

# Fernando Pereira Bruno

## Fernando Pereira Bruno, MD

14490 41<sup>st</sup> Ave apt 616, New York, NY – 11355 - USA

917-705-1985

fpbruno@yahoo.com.br

## Education

- 2010-2013 **Postdoctoral Research Fellow**  
**Department of Pathology, Albert Einstein College of Medicine, New York, NY– USA**
- 2009 **Doctor of Medicine (MD)**  
**Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro, RJ – Brazil**

## Work Experience

- 2015-Present **Mentor in the iMentor Program, New York, NY – USA**  
- Mentored and advised students in low-income communities about career plans and long-term goals.
- 2013-2014 **Mentor in the Einstein Peer Mentor Network, Office of Academic Support & Counseling, Albert Einstein College of Medicine, New York, NY – USA**  
- Mentored and advised MD, PhD and MSTP students in regards of academic plans, time management, family matters, emotional counseling, PI/lab challenges, access to resources, and more.
- 2011-2014 **Pathology Representative in the Albert Einstein Postdoc Association, Albert Einstein College of Medicine, New York, NY – USA**  
- Participated as the Department of Pathology Representative in the association's activities to improve the scientific interaction among postdocs, quality of their personal lives and planning of postdoc career plan.
- 2010-2013 **Postdoctoral Research Fellow**  
**Department of Pathology, Albert Einstein College of Medicine, New York, NY- USA**  
**Principal Investigator:** Mahalia Desruisseaux, MD. **Co-Mentors:** David Spray, PhD; Herbert Tanowitz, MD; Louis Weiss, MD MPH  
**Projects:** **Neurological complications of cerebral malaria / Cerebral Malaria: Mechanisms of disease and neurological salvage / Investigating the potential role of Endothelin in the vasculopathy of cerebral malaria**  
- Collaboration with Department of Neuroscience and Department of Radiology (Nuclear Medicine).  
- Conducted experiments to study the physiopathology and neurocognitive alterations of cerebral malaria.  
- Examined the contribution of endothelin-1 in mouse neuronal and astrocytic cell disturbances as they contribute to insulin signaling and dysfunction.  
- Performed immunoblotting and western blot techniques to study the pathway of the disease.  
- Utilized light and confocal microscopy to perform histological analysis and determine pathological alterations.  
- Correlated alterations in signaling pathways to disease outcome using different imaging studies to examine the structural changes in the brains of infected mice.  
- Used Near Infrared Imaging (NIRF) techniques to examine the impact of cerebral malaria infection with *in-vivo* and *ex-vivo* samples, to understand inflammation progression, matrix metalloproteinases activity and blood brain barrier integrity.  
- Used positron emission tomography (PET) and computerized tomography (CT) studies to understand metabolic changes in experimental cerebral malaria, employing AsiPro and PMOD Software Systems.  
- Assisted in the mentoring of two PhD students.  
**Sponsored by:** National Institutes of Health, NIH (Grants: T32 HL-07675, NS069577); Burroughs Wellcome Fund Career Award for Medical Scientists.
- 2010 **Physician at the Emergency Department**  
**Fundação para o Desenvolvimento Científico e Tecnológico em Saúde –Fiotec (Foundation for the Scientific and Technological Development in Health), Rio de Janeiro, RJ – Brazil**  
- Managed Clinical Emergencies and Urgencies in a community hospital (Unidade de Pronto Atendimento - UPA, Fonseca, Niterói)
- 2010 **Physician at the Emergency Department**  
**Policlínica Regional do Largo da Batalha, Niterói, RJ – Brazil**  
- Managed Clinical Emergencies and Urgencies in a community hospital.

