acids in plasma, white and red blood cells, and tissues after oral or intravenous administration of fish oil in


Masquio DC, de Piano A, Campos RM, Sanches PL, Carnier J, Corgosinho FC, Netto BD, Carvalho-Ferreira JP, Oyama LM, Nascimento CM, de Mello MT, Tufik S, Dâmaso AR. The role of multicomponent therapy in the metabolic syndrome, inflamma-

Books and chapters


Flávia C Corgosinho et al. Obesity, inflammation, and obstructive sleep apnea: exercise as therapy. In: Modulation of sleep by obesity, diabetes, age, and diet, 2014.


Maria Elizabeth de Sousa Rodrigues. Effects of high-fat diet and fructose on inflammatory process induced by stress and ovariectomy. Supervisor: Cláudia M.P.O. Nascimento.

Marion Schneider Meireles. Effect of the cholecalciferol supplementation on vitamin D-regulatory proteins in monocytes and inflammatory markers of patients on dialysis. Supervisor: Lilian Cuppari.


Patricia Ferreira do Prado Moreira. The impact of vitamin D supplementation on body composition of active older women with overweight and obesity. Supervisor: Maysa S Cendoroglo.

Flávia Campos Corgosinho. Influence of LEPR polymorphisms (rs2767485) in the response of an interdisciplinary treatment for lifestyle change as well in the hyperleptinemia state. Supervisor: Ana Dâmaso.


MSc Thesis (2015)


Belisa Junqueira Souza. Evolution of nutritional status and therapy of patients followed in nutri-
tional support multidisciplinary team. Supervisor: Fernanda Luísa Ceragioli Oliveira.


Fernanda Pinheiro da Silva. Effect of the administration of the pole of euterpe edulis mart on the metabolic consequences related to diet consumption hyperlipidic and hyperercoralism in mice. Supervisor: Lila M. Oyama.

Aline Boveto Santamarina. Effect of green tea extract rich in epigallocatechin-3-gallate ingestion on hepatic metabolic regulators of obese mice induced by high fat diet. Supervisor: Lila M. Oyama.

Fernanda Cassullo Amparo. Validation of the malnutrition and inflammation score as a marker of energy-protein malnutrition and preditor of mortality in patients with chronic renal disease in conservative treatment. Supervisor: Maria Ayako Kamimura Kaneko.

Michelle Thiemi Miwa. Small intestinal bacterial overgrowth, overweight and functional constipation among students at a public school in the city of Santos. Supervisor: Mauro Batista de Morais.

Financial support

Fapesp, CNPq, Capes.

Facilities

Please see at site: http://ppg.unifesp.br/nutricao
Evidence-Based Health
PhD and MSc Degrees

Home page
http://www2.unifesp.br/dmed/medurgencia/

Home page Sucupira

Coordinator
Edina Mariko Koga da Silva

Address
Rua Botucatu, 740 – 3º andar –
Vila Clementino – Cep 04023-900
São Paulo/SP – Brazil

Contact
pgmit.dmed@epm.br
(55 11) 5576-4848 extension 2184

Historical background
The Postgraduate Program in Internal Medicine and Therapeutics was founded in 1996; in 2014 the Program name was changed to Postgraduate Program in Evidence Based Health. The Program aims to promote the application of scientific methods in the clinical area to uncover new knowledge, link academic research with the clinical practice, and increase efficiency by using scientific data to reduce uncertainties. The objectives are production of scientific publications in the clinical area, useful evidence-based syntheses to aid in decision making, development of methodologies for implementation, and understanding of the relationship between science/technology and human health through clinical research of high methodological rigor, with an emphasis on Systematic Reviews and Meta-analyses and Health Technology Assessment.

Research focus

Methodology and development of systematic reviews
Use of review methods including grouping primary studies, extracting the best scientific evidence, and integrating existing information to evaluate issues such as offering subsidies, rational healthcare and consistency of scientific findings across populations.

Methodology for the implementation of evidence-based medicine
Project development and evaluation of clinical research and clinical epidemiology methodology; epidemiological studies, clinical trials, meta-analyses and scientific assessments of therapeutic variations.

