

CURRICULUM VITAE

NAME **Jorge R. Miranda-Massari, Pharm.D.**
TITLE Professor

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ACADEMIC TRAINING **Doctor of Pharmacy**, Philadelphia College of Pharmacy and Science, Philadelphia, Pennsylvania (May 1990)

Bachelor of Science in Pharmacy, School of Pharmacy, Medical Sciences Campus, University of Puerto Rico, Río Piedras, Puerto Rico (June 1988)

Bachelor of Science in Biology, University of Puerto Rico, Río Piedras Campus, Río Piedras, Puerto Rico (May 1985)

SPECIAL TRAINING **Amgen Nephrology Traineeship Program.** Funded by Amgen Pharmaceutical Corporation, School of Pharmacy, University of Pittsburgh, PA (1994)

Post Doctoral Training Fellowship in Clinical Pharmacokinetics, School of Pharmacy, University of North Carolina at Chapel Hill, NC (1991-1992)

ASHP Foundation Anticoagulation Clinic Traineeship Program. Funded by Du Pont Pharmaceuticals. Medical College of Virginia Hospital and Virginia Veteran Administration Hospital (1991)

Clinical Pharmacist, Intensive Care Units, UNC Hospital, Chapel Hill, NC (1990-1992)

Post Doctoral Training Specialty Residency in Clinical Pharmacokinetics, University of North Carolina Hospitals, Chapel Hill, NC (ASHP Accreditation Pending) (1990-1991)

Pharmacy Internship, Hahnemann Hospital Pharmacy, Philadelphia, PA (February-June 1990)

OTHER COURSES:

- 2005 The 3rd Restorative Medicine Conference. Intercontinental Hotel, San Juan, PR.
(August 3-6, 2005) 10.0 CE hours
- 2004 Program for Diabetes Educator Certification. Sponsored by the Diabetes Center of
Puerto Rico. (2004 – 2005)
- Complementary and Alternative Medicine (CAM Program) NPICO, NCPA.
Boston, MA (Oct 2004)
- 2003 National Cancer Institute, Grant Writing Seminar, Bethesda, MD
- 2002 Animal Lab Safety Course 2002, UPR Medical Sciences Campus.
- Aseptic Surgery, Anesthesia & Analgesia Course UPR Med. Sci. Campus
- Mouse Lecture and Wet Lab Course, Medical Sciences Campus, UPR.
- 2001 American Institute of Cancer Research Annual Conference, Washington, DC
- 1st Inter American Conference of Pharmacy and Nutrition, Habana, Cuba
- 4to. Foro Educación y Ciencias de la Salud, UPR, Recinto de Ciencias Médicas,
San Juan, PR.
- 2000 2nd Comprehensive Cancer Care Conference, Arlington, VA
29.0 CE hours
- Third Comprehensive Cancer Care Conference, Washington, DC.
- 3rd Foro Educación y Ciencias de la Salud, UPR., Recinto de Ciencias Médicas
San Juan, PR.
- Herbs, Drugs and the Body. 6.0 CE hours, Medical Educational Services San
Juan, PR.

LICENSE: North Carolina # 11077
 Puerto Rico # 4282

HONORS, AWARDS AND GRANTS:

Title V Project for Online Course Development. For the course Complementary and Alternative Practices in Health and Healing: An Integrative Medicine Approach (INTD 7995). Granted in April 2004.

HONORS, AWARDS AND GRANTS:

Cancer Research award CIHF. San Juan, Puerto Rico, Intercultural Cancer Council, ICC Meeting. Wyndham Hotel. (Plaque reading "Recognition Award for Outstanding Leadership in Vitamin C research") May 1, 2003.

Outstanding teacher of the year. Awarded by the students (class of 2002), School of Pharmacy- MSC-UPR. The award consisted of a symbolic paint by Julio Lugo. It portraits the sprout RECNA (the cancer research project) from which our passion of knowledge and teaching is derived. (June 2002)

Research Grant. Non-Toxic Therapy for Breast Carcinoma. Funded by The Center for the Improvement of Human Functioning International, Inc. Funded with \$ 50,000 per year for two years (2003-2005).

Mitochondrial Function in cancer Cells. Funded with \$3,000 by Puerto Rico Cancer Center (3/00), \$5,000 (3/01), \$4,000 (3/02), \$2,500 (4/03), \$3,000 (3/04).

Effect of Morinda Citrifolia on Fasting Blood Glucose and Glycosilated Hemoglobin in Patients with Diabetes Mellitus. Funded with \$10,000 by CIDIC (1999)

Effect and Comparison of Chromium and Vanadium on Fasting Blood Glucose and Glycosilated Hemoglobin in Patients with Diabetes Mellitus. Funded with \$ 8,000 by CIDIC (1999)

Academic Computational Laboratory. Educational Grant from Deanship of Academic Affairs, Medical Sciences Campus, University of Puerto Rico. Funded with \$40,000.00 (1995-1996)

Pharmacokinetics of AIDS Related Drugs. J Rodriguez, A. Pérez, W. Maldonado, JR Miranda, C Díaz G. Vázquez, C Zorrilla. Funded by CIDIC with \$ 35,000 (1993)

Drug Utilization Evaluation of Azithromycin. \$4,450.00 Research Grant provided by Pfizer Pharmaceutical Co. (1993-1994)

Start up Funds for Infrastructure of Pharmacokinetics Laboratory. \$29,975.00. Research Centers in Minority Institutions Program (1992-1993)

Evaluation of two immunoassays for the determination of salivary and serum digoxin concentrations in patients with renal failure. Funded with \$500.00 by the Upjohn Company (1991-1992)

National Council on the Aging/Warner Lambert Geriatric Fellowship for Pharmacy Students. Coordinated educational strategies to improve medication utilization among non-English speaking Hispanic elderly. Funded with \$2,500.00 (1989-1990)

Bristol Award for Leadership, San Juan, Puerto Rico (1988)

Rotary Club Medal for Community Service, San Juan, Puerto Rico (1988)

Certificate of Recognition, Annual Ceremony for Outstanding Students of the Medical Sciences Campus, University of Puerto Rico, San Juan, Puerto Rico (1988)

