Summary of Activities by Albert Einstein Staff Researchers

**Adriana B. Conforto, MD, PhD**
Neurologist, fellowship in Stroke Rehabilitation, NINDS/NIH; fellowship in Transcranial Magnetic Stimulation,
- Researcher at IIEP/HIAE and Inselspital/University of Bern, and Professor of Neurology at FMUSP
adriana.conforto@einstein.br
**Research interests:** neuromodulation and mechanisms of motor recovery in stroke; robot-aided therapy; home-based rehabilitation.

**Ana Cristina Carvalho de Matos, MD, PhD**
PhD in Nephrology, UNIFESP,
- Medical Coordinator of the HIAE Transplant Program
accmatos@einstein.br
**Research interests:** renal transplant and dialysis, transplant management with focus on validation of new medical protocols and product development

**Andrea Laurato Sertie PhD**
PhD in Molecular Biology/Human Genetics, IBUSP, Post-doc at Dept. Developmental Biology, University of Toronto, young Investigator Award FAPESP (2008-2010)
- Researcher at IIEP
andrea.sertie@einstein.br
**Research Interests:** Cellular and molecular mechanisms underlying Autism Spectrum Disorders (ASD); Induced pluripotent stem cells (iPSCs); PI3K-mTOR and Reelin-Dab1 signaling pathways in ASD; Complement system in ASD.

**Antonio Eduardo Pesaro, MD, PhD**
PhD in Cardiology, FMUSP,
- ICU physician and researcher at HIAE
antonioepp@einstein.br
**Research interests:** atherosclerosis, vascular calcification, acute coronary syndromes

**Ary Serpa Neto, MD, PhD**
Ph.D. in Pneumology, FMUSP, fellowship and now Associate Researcher at Academic Medical Center, University of Amsterdam, member of The PROtective VEntilation NETwork (www.provenet.eu)
- ICU physician and researcher at HIAE,
ary.neto2@einstein.br
**Research Interests:** lung injury caused by mechanical ventilation, i.e., ventilator-induced injury to lung cells and lung tissue, to the lungs as a complete organ and also to distant organs, new mechanical ventilation strategies - several of them developed in the laboratory - for preventing or treating mechanical ventilation-induced lung injury.
**Birajara Soares Machado, PhD**  
PhD in Physics at Theoretical Physics Institute, UNESP  
birasm@gmail.com  
- Neuroscientist and Researcher of the Big Data Analytics Initiative at HIAE  
**Research Interests:** brain connectivity analysis, EEG, EEG&fMRI, epilepsy, graph theory, machine learning techniques and big data.

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**Celso M. Rebello, MD PhD**  
Ph.D. in Pediatrics, FMUSP, neonatologist, fellowship at University of California  
- Researcher at IIEP/ HIAE  
celso.rebello@einstein.br  
**Research Interests:** Pulmonary surfactant, resuscitation and manual ventilation of preterm infants in the delivery room, mechanical ventilation in neonatology, and strategies for non-invasive ventilation in the newborn.

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**Carla de Azevedo Piccinato, DVM PhD**  
PhD in Endocrinology-Reproductive Physiology at University of Wisconsin - Madison  
- Visiting Researcher at IIEP working closely with OBGYN Unit at HIAE (Women’s Health Program)  
carlaap@einstein.br  
**Research Interests:** ovarian physiology, steroid hormone metabolism and gene expression in steroid target tissues (ovary, endometrium, and liver). Research projects in endometriosis and mesenchymal stem cell senescence.

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**Cristóvão L. P. Mangueira, MD PhD**  
PhD in Pathology, FMUSP,  
- Manager of the Clinical Laboratory at HIAE  
cristovao.mangueira@einstein.br  
**Research Interests:** Immunology with a focus in autoimmunity, Laboratory Medicine and Management, Clinical Pathology

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**Eliane Antonioli, PhD**  
PhD in Structural and Cell Biology, UNICAMP,  
- Researcher at IIEP/HIAE associated with the Orthopedics Unit  
eliane.antonioli@einstein.br

**Research Interests:** Ageing with special focus in osteoarthritis, cell therapy, and biomaterials for cartilage regeneration

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**Elisa Harumi Kozasa, PhD**  
PhD in Psychobiology, UNIFESP, fellow of the Mind and Life Institute  
- Researcher at IIEP/HIAE  
elisa.harumi@einstein.br
**Research Interests**: well-being, performance, contemplative practices (meditation, yoga effects), neuroimaging