Evaluation of diagnostic test accuracy
Technological evaluations of test validity, utility and accuracy to reduce uncertainty and enable options that provide more efficient health systems.

Methodology and implementation of clinical trials
Development and implementation of randomized controlled trials to evaluate the efficacy, effectiveness and safety of therapeutic procedures.

Selected publications


Books and chapters


Grants

Maria Regina Torloni – Low-dose calcium supplementation for prevention of pre-eclampsia: randomized clinical trial. Fundação de Amparo a Pesquisa do Estado do Amazonas


Valter Silva. Via Google Maps to evaluate the environment related to chronic noncommunicable diseases: analytical and meta-analytic study of validity and reproducibility. Supervisor: Maria Stella Peccin.


Hélcio de Abreu Dallari Júnior. Evidence-based medicine and the view of Magistrates in Brazil. Supervisor: Álvaro Nagib Atallah.


MSc Thesis (2015)


Lílian Karla Cunha Dos Reis. Sleep disorders impact in the quality of life of women with systemic lupus erythematosus. Supervisor: Virgínia Fernandes Moça Trevisani


Maiara Martininghi. The nutritional quality of

Luciano Elias Silva. Accuracy of blood pressure measurements at the Hospital São Paulo’s emergency care unit compared to the gold standard. Supervisor: Gilmar Fernandes do Prado.

International cooperations

Karla Soares-Weiser MD, MSc, PhD – Deputy Editor-in-Chief, Cochrane and Cochrane Innovations – Cochrane Central Executive.

Julian PT, Higgins BA (Hons), PhD Cochrane Central Executive

Tamara Otze MD PhD – Universidad de la Frontera, Chile.

Financial support

Fapesp, Capes, CNPq.

Facilities

Please see: http://www2.unifesp.br/dmed/medurgencia/
Collective Health
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/saudecoletiva

Home page Sucupira

Coordinator
Suely Godoy Agostinho Gimeno

Address
Rua Botucatu, 740 – 4º andar –
Vila Clementino, Cep 04023-062
São Paulo/SP – Brazil

Contact
ppg.saudecoletiva@unifesp.br
(55 11) 5576-4848 extension 1879

Historical background

Previously known as the Postgraduate Program in Epidemiology (established in 1988), the Postgraduate Program in Public Health was approved by Capes in 2005. In addition to Epidemiology, the Program now includes studies in Social Sciences and Humanities in Health, and Policy, Planning and Management in Health.

The main objectives of the Program are to train students to act as teachers or researchers in public health area, to qualify professionals already working in the area and contribute to the formation of new research centers in the public health area.

Research focus

**Epidemiology**: epidemiology of human aging, life cycle and chronic diseases; indigenous health and ethno pharmacology; epidemiology of drug use; mindfulness and health promotion.

**Social Sciences and Humanities in Health**: body, health and disease; technology and health; health and religiosity.

**Policy, Planning and Management in Health**: process and work management and health; publicly funded health care models.

Selected publications


Alex Antonio Florindo et al. Association of knowledge, preventive counseling and personal health behaviors on physical activity and consumption of fruits or vegetables in community health workers. BMC Public Health (Online), 15: 344, 2015.

Books and chapters


Grants

International grants:
- Use of illicit drugs. Brazil-Cuba Agreement. (Financial support: Capes) – Prof. Elisaldo Carlini;
- Urbanicidade, trauma na infância e psicopatologia comórbida na adolescência no Brasil e no Chile / Urbanicity, childhood trauma and adolescent comorbid psychopathology in Brazil and Chile – Agência Financiadora: Columbia University’s President’s Global Innovation Fund, Valor: US$ 81.168,50 – Profa. Van Der Meer Sanchez;
- The Pathologies of Modernity and the Remedies from Humanities. – Agências Financiadoras: Fapesp e King’s College London, UK – Prof. Dante Gallian.


Antonio Carlos Rossi. “Reasons and unreason of the heart: visions and meanings about heart transplantation from oral narratives of an interdisciplinary health team”. Supervisor: Dante Marcello Claramonte Gallian.


Jacqueline Izumi Sakamoto. “Laboratory of Humanities as Critical Paidéia: aesthetic path in confrontation with the notion of Perfectibility as humanizing dynamics in Health”. Supervisor: Dante Marcello Claramonte Gallian.


