

CURRICULUM VITAE

Date: December 23, 2010

Marcelo E. Vazquez, Ph.D., M.D.

I. GENERAL BIOGRAPHICAL INFORMATION

A. Personal

1. Name: Marcelo E. Vazquez
2. Place of Birth: La Plata Argentina.
3. Citizenship: United States of America
4. Address: 52 April Lane, Hicksville, New York, 11801
5. Cell Phone: 516 512 2038
6. Email: Vazquez.M1958@gmail.com, vazquez@bnl.gov

B. Education

1. Graduate Education:

- Institution: National University of La Plata, Medical School, La Plata, Buenos Aires, Argentina
Degree: M.D.
Date of Graduation: 1984
- Institution: National University of La Plata Medical School, La Plata, Buenos Aires, Argentina
Degree: Ph.D., Neurobiology and Radiobiology
Thesis Title: The Effects of Ionizing Radiation on the Development of the Visual System
Date of Graduation: 1990

2. Postgraduate Training and Fellowship Appointments:

- 1984-1987 Resident, Dept. of Radiation Therapy, San Martin General Hospital, Argentina.
- 1987-1988 Chief Resident, Dept. of Radiation Therapy, San Martin General Hospital, Argentina.
- 1986-1990 Doctoral Research Fellow, Radiobiology Department, National Commission of Atomic Energy, Buenos Aires, Argentina and Dept. of Neuroembryology, Multidisciplinary Cellular Biology Institute, La Plata, Argentina.

1990-1991 Postdoctoral Research Fellow, Department of Developmental Neurobiology, School of Medicine, Biomedical Center, Uppsala University, Sweden.

C. Academic Appointments

- 1991 - 1995 Associate Research Scientist, Dept. of Ophthalmology, Eye Radiation & Environmental Research Laboratory, Columbia University, New York.
- 1995 - 1997 Senior Research Associate, NASA Beam Line Liaison Scientist, Biology Department, Brookhaven National Laboratory, Upton, New York.
- 1997 - 1998 Assistant Scientist, NASA Beam Line Liaison Scientist, Biology Department, Brookhaven National Laboratory, Upton, New York.
- 1998 NSF/STA Visiting Fellow, National Institute of Radiological Sciences, Chiba, Japan.
- 1999 - 2001 Assistant Scientist, NASA Liaison Scientist, Medical Department, Brookhaven National Laboratory, Upton, New York.
- 2000 - 2004 Associate. Team Leader, Radiation Effects Team, National Space Biomedical Research Institute, Houston, Texas.
- 2001 - 2003 Member of the Center for Data Intensive Computing, Computer Science and Applied Mathematics and Statistics, State University of New York at Stony Brook, Brookhaven National Laboratory, Medical department, Upton, New York.
- 2003 - Faculty Member, Department of Biomedical Engineering, Stony Brook State University of New York.
- 2001 - 2004 Associate Scientist, NASA Liaison Scientist, Medical Department, Brookhaven National Laboratory, Upton, New York.
- 2004 - 2006 Scientist, NASA Liaison Scientist, Medical Department, Brookhaven National Laboratory, Upton, New York.
- 2004 - 2006 NSBRI/NASA Space Radiation Liaison, Brookhaven National Laboratory, Upton, New York.
- 2004 - 2006 Director, NASA Space Radiation Summer School, Brookhaven National Laboratory, Upton, New York.
- 2006 - 2008 NSBRI Space Radiation Liaison, Baylor College of Medicine, Houston, Texas.
- 2007 NSBRI Field Research Participant, NASA/Mars Institute/Haughton Mars Project, Arctic Circle, Devon Island, Canada.
- 2008 NSBRI Field Research Participant, NASA/Mars Institute/Haughton Mars Project, Arctic Circle, Devon Island, Canada.
- 2008 - 2010 NSBRI Senior Scientist, Space Radiation, Baylor College of Medicine, Houston, Texas.