Presidential Scholarship (Scholarship awarded by the president of the University of Puerto Rico to develop new faculty), San Juan, Puerto Rico (1988)

ACADEMIC PROFESSIONAL EXPERIENCE:

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| 2005 to date | Professor , Pharmacy Practice Department, School of Pharmacy, Medical Sciences Campus, University of Puerto Rico |
| 1999 to 2005 | Associate Professor , Pharmacy Practice Department, School of Pharmacy, Medical Sciences Campus, University of Puerto Rico |
| 1992 to 1999 | Assistant Professor , Pharmacy Practice Department, School of Pharmacy, Medical Sciences Campus, University of Puerto Rico |
| 1990-1992 | Clinical Instructor , UNC School of Pharmacy at Chapel Hill. Responsible for training of Pharm.D. and M.S. student in clinical pharmacokinetics rotation at UNC Hospital |
| 1989-1990 | Clinical Pharmacy Teaching Assistant , Philadelphia College of Pharmacy and Science. Responsible for instructing undergraduate pharmacy students on clinical rotations at Thomas Jefferson University Hospital and the Hospital of the University of Pennsylvania |
| June 1991 | Coordinator of ASHP Application for Accreditation of Residency in a Specialty Pharmacy Practice (Clinical Pharmacokinetics), UNC Hospital, Chapel Hill, NC |

PRESENTATIONS:

Nutrition and Supplementation for Gastrointestinal and Systemic Health. 2006 Health Expo. Puerto Rico Convention Center, San Juan, PR. January 28, 2006.

The nutritional pharmacological treatment of Chronic Fatigue Syndrome and Fibromyalgia: "The orthomolecular Approach for energy enhancement and pain relief". CE for Naturopaths. San Juan, PR. October 30, 2005.

The Science of Supplementation for Cardiovascular Prevention and Treatment. CE Conference. Sponsored by the School of Pharmacy. Mayaguez Resort & Casino, Mayaguez, PR. September 17, 2005.

Thermodynamics of Cellular Healing. 3rd Restorative Medicine Conference. Intercontinental Hotel, San Juan, PR. August 4, 2005.

The nutritional pharmacological treatment of Chronic Fatigue Syndrome and Fibromyalgia: The orthomolecular solution for energy enhancement and pain relief. Sponsored by the School of Pharmacy, Medical Sciences Campus, University of Puerto Rico. June 26, 2005.

PRESENTATIONS (Cont.):

Cardiovascular Protection: Minimizing the risks with Continuous Orthomolecular Assessment. Annual Convention of the Puertorrican College of Medical Technologists. Paradisus Hotel, Río Grande, PR. November 13, 2004.

Proposed Dietary recommendations for the prevention and treatment of Degenerative diseases to the Nutrition Committee of Puerto Rico. November 12, 2004.

Course of Medical Education: The Integrative Prescription for fat loss and body transformation. Annual Convention of the Puertorrican College of Physicians and Surgeons. Paradisus Hotel, Río Grande, PR. November 6, 2004.

Basic Course of Medical Education in Medicine for Addiction. *Nutritional Pharmacology for Addictions: "The Science of reversing the biochemistry of craving"*. Puertorrican College of Physicians and Surgeons. Casa del Médico, Ponce, PR. September 26, 2004. Encore presentation at Ramon Ruiz Arnau Hospital Amphitheater. December 5, 2004.

Second Public Health Conference, Special Session 4: The Role of Alternative Medicine in Puerto Rico's Health Services. Sponsored by School of Public Health, Medical Sciences Campus, University of Puerto Rico. Caribe Hilton Hotel, San Juan, PR. September 1, 2004.

Women Health Issues: An Integrative Medicine Perspective. PR College of Technologists Convention. Condado Plaza Hotel, San Juan, PR. June 25, 2004.

Pharmaceutical, Nutraceutical and Nutritional Management of Diabetes, Cardiovascular Disease and Renal Insufficiency. **Certification Program** for the College of Dieticians and Nutritionists of Puerto Rico (16 hours program) Rio Piedras Campus, University of Puerto Rico. May 2004.

Seventh **Plenary Session**: Panel on the Contribution of Research Institutional Centers or Projects. **Project RECNAAC II** (Cancer research). *XXIV Annual Research and Education Forum*, Medical Sciences Campus, University of Puerto Rico. April 2, 2004.

Nutrition and Supplementation Strategies for glucose-insulin disorders. First Symposium on Diabetes in the Women: Prevention, Research and Treatment. Wyndham Condado Plaza, San Juan, PR. Food and Drug Administration, Puerto Rico District in collaboration with local government agencies. February 26-27, 2004.

Antiaging Nutritional Pharmacology, exercise and supplementation. School of Public Health- MSC-UPR October, 2003

The Metabolic Approach to fat loss and body transformation. CE Conference. School of Pharmacy, San Juan, PR. September 10, 2003. Encore Presentation (Updated version) March 4, 2004. Revised Encore Presentation September 2, 2004.

Cancer, Nutrition and Supplementation. El Lucero de Salud (The Bright Star - Educational Center for optimal health through the Ann Wigmore diet). San Juan, PR. July 2, 2003.

PRESENTATIONS (Cont.):

Gonzalez MJ and Miranda-Massari JR. Ascorbic Acid and Copper: Effective Cytotoxic Agents Against Metastatic Breast Carcinoma (BRCA) Cells. Free Radicals: The Pros and Cons of Antioxidants. NIH, NCI, Bethesda, MD. June 26-27, 2003.

Issues in Geriatric Drug Therapy and Supplementation. Fourth Annual Conference on Elderly Nutrition. Ritz Carlton. San Juan, PR. March 21, 2003.

Geriatric Nutritional Pharmacology. Fourth Annual Conference on Elderly Nutrition. Ritz Carlton March 21, 2003.

Cardiovascular Protection and y regeneration with nutrition, exercise and supplementation. 45th Annual Convention, American Dietetic Association, Puerto Rico Chapter. March 7, 2003.