Sofia Pereira Madeira. “Sexual and reproductive behavior of indigenous women in Alto Xingu, Mato Grosso, Brazil”. Supervisor: Rebeca de Souza e Silva.

Tassia Ferreira Santos. “Unprovoked and insecure abortion 20 years after ICPD, Cairo, 94: prevalence and sociodemographic characteristics – Favela México 70, São Vicente – São Paulo, Brazil”. Supervisor: Rebeca de Souza e Silva.

MSc Thesis (2015)

Adriana Teixeira Pereira. “Communication Lab: The perception about the relevancy of study of communication for students in 2nd year of Medicine at Unifesp”. Supervisor: Prof. Dr. Dante Marcello Claramonte Gallian.


Carlos Adriano Plá Bento. “Chronic illnesses and functional incapacity in the elderly”. Supervisor: Prof. Dr. Luiz Roberto Ramos.


Isabela Pellacani Pereira das Posses. “Adherence to treatment for tuberculosis: An ethnography at
Clemente Ferreira Institute – São Paulo/SP”. Supervisor: Prof. Dr. Pedro Paulo Gomes Pereira.

Lissandra Andion de Oliveira. “Micro regulatory process in a basic health unit and the production of care”. Supervisor: Prof. Dr. Luiz Carlos de Oliveira Cecílio.

Marcelo Batista de Oliveira. “Mindfulness and self-compassion levels correlated with burnout levels among primary healthcare professionals.” Supervisor: Prof. Dr. Marcelo Marcos Piva Demarzo.


Sabrina Pessoni Pimenta. “Dietary density energy and its relation with the presence of non-comunicable diseases in elderlies”. Supervisor: Prof. Dr. Luiz Roberto Ramos.

Sonia Maria de Melo. “Not always yes, not always no; encounters between workers and users at a basic health unit”. Supervisor: Prof. Dr. Luiz Carlos de Oliveira Cecílio.

Tarcísio de Oliveira Barros Braz. “Space as a fundamental dimension in the production of care”. Supervisor: Prof. Dr. Luiz Carlos de Oliveira Cecílio.


Vinicius Terra Loyola. “Validity evidence of the FFMQ in Primary Health Care professionals and correlations with self-compassion measures”. Supervisor: Prof. Dr. Marcelo Marcos Piva Demarzo.

International cooperations

Institution – Collaboration with

La Trobe University, Australia – Prof. Pedro Paulo de Oliveira Gomes
Universidad de Zaragoza – Prof. Marcelo Demarzo
Saint Louis University (USA) – Luiz Roberto Ramos
Columbia University (USA) – Profa. Van Der Meer Sanchez
Ghent University (Belgium) – Prof. Marcelo Demarzo

Financial support

Fapesp, CNPq, Capes, Brazilian Ministry of Health.

Other information

The Postgraduate Program in Public Health has awarded more than 180 Master and PhD degrees since its foundation. Currently the Program has approximately 80 Master and PhD students, undergraduates, visiting professors and 10 Post-Doctoral fellows.
Translational medicine
PhD and MSc Degrees

Home page
http://ppg.unifesp.br/medicinatranslacional

Home page Sucupira

Coordinator
Dulce Elena Casarini

Address
Rua Pedro de Toledo, 650 – 2º andar – Vila Clementino – Cep 04039-002 São Paulo/SP – Brazil

Contact
ppg.medicinatranslacional@unifesp.br
(55 11) 5549-6441 / 5576-4228

Historical background

The Postgraduate Program in Translational Medicine was established four and a half years ago. The Program is part of a major restructuring of clinical and biomedical research at the Paulista School of Medicine (EPM) Unifesp. It is a comprehensive, multidisciplinary Program that focuses on translational research and generation of innovation applied to health. It represents a new approach, a departure from the traditional separation of medical specialties, disciplines and departments. The Program was the result of a long progressive discussion process within the Department of Medicine of EPM Unifesp, focusing on the social and intellectual role that those with graduate level scientific training should take in institutional, regional and national arenas. The establishment of multidisciplinary and multi-professional Programs capable of promoting understanding and development of cutting-edge methodologies in the study of biological systems and pathological processes was agreed on as a fundamental paradigm.