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**Eliseth Ribeiro Leão, BSN PhD**  
PHD in Health Sciences, post-doc University Marc Bloch, Strasbourg, France,  
- Coordinator of the Healthcare Research Management Office at HIAE and Researcher at IIEP/HIAE  
eliseth.leao@einstein.br  
**Research Interests**: Pain management, complementary therapies, well-being, Art&Science, self-management

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**Érika Bevilaqua Rangel, MD, PhD**  
PhD in Nephrology, UNIFESP, post-doc at Interdisciplinary Stem Cell Institute, Un. of Miami,  
- Researcher at IIEP and Assistant Professor of Nephrology at UNIFESP  
erikabr@einstein.br / erikabr@uol.com.br  
**Research Interests**: kidney regeneration, diabetic nephropathy, transgenic mice and animal models, stem cell therapy, translational medicine

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**Fábio Gazelato de Mello Franco, MD PhD**  
PhD in Cardiopneumology, FMUSP  
- Researcher at IIEP/HIAE  
ffranco@einstein.br  
**Research Interests**: Ageing, disability, predictors of incapacity in ambulatory and hospital settings, relationships between vascular diseases and cognition.

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**Fábio Sândoli de Brito Junior, MD, PhD**  
PhD in Medicine (Cardiology), FMUSP,  
- Medical Coordinator of Cardiovascular Intervention at HIAE  
fabio.cardiol@gmail.com / fabio.brito@einstein.br  
**Research Interests**: Structural heart disease, Bioresorbable vascular scaffolds

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**Gabriel Grizzo Cucato, PhD**  
PhD in Physical Education and Sports, EEFEUSP  
- Visiting Researcher at HIAE  
gacucato@gmail.com  
**Research Interests**: Ageing and physical activity, exercise physiology, intermittent claudication.
José Eduardo Levi, PhD
PhD in Microbiology, FMUSP, Virologist working in the field of molecular diagnostics applied to blood transfusion
- Visiting Researcher at IIEP/HIAE
hpv001@einstein.br
Research Interests: screening of blood donations for arboviral RNA (Dengue, Chikungunya and Zika) and establishment of normal values of circulating cell-free DNA in plasma from blood donors by gender and age.

Jose Mauro Kutner, MD, PhD
PhD in Hematology, FMUSP
- Manager of Dept. Hemotherapy and Cell Therapy at HIAE
jose.kutner@einstein.br
Research Interests: Blood Transfusion, Blood Stem Cells, Multiple Myeloma

Karina Griesi Oliveira, PhD
PhD in Genetics/Evolutionary Biology, IBUSP, and at University of California - San Diego,
- Visiting Researcher at IIEP
karina.griesi@gmail.com
Research Interests: In vitro modelling of neuronal diseases using induced pluripotent stem cells with a focus on gene expression analysis, genetics of autism

Karina Inacio Ladislau de Carvalho, PhD
PhD in Infectious Diseases, UNIFESP and at University of California- San Francisco
- Researcher at IIEP
karina.ladislau@einstein.br
Research Interests: Emerging infectious diseases and autoimmune diseases

Lionel Fernel Gamarra, PhD
PhD in Physics, IFUSP,
- Researcher at IIEP
lionel.gamarra@einstein.br
Research Interests: Bionanotechnology for diagnostic and/or treatment of neurological diseases, cell therapy, Development of new nanostructured biomaterials

Luciana C Marti, PhD
PhD in Biotechnology, ICBUSP, post-doc in Immunology at Duke University,
- Researcher at IIEP
luciana.marti@einstein.br
Research Interests: Immunological mechanisms and cellular interactions in inflammatory and hematological diseases
Luciana Diniz Nagem Janot de Matos, MD PhD  
PhD in Cardiology, FMUSP,  
- Member of the Rehabilitation Center at HIAE and Researcher at HIAE  
lucianajanot@einstein.br  
**Research Interests**: Ageing, exercise physiology, Sports Cardiology

Luis Otavio Caboclo, MD PhD  
Neurologist, FMUSP, PhD in Neurology/ Neurosciences, UNIFESP, Ex-Fellow at Clinical Experimental Epilepsy Dept., Institute of Neurology, University College London, Medical  
- Coordinator of Neurophysiology at HIAE  
luis.caboclo@einstein.br  
**Research Interests**: clinical epilepsy; epilepsy surgery; clinical neurophysiology; ICU EEG; *status epilepticus*