Nutritional Concepts in Oncology Care. *Corriendo Caminando por la Vida*, Conference for cancer survivors and lay public. Coordinated by CIMEC. Parque Central, San Juan, PR. March 2, 2003

Nutritional Oncology 2003: Basic Principles of Nutrition and Supplementation for Patients dealing with cancer. Empowerment Project for Patients with Cancer. (PI - Dr. Zorrilla) Proyecto Madres y Niños, Puerto Rico Medical Center, San Juan, PR. January 24, 2003

Understanding Homeopathy: The Scientific Basis of Energy Medicine. John Hopkins University, Baltimore, MD (National Center for Homeopathy) June 15, 2002. Encore presentation CE for Pharmacists, School of Pharmacy, San Juan, PR September 23, 2002. Encore Presentation (Updated version) (March 25, 2004)

Nutritional Pharmacology, Health and Dentistry Issues. School of Dentistry-MSU-UPR. September 16, 2002

Cardiovascular Protection and Regeneration with Nutrition, Exercise and Supplementation. 9th Convention of Critical Care and Nutritional Support. April 19, 2002

Improving Sexual Performance with Exercise, Nutrition and Supplementation. CE Conference. School of Pharmacy, San Juan, PR. January 30, 2002. Encore Presentation at the Cayey Campus, UPR, February 28, 2002. Encore Presentation at the Sixth University Symposium on Sexual Education. Intercontinental Hotel, San Juan, PR December 6, 2002.

The Nutritional pharmacological approach to arthritis and inflammation: Moving forward. CE Conference. School of Pharmacy, San Juan, PR. February 13, 2002

Wellness: an investment worth making. Society for Human Resource Management (SHRM) Conference 2001, Puerto Rico Chapter. Riomar Hotel, Rio Grande, Puerto Rico. October 26, 2001.

Drug Use and Nutritional Pharmacology in the Older Adult. Puerto Rico Gerontology Society. Isla Verde, Tropicmar Convention Center. September 22, 2001.

PRESENTATIONS (Cont.):

Nutraceuticals and Phytomedicinals 2001: The Essentials. Annual Convention of the Puerto Rico College of Pharmacists, Riomar Hotel, Rio Grande, Puerto Rico. (CE for Pharmacists) August 23, 2001.

Biochemistry of Dietary Supplements in Health and Disease 2001. 60th Annual Conference of the Puerto Rico College of Chemists (CE for licensed in chemists), Riomar Hotel, Rio Grande, Puerto Rico. August 8, 2001.

Using the Nutritional Facts Table for healthier product selection. El Lucero de Salud (The Bright Star - Educational Center for optimal health through the Ann Wigmore diet). July 2001.

Peña de la Vega*, L, Jiménez-Velázquez*, IZ, Miranda-Massari, JR**, González, MJ. Effect of Ginkgo and Donepezil for treatment of Dementia in Post-Menopausal Hispanic Women. First Inter-American Conference of Pharmacy and Nutrition. Havana Cuba, June 26 2001.

Homeopathy: Basic Principles and Applications. (CE for Pharmacists) PR College of Pharmacists, San Juan, PR. May 19, 2001. Encore presentation at the Annual Convention of the PR College of Pharmacists, Riomar Hotel, Rio Grande, Puerto Rico. August 24, 2001.

Ascorbic Acid and Copper: Effective Cytotoxic Agents Against Metastatic Breast Carcinoma (BRCA) Cells. Guzmán A, Pérez A, Mora E, Gonzalez MJ and Miranda-Massari JR. American Association for Cancer Research (ACCR) (March 24, 2001), Encore Presentation at: Twenty Second Investigation Forum, Medical Sciences Campus, University of Puerto Rico, Intercontinental San Juan Hotel. (April 20, 2001)

Non-Toxic Integrative Treatment of Attention Deficit and Hyperactivity Disorder: A Preliminary Report of Six Cases. Gonzalez MJ and Miranda-Massari JR. Twenty Second Investigation Forum, Medical Sciences Campus, University of Puerto Rico, Intercontinental San Juan Hotel. (April 20, 2001) Encore Presentation at: First Inter-American Conference of Pharmacy and Nutrition. Havana Cuba, June 2001.

Botanical Supplements for Patients with HIV. Miranda-Massari JR. Botanical Garden, University of Puerto Rico, San Juan, PR. ACTU Project (April 5, 2001)

Foundation for a Non-Toxic Integrative Treatment of Attention Deficit and Hyperactivity Disorder. Second Latin American Congress of Attention Deficit and Hyperactivity Disorder. Tropimar Convention Center, San Juan, PR. (March 31, 2001)

Dietary Supplementation with Botanicals. Miranda-Massari JR. A Disfrutar la Primavera; 30th Anniversary of the Botanical Garden, University of Puerto Rico, San Juan, PR. (March 25 2001)

Phytomedicinals Update 2001. Conference to the Puertorrican Society of Natural History, Miranda-Massari JR. Sacred Heart University, San Juan, PR. (February 23, 2001)

Medicinal Plants and Its use. Miranda-Massari JR. Conference, Botanical Garden, University of Puerto Rico, San Juan, PR. (January 21, 2001)

PRESENTATIONS (Cont.):

Non-Toxic Cancer Chemotherapy for Solid Tumors. Gonzalez MJ and Miranda-Massari JR. Poster Presentation at the Comprehensive Cancer Care Conference. Arlington VA (June 2000)

Integrative Medicine: An Innovative Approach to Medical Education and Practice. Gonzalez MJ and Miranda-Massari JR. Sexto Foro Anual de Educación en Ciencias de la Salud, Escuela de Medicina, San Juan, PR (May 2000)

Non-Toxic Cancer Chemotherapy for Solid Tumors. Foro Anual de Investigación del Recinto de Ciencias Médicas, San Juan, PR (April 2000)

Efectos farmacológicos de las Plantas y Otros Nutrientes. Lajas, Puerto Rico. Convención Anual, Colegio de Químicos de Puerto Rico (April 2000)

Dietary Supplementation with Botanicals. Disfruta la Primavera 29th of the Anniversary Botanical Garden, University of Puerto Rico, San Juan, PR. (March 26 2000)