This new Program has allowed an unprecedented level of collaboration within the Institution, involving faculty researchers with extensive experience, including physicians and scientists from different sub-specialties, who bring with them well-defined lines of research and secure funding from national and international agencies. The Program quickly emerged as a unifying center of excellence, and a model of productive and creative reorganization of knowledge within the Unifesp. The restructuring process is still in progress, and will eventually extend to administrative and decision-making bodies.

The main objective of the Postgraduate Program in Translational Medicine is to prepare individuals from various areas related to Health Sciences to pursue original research focused on relevant clinical problems in the Brazilian population who can address biomedical research in a vertical perspective that brings together molecular, cellular, and systemic aspects, and in a horizontal perspective that involves multiple disciplines. The ultimate goal is to integrate findings from basic science and clinical studies to formulate concrete proposals for changes in medical practice to meet the needs of modern Brazilian society.

Research focus

To meet its goals, the Program has developed thematic areas of research that allow translation of basic science and pre-clinical findings to effective application in patients and communities. Research is grouped under the following six areas of concentration:

Molecular and cellular mechanisms of disease
The role of these mechanisms in multi-system organic disorders.

Development of new diagnostic methods, including biomarkers, bio-imaging, and functional methods.
Identification and epidemiological characterization of population-based differences in disease susceptibility.

Analytical chemistry applied to biology and health.

Human and animal physiology and its relationship to sports.

Selected publications


De Sandes-Freitas TV, Felipe CR, Campos ÉE, de...

Books and chapters

2013 (32 publications) selected publications:
Cardiology in the emergency room an approach to clinical – Series emergencies in Brazilian clinics – Renato Delascio Lopes.
Thyroid cancer – Rui Monteiro de Barros Maciel.
Pocket First Aid Guide – Gilmar Meadow Fernandes.
Importance of Renin – Angiotensin System in diabetic complications – Maria Teresa Zanella.
Systemic lupus erythematosus – Emilia Inoue Sato.
Mechanisms of Immunological Renal Disease – Alvaro Pacheco e Silva Filho.
Body Peeling – Edileia Bagatin.
Fetal malnutrition and late development in cardiovascular diseases – Maria do Carmo Pinho Franco.
Restless leg syndrome and movement disorders related to sleep – Gilmar Fernandes do Prado.
To Transplante or not – Jose Osmar Medina de Abreu Pestana

2014 (49 publications) selected publications:
Profile analysis of multiple samples – Analy Salles de Azevedo Melo.
The bone cells and their inter-relationship in bone physiology – Marise Lazaretti Castro.
Considerations of acting speech therapy in dysphagia patients with invasive dependent mechanical ventilation – Flavia Ribeiro Machado.
Perioral Dermatitis – Edileia Bagatin.
Optical microscopy and surface thermodynamics of janus emulsions – Gislaine Ricci Leonardi.
Tuberculosis and skin atypical mycobacteriosis – Jane Tomimori

2015 (38 publications) selected publications:
Changes in urinary tract and lithogenesis – Nestor Schor.
Abdominal Aortic Infrarenal Aneurysm – Armando de Carvalho Lobato.
Stone-breaking Tea (Phyllanthus Niruri) – Mirian Aparecida Boim.
Ankylosing spondylitis – Jamil Natour.
Neurological emergencies – Renato Delascio Lopes.

Grants


Young Researcher Grant Fapesp 2010/01404-0. Period: 01/05/2011 to 30/04/2016 Recipient: Richard Gama Landgraf. In vivo and in vitro studies on the participation of leptin in different models of lung inflammation: inflammatory mediators and signaling pathways involved.
Thematic Project Research Grant Fapesp 2012/20401-4. Period: 01/04/2012 to 30/03/2017. Recipient: Reinaldo Salomão (Coordinator), Ana Cristina Gales (Principal Investigator). Sepsis: integrating basic research and clinical research II.

Regular Research Grant Fapesp 2014/50294-3. Period: 01/02/2015 to 30/01/2017. Recipient: Arnaldo Lopes Colombo (Coordinator), Ana Cristina Gales (Principal Investigator). Sepsis: integrating basic research and clinical research II.