Marcel Liberman, MD PhD  
PhD in Cardiology, FMUSP,  
- Researcher at IIEP and Cardiologist at Coronary Unit, HIAE  
marcel.liberman@einstein.br  
**Research Interests** vascular biology, vascular calcification, smooth muscle cells differentiation

Marcelo Costa Batista MD PhD  
PhD in Nephrology, UNIFESP,  
- Researcher at IIEP/HIAE (Clinical and Experimental Nephrology), Professor of Nephrology at UNIFESP and Tufts University,  
marcelo.cbatista@einstein.br  
**Research Interests**: lipid metabolism related to the inflammatory response in critically ill patients and in patients with metabolic syndrome, as well as, in the evaluation of pleiotropic effects of lipid-modifying drugs in this context.

Marcelo Katz, MD PhD  
PhD in Cardiology, FMUSP, MHS, Master of Health Sciences in Clinical Research - Duke University,  
- Researcher at HIAE  
mkatz@einstein.br  
**Research Interests**: behavioral cardiology, social theories and cardiovascular disease, prevention of cardiovascular disease, health economics
**Marcelo Marcos Piva Demarzo, MD PhD**  
PhD in Pathology, FMUSP, post-doc in Mindfulness and Healthcare at University of Zaragoza,  
- Researcher at IIoP/HIAE, Professor at UNIFESP, Un. Zaragoza and Harvard Un., Senior Fellow of International Primary Care Research Leadership Programme (Dept. Primary Care Health Sciences, Un. of Oxford), Director of the Brazilian Centre for Mindfulness and Health Promotion (“Mente Aberta”). [http://www.mindfulnessbrasil.com](http://www.mindfulnessbrasil.com).  
[marcelo.demarzo@einstein.br](mailto:marcelo.demarzo@einstein.br)  
**Research Interests:** Implementation of Mindfulness- and Compassion-based Therapies in Primary Care

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**Mario Ferretti, MD, PhD**  
PhD in Orthopedics, UNIFESP, Ohio State Un. and Un. of Pittsburgh,  
- Medical Manager of the Orthopedics Unit at HIAE  
[mario.ferretti@einstein.br](mailto:mario.ferretti@einstein.br)  
**Research Interests:** Osteoarthritis, cartilage healing, cell therapy for muscle-skeletal pathologies

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**Mario Lenza, MD PhD**  
PhD in Orthopedics, UNIFESP and Un. of Manchester-UK, Post-doc at UNIFESP and Monash University-AU,  
- Professor at FMAE and Researcher at HIAE/IIEP  
[mario.lenza@einstein.br](mailto:mario.lenza@einstein.br)  
**Research Interests:** orthopedics – clavicle fractures, Cochrane systematic reviews and evidence based medicine

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**Nelson Hamerschlak, MD PhD**  
PhD in Immunology, FMUSP, ex fellow Cornell University, Professor at FMUSP  
- Oncohematologist at HIAE and Researcher at IIoP/HIAE  
[hamer@einstein.br](mailto:hamer@einstein.br)  
**Research Interests:** bone marrow transplantation, cell therapy, leukemias, lymphomas, multiple myeloma, thalassemia, coagulation disorders

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**Nelson Wolosker, MD PhD**  
PhD in Surgery, FMUSP,  
- Professor at FMUSP and Vice-President at IIoP/HIAE  
[nwolosker@yahoo.com.br](mailto:nwolosker@yahoo.com.br)  
**Research interests:** Intermittent Claudication, Endovascular Surgery, Hyperhidrosis
Patricia Severino, MSc, PhD
MSc/PhD in Biotechnology, USP
- Researcher at IIEP
patricia.severino@einstein.br
Research Interests: Identification of cancer biomarkers associated with tumor progression and drug resistance, new therapeutic approaches for solid tumors, including new molecular targets and new molecules, and host response to infection in cancer and sepsis

Paolo R. Salvalaggio, MD, PhD
PhD in Surgery, UFPR, Post-doc in Transplant Immunology, Yale Un., ex-Assistant Professor at Saint Louis Un. and ex-Associate Professor and co-director of the Pancreas and Kidney Transplant Program at Un. of Washington
- Manager of External Educational programs and Researcher at IIEP
Paolo.salvalaggio@einstein.br
Research Interests: Liver diseases, liver transplantation, ischemia reperfusion, stem cells