Nutrición Suplementación y Cancer. Gonzalez MJ and Miranda-Massari JR. Tropimar Beach Club. 3^{era} Conferencia de Promoción de la Salud. Dept. de Salud. (October 1999)

Nutritional Supplementation in Health and Healing. Miranda-Massari JR. For Arnet Pharmaceutical Corp. Ciudad de Guatemala, Guatemala (July 1999)

Compliance of Penicillin Prophylaxis in Puerto Rico Children with Sickle Cell Anemia. Rodríguez, J.F., Miranda-Massari, J.M., Molina, R., Santiago-Borrero, P.J., Research and Education Forum, Medical Sciences Campus, University of Puerto Rico, San Juan, Puerto Rico (March 1996)

Tuberculosis: Patient Care and The Health Professional, Ponce, Puerto Rico (October 1995) and San Juan, Puerto Rico (February 1996)

Pharmaceutical Care in the Renal Patient, Caguas, Puerto Rico (March 1995), San Juan, Puerto Rico (August 1995), Mayagüez, Puerto Rico (March 1996), Bayamón (Feb 97)

Applied Pharmacokinetics of Cardiovascular Agents for Pharmaceutical Care, San Juan, Puerto Rico (February 1995)

The Patient with Diabetes and Hypertension: An Effective Pharmaceutical Intervention, Puerto Rico College of Pharmacists Convention, Cerromar Hotel, Dorado, Puerto Rico (September 1994)

Pharmacological Update in the Treatment of Epilepsy, Puerto Rico College of Pharmacists Convention, Cerromar Hotel, Dorado, Puerto Rico (September 1994)

Faculty Training Model to Encourage the Development of Thinking Skills. Sixth National Encounter of Education and Thinking. Ponce Hilton Hotel, Ponce, Puerto Rico (April 1994)

PRESENTATIONS (Cont.):

Multisource Pharmaceutical Products and Therapeutic Equivalence, Puerto Rico Medical Association, San Juan, Puerto Rico (April 1994)

Update on Therapeutic Drug Monitoring, Continuing Education Course. Puerto Rico College of Pharmacists Convention. Caribe Hilton Hotel, San Juan, Puerto Rico (September 1993)

Principles of Pharmacology, Intensive Review Course of Internal Medicine for the Boards and Update/Review for Practicing Physicians. School of Medicine, University of Puerto Rico, Cardiovascular Center of Puerto Rico, San Juan, Puerto Rico (August 1993 -1996)

Clinical Application of Pharmacokinetics, Emergency Medicine Conference, School of Medicine, University of Puerto Rico, University Hospital, San Juan, Puerto Rico (July 1993)

Cardiac arrhythmias and its pharmacotherapy. Mini-course for pharmacists. University Hospital of Puerto Rico, San Juan, Puerto Rico (March 1993)

Digoxin total and unbound concentrations in patients treated with digoxin-specific antibody fragments. A comparison of two methods. 22nd Annual Southeastern Conference for Post-Graduate Pharmacy Education and Training, Athens, GA (April 1991)

Coordinated educational strategies to improve medication utilization among non-English speaking Hispanic elderly. Nat. Council on Aging Meeting, Washington, D.C. (April 1990)

Misoprostol in NSAID induced ulcers. Seminar presented to clinical faculty and students, Philadelphia College of Pharmacy and Science, Philadelphia, PA (October 1989)

Clinical trials in the geriatric population. Workshop conducted in Spanish, International Pharmacy Students Federation Congress, Philadelphia, PA (August 1989)

MEMBERSHIP IN HONORARY AND PROFESSIONAL SOCIETIES:

Colegio de Farmacéuticos de Puerto Rico
American College of Clinical Pharmacy (ACCP)
American Association of Colleges of Pharmacy (AACP)
Sociedad de Honor Rho Chi
American Botanical Council
Mitochondrial Medicine Society

PUBLICATIONS:

1. González MJ, Miranda-Massari JR. Advances in Vitamin C Research. Letter to the Editor. *Integr Cancer Ther.* 2006;5:7-8.
2. Riordan HD, Casciari JJ, Gonzalez MJ, Riordan NH, Miranda –Massari JR, Taylor P and Jackson JA. A pilot clinical study of continuous intravenous ascorbate in terminal cancer patients. *PR Health Sci J.* 2005;24:269-76.

PUBLICATIONS: (Cont.)

3. Friedman M, Miranda-Massari JR and Gonzalez MJ. Supraphysiological Cyclic Dosing of Sustained Release T3, in Order to Reset Low Basal Temperature. Submitted to the PR Health Sci J. (September 2005).
4. González MJ, Miranda-Massari JR, Ricart CM, Guzmán AM. Effect of a dietary supplement combination on weight management, adipose tissue, cholesterol and triglycerides in obese children. PR Health Sci J. 2005 Sep;24:211-3.
5. Casciari JJ, Riordan HD, Miranda-Massari JR and Gonzalez MJ. Effects of High Dose Ascorbate Administration on L-10 Tumor Growth in Guinea Pigs. PR Health Sci J. 2005;24:145-50.
6. González MJ, Miranda-Massari JR and Riordan HD. Vitamin C as an Ergogenic Aid. The Journal of Orthomolecular Medicine. 2005;20:23-27.
7. González MJ, Miranda-Massari JR et al. Nutritional Oncology Review: Ascorbic Acid and Cancer: 25 years later. Integr Cancer Ther. 2005;4:32-44.
8. Miranda-Massari JR, Jiménez FJ, Pérez J y González MJ. Suplementación Básica para la Disfunción Sexual Femenina y Masculina. Revista Colegio Farmacéuticos de PR. 2005;64:33-41.
9. González MJ, Miranda-Massari JR, Ricart CM and Guzmán AM. Effect of a dietary supplement combination on weight management, adipose tissue, cholesterol and triglycerides in obese children. Submitted for publication, December 2004.
10. Kaye S, Ortiz T, Miranda-Massari JR and González MJ. Efectos adversos e interacciones de productos medicinales botánicos. Boletín de la Asociación Médica de Puerto Rico. 2004;95:32-41.
11. Miranda-Massari JR and González MJ. Toward a new Era in Research, Education and Healing (Editorial Comment) PR Health Sci J. 2004;23:85-6.
12. Riordan HD, Riordan NH, Jackson JJ, Casciari JJ, Gonzalez MJ, Miranda-Massari JR, Mora EM, Rosario N and Rivera A. Intravenous Vitamin C as a Chemotherapy Agent: A report on Clinical Cases. PR Health Sci J. 2004;23:115-8.
13. Kumar S, Miranda-Massari JR, González MJ and Riordan HD. Intravenous Ascorbic Acid as a treatment for Severe Jellyfish Stings. PR Health Sciences Journal. 2004;23:125-6.
14. Mikirova N, Riordan, HD, Jackson JA, Wong K, Miranda-Massari JR, and Gonzalez MJ. Erythrocyte membrane fatty acid composition in cancer patients. PR Health Sci J. 2004;23:107-14.