Katya da Silva Patekoski – Prevalence of Gram-negative bacteria resistant to antimicrobials and Escherichia coli carrying the virulence genes in the intestinal microbiota of healthy individuals. Supervisor: Antonio Carlos Pignatari.

Marco Alexandre Dias da Rocha – Contribution to the knowledge on acne in adult women through randomized and comparative clinical study, laboratory and quality of life. Supervisor: Ediléia Bagatin.


Carolina Chiusoli de Miranda Rocco – Segmented distribution of lean body mass in patients with chronic obstructive pulmonary disease: Supervisor: Jose Roberto Jardim.

Laura de Sena Nogueira Maehara – Pemphigus foliaceus: a comparative analysis of epidemiological, clinical and immunological aspects in two populations, Brazilian and Dutch. Supervisor: Jane Tomimori.

Danielle Ioshimoto Shitara do Nascimento – Retrospective study on the analysis of mutations in melanoma DNA extraction and melanocytic nevus associated. Supervisor: Ediléia Bagatin.


MSc Thesis (2015)


Rodrigo Vanerson Passos Neves – Resistance training prevents high blood pressure and increases muscle strength in spontaneously hypertensive rats (SHR). Supervisor: Maria do Carmo Pinho.

Ticiana Paes Batista da Silva – Interrelations between hypoglycemia and cardiovascular autonomic dysfunction in Type 1 Diabetes Mellitus. Supervisor: Sergio Atala Dib.


Anderson Yassuyuki Nose – Analysis of the expression of apolipoprotein C-III in plasma of renal transplanted patients. Supervisor: Dulce Elena Casarini.

Maria Cibelle Pauli – Iontophoresis effect on permeation and retention of fluoride in enamel with carious lesion. Supervisor: Gislaine Ricci Leonardi.

Claudia Teresa Carvente – Analysis of fecal calprotectin and lactoferrin biomarkers in patients with chronic pancreatitis of alcoholic etiology: Supervisor: Maria Lúcia Cardoso Gomes Ferraz.


Karla Carlos – Willis-Ekbom disease or syndrome of agitated lower limbs? Supervisor: Gilmar Meadow Fernandes.

Bianca Lima Vilela – Effects of an educational program and exercise at work in parameters related to the health workers of a chemical plant, a randomized controlled trial. Supervisor: Marília dos Santos Andrade.


Rodrigo Pessoa de Farias – Molecular characterization of human T lymphotrophic virus cells, complete genome and part through next-generation sequencing by the Illumina platform. Supervisor: Sabri Saeed Mohamed Ahmed Al-Sanabani.

International cooperations

The Program faculty maintain intense and productive collaborations with Brazilian researchers and international researchers from important institutions around the world:

North America

Aaron Diamond AIDS Research Center, New York, USA; Baylor College of Medicine, Houston, Texas, USA; Beth Israel Deaconess Medical Center – Teaching Hospital of Harvard Medical, Boston, MA, USA; Blood Centers of Pacific, San Francisco, CA, USA; Broad Institute, Harvard Medical School, Boston, USA; Center for Adaptation Genetics and Drug Resistance, Tufts Center for the Study of Drug Development, Tufts University, Medford, MA, USA; Centers for Disease Control and Prevention, Atlanta, Georgia, USA; Centre for Exercise Science and Medicine, University of South Carolina, USA; Department of Lipids, New England Medical Center, Boston, MA, USA; Departamento de Hipertensão e Aterosclerose da University of California, San Diego, USA; Division of Pediatric Nephrology, Louisiana State University Health Sciences Center, Louisiana, USA; Harvard AIDS Institute, Boston, MA, USA; Immunobiology Research Center, Department of Surgery, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA; Irwin Memorial Blood Center, San Francisco, California, USA; Johns Hopkins University School of Medicine, USA; MD Anderson Cancer Center, Houston, Texas, USA; Memorial Sloan-Kettering Cancer Center, New York, NY, USA; National Institute Health – NIH, USA; Oregon Health and Science University, Portland, Oregon, USA; Stanford University, Stanford, California, USA; The Cleveland Clinic Cole Eye Institute, Cleveland, Ohio, USA; The Henry M. Jackson Foundation, Rockville & Walter Reeds Memorial Hospital, MD, USA; Universidade da California, San Francisco, California, USA; Universidade de Iowa, Iowa, USA; Universidade do Texas, San Antonio, Texas, USA; University of Akron, USA; University of California Berkeley, Berkeley, USA; University of California in San Diego, California, USA; University of Massachusetts Amherst,
Amherst, MA, USA; University of Massachusetts Worcester, Worcester, MA, USA; University of Pennsylvania, Philadelphia, PA, USA; University of Pittsburgh, Pittsburgh, PA, USA; University of Washington, Washington, DC, USA; University of Wisconsin, Madison, USA; Virginia Commonwealth University, Medical College of Virginia, Virginia, USA; Hypertension and Vascular Research Center, Wake Forest Baptist Health, Wake Forest, Winston Salem, USA; University of British Columbia, Vancouver-Canadá and University of Calgary, Alberta, Canada.