- 2009 - 2010 Faculty Member, Center of Space Medicine, Baylor College of Medicine, Houston, Texas.
- 2009 - Faculty Member, Mars Institute, NASA Ames Research Center, Moffett Field, California.
- 2010 NSBRI Senior Scientist, Baylor College of Medicine, Houston, Texas.
- 2010 Professor, Radiation Medicine Department, Loma Linda University Medical Center, CA.

D. Administration and other services:

- 1999 - 2006 Project Manager, Medical Dept. Team, support of NASA-BNL Heavy Ion Program, Brookhaven National Laboratory, Upton, New York
- 2000 - 2006 Chairman, Medical Dept. Experimental Safety Review Committee, Brookhaven National Laboratory, Upton New York.
- 2002 - 2003 Member of the RHIC/AGS Users Executive Committee, Brookhaven National Laboratory, Upton, New York.
- 2004 - 2006 Member, Medical Department Strategic Planning Committee, Brookhaven National Laboratory, Upton, New York.
- 2004 - 2006 Member, Medical Department Laboratory Animal Facility Advisory Committee, Brookhaven National Laboratory, Upton New York.
- 2005 - 2010 Member of the National Space Biomedical Research Institute' Executive Science and Medical Council.
- 2007 - 2010 Program Coordinator, NSBRI EVA Lunar Dosimetry Project, National Space Biomedical Research Institute.
- 2008 - 2010 Project Manager, Center for Acute Radiation Research (CARR), National Space Biomedical Research Institute.
- 2009 - 2010 Executive Secretary, CARR Scientific Advisory Council, National Space Biomedical Research Institute.
- 2010 NSBRI Senior Scientist, Development of Special Projects, Baylor College of Medicine, Houston, Texas.
- 2010 - Coordinator of Radiobiology Training Course, Radiation Oncology Residents Program, Loma Linda University Medical Center, CA.
- 2011 - Director, RARAF Microbeam Training Course, Columbia University, NY.

E. Honors

- 1988 Doctoral Research Fellowship, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.
- 1990 Swedish Institute, Council of Europe Scholarship. Uppsala University, Sweden.
- 1991 Wenner-Gren Foundation Scholarship, Uppsala University, Sweden.

1994 CNES, SFRP Young Investigator Award.
1998 NSF-STA Fellowship, Japan Science and Technology Corporation.
2005 Travel Award, National Institute of Nuclear Physics, Naples, Italy.
2000 - 2008 Vice-Chair Scientific Com. F, Life Sciences as Related to Space, COSPAR.

II. RESEARCH INFORMATION

A. Research Support

Title: Ionizing Radiation and its Effects on Cardiovascular Function in the Context of Space Flight

Funding Agency: NASA

Role: Co-Investigator

Principal Investigator: Daniel Berkowitz

Dates of Funding: 2005-2009

Title: Micro-PET Studies of Brain Damage by Heavy Ion Particles

Funding Agency: NASA

Role: Co-Investigator

Dates of Funding: 2003-2004

Principal Investigator: John Gatley

Title: Risk Assessment and Chemoprevention of HZE Induced CNS Damage

Funding Agency: National Space Biomedical Research Institute

Role: Principal Investigator

Dates of Funding: 2002-2006.

Heavy Ion Microbeam and Micron Resolution Detector

Funding Agency: NSBRI

Role: Co-Investigator

Dates of Funding: 2001-2004

Principal Investigator: Veljo Radeka

Title: CNS Damage and Countermeasure

Funding Agency: National Space Biomedical Research Institute

Role: Principal Investigator

Dates of Funding: 2001-2005

Title: The Effects of Methamphetamine on Neural Stem Cells *In Vitro*

Funding Agency: DOE

Role: Principal Investigator

Dates of Funding: 1999-2000

B. National Scientific Participation:

1. Journal Reviewer:

- Radiation Research Journal
- International Journal of Radiation Biology
- Advances in Space Research

2. Professional Memberships:

- Radiation Research Society

C. Organizing Roles in Special Scientific Meetings:

Organizing Committee, International Space Medicine Summit, May 2010, James A. Baker III Institute for Public Policy Rice University Houston, Texas.