PUBLICATIONS: (Cont.)

15. González MJ, Miranda-Massari JR and Ricart CM. Effect of a dietary supplement combination on weight management, adipose tissue, cholesterol and triglycerides in obese subjects. *PR Health Sci J.* 2004;23:121-3.
16. Meng X, Riordan NH, Riordan HD, Mikirova N, Jackson JJ, Gonzalez MJ, Miranda-Massari JR, Mora EM. Fatty Acid Composition variability between Normal and Malignant Cell Lines. *PR Health Sci J.* 2004;23:103-6.
17. González MJ, Ricart CM and Miranda-Massari JR. A Vitamin-mineral and herb dietary supplement effect on blood glucose in uncontrolled type II Diabetic Subjects. *PR Health Sci J.* 2004;23:119-20.
18. González MJ, Miranda-Massari JR et al. Redox compounds as chemopreventive agents for breast cancer. *Physician and Patients.* Submitted Physicians & Patients. November 2003.
19. Riordan HD, Hunninghake RB, Riordan NH, Jackson JJ, Meng X, Taylor P, Casciari JJ, Gonzalez MJ, Miranda-Massari JR, Mora EM, Rosario N and Rivera A. Intravenous Ascorbic Acid: Protocol for its Application and Use. *PR Health Sci J.* 2003;22(2):225-32.
20. Gonzalez MJ, Miranda-Massari JR and Riordan HD. The Vitamin C and DNA damage revisited. *Journal of Orthomolecular Medicine* 2002;17:225-8.
21. Meng XL, Riordan NH, Casciari JJ, Zhu Y, Zhong J, Gonzalez MJ, Miranda-Massari JR and Riordan HD. Effects of a high molecular mass *Convolvus arvensis* extract on tumor growth and angiogenesis. *PR Health Sci J.* 2002;21(4):323-8.
22. Gonzalez MJ, Mora EM, Miranda-Massari JR. et al. Inhibition of Human Breast Carcinoma Cell Proliferation by Ascorbate and Copper. *Puerto Rico Health Sciences Journal* 2002;21(1) 21-3.
23. Gonzalez MJ, Mora EM, Miranda-Massari JR. et al. Orthomolecular Oncology: a Mechanistic View of Intravenous Ascorbate Chemotherapeutic Activity. *Puerto Rico Health Sci J.* 2002;21(1) 39-41.
24. Haddock L, Romaguera J, Sierra-Zorita, Jiménez-Velázquez, IZ, Miranda-Massari, JR. Osteoporosis: un Análisis Actualizado Para Médicos en el Cuidado Primario. *Publicación de Educación Médica Continuada. Escuela de Medicina, Universidad de Puerto Rico. Monografía.* (January 2002)
25. Peña de la Vega*, L, Jiménez-Velázquez*, IZ, Miranda-Massari, JR**, González-Guzmán, MJ. Effect of Ginkgo and Donepezil for treatment of Dementia in Post-Menopausal Hispanic Women. *First Inter-American Conference of Pharmacy and Nutrition.* Havana Cuba, June 2001. (Abstract)

PUBLICATIONS: (Cont.)

26. Gonzalez MJ, Miranda-Massari JR, Guzmán A and Mora E. Non-Toxic Chemotherapy for Cancer. First Inter-American Conference of Pharmacy and Nutrition. Havana Cuba. (Abstract). June 2001.
27. Miranda-Massari JR, Gonzalez MJ and Jiménez-Velásquez IZ. Non-Toxic Integrative Treatment of Attention Deficit and Hyperactivity Disorder: A Preliminary Report of Six Cases. First Inter-American Conference Pharmacy and Nutrition. Havana Cuba, June 2001. (Abstract)
28. Pérez Y, Guzmán A, Mora E, Gonzalez MJ and Miranda-Massari JR. Ascorbic Acid and Copper: Effective Cytotoxic Agents Against Metastatic Breast Carcinoma (BRCA) Cells. (Poster 1150) Proceedings of the American Association for Cancer Research (ACCR) March 2001;42.
29. Gonzalez MJ, Matos MI, Miranda-Massari JR et al. Integrative Medicine an Innovative Approach to Medical Education and Practice. Puerto Rico Health Sci J. 2000;19(4):389-92.
30. Gonzalez MJ, Miranda-Massari JR, Mora E and Matta J. Inhibition of Human Breast Carcinoma Cell Proliferation by Ascorbate and Copper. (Abstract) Comprehensive Cancer Care Conference. (June/00)
31. Miranda-Massari JR and Gonzalez MJ. Yogur: Nutrición Viva. Revista Bienestar; Vol 2(3) 2000.
32. Gonzalez MJ, Matos MI, Miranda-Massari JR. Ethical Issues in Nutritional Sciences for the Next Century: Nutrition Research and Counseling on Nutraceutical Supplementation and Disease. PR Health Sci J. 2000;19(2) 161-3.
33. Miranda-Massari JR and Gonzalez MJ. Integrative Medicine: An innovative approach to medicine and medical education for the next millennium. Biomedicina 2000;3(1):s5-6.
34. Miranda-Massari JR and Gonzalez MJ. Perspectivas de los Fitomedicinales en la Farmacia del Nuevo Milenio. Revista del Colegio de Farmacéuticos 2000;59(1).
35. Gonzalez MJ, Miranda-Massari JR. On Integrative Medicine. Letter to the Editor. Biomedicina 1999;2(9):432,455.
36. Nesbitt L, Ricart CM, Miranda Massari JR and Gonzalez MJ. Long Term Effect of a High Fiber Dietary Supplement on Total Body Weight, Fecal Fat, Lipid Profile and Blood Pressure in Female Human Subjects. Biomedicina 1999;2(8):s9-12.
37. Miranda Massari JR, Bravo Y and Pellot, A. Boletín Informativo Sobre Medicamentos para Pacientes que reciben Diálisis. Consejo Renal de Puerto Rico. (marzo 1998)
38. Miranda Massari JR, Perez L and Santiago L. Boletín Informativo Sobre Medicamentos para Pacientes con Trasplante Renal. Consejo Renal de Puerto Rico. marzo 1998.