Europe
University of Bristol, Bristol, Inglaterra; Laboratoire d’Immunologie, Faculté de Médecine de Tours, France; College de France, Institut National de La Santé Et de La Recherche Médicale, Paris, France; University of London, London, UK; Universidade de Liverpool, Liverpool, UK; Instituto Gulbenkian de Ciência, Portugal, Universidade do Porto, Portugal; Hospital de Astúrias, Astúrias, Espanha; Institut National de la Sante et Recherche Medecale (INSERM), France; Hospital Le Kremlin Bicêtre, Université Paris XI, France; Instituto Cantonale di Microbiologia, Bellinzona, Switzerland; Centre Médical et Universitaire, Université de Genève, Geneva, Switzerland. Bioinformatics and Molecular Evolution Laboratory of the University of Vigo, Spain; Hospital Universitario San Rafaelle de Milão, Italia; Servicio de Citometria y Centro de Investigacion del Cancer, Universidade de Salamanca, Espanha; Instituto Gulbenkian de Ciência, Oeiras, Portugal. Instituto Pasteur, Paris, França; University of Glasgow, Glasgow, Scotland, UK; University of Liverpool, Liverpool, UK; Instituto de Morfologia da Universidade Carolinska, Praga, República Tcheca.

Asia and Oceania
Laboratory of Biometry and Bioinformatics, Postgraduate School of Agriculture and Life Sciences, University of Tokyo, Japan; Centre for Reproductive Health, The University of Adelaide, Australia; Karolinska Institutet, Estocolmo, Sweden; The Chinese University of Hong Kong, Hong Kong; National University of Singapore, Malasia.

Latin America
Center of Reproductive Biotechnology, Department of Preclinical Sciences, Faculty of Medicine, Universidad de La Frontera, Temuco, Chile; Centro de Reprodutive Biotechnology, Universidad de La Frontera, Chile; Departamento de Fisiologia da Pontificia Universidade Católica do Chile; Infection Control and Hospital Epidemiology Department at Bernal Medical Center, Buenos Aires, Argentina; Educación Médica e Investigaciones, Clínica “Norberto Quirno”. Instituto Universitario CEMIC. IUC. Buenos Aires, Argentina; Hospital de Clinicas de Montevideo da Universidade da República do Uruguai, Uruguai.

Prizes
Ana Cristina Gales
2014 – Women in Science Prize, Elsevier Award / Capes.

Angelo A. V. Paola
2014 – IX Health Award – Category: Health and Prevention, Editora Abril.

Flavia Ribeiro Machado

José Osmar Medina de Abreu Pestana
2014 – LIDE Award Health 2014, Health Forum and Wellness.
2015 – Best Free Theme Award – Second Place, VI Brazilian Congress of Densitometry Osteoporosis and Osteometabolismo – BRADOO.

Nestor Schor
2014 – SLANH President’s prize – for his valuable contribution to the development of Nephrology in Latin America.

Patents
Dulce Elena Casarini. (Coord, Nephrology, Unifesp/Fapesp) Patent: Angiotensin Converting

Financial support

CNPq, Capes, Fapesp.