# Fernando Pereira Bruno

---

- 2010 **Physician at the Emergency Department**  
**Complexo Hospitalar de Niterói**, Niterói, RJ – *Brazil*  
- Managed Clinical Emergencies and Urgencies in a private hospital facility.
- 2010 **Physician at Outpatient Clinic**  
**Sansim Medical Services / Brazilian Post Office**, São Gonçalo, RJ – *Brazil*  
- Worked as general practitioner in outpatient service, offering medical care for the Post Office Workers, Associates and their families.
- 2010 **Chief of the Health Section / Medical Officer/ Aspirant**  
**Brazilian Army, Centro de Preparação de Oficiais da Reserva (CPOR/ROTC – Reservé's Officers Training Corps)**, Rio de Janeiro, RJ – *Brazil*  
- Served as Chief of the Health Section and head of medical and dental staff.  
- Managed the Quarter's Clinic and supervised one Lieutenant Dentist, two Sergeants' of Health, one Corporal of Health and three Corporals Ambulance Drivers.  
- Served as the physician of the contingent of approximately 600 personnel.  
- Managed the pharmaceutical supplies and medical products.  
- Served as an instructor adaptation course for the new Reserve Officers.  
- Served as the primary physician for all personnel during bootcamp and military activities.  
- Coordination and medical care in high-risk areas, military camps, conducting shooting practice, and aero terrestrial missions - day and night.  
- Performed medical evaluation to conscripts. Examined the Quarter's personnel and evaluated for aptitude for physical activities.  
- Implemented and oversaw sanitary measures in the cantonment, as well as health inspections at the military installations.  
- Lectured the troops under training about military bootcamp health measures and health prevention. Lectures on health care (First Aid-Physical Activity, Nutrition, sexually transmitted diseases, tropical diseases, Dengue, Influenza, and use of AEDs (automated external defibrillator).
- 2005-2009 **Executive producer and Co-Founder**  
**CoPatch Empreendimentos Ltda.**  
- Co-founded the company responsible for scientific and cultural events targeting health professionals, with the mission of improving the physician-patient relationship.  
- Planned and produced three major events throughout five years, hosting approximately 12,000 people.  
- Supervised a team of about 30 people during each event day.  
- The company and its activities were featured in the cover story of the "Mind and Brain" magazine – "Scientific American Brazil" - July/09.
- 2007-2008 **Research Fellow, Scientific Initiation Program**  
**Clementino Fraga Filho University Hospital (HUCFF) – Federal University of Rio de Janeiro (UFRJ)**, Rio de Janeiro, RJ – *Brazil*  
**Principal Investigators:** Rosalia Mendez-Otero MSc, MD, PhD; Charles André, MD, PhD; Lea Mirian Barbosa da Fonseca, MD, PhD; Gabriel R de Freitas, MD, PhD. **Co-Mentor:** Valeria Batistella, MD  
**Project: Phase I Study of Autologous Bone Marrow Cell Transplantation in Patient With Ischemic Stroke (ClinicalTrials.gov Identifier: NCT00473057)**  
- Participated in an open label study to assess the safety of autologous bone marrow transplantation in patients with ischemic stroke in the middle cerebral artery territory within 90 days from symptoms onset.  
- Assisted in the recruitment of new participants.  
- Assisted in patient preparation for interventional procedures.  
- Participated in post-procedure follow up and neurological assessment.  
**Sponsored by:** Federal University of Rio de Janeiro. **Collaborators:** Ministry of Science and Technology, Brazil; Ministry of Health, Brazil; National Research Council, Brazil.
- 2005-2008 **Research Fellow, Scientific Initiation Program**  
**Laboratory of Cellular and Molecular Neurobiology – Biophysics Department – Federal University of Rio de Janeiro (UFRJ)**, Rio de Janeiro, RJ – *Brazil*  
**Principal Investigator:** Rosalia Mendez-Otero MSc MD PhD; **Co-Mentor:** Arthur Giraldo Guimarães MSc PhD  
**Project: Development of the Nervous System of Mammals – Role of Stem Cells in the regeneration of central nervous system and effect of the treatment with bone marrow stem cell in the anatomic plasticity induced by cerebral ischemia**  
- Performed behavioral and cognitive tests in rats. Evaluated sensorimotor changes over time.

# Fernando Pereira Bruno

- Performed stereotaxic surgeries in rats and thermocoagulatory ischemic lesion procedure of the middle cerebral artery and its branches.
  - Harvested bone marrow mononuclear cells and executed transplantation procedures.
  - Completed tissue processing in cryostat and histological procedures with Fluoro-Jade C, GAP-43 and Synaptophysin staining. Completed immunoblotting and TTC staining.
- Sponsored by:** National Council for Scientific and Technological Development, CNPq.

- 2006-2008 **Research Assistant**  
**Independent study in association with the Department of Homeopathic Medicine and Department of Geriatrics – Federal State University of Rio de Janeiro (UniRio), Rio de Janeiro, RJ – Brazil**  
**Principal Investigator:** Jorge Luiz Antolini, MD  
**Project: Epidemiology and social studies in health and mental disease**  
- Participated on epidemiologic cross-sectional and case-control studies.  
- Analyzed data on the influence of age, gender, religion, social class status and violence on general health, mental health and suicide.
- 2004 **Research Fellow, Scientific Initiation Program**  
**Laboratory of Macromolecular Metabolism, Molecular Biology Department – Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro, RJ – Brazil**  
**Principal Investigator:** Edson Rondinelli, MSc MD PhD  
**Project: Genetic Markers in Cardiovascular and Hepatic Diseases**  
- Participated in a study to assess the linkage between known DNA polymorphisms, cardiovascular and hepatic diseases, using PCR and Southern Blot.  
**Sponsored by:** Federal University of Rio de Janeiro; CENPES-PETROBRAS; National Council for Scientific and Technological Development, CNPq; Ministry of Health, Brazil.