Patricia de Carvalho Aguiar MD, PhD
Neurologist, PhD in Neurosciences, UNIFESP and Albert Einstein College of Medicine-New York, post-doc at F. Hoffman-La Roche, Basel,
- Researcher at IIEP
patriciamc@einstein.br
Research Interests: Clinical, neurophysiological, and molecular aspects of Movement Disorders (Parkinson's disease, dystonia and Huntington's disease) using cell-based models and high-throughput sequencing, fMRI, EEG, and fNIRS

Raphael M. Ritti Dias,
BS in Physical Education, UEL, PhD in Public Health FSPUSP,
- Visiting Researcher at IIEP
raphael.ritti@einstein.br
Research Interests: Dr. Raphael has expertise in exercise rehabilitation of patients with cardiovascular disease and in exercise physiology issues related to cardiovascular disease and aging.

Reynaldo Jesus-Garcia, MD, PhD
PhD in Orthopedics, UNIFESP,
- Professor of Orthopedic Oncology, UNIFESP and HIAE
Reynaldo.Filho@einstein.br
**Research Interests:** Surgery of sarcomas, custom-made metallic prosthesis, bone metastatic treatments, early and differential diagnosis of cartilage tumors, quality of life in metastatic bone tumors, limb salvage surgery.

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**Ricardo Weinlich, Ph.D**  
PhD in Immunology, ICBUSP, post-doc at St.Jude’s Childrens Research Hospital,  
- Researcher at IIEP  
ricardo.weinlich@einstein.br  
**Research Interests**  
Our group is currently dissecting the molecular mechanisms that initiate and regulate the immunogenic cell death pathways such as necroptosis. We are also investigating their relevance to different pathophysologies, including autoimmune diseases, infection and cancer.

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**Roberta Sitnik, PhD**  
PhD/MSc in Experimental Physiopathology, FMUSP,  
- Coordinator of the Special Techniques Laboratory at HIAE  
roberta.sitnik@einstein.br  
**Research Interests:** Development of molecular pathology tests including hereditary diseases, cancer and virology.  
NGS sequencing of panels of genes of interest and variant classification, quality control in molecular pathology

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**Ronaldo Hueb Baroni, MD, PhD.**  
Radiologist, HIAE, PhD in Radiology, FMUSP, Research Fellowship in Thoracic Imaging and Abdominal MRI, Beth Israel Deaconess Medical Center, Harvard Medical School,  
- Medical Coordinator of the MRI Section  
rbaroni@einstein.br  
**Research Interests:** Magnetic Resonance Imaging, Multiparametric Prostate MRI, Uroradiology, Abdominal Imaging.

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**Samira Saady Morhy, MD PhD**  
PhD in Cardiology, UNIFESP, Fellow of the American Society of Echocardiography,  
- Manager for Non-Invasive Diagnostic Cardiology at HIAE  
Samira.Morhy@einstein.br  
**Research Interests:** Fetal cardiology, congenital heart disease, pediatric cardiology, adults with congenital heart disease, echocardiography.

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**Sergio Gomes da Silva, PhD**  
PhD in Neurology, MSc in Biomedical Engineering, post-doc in Physiology at UNIFESP  
- Researcher at IIEP and Professor at the Núcleo de Pesquisas Tecnológicas, UMC.
**Sergio Gomes**
Research Interests: Mechanisms by which environmental factors (such as nutritional and physical activity habits) alter brain plasticity throughout lifespan, and in neurological disorders, such as epilepsy, Alzheimer's and Parkinson's diseases.

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**Sidney Glina, MD PhD**
Urologist, PhD in Medicine, FMUSP, Professor at FMABC, fellowship at Postgraduate International School of Men's Health - PRISM, Belgium
- Chief Editor of einstein (academic journal) and researcher at IIEP

Research Interests: Male sexual dysfunctions, male infertility, Peyronie’s disease.

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**Welbert de Oliveira Pereira**
PhD in Immunology, ICBUSP, ex Visiting Researcher Kings College, Scientific Advisor and - Researcher at IIEP (Innovation Center) and Professor at FMAE

Research Interests: Mechanisms of resistance to NK-induced apoptosis in acute leukemias, role of Toll-like receptors in acute leukemias, and active learning strategies (team based learning and others)