Facilities

The Program makes use of multiuser laboratories in the Nephrology, Rheumathology, Endocrinology, Infectious Disease Divisions. Please see the division websites for a complete listing.
Technology and Attention to Health
MSc Degrees

Home page
http://www.unifesp.br/campus/sao/meparem/

Home page Sucupira

Coordinator
Ivaldo da Silva

Address
Rua Pedro de Toledo, 650 – 2º andar –
Vila Clementino – Cep 04039002
São Paulo/Sp – Brazil

Contact
meparem@unifesp.br
(55 11) 5576-4848 extension 1568

Historical background

Created in 2011, the Professional Master Program in Technology and Attention to Health is associated with medical residency Programs. Its purpose is to bring greater efficiency to the technical and scientific training of residents, developing their skills and critical thinking for applied research. Thus we intend to create culture of continuing education for the solution of local, regional and national problems. The Program is organized into two focus areas, health promotion and health technology, and seeks to improve the training of physicians in medical residency through courses in scientific methodology, bioethics, biostatistics and public health policies with focus on best practices. In its first year 20 medical residency Programs joined the initiative, bringing 70 students, under the guidance of 58 teachers, almost all of whom were permanent faculty. In 2012 there were 46 additional students enrolled, and the number of accredited supervisors increased to 75. These supervisors are intensely involved in curricular activities specific to the undergraduate medical course of the institution.

Research focus

Family and community medicine
Public health policy
Women’s health
Adult and elderly health
Evidence Based Health Practices
Diagnostic and therapeutic technologies
Organ transplantation

Selected publications


Franco MC; Nakao FS; Paul GA et al. Proposta de Modelo de Atendimento da Hemorragia Digestiva Alta para o Hospital Universitário da Unifesp/Epm. Arquivos de Gastroenterologia. In: Anais da XII Semana Brasileira do Aparelho Digestivo 2013; volume 50 p. 239

Salvadori PS; Costa DMC; Romano RFT et al. Quando a fase de equilíbrio pode ser suprimida nos exames de tomografia computadorizada de abdomen? Colégio Brasileiro de Radiologia e Diagnóstico por Imagem 2013; volume: 46(2) p. 65-70.

Costa DMC; Salvadori PS; Monjardim RF et al. When the non-contrast-enhanced phase is unnecessary in abdominal computed tomography scans? A retrospective analysis of 244 cases. RB. Radiologia Brasileira 2013; volume: 46, p. 197-202.

Books and chapters

Doenças malignas da mama, Gil Facina, 2013.
Síndrome das pernas inquietas e transtornos do movimento relacionados com o sono, Gilmar Fernandes do Prado, 2013.
Síndromes hiperandrogênica e hiperprolactinêmica, Ivaldo da Silva, 2014.
50 Lesões no tênis, Carlos Vicente Andreoli, 2015.
65 Esportes a remo, Carlos Vicente Andreoli, 2015.

MSc Thesis (2015)

Denise Lima de Medeiros. Treatment of primary chronic insomnia with the use of biofeedback techniques: Systematic review and metaanalysis. Supervisor: Gilmar Fernandes do Prado.
Bruno Ferreira Funchal. Description of a series of patients with cerebral artery malignant ischemic stroke treated with decompressive craniectomy with a focus on monitoring intracranial pressure. Supervisor: Gisele Sampaio Silva.
Carla Bezerra Lopes Almeida. Depression-induced depression in elderly: Validation of the psychometric properties of the brazilian version of the “Geriatric Emotional Assessment of Pain” – “GEAPb”. Supervisor: Fania Cristina dos Santos.
Anderson de Aquino Santos. Mechanical evaluation of the tibial fixation of the lateral posterior band in the reconstruction with double band of the anterior cross ligament with and without interference screw. Supervisor: Carlos Eduardo da Silveira Franciozi.


Francisco Bazilio Nogueira Neto. Recent start buzz associated with sudden neurosensorial hearing loss. Supervisor: Juliana Maria Ferraz Sallum.

Julliana Lianzza Fernandes Silva. Individualized evaluation of the items of the abbreviated geriatric depression scale. Supervisor: Anna Maria Zaragoza Gagliardi.


Vanessa Akemi Moromizato Hashimoto. Evaluation of the association between metabolic syndrome and cognitive compromise in a coule of longevo. Supervisor: Clineu de Mello Almada Filho.