## Training

### CLINICAL TRAINING:

- 2010 **Pre-Hospital Care (16 hours)**  
**Berkeley Training Center, Rio de Janeiro, RJ – Brazil**  
- Attended theoretical-practical course.  
- Trained in specific skill stations of clinical simulations: Initial approach to victims; Kinematics of Trauma; Screening of multiple victims; Neurological evaluation; Trauma in special Situations (child, pregnant and burn victims); Disaster management.
- 2010 **Airway Management (8 hours)**  
**Berkeley Training Center, Rio de Janeiro, RJ – Brazil**  
- Attended theoretical-practical course.  
- Trained in specific skill stations of clinical simulations: Airway Propaedeutic; Airway handling; Non-invasive and invasive techniques; Sequence of rapid intubation.
- 2010 **Cardiac Emergency (8 hours)**  
**Berkeley Training Center, Rio de Janeiro, RJ – Brazil**  
- Attended theoretical-practical course.  
- Trained in specific skill stations of clinical simulations: Arrhythmias, Acute heart failure, Acute Coronary Syndrome, Hypertensive crisis and Cardiopulmonary arrest (basic and advanced support).
- 2009 **Sub-Internship in the Neurovascular Service (4 weeks)**  
**University of California San Francisco, San Francisco, CA – USA.** Moffit-Long Hospital, part of the UCSF Medical Center.  
*Under Wade Smith MD, PhD, Andrew Josephson MD, Mai Nguyen-Huynh MD and Nerissa Ko MD.*  
- Worked at the intern level at the Moffitt Neurology Wards/ICU services, supervised by the Residents and Attending of the team. Responsibilities included admissions, evaluations and management of stroke patients, aneurysms, critically ill patients and neurological urgencies.  
- Performed overnight calls and participated on daily rounds and conferences. Performed neurological procedures, such as lumbar punctures. Also presented in journal club.
- 2009 **Externship in Neuroradiology (2 weeks)**  
**University of Miami, Miami, FL – USA.** Jackson Memorial Hospital and Applebaum Diagnostic Imaging Center.  
*Under Evelyn M. Sklar MD and Rita G. Bhatia MD.*  
- Evaluated neurological illnesses in imaging studies.

# Fernando Pereira Bruno

---

- 2009 **Clerkship in Neurology Consult Team (4 weeks)**  
**McGill University**, Montreal, QC – *Canada*. Montreal Neurological Institute and Royal-Victoria Hospital, part of the McGill University Health Center.  
*Under Daniel Gendron MD and Lesley Fellows MD CM, PhD.*  
- Consult: Worked at the intern level evaluating patients from consults placed by both the MNI and RVH, that would then be over-viewed by the Attending. Participated on "code-strokes".  
- Participated in overnight calls.
- 2009 **Clerkship in Neurology Wards (4 weeks)**  
**McGill University**, Montreal, QC – *Canada*. Montreal Neurological Institute and Royal-Victoria Hospital, part of the McGill University Health Center.  
*Under Angela Genge MD, FRCP*  
- Wards: Worked at the intern level at the MNI, supervised by the Resident and Attending of the team. The responsibilities included admission, evaluations and management of a myriad of neurological illness, including strokes, ALS, dementias, meningitis. Presented cases on Departmental Conference.  
- Participated in overnight calls.
- 2008-2009 **Clerkship in Emergency Unit (6 Months)**  
**Rocha Maia City Hospital**, Rio de Janeiro, RJ – *Brazil*.  
- Trained in clinical management, resuscitation and urgent care, as well as development of diagnostic and procedural skills.
- 2007-2008 **Internship in Liver Transplant (2 years)**  
**Federal University of Rio de Janeiro**, Rio de Janeiro, RJ – *Brazil*.  
*Under Samanta Basto MD, Eduardo de Souza Martins Fernandes MD, FRCP and Joaquim Ribeiro Filho MD.*  
- Participated as acting intern of the transplant team assisting on liver transplant surgeries.  
- Performed screening and follow up on liver transplant candidates and assessment of MELD score.  
- Assisted on post-operative evaluation and follow up of transplanted patients.  
- Participated on organ harvesting.  
- Contributed to research that evaluated the MELD score as a predictor of long-term survival in liver transplantation waiting list.
- 2007 **Clerkship in Emergency Unit (2 Months)**  
**Miguel Couto City Hospital**, Rio de Janeiro, RJ – *Brazil*.  
- Trained in clinical management, urgent care, trauma emergencies and development of diagnostic, therapeutic and procedural skills.
- 2004 **First Aid trainee (40 hours)**  
**Brazilian Red Cross**, Rio de Janeiro, RJ – *Brazil*.  
- Attended theoretical and practical course for First Aid Saver learning management of emergencies on the street, first aid techniques, resuscitation and basic life support.
- ELECTIVE TRAINING:**
- 2014 **Science Journalism**  
**World Federation of Science**  
- Theoretical course discussing the strategies used in scientific writing towards a journalistic scope.
- 2013 **Grant Writing Course**  
**Albert Einstein College of Medicine**, New York, NY – *USA*.  
- Theoretical course discussing the strategies and planning on writing proposals and grants.  
- Mentored individual sessions with a Faculty on how to tailor the writing.
- 2009 **“Administration of Clinics and Medical offices” (55 hours)**  
**Federal University of Rio de Janeiro (UFRJ)**, Rio de Janeiro, RJ – *Brazil*.  
- Theoretical course and dynamic activities about administration, management and marketing of Hospitals, Clinics and Medical Offices, also dealing with legislation of professional activity, and Data processing in the private medicine.
- 2008 **“Initiating a Small and Large Business” IPGN (40 hours)**  
**SEBRAE (Brazilian Service of Support to the Micro and Small Business)**, Niterói, RJ – *Brazil*.  
- Dealt with topics such as: The entrepreneur profile; Market Analysis; Design of products and services; Financial analysis.
- 2008 **Certificate-8 English training/Advanced (4 weeks)**  
**EMBASSY CES** - San Francisco, California – *USA*.  
- Based on the English-Speaking Union framework (ESU scale by Carrol and West), the Common European Framework (CEF scale) and Council of Europe (COE scale).