Organizing Committee, International Space Medicine Summit, May 2009, James A. Baker III Institute for Public Policy Rice University Houston, Texas.

Organizing Committee, International Space Medicine Summit, May 2008, James A. Baker III Institute for Public Policy Rice University Houston, Texas.

Main Scientific Organizer, Symposium: Space Radiation Effects on the Central Nervous System and Other Non-Cancer Effects, 37th Scientific Assembly of COSPAR (Committee on Space Research); Montreal, Canada, 2008.

Organizer, Radiation Medical Countermeasures Workshop, National Space Biomedical Research Institute, South Shore Harbor Resort, Texas, 2006.

International Scientific Committee, 4-th International Workshop on Space Radiation Research and 17-th Annual NASA Space Radiation Health Investigators' Workshop, Moscow – St. Petersburg, 2006.

Main Scientific Organizer, Symposium: Space Radiation Biology, 36th Scientific Assembly of COSPAR (Committee on Space Research); Beijing, China, 2006.

Organizing Committee and International Scientific Committee, 3rd International Workshop on Space Radiation Research and 15th Annual NASA Space Radiation Health Investigators' Workshop, Port Jefferson, New York, 2004.

Main Scientific Organizer, Symposium: Space Radiation Effects on the Central Nervous System, 35th Scientific Assembly of COSPAR (Committee on Space Research); Paris, France, 2004.

Main Scientific Organizer, Symposium, The Nervous System: Space Flight Environmental Factors Effects - Present Results and New Perspectives, 34th Scientific Assembly of COSPAR (Committee on Space Research)/World Space Congress, Houston, TX, October 2002.

Main Scientific Organizer, Symposium, The Nervous System: Space Flight Environmental Factors Effects - Present Results and Perspectives". 33rd Scientific Assembly of COSPAR (Committee on Space Research), Warsaw. Poland, 16-23 July 2000.

Main Scientific Organizer: Symposium, Space Flight and the Central Nervous System: The Potential Independent and Synergistic Effects of Microgravity and Radiation. 31st Scientific Assembly of COSPAR (Committee on Space Research), Birmingham, England, 14-21 July 1996.