Fernanda Barros Bittar. Correlation between data obtained from a solar exposure questionnaire and the series levels of 25-hydroxivitamin D in population of young people and elderly, caucasoides, of the city of Sao Paulo, during the summer and winter 2015. Supervisor: Vera Lucia Szejnfeld.

Mirella Medeiros Monteiro. Study on etiology and the functional status of hepatic cirrose carriers at a reference service in hepatology. Supervisor: Roberto Jose de Carvalho Filho.


Artur Yudi Utino. Correlation of residual devia-
Historical background

The Professional Master Program in Ophthalmology and Visual Sciences was established in 2013. This Program aims to improve professional experience in the areas of ophthalmology and visual sciences, promoting practical qualification based on transfer of technical expertise, instruction in best practices in research, and thorough analysis of relevant scientific literature. As with all Professional Masters programs, this Program promotes: 1) the development of activities and technical-scientific work on issues of public interest; 2) the capability to operate in public and private agencies, companies, cooperatives and NGOs; 3) sensitivity to the economic market and demand for goods and services; 4) the economic and cultural development of the country; 5) compliance with the Brazilian industrial policy; 6) specificity and reproducibility of scientific and technological knowledge; 7) collaboration between universities and industry. The specific goals of this Program are to train professionals who will be able to develop new approaches to allow and promote inclusion of people with visual disabilities and to develop research and assistive products and services for people with visual impairment. A multidisciplinary approach is necessary to achieve these goals. Therefore supervisors in the Program come from a variety of professional backgrounds, including physical educators, architects, ophthalmic technologists, information technologists, nurses, occupational therapists, orthoptists, biologists and ophthalmologists. Students in the Program come from similarly diverse backgrounds.

Research focus

1) **Telemedicine**, focusing on new technologies in image transmission networks and clinical data, following specialized remote support. Research topics include image capture methods and analysis software, as related to diagnosis and decision support for eye disease.

2) **Cellular Medicine and Molecular Diagnostics**, focusing on development of techniques for the identification and monitoring of eye inflammation and infection etiologic agents. Specific research areas include structural repair and optics of the anterior surface of the eye and attachments globe with tissue bank development, and advanced techniques of laboratory diagnosis in inflammatory and infectious processes of the eyeball.

3) **Clinical Research and Technology Management**, focusing on development of research, products and services for new diagnostic and therapeutic technologies, and management of ophthalmic practice. Specific research topics include clinical research and drug economy applied to new diagnostic methods and treatment for eye diseases, assistive technology, management of ophthalmic practice in Federal Institutions of Higher Education and sports ophthalmology (including adapted sports and rehabilitation of the visually impaired).
Selected publications


Books and chapters

Eduardo Rodrigues Buchele.

Jose Alvaro Pereira Gomes.

Eliana Chaves Ferretti.

Alagoas Sugar Hospital: Architecture and Health Care – 50 Years of History.
Marcia Monteiro.

Norma Allemann.

MSc Thesis (2015)


Cristina Akahoshi Birth – Analysis of strategies for recruitment of volunteers for clinical trials patients. Supervisor: Cristina Muccioli.


Priscila Mariano de Moura – Retinal Ischemia and Thickened choroid in Microalbuminuric Type 1 Diabetes Mellitus Patients with Minimal Fundus Changes. Supervisor: Eduardo Rodrigues Buchele.

International cooperations

Han University of Applied Sciences, Netherlands – Dr. Yvonne Herkeens.

Prizes


Tiago dos Santos Silver: ARVO – International Travel Grant in 2013 for the work “Use of Optical Coherence Tomography in Clinical Practice: Does it Influence the Decision of Diagnostic Glaucoma Specialists and Non-specialists?”.

Other information

In July 2015, the Program’s management division organized a symposium on “Intrapreneur-
ship”, including presentations from graduate students in the Department of Entrepreneurship, to explore ways to improve support processes in Unifesp environments.

In October 2015 the program’s sports ophthalmology division promoted the event “IV SOE – Ophthalmology Symposium Sports – The Multidisciplinary Eye Health in Sports – 8 years of Action and Research”. Program students, graduates, and faculty participated, as well as professors from Unifesp and other institutions of higher education and interested members of the public.