# Fernando Pereira Bruno

- 2004 "Stem Cell and Cellular Therapy" (40 hours)  
Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro, RJ – Brazil.  
- Theoretical International Course sponsored and represented by UNESCO (United Nations Educational, Scientific and Cultural Organization).

## Publications

### Peer-reviewed articles

1. Dai M, Freeman BD, Shikani HJ, **Bruno FP**, Collado JE, Rolando Macias R, Reznik SE, Davies P, Spray DC, Tanowitz HB, Weiss LM, Desruisseaux MS  
*"Altered regulation of akt signaling with Murine Cerebral Malaria, Effects on Long-term Neuro-cognitive Function, and Restoration with Lithium Treatment."*  
**PLoS One, Oct. 2012 7(10): e44117** (<http://dx.doi.org/10.1371/journal.pone.0044117>)
2. Dai M, Shikani HJ, Freeman BD, **Bruno FP**, Tanowitz HB, Weiss LM, Reznik SE, Stephani RA, Desruisseaux MS  
*"The novel ETA receptor antagonist HJP-272 prevents cerebral microvascular hemorrhage in cerebral malaria and synergistically improves survival in combination with an artemisinin derivative"*  
**Life Sciences, Jul. 2012 , 91(13-14):687-92** (<http://dx.doi.org/10.1016/j.lfs.2012.07.006>)
3. Giraldo-Guimarães A, Rezende-Lima M, **Bruno FP**, Mendez-Otero R  
*"Treatment with bone marrow mononuclear cells induces functional recovery and decreases neurodegeneration after sensorimotor cortical ischemia in rats"*.  
**Brain Research, v. 1266, p. 108-120, 2009.** (<http://dx.doi.org/10.1016/j.brainres.2009.01.062>)

### Manuscripts

1. **Bruno FP**, Weiss LM, Desruisseaux MS  
*"Neuropathology, treatment and outcome of the neurocognitive sequelae post cerebral malaria infection" [In submission, **Frontiers in Cellular and Infection Microbiology**]*
2. **Bruno FP**, Shikani HJ, Minxian J, Freeman BD, Jasmin, Spray DC, Desruisseaux MS  
*"Progressive matrix metalloprotease activation and blood-brain barrier compromise compared in mice infected with neurotropic and non-neurotropic strains of malaria parasite" [In submission, **Journal of Infectious Diseases**]*
3. **Bruno FP**, Freeman BD, Koba WR, Jelicks LA, Dai M, Fine EJ, Desruisseaux MS  
*"Positron Emission Tomography – A Follow Up Imaging Method To Assess Encephalic Metabolism In Cerebral Malaria" [In preparation]*
4. **Bruno FP**, RA Julius  
*"American Tegumentary Leishmaniasis In Its Three Cutaneous Stages" [In preparation]*

### Oral Presentations

1. **Bruno FP**  
*"Near-infrared fluorescent imaging: a novel technique to assess brain pathology and severity in experimental cerebral malaria" (Abstract published in **The American Journal of Tropical Medicine**, Nov.2013, Volume 89, p. 335, Issue No. 5, Supplement)*  
American Society of Tropical Medicine and Hygiene (ASTMH) 62nd Annual Meeting– Washington, DC – USA, 2013
2. **Bruno FP**  
*"Brain imaging approaches to characterize experimental cerebral malaria"*  
Malaria Meeting AECOM, Albert Einstein College of Medicine, New York, NY – 2013
3. **Bruno FP**  
*Imaging methods in the monitoring of a murine model of cerebral malaria [in Portuguese].*  
Departmental Seminar, Federal University of Rio de Janeiro – Rio de Janeiro, RJ - Brazil, 2013
4. **Bruno FP**  
*"The brain during the course of malaria"*  
Departmental Seminar, Albert Einstein College of Medicine – New York, NY – USA, 2012
5. **Bruno FP**, Freeman BD, Koba WR, Jelicks LA, Fine EJ, Desruisseaux MS  
*"Positron Emission Tomography- an in vivo imaging system for follow up encephalic metabolism in cerebral malaria" (Abstract published in **The American Journal of Tropical Medicine**, Nov.2012, Volume 87, p. 439, Issue No. 5, Supplement)*  
American Society of Tropical Medicine and Hygiene (ASTMH) 61st Annual Meeting– Atlanta, GA – USA, 2012