PUBLICATIONS: (Cont.)

39. Miranda Massari JR. Uso de Glucosamina y Condroitin en el paciente con osteoartritis. *Bienestar*.1998;2:32-6.
40. Peloquin, C. Miranda-Massari, J.R. et. al., Incidence of Low Anti-tuberculosis Drug Concentrations in Patients with AIDS. *Annals of Pharmacotherapy* 30(9):919-24 (1996).
41. Miranda-Massari, J.R. and García de Jesús, I., "Atención Farmacéutica en el paciente con Tuberculosis. "Revista del Colegio de Farmacéuticos de Puerto Rico" 54(5):13-26 (1995)
42. Miranda-Massari, J.R. and Vázquez, A., "Aspectos terapéuticos del Cartílago de Tiburón". "Revista del Colegio de Farmacéuticos de Puerto Rico" 54(4):12-14 (1995)
43. Rodríguez-Orengo, J., Maldonado, W., Miranda-Massari, J.R. et. al., Pharmacokinetics of Zidovudine in Puerto Rican Children with HIV Infection. Abstract. Fourth International AIDS Symposium (December 1994)
44. Miranda-Massari, J.R. and Maldonado, W., Farmacocinética Aplicada: Fenitoína. *Revista OFIL (Publicación oficial de la Organización de Farmacéuticos Ibero-Latinoamericanos)* 1994; 4(1):42-54.
45. Kirk, Julienne K., Dupuis, Robert E., Miles, Michael V., Gaddy, Gary D., Miranda-Massari, Jorge R., and Williams, Dennis M. (1994). Salivary Theophylline Monitoring: Re-Assessment and Clinical Considerations. *Therapeutic Drug Monitoring* 16(1):58-66.
46. Miranda-Massari, J.R. and Maldonado, W., Farmacocinética Aplicada: Aminoglucósidos. *Revista OFIL (Publicación oficial de la Organización de Farmacéuticos Ibero-Latinoamericanos)* 1993; 3(6):396-407.
47. Miranda-Massari, J.R. and Maldonado, W., Farmacocinética Aplicada: Teofilina. *Revista OFIL (Publicación oficial de la Organización de Farmacéuticos Ibero-Latinoamericanos)* 1993; 3(4):264-271.
48. Miranda-Massari, J.R. and Maldonado, W., Farmacocinética Aplicada: Principios Básicos. *Revista OFIL (Publicación oficial de la Organización de Farmacéuticos Ibero-Latinoamericanos)* 1993; 3(3):207-217.
49. Miranda-Massari, J.R., Dupuis, R.E., Clinical cases in renal disease and transplantation in: Herfindal ET and Hirshman JL. Eds. *Clinical Pharmacy and Therapeutics Workbook*. Williams and Wilkins, Baltimore (1993)
50. Miranda-Massari, J.R., Miles, M.V., Soucie, M. and Dupuis, R.E., Comparison of Digibind^R interference between FPIA and ELIA digoxin methods. Abstract presented at the Meeting of the American College of Pharmacology (July 1992)
51. Miles, M.V., Miranda-Massari, J.R., Dupuis, R.E. et. al., Determination of Salivary Digoxin with a Dry Strip Immunometric Assay. *Ther. Drug Monit.* 1992 14:249-254.

52. Miranda-Massari, J.R., Dupuis, R.E., Anticonvulsants-pharmacotherapeutic issues in the critically ill patient. AACN Clinical Issues in Critical Care Nursing, 1990;2(4):639-56.
53. Miranda-Massari, J.R., Dextran 1: Its use in the clinical setting. Hospital Therapy 1989;14:25-26 (October 1989)

Book Citation

Cancer Nutrition and Survival. 2005 Steve Hickey and Hilay Roberts. Acknowledgments (p. 6) and vitamin C chapter (p.165-180)

Ascorbate, The Science of Vitamin C. 2004 Steve Hickey. ISBN: 1-4116-0724-4. Chapter on Vitamin C as treatment for cancer (p.197). Discussion Mayo Clinic Studies.

Institutional Service in Committees

Name	Type	Participation	Level	Year
Human Rights Committee (IRB)	Standing	member	Campus	1999-2002
Goal V (Meta V)	Special	member	Campus	1999-2001
Computer Committee	Standing	member	School	1999-2001 2003-2005
Personnel Committee	Standing	member President	School	1999-2000 2000-2004
Curriculum Sub-Committee	Special	member	School	1999-2001

OTHER ACTIVITIES:

Senior Researcher, DIABETES CENTER for Puerto Rico. Jan 2005

Member of Academic and Research Council International Nutritional Education Humanitas International Foundation. January 2005

Interdisciplinary Committee for the Design of a Continuing Education Program for Physicians in the Integrated Treatment of Addiction. Commissioned and Coordinated by the Puerto Rico College of Physicians and Surgeons. May 2004 - December 2004.

Public Health Policy Recommendations. Health nutritional issues submitted to Senator Ortiz Daliot. May 2004. 1. Obesity in childhood, 2. Nutritional Facts of Foods in Fast Food Chain Restaurants and 3. Vaccines with thimerosal.

New Courses

1. On-Line course Complementary and Alternative Practices in Health and Healing: An Integrative Medicine Approach. (Dr. JR Miranda Massari (Creator and Coordinator) and Dr. MJ Gonzalez (Co-creator and Co-Coordinator). Title V Project Proposal for Online Course Development. Grant April 2004. Finished December 2004.

