

Faculty

School of Pharmacy
Medical Sciences Campus
University of Puerto Rico



Jorge Miranda Massari, BS Science, BS Pharm, RPh, PharmD

Research Areas and Active Projects

Main Research Interest is the development of effective, non-toxic treatments for chronic diseases, especially autism, diabetes and cancer. Metabolic correction to address the root cause of diseases. Identifying and correcting factors that cause neurometabolic disorders. Identifying and changing the biochemical conditions that promote, develop and sustain the malignant state can produce inhibition of malignant cell proliferation, increase aerobic metabolism and achieve re-differentiation possibly with mitochondrial correction. Also interested in the development of non-toxic therapeutic strategies that enhance the effectiveness of other treatments or that reduce their toxicity. High dose Ascorbic acid, lipoic acid, acetyl L-Carnitine, Coenzyme Q10, magnesium and phospholipids.

Contact Information

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Rank/Discipline

Professor
Clinical Pharmacy

Education & Specialty Certification

BS Science 1985 (UPR),
BS Pharm 1988 (UPR),
PharmD 1990 (PCP&S),
Post Doc Clinical
Pharmacokinetics 1992 (Chapel Hill, UNC). Clinical
Pharmacokinetics, Nutritional
pharmacology, Metabolic.
Correction, Orthomolecular
Medicine.

Projects

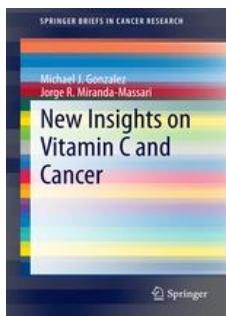
- Metabolic Correction in neurometabolic disorders early detection and intervention (2017-present)
- Mitochondrial Correction by liposome nano-technology as a novel therapeutic tool for the treatment of Cancer & Chronic Ds (2014-present)
- MTHFR Polymorphism and Metabolic Correction for Diabetic Peripheral Neuropathy (2012-present)
- The Atlantea Project Grant (2008)

Awards

- Orthomolecular Hall of Fame, International Society of Orthomolecular Medicine (April 2016)
- Admitted to the Academy of Arts and Sciences of Puerto Rico (Nov 2014)
- Admitted to the Ibero-American Scientific & Cultural Academy (Nov 2014)
- PR College of Pharmacists. Innovative Pharmacist Award (2008)
- Cancer Research award CIHF (2003)

Publications (selected)

- Over 100 scientific publications including editorials, reviews and research data in peer review journals and one book. (selected samples below)
- Metabolic correction in patients sample with diabetes: clinical outcomes and costs reductions. International Journal of Diabetes Research. 2016, 5(5): 92-101.
- High dose intravenous vitamin c treatment in a patient with lung cancer: A case report. Clinical Case Reports and Reviews. 2016;2(6): 454-455
- Metabolic Correction: A Functional Biochemical Mechanism Against Disease. Part 2: Mechanisms and Benefits. PR Health Sci J 2015;34:9-13.
- Metabolic Correction: A Functional Biochemical Mechanism against Disease. Part I: Concept and Historical Background. P R Health Sci J 2015;34:3-8.
- The Cancer Agenda: Revisited (Editorial). Journal of Cancer Prevention & Current Research. 2014;1:0003.



- The bio-energetic theory of carcinogenesis. *Medical Hypotheses*. 2012;79:117-24.
- Metabolic Correction in the Management of Diabetic Peripheral Neuropathy: Improving Clinical Results beyond Symptom Control. *Current Clinical Pharmacology*. 2011;6:206-73.
- Ascorbic Acid, Mitochondria and Cancer: The Energy, Metabolism and Carcinogenesis Relationship. *Journal Orthomolecular Medicine*; 2010.
- Pharmacokinetics of Vitamin C: Insights of into the Oral and Intravenous Administration of Ascorbate. *PRHSJ* 2008;27:7-19.
- A pilot clinical study of continuous intravenous ascorbate in terminal cancer patients. *PR Health Sci J*. 2005;24:269-76.
- Nutritional Oncology Review: Ascorbic Acid and Cancer: 25 years later. *Integr Cancer Ther*. 2005;4:32-44.
- Book: *I Have Cancer What Should I do: The Orthomolecular Guide to Cancer Management*. Basic Health Publishing Co. December 2009.
- Book: *New Insights on Vitamin C and Cancer*. Springer Publishing Co. September 2014.

Presentations/courses

- Over 500 conferences mostly to health professionals (physicians, pharmacists, nutritionists and medical technologists).
- The MCI Project Continuing Education Program for Health Professionals consists of a series of conferences/workshops designed to update and integrate evidence based knowledge in specific areas usually not covered in professional training centers. The emphasis of this program is nutritional biochemistry, toxicology and metabolic optimization.

New University Courses

- Metabolic Correction as a functional approach in disease management and Health Improvement. (FARM 7209). The course discusses the history of vitamins in general and pioneers in the area of nutrition, nutritional biochemistry and related topics. The course focuses on the clinical research of nutrients in the management of disease. (2013-present)
- Introducción a la Investigación. BIOL 4990 Dept Biología. Facultad Ciencias Naturales, Recinto Rio Piedras, UPR. (2005-Present)
- On-Line course Complementary and Alternative Practices in Health and Healing: An Integrative Medicine Approach. (Dr. JR Miranda Massari (Creator and Coordinator). Title V Project Proposal for Online Course Development. Grant April 2004. Finished December 2004.
- Advanced Practicum in Integrative Medicine (FARM 7251) Dr. JR Miranda Massari (Creator and Coordinator). 4 credits (144 hours) Semester. The main purpose of this practicum is to further develop knowledge, skills and attitudes necessary in the optimal use of dietary supplements and other CAM tools that are available in pharmacies. Aug. 2004.
- Complementary and Alternative Practices in Health and Healing: An Integrative Medicine Approach. (INTD 7995/INTD 5015) (Dr. JR Miranda Massari (Creator and Coordinator) 3 credits (54 hours) First Course on the area of Complementary and Alternative Medicine in the Medical Sciences Campus, UPR) 1999- to 2013.
- Research Topics (F 7256) Title: HPLC analysis of Vitamin C for Cancer Research. Summer 2004.
- Topics in Pharmacy Practice (F 4282) Title: Clinical Literature: Analysis, Creation and the Publication Process. Summer 1999.