# Fernando Pereira Bruno

---

6. **Bruno FP**  
“Dynamic imaging studies to monitor metabolic and inflammatory changes in murine cerebral malaria”  
Departmental Seminar, Albert Einstein College of Medicine – New York, NY – USA, **2012**
7. **Bruno FP**, Jasmin, Freeman BD, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Metalloproteinase fluorescence as an inflammatory index in murine cerebral malaria”  
Pathology Retreat, Albert Einstein College of Medicine – New York, NY – USA, **2011**
8. **Bruno FP**, Rezende-Lima M, Mendez-Otero R, Giral-di-Guimarães A  
[Effect of the treatment with Bone Marrows Stem Cells in the neurodegeneration and axonal plasticity based on stroke models.] in Portuguese  
XXIX Jornada Giulio Massarani de Iniciação Científica, Artística e Cultural – Rio de Janeiro, RJ – Brazil, **2007**.
9. **Bruno FP**, Rezende-Lima M, Mendez-Otero R, Giral-di-Guimarães A  
[Effect of the treatment with Bone marrow Stem Cells in the plasticity induced by focal cerebral ischemia.] in Portuguese  
XXVIII Jornada Giulio Massarani de Iniciação Científica, Artística e Cultural – Rio de Janeiro, RJ – Brazil, **2006**.

## Featured Poster Presentations

1. **Bruno FP**, Shikani HJ, Minxian J, Freeman BD, Jasmin, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Near-infrared fluorescent imaging: a novel technique to assess brain pathology and severity in experimental cerebral malaria” (Abstract published in **The American Journal of Tropical Medicine, Nov.2013, Volume 89, p. 335, Issue No. 5, Supplement**)  
American Society of Tropical Medicine and Hygiene (ASTMH) 62nd Annual Meeting– Washington, DC – USA, **2013**
2. **Bruno FP**, Shikani HJ, Minxian J, Freeman BD, Jasmin, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Near-infrared fluorescent imaging: a novel technique to assess brain pathology and severity in experimental cerebral malaria”  
Shields Awards for Outstanding Postdoctoral Research– New York, NY – USA, **2013**
3. **Bruno FP**, Dai M, Shikani HJ, Freeman BD, Jasmin, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Near-infrared fluorescent imaging of matrix metalloproteinases as an index of brain inflammation in cerebral malaria” (Abstract published in **Annals of Neurology, Dec.2013, Volume 74, p. S33, Issue No. S17**)  
2013 ANA Annual Meeting– New Orleans, LA – USA, **2013**
4. **Bruno FP**, Freeman BD, Koba WR, Jelicks LA, Dai M, Fine EJ, Desruisseaux MS  
“Using PET-scan to monitor brain metabolism in a murine model of cerebral malaria” (Abstract published in **Annals of Neurology, Dec.2013, Volume 74, p. S33, Issue No. S17**)  
2013 ANA Annual Meeting– New Orleans, LA – USA, **2013**
5. **Bruno FP**, Dai M, Shikani HJ, Freeman BD, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Matrix metalloproteinases activation as an assessment tool of brain pathology in experimental cerebral malaria”  
Pathology Retreat, Albert Einstein College of Medicine – New York, NY – USA, **2013**.
6. **Bruno FP**, Freeman BD, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Near-infrared fluorescent imaging: A Novel technique to assess inflammation in experimental cerebral malaria” (Abstract published in **The American Journal of Tropical Medicine, Nov.2012, Volume 87, p. 41, Issue No. 5, Supplement**)  
American Society of Tropical Medicine and Hygiene (ASTMH) 61st Annual Meeting– Atlanta, GA – USA, **2012**
7. **Bruno FP**, Freeman BD, Jasmin, Koba WR, Weiss LM, Spray DC, Fine EJ, Tanowitz HB, Desruisseaux MS  
“The use of imaging studies to monitor the progression of disease in murine cerebral malaria”  
Pathology Retreat, Albert Einstein College of Medicine – New York, NY – USA, **2012**.
8. **Bruno FP**, Freeman BD, Jasmin, Koba WR, Weiss LM, Spray DC, Fine EJ, Tanowitz HB, Desruisseaux MS  
“Dynamic imaging studies to monitor metabolic changes in murine cerebral malaria”  
American Society of Tropical Medicine and Hygiene (ASTMH) 60th Annual Meeting – Philadelphia, PA – USA, **2011**.
9. **Bruno FP**, Jasmin, Freeman BD, Tanowitz HB, Weiss LM, Spray DC, Desruisseaux MS  
“Metalloproteinase fluorescence as an inflammatory index in murine cerebral malaria”  
Neuroscience Retreat, Albert Einstein College of Medicine – New York, NY – USA, **2011**.
10. Giral-di-Guimarães A, Rezende-Lima M, **Bruno FP**, Mendez-Otero R  
“Treatment with Bone Marrow Mononuclear cells induces functional recovery and decreases neurodegeneration after sensorimotor cortical ischemia in rats.”  
1<sup>st</sup> Congress IBRO/LARC of neurosciences for Latin America, Caribbean and Iberian Peninsula – Buzios, RJ –Brazil, **2008**.