D. Publications

1. Vazquez ME, Petrone F, Levitin HP. A simple method of permanent gastric cannulation in laboratory rodents. *Res Exp Med (Berl)*. 1981; 179(2):99-102.
2. Vazquez ME, Ebendal T., Messenger RNAs for *trk* and the low-affinity NGF receptor in rat basal forebrain. *Neuroreport*. 1991 Oct; 2(10):593-6.
3. Vazquez ME, Broglio TM, Worgul VB and Benton EV, Neuritogenesis: a model for space radiation effects on the Central Nervous System. *Adv. Space Res.* 14(10):467-474, 1994.
4. Narayanan P, Merrian JC, Vazquez ME and Dillon J, Experimental Model of light Focusing of the Peripheral Cornea. *Invest. Ophthalm. Vis. Sci.* 37(1):37-41, 1996.
5. Brenner DJ, Hall JH, Randers-Pehrson G, Huang Y, Johnson GW, Miller RW, Wu B., Vazquez ME, Medvedovsky C and Worgul BV. Quantitative comparisons of continuous and pulsed low dose-rate regimens in a model late-effect system. *International Journal of Radiation Oncology, Biology and Physics*, 34:905-910, 1996.
6. Dimberg Y, Vazquez M, Soderstrom S and Ebendal T, Effects of X-irradiation on nerve growth-factor in the developing mouse-brain. *Toxicology Letters* 1 (9): 35-43, 1997.
7. Curtis SB, Vazquez ME, Wilson JW, Atwell W, Kim M and Capala J, Cosmic ray hit frequencies in critical sites in the CNS. *Adv. Space Res.* Vol. 22(2): 197-207, 1998.
8. Vazquez ME, Neurobiological problems in long-term deep space flights. *Adv. Space Res.* Vol. 22(2):171-183, 1998.
9. Curtis, SB, Vazquez, ME, Wilson, JW, Atwell, W and Kim, M, Cosmic ray hits in the central nervous system at solar maximum. *Adv. Space Res.* Vol. 25(10): 2035-2049, 2000.
10. Vazquez, ME and Kirk, E, In vitro neurotoxic effects of 1 GeV/n iron particles assessed in retinal explants. *Adv. Space Res.* Vol. 25(10): 2041-2049, 2000.
11. Furusawa, Y, Aoki M, Kanai T, Yatagai F, Yang T, Vazquez M and Miller J, A Method to Estimate Cell Killing Induced by Heavy Ions as Function of Ion Species and LETs. Exploring Future Research Strategies in Space Radiation Sciences, Proc. of the 2nd Int. Space Workshop 2000, Edited by H.J. Majima and K. Fujitaka, Iryokagakusha Co., Ltd., pp104-109, 2000.
12. Vazquez ME, Summary of the Biology Presentations and Discussions, Exploring Future Research Strategies in Space Radiation Sciences, Proc. of the 2nd International Space Workshop 2000, Edited by H.J. Majima and K. Fujitaka, Iryokagakusha Co., Ltd., pp5-7, 2000.
13. Higuchi, Y, Nelson, GA, Vazquez, ME, Laskowitz, GT, Slater, J and Pearlstein, R, Apolipoprotein E expression and behavioral toxicology of high charge, high energy (HZE) particle radiation, *J. Radiat. Res.*, 43: S219-S224, 2002.
14. Brown, K, Fliller, R Li, Z Peggs, R Prigl, R, Radeka, V and Vazquez, ME, A heavy ion microbeam facility using micron resolution detectors for 3 GeV/n beams, *DoE report*, 2002.
15. Weaver C, Pinezich J, Lindquist B, Vazquez M, An Algorithm for Reconstruction of Neurite Outgrowth, *J. of Neurosc. Methods*, 124(2):197-205, 2003.
16. Dicello, JF, Christian, A Cucinotta, FA, Gridley, DS, Vazquez, M, Williams E. et.al. In vivo mammary tumourigenesis in the Sprague–Dawley rat and microdosimetric correlates. *Phys. Med. Biol.* **49** 3817–3830, 2004.