OTHER ACTIVITIES: (cont.)

New Courses

2. Advanced Practicum in Integrative Medicine (FARM 7251) Dr. JR Miranda Massari (Creator and Coordinator) and Dr. MJ Gonzalez (Co-creator). 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.
3. Complementary and Alternative Practices in Health and Healing: An Integrative Medicine Approach. (INTD 7995/INTD 5015) (Dr. JR Miranda Massari (Creator and Coordinator) and Dr. MJ Gonzalez (Co-creator and Co-Coordinator) 3 credits (54 hours) First Course on the area of Complementary and Alternative Medicine in the Medical Sciences Campus, UPR) 1999- to date. The course gives an overview of various health belief systems in Complementary and Alternative Medicine (CAM) and examines the current trends in the utilization of some of these practices and its implications. Specific therapeutic practices such as herbology, orthomolecular nutrition, detoxification, acupuncture, physical manipulation, mind-body medicine will be discussed.
4. Research Topics (F- 7256) Title: HPLC analysis of Vitamin C for Cancer Research. Summer 2004.
5. Topics in Pharmacy Practice (F4282) Title: Clinical Literature: Analysis, Creation and the Publication Process. Summer 1999.

Athletic Performance Consultant.

1. Puerto Rican National Basketball Team. Pre-Olympic Tournament. August 20-31, 2003 (This team gave the USA team its first defeat in Olympic Games since using NBA players)
2. Puerto Rican National Swimming/Waterpolo team 2003-2004.

Staff Pharmacist. Farmacia Las Monjas, 207 Uruguay Street. San Juan (Hato Rey), PR 00917.

Consultant. Wyeth Nutritionals. D&G Distributors. Center for the Improvement of Human Functioning. Randox Laboratories Ltd.

Mentor. Post Doctoral Masters in Clinical Research Program. University of Puerto Rico, Medical Sciences Campus, College of Health Related Professions and School of Medicine.

Institutional Review Board (IRB). Designated by the Chancellor as member of the IRB of the Medical Sciences Campus, University of Puerto Rico from 1999-2002.

CIMEC Project. Centro Integral de Manejo y Estudio del Cáncer (Integrated Center for the Management and Study of Cancer). Research Committee. Feb 2001.

OTHER ACTIVITIES: (cont.)

INBIOMED PR Project. INBIOMED PR is a multidisciplinary health promotion initiative aimed to maximizing human wellbeing by the use of effective, non-toxic protocols. The group is steered by investigators and clinicians with a broad range of specialties working together with the patient. INBIOMED PR stands for Institute of Biochemical Medicine of Puerto Rico. This project has a Research Branch, an Educational Branch and a Service Branch.

RECNAC II Project. RECNAC II is the main research project of **InBioMed**, Research Branch. It is a research initiative aimed to the development of effective, non-toxic cancer treatments. The group is steered by three investigators who suffered a personal loss due to cancer. RECNAC is cancer written backwards, meaning that our ultimate goal is to develop a protocol that will revert the cancer process.

TV Interviews

1. **WAPA TV**, Luz Nereida Vélez. **Program: Noticentro 4.** Interview on the **Wilson Temperature Syndrome**. August 1, 2005.
2. **WIPR TV**, Program: **Dimelo MD.** Vicepó Ivonne (producer) Lilli García (Interviewer) on **Reasons for Supplementation**. March 30, 2004.
3. **WIPR TV**, Program: **Dimelo MD.** Vicepó Ivonne (producer) Lilli García (Interviewer) on **Non-toxic Cancer Treatments**. September 2, 2003.
4. **WIPR TV**, Program: **Dimelo MD.** Vicepó Ivonne (producer) Lilli García (Interviewer) on **Anti-aging Medicine**. April 20, 2003.
5. **WAPA TV**, Luz Nereida Vélez. **Program: Noticentro 4.** Special TV Series on the subject of **weight loss diets and dietary supplementation**. March 19, 2003.
6. **Channel 15 TV**, Programa Salud. **Investigaciones de Cancer (RECNAC II)**. July 2000.
7. **Channel 15 TV**, Programa Salud. **Educación y Práctica en Medicina Integrativa (InBioMed)** July 2000.

Radio Interviews

1. **WQII 1140 AM La Emisora de la Mujer.** Programa Gente. Nieves Gonzalez. Medicina Integrada la opción del futuro. December 22, 2004.
2. **WIPR 9400 AM Emisora Radial del Gobierno de Puerto.** Despierta Puerto Rico. Alejandro Primero. Esteroides Anabólicos. May 5, 2004.
3. **WIAC 7400 AM Cadena Radio Puerto Rico.** Program Nestor Figueroa Lugo Analiza. Subject: Scientific Forum on Vieques Health and Environmental Contamination. May 11, 2000.

OTHER ACTIVITIES: (cont.)

4. **WKAQ 5800 AM Cadena Radio Reloj Puerto Rico.** Program Mesa Redonda Subject: Nutritional Supplementation as a tool in Integrative Medicine. Rosa Julia Padilla. March 16, 2000.

Press Interviews/articles (Periodicals)