# Fernando Pereira Bruno

11. Rezende-Lima M, **Bruno FP**, Giraldo-Guimarães A, Mendez-Otero R  
“Effect of the treatment with bone marrow-derived cells in functional recovery and axonal plasticity after focal ischemia.”  
2<sup>nd</sup> International Symposium in Advanced Therapies & Stem Cells – Rio de Janeiro, RJ – Brazil, **2007**.
12. Antolini JL, Rodrigues RS, Souza VRM, **Bruno FP**  
[Depression as the initial clinical manifestation of HTLV-1.] in Portuguese  
25<sup>th</sup> Brazilian Congress of Psychiatry – Porto Alegre, RS – Brazil, **2007**.
13. Antolini JL, **Bruno FP**, Souza MRM, Rodrigues RS, Berbara VA, Souza VRM  
[Social violence and Psychological distress: Poverty as a risk factor for suicide of the Brazilian elderly.] in Portuguese  
10<sup>th</sup> Latin American congress of Social Medicine/ 4<sup>th</sup> Brazilian Congress of Social and Human Sciences/ 14<sup>th</sup> Congress of the International Association of Health Policy – Salvador, BA – Brazil, **2007**.
14. Antolini JL, Rodrigues RS, Berbara VA, Souza VRM, **Bruno FP**, Souza MRM  
[Indicators of poverty and suicide in the elderly in the southeast region capital’s of Brazil: A dialogue between Psychiatry and Gerontology] in Portuguese  
24<sup>th</sup> Brazilian Congress of Psychiatry – Curitiba, PR – Brazil, **2006**.
15. Antolini JL, Rodrigues RS, Moreira RC, Nogueira ACFM, Nogueira A, Souza VRM, Souza MRM, **Bruno FP**  
[Urban Violence, religion and resilience in the elderly: Can faith be helpful?] in Portuguese  
24<sup>th</sup> Brazilian Congress of Psychiatry – Curitiba, PR – Brazil, **2006**.
16. Rodrigues RS, Antolini JL, Berbara VA, Souza MRM, **Bruno FP**, Souza VRM  
[Suicide in Brazil: Mortality trend in the period of 1990-2001.] in Portuguese  
24<sup>th</sup> Brazilian Congress of Psychiatry – Curitiba, PR – Brazil, **2006**.
17. Rodrigues RS, Antolini JL, Berbara VA, Souza VRM, Souza MRM, **Bruno FP**  
[Suicide in women in the City of Rio de Janeiro in the period of 1996 to 2004.] in Portuguese  
24<sup>th</sup> Brazilian Congress of Psychiatry – Curitiba, PR – Brazil, **2006**.
18. Antolini JL, Rodrigues RS, Moreira R, Nogueira AC, Nogueira A, Souza MRM, Souza VRM, **Bruno FP**  
[Mental Health in the elderly: Religion as a possible factor of resilience.] in Portuguese  
8<sup>th</sup> Brazilian Congress on Family and Community Medicine./2<sup>nd</sup> Luso-Brazilian Meeting of General, Family and Community Medicine – São Paulo, SP – Brazil, **2006**.
19. Rodrigues RS, Antolini JL, Berbara VA, Souza VRM, Souza MRM, **Bruno FP**, Nogueira AC, Nogueira A  
[Mortality by suicide in the elderly in Brazil: Historical series from 1991 to 2001.] in Portuguese  
11<sup>th</sup> World Congress of Public Health/ 8<sup>th</sup> Brazilian Congress on Collective Health – Rio de Janeiro, RJ – Brazil, **2006**.
20. Antolini JL, Rodrigues RS, Nogueira A, Nogueira AC, Souza VRM, Souza MRM, **Bruno FP**  
[Violence, Religion and Resilience in the elderly residents from risk areas of Rio de Janeiro] in Portuguese  
11<sup>th</sup> World Congress of Public Health/ 8<sup>th</sup> Brazilian Congress on Collective Health – Rio de Janeiro, RJ – Brazil, **2006**.
21. Nogueira A, Rodrigues RS, Antolini JL, Berbara V, Souza VRM, Souza MRM, Nogueira AC, **Bruno FP**  
[Social inequalities and suicide of the elderly in the Southeast of Brazil: A Social Epidemiology look.] in Portuguese  
11<sup>th</sup> World Congress of Public Health/ 8<sup>th</sup> Brazilian Congress on Collective Health – Rio de Janeiro, RJ – Brazil, **2006**.
22. Nogueira AC, Rodrigues RS, Antolini JL, Berbara VA, Nogueira A, Souza VRM, **Bruno FP**, Souza MRM  
[Self inflicted lethal violence: Epidemiological study of suicide methods used by people living in Rio de Janeiro.] in Portuguese  
11<sup>th</sup> World Congress of Public Health/ 8<sup>th</sup> Brazilian Congress on Collective Health – Rio de Janeiro, RJ – Brazil, **2006**.