1. Ingenio Boricua en formula anticáncer. Marga Parés Arroyo. El País, p 10. Periódico El Nuevo Día. Lunes 7 de noviembre 2005.
2. Piden una investigación mas detallada. Alexis Figueroa Cancel. Acción Deportiva. P. 82-83. Periódico Primera Hora. Martes 1 de noviembre, 2005.
3. Vitamina C, la diferencia entre ganar y perder. Alexis Figueroa Cancel. Acción Deportiva. P. 82-83. Periódico Primera Hora. Sábado 29 de octubre, 2005.
4. Nutrición y Suplementación contra Cáncer (Oncología Nutricional). Revista En Salud, Periódico El Nuevo Día. 23 de Agosto 2005. Pág. 4-6.
5. Los efectos adversos de los esteroides anabólicos Por Elba Betancourt Díaz. Especial Periódico El Nuevo Día, Martes 22 de febrero de 2005
6. Anatomía del amor; El poder sanador de la sexualidad. Ileana Delgado Castro. Revista En Salud, Periódico El Nuevo Día. 22 de Febrero 2004. Pág. 10-12.
7. ¿Original o Genérico? Ileana Delgado Castro. Revista Domingo, Periódico El Nuevo Día. 1 de Febrero 2004. Pág. 8-9.
8. Estudiosos unidos por el dolor. Teresita Heydrich Blanco, Sección Por Dentro, Periódico El Nuevo Día. 10 de Junio 2002. Pág. 10-12.
9. Florece un rayo de luz contra el cáncer. Teresita Heydrich Blanco, Sección Por Dentro, Periódico El Nuevo Día. 13 de Mayo 2002. Pág. 55.
10. González M.J. y Miranda JR. Dieta y Ejercicio, Periódico La Perla, Julio 2001.
11. ¡Ojo con esas mezclas! Ileana Delgado Castro. Revista Domingo, Periódico El Nuevo Día. 5 de Noviembre 2000. Pág. 10-11.
12. ¿Es el tamoxifeno una opción? ConSalud. Periódico El Nuevo Día electrónico. 19 de septiembre de 2000.

Reviewer and Translator. The Annals of Pharmacotherapy Journal (1992-to date)

Scientific Advisory Board of AIANE

AIANE is an educational organization focused on healthcare and nutrition as basis of prevention of chronic diseases. AIANE is an Internet based educational institution, aimed to facilitate the development of the health related careers.

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Project Coordinator/Liason Guatemala MedicHelp Project. Project to obtain/send donations of medical supplies/equipment and literature in support of the HueHuetenango Medical Association (in Guatemala) which provided free medical services to poor people in remote areas of the country (1990-1991)

Advanced Cardiac Life Support (ACLS) Certification. American Heart Association (1991-1995)

Cardiopulmonary Resuscitation Certification (CPR) American Heart Association (1990-1995)

Radio program Co-producer and Interviewer. Cognosis Radio Station of the University of Puerto Rico, WRTU 89.7 MHz, FM (1984-87)

RESEARCH PROJECTS:

PharmacoKinetics of Vitamin C in Normal Volunteers and Cancer Patients. Miranda-Massari JR, Duconge J, Bloom J, Jimenez B and Gonzalez MJ. School of Pharmacy, School of Medicine and School of Public Health. Medical Sciences Campus, University of Puerto Rico (2005-to date)

Regeneration of mitochondrial function in malignant cells and re-differentiation. We have found mitochondrial abnormalities in malignant cells. We believe this to be the main signal that drives gene expression toward the malignant state. This idea comprises what we have called "The Unified Bio-energetic Theory of Carcinogenesis". This project aims to find ways to correct the mitochondrial abnormalities with the use of non-toxic nutrients and other strategies to provoke cell re-differentiation or cell death. (2001-to date)

Non-Toxic Cancer Chemotherapy for Solid Tumors. Effect of Ascorbate, copper and oxygen on malignant cells in tissue culture, animal models and human subjects. González MJ, Miranda-Massari JR, Mora E and Matta J. School of Public Health, School of Medicine, School of Pharmacy and Ponce School of Medicine. (1998-to date)

Compliance and Pharmacokinetics Study of Penicillin Prophylaxis in Sickle Cell Patients. Miranda Massari, JR, Rodríguez Orengo J, Rivera Caragol E and Santiago Borrero P. School of Pharmacy, Medical Sciences Campus, University of Puerto Rico, Pediatric Hospital, Puerto Rico Medical Center, San Juan, Puerto Rico (1994-96)

Absorption of Anti-tuberculosis Medication in AIDS Patients: A Multicenter Pilot Study. Pelloquin, C., Nita, W., Burman, W., Brudney, K., McGuinness, M., Miranda Massari, J.R. and Gerena, G. National Jewish Center, Denver, Co., VAMC, NY, Los Angeles Public Health, San Antonio, TX, School of Pharmacy, Medical Sciences Campus, University of Puerto Rico, Belleview Hospital (1993-95)

Pharmacokinetics of AIDS Related Drugs. Rodríguez Orengo JF, Pérez A, Maldonado W, Miranda-Massari JR, Diaz C, Vázquez G and Zorrilla C. (1993-95)

RESEARCH PROJECTS:

Therapeutic Drug Monitoring of carbamazepine in serum and saliva of Hispanic children with neurologic disorders. Miranda Massari JR, Pérez Gilbe A, Miranda Salgado HS and Toro Vizcarrondo CE. School of Pharmacy and Public Health, Medical Sciences Campus, University of Puerto Rico and the Hospital of the City of San Juan (1993-95)

Pharmacokinetic studies of AIDS related drugs in puertorrican children and adults. Rodríguez, JF, Pérez A, Maldonado W, Miranda Massari JR, Díaz C, Vázquez G and Zorrilla, C. School of Pharmacy and School of Medicine, Medical Sciences Campus, UPR, the Children's Hospital of Puerto Rico and the University Hospital of Puerto Rico (1992-5)

Evaluation of two immunoassays for the determination of salivary and serum digoxin concentrations in patients with renal failure. Miranda Massari JR, Dupuis RE and Miles MV. UNC Hospitals and School of Pharmacy, Chapel Hill, NC (1991-1992)

Digoxin analysis by fluorescence polarization immunoassay and by enzyme labeled immunoassay. Miles MV, Zaritsky A, Mill MR, Dupuis, RE and Miranda Massari JR. Comparison of serum to saliva concentrations. UNC Hospitals and School of Pharmacy, Chapel Hill, NC (1991-1992)

Digoxin total and unbound concentrations in patients treated with digoxin-specific antibody fragments: A comparison of two methods. Miranda Massari, J.R., Dupuis, R.E., Sucie, M. and Miles, M.V. UNC Hospitals and School of Pharmacy, Chapel Hill, NC (1991-1992)

Impact of computerized pharmacokinetics forecasting on practitioner competency, kinetic consultation activities and patient outcomes. A demonstration proposal from Matzke GR, Dupuis RE, Carson SW, Frye R and Miranda Massari JR. UNC Hospital and School of Pharmacy, Chapel Hill, N.C. (1991-1992)

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