## Extracurricular Activities

- |           |  |
|-----------|--|
| 2005-2010 | <b>Volunteer for the Gesundheit Institute.</b><br>- Promoted events that raised funds that helped support the institution with their activities and educational purposes.  |
| 2005-2010 | <b>Volunteer for the “Casa Maria de Magdala” HIV Clinic.</b><br>- Promoted events that raised funds for the institution, supporting the activities of their philanthropic practice. ( <a href="http://www.casamariademagdala.com.br">www.casamariademagdala.com.br</a> ) |

# Fernando Pereira Bruno

- 2009 **Executive producer of the Event “Patch Adams 2009”:**  
- Event attended by 2,500 participants on May/2009 in São Paulo-Brazil.  
- The gathering consisted of 2 lectures and 1 workshop from Patch Adams MD, on the importance of the doctor and patient relationship, the goals of the health practitioner. Included ways of avoiding burnout in the hospital daily activities, and also techniques to assist the patient in parallel with drug therapies.
- 2008 **Health care and Justice Gathering 2008, Gesundheit Institute, West Virginia – USA.**  
- Conference and Workshop about visions and strategies for changes in health care.
- 2007-2008 **Volunteer in health prevention activities**  
**“Standing Committee on Reproductive Health including AIDS – SCOPH IFMSA/IFLMS” – Rio de Janeiro – Brazil.**  
- Participated in activities that involved teaching different communities about health, prevention and social impacts of AIDS and STDs. Part of the World HIV/AIDS Awareness Day.
- 2007-2009 **Academic League of Neurology, Federal University of Rio de Janeiro – Rio de Janeiro – Brazil.**  
- Participated as part of a student's initiative to increase their exposure to neurology. Organized and participated on lectures, journal club, neuro-quiz and professor rounds held by the attendings of the university hospital. (*Supervising Professor: Maurice Vincent, MD PhD*)
- 2007 **Volunteer Worker in the “Protocol” and “Medical/Red Cross” Areas at the XV Pan American Games – Rio 2007 – Rio de Janeiro – Brazil**  
- Executed administrative activities in the Hotel that served as head quarters for the Pan American Sports Organization (PASO/ODEPA).  
- Acted as the part of the rescue team for medical urgencies and emergencies in the Maracanã Complex.
- 2007 **Executive Producer of the Event “Patch Adams 2007”**  
- Event attended by 7,000 participants on September/2007 in Rio de Janeiro and São Paulo – Brazil.  
- The gathering consisted of 4 lectures and 2 workshops from Patch Adams MD, on the importance of the physician and patient relationship, the approaches related to the health practitioner, the importance of a love strategy in our lives.
- 2006-2008 **Academic League of Critical Care Medicine, Federal University of Rio de Janeiro – Rio de Janeiro – Brazil.**  
- A student's initiative to increase their exposure to this field. Participated on small groups studying critical care and advanced support measures. Organized and participated of lectures, journal club, professor rounds held by the attendings of the university hospital in the ICUs. (*Supervising Professor: Rosane Goldwasser, MD*)
- 2005 **Executive Producer of the Event “Patch Adams 2005- for a more humanistic medicine”:**  
- Attended by 2,000 participants on July/2005 in Rio de Janeiro – Brazil.  
- The gathering was composed by 2 lectures from Patch Adams MD, on the importance of the physician and patient relationship/interaction.

## Research Support

- 2013 **Sponsor:** National Institutes of Health/National Institute of Neurological Disorders and Stroke (NIH/NINDS, NS069577)  
Cerebral Malaria: Mechanisms of disease and neurological salvage  
**PI:** Mahalia Desruisseaux, MD  
**Role:** Postdoctoral Fellow/Trainee
- 2011- 2012 **Sponsor:** Burroughs Wellcome Fund Career Award for Medical Scientists  
Neurological complications of cerebral malaria  
**PI:** Mahalia Desruisseaux, MD  
**Role:** Postdoctoral Fellow/Trainee
- 2010-2011 **Sponsor:** Fogarty International Center  
Inter-hemispheric Research/ NIH Global Infectious Disease Research Training Program (D43 TW007129)  
**PI:** Herbert Tanowitz, MD  
**Role:** Postdoctoral Fellow/Trainee
- 2005-2008 **Sponsor:** National Council for Scientific and Technological Development (CNPq)  
**Role:** Medical Student/Awardee

# Fernando Pereira Bruno

## Awards & Accomplishments

- 2014 **Named one of the Leading Physicians of the World**, The International Association of Healthcare Professionals
- 2013 **2013 Young Investigator Award**, American Society of Tropical Medicine and Hygiene (ASTMH), Washington, DC – *USA*
- 2013 **Dennis Shields Postdoctoral Travel Award**, Albert Einstein College of Medicine, New York, NY – *USA*
- 2013 **Travel Fellowship Award**, American Neurological Association, New Orleans, LA – *USA*
- 2013 **Nominated by the Dean for the 2013 Blavatnik Awards for Young Scientists**, Albert Einstein College of Medicine, New York, NY – *EUA*
- 2006 **Honorable Mention**, Forum of Medical Ethics, Federal University of Rio de Janeiro – Rio de Janeiro, RJ – *Brazil*
- 2005-2008 **Scientific Initiation Fellowship Award**, “National Council for Scientific and Technological Development” (CNPq) Rio de Janeiro, RJ – *Brazil*
- 2005 **Honorable Mention**, Forum of Pathology Teaching, Federal University of Rio de Janeiro – Rio de Janeiro, RJ – *Brazil*
- 2004-2005 **Student Board of Representatives**: Represented the medical students from UFRJ in National Meetings, Federal University of Rio de Janeiro – Rio de Janeiro, RJ – *Brazil*

## Media

- 2014 **Impatient Optimists/Bill & Melinda Gates Foundation**  
- Featured in the article “*Want the Latest on Next-Generation Medical Research? Ask the Next Generation*”
- 2013 **“O Fluminense”**  
- Featured in an interview in regards of life’s achievements
- 2009 **Mind and Brain” Magazine - “Scientific American Brazil”**  
- The company and its activities featured on the cover story of the Magazine on July/09
- 2008 **30-minute television interview, Channel Canção Nova, Brazil.**  
- Discussed changes in the doctor-patient relationship that could lead to a better approach to the patient. Interview on the talk show “Quarta-Viva”, hosted by the Brazilian writer “Gabriel Chalita” on the national- broadcast channel “Canção Nova”.
- 2007 **20-minute radio interview, Radio Station “Rádio Nacional”, Brazil**  
- Discussed the concepts of a more humane approach on medical practice, and the key differences between the Brazilian reality and the rest of the world in terms of medical care. Interview on the show “Redação Nacional” on the national-broadcast station “Rádio Nacional”.
- 2007 **20-minute radio interview, Radio Station “Rádio Rio de Janeiro”, Brazil**  
- Discussed the importance of reforms on medical treatment on regards to the approach to the patient, and how are the relation of doctor-patient is introduced during medical education. Interview on the show “Mulher Brasileira” on the station “Rádio Rio de Janeiro”.
- 2007 **Guest appearance on television interview., Channel “TV Cultura”, Brazil**  
- Guest appearance on the talk show “Roda Viva”, on the national- broadcast channel “TV Cultura”.

## Certifications

- 2011 **Laboratory Certificate of Fitness C14**, Provided by New York Fire Department
- 2011 **Bloodborne Pathogens**. Provided by the Department of Environmental Health and Safety, Albert Einstein College of Medicine
- 2011 **Hazard Communication**. Provided by the Department of Environmental Health and Safety, Albert Einstein College of Medicine
- 2011 **Radiation Safety**. Provided by the Department of Environmental Health and Safety, Albert Einstein College of Medicine
- 2011 **Responsible conduct of Research**. Provided by the Belfer Institute for Advanced Biomedical Studies

# Fernando Pereira Bruno

---

## Professional Organizations and Societies

2011-Present	<b>American Society of Tropical Medicine and Hygiene (ASTMH)</b>
2010-Present	<b>New York Academy of Science (NYAS)</b>
2005	<b>Brazilian Association for Medical Teaching (ABEM)</b>
2004	<b>National Executive Directory of Medical Students (DENEM)</b>
2004	<b>Federal University Rio de Janeiro / Carlos Chagas Academic Center (CACC-UFRJ)</b>

## Language Skills

**Portuguese:** Native speaker

**English:** Fluent

**French:** Basic

**Spanish:** Advanced