17. Sannita, WG, Acquaviva, M, Ball, SL, Belli, F, Bisti, S, Bidoli, V, Carozzo, S, Casolino, M, Cucinotta, F, De Pascale, M, Vazquez, M *et al.*. Effects of heavy ions on visual function and electrophysiology of rodents: the ALTEA-MICE project. *Advances in Space Research, Volume 33, Issue 8, 2004, Pages 1347-1351, 2004.*
18. Kennedy AR, Ware, JR, Guan, J, Donahue, JJ, Biaglow, JE, Zhou, Z, Stewart, J., Vazquez, ME and Wan, S, Seleniomethionine Protects Against Adverse Biological Effects Induced by space Radiation. *Free Radical Biology and Medicine, Volume 36, Issue 2, 15 January 2004, Pages 259-266, 2004.*
19. Kumie N, Vazquez ME and Nagaoka S, Effects of Low Dose Particle Radiation to Mouse Neonatal Neurons in Culture. *Biological Sci. in Space, Vol.17 No.3: 263-26, 2004.*
20. Narici L, Belli F, Bidoli V, Casolino M, De Pascale MP, Di Fino L, Furano G, Modena I, Morselli A, Picozza P, Reali E, Rinaldi A, Ruggieri D, Sparvoli R, Zacontè V, Sannita WG, Carozzo S, Licoccia S, Romagnoli P, Traversa E, Cotronei V, Vazquez M, Miller J, Salnitskii VP, Shevchenko OI, Petrov VP, Trukhanov KA, Galper A, Khodarovich A, Korotkov MG, Popov A, Vavilov N, Avdeev S, Boezio M, Bonvicini W, Vacchi A, Zampa N, Mazzenga G, Ricci M, Spillantini P, Castellini G, Vittori R, Carlson P, Fuglesang C, Schardt D. The ALTEA/ALTEINO projects: studying functional effects of microgravity and cosmic radiation. *Adv. in Space Research, Volume 33(8):1352-1357, 2004.*
21. Koniarek J.P., Thomas JL and Vazquez M, Detection of microlesions induced by heavy ions using liposomes filled with fluorescent dye, *Advances in Space Research, Volume 34, Issue 6, Pages 1373-137, 2004.*
22. Worgul, BV, Smilenov L, Brenner DJ, Vazquez, M, Hall, EJ, Mice heterozygous for the ATM gene are more sensitive to heavy ion exposure than are wild types. *Adv. Space Res.; 35(2):254-9, 2005.*
23. Guida P, Vazquez ME, Otto S. Cytotoxic effects of low- and high-LET radiation on human neuronal progenitor cells: induction of apoptosis and TP53 gene expression. *Radiat. Res. Oct.; 164(4 Pt 2):545-51, 2005.*
24. Yu B, Beuttenmuller R, Chen W, Elliott DC, Li Z, Mead JA, Radeka V, Vazquez ME, Brown KA, Rusek A, A Novel 2D Position Sensitive Silicon Detector with Micron Resolution for Heavy Ion Tracking, *IEEE Transactions on Nuclear Science, Volume 53, Issue 4, Page(s): 2416 - 2420, 2006.*
25. Soucy KG, Lim HK, Benjo A, Santhanam L, Ryoo S, Shoukas AA, Vazquez ME, Berkowitz DE., Single exposure gamma-irradiation amplifies xanthine oxidase activity and induces endothelial dysfunction in rat aorta. *Radiat. Environ. Biophys. Jun; 46(2):179-86, 2007.*
26. Sannita WG, Peachey NS, Strettoi E, Ball SL, Belli F, Bidoli V, Carozzo S, Casolino M, Di Fino L, Picozza P, Pignatelli V, Rinaldi A, Saturno M, Schardt D, Vazquez M, Zacontè V, Narici L, Electrophysiological responses of the mouse retina to ¹²C ions. *Neuroscience Letters, Apr 18, 416(3):231-5. 2007, 2007.*
27. Guida P and Vazquez ME, Cytotoxic and cell cycle effects in human neuronal progenitor cells exposed to 1 GeV/n Fe ions, *Advances in Space Research, Volume 39, Issue 6, Pages 1004-1010, 2007.*

28. Encinas JM, Vazquez ME, Switzer RC, Chamberland DW, Nick H, Levine HG, Scarpa PJ, Enikolopov G, Steindler DA. Quiescent adult neural stem cells are exceptionally sensitive to cosmic radiation. *Exp Neurol*. 2008 Mar; 210(1):274-9. Epub. Nov 17, 2007.
29. Hienz, RD, Brady, JV, Gooden, VL, Vazquez, ME and Weed. MR, Neurobehavioral Effects of Head-only Gamma-Radiation Exposure in Rats, *Radiation Res.*, **170**, 292–298, 2008.
30. Bandstra, ER, Thompson, RW, Nelson, GA, Judex, S, Cairns, A, Benton, R, Willey, S, Vazquez, ME, Carson, A and Bateman, TA, Musculoskeletal Changes in Mice from 20–50 cGy of Simulated Galactic Cosmic Rays, *Radiation Res.*, 2009, 172, 21–29, 2009.
31. Soucy KG, Kim HK, Benjo A, Santhanam L, Ryoo S, Shoukas AA, Vazquez ME, Berkowitz DE., Dietary Inhibition of Xanthine Oxidase Attenuates Radiation-Induced Endothelial Dysfunction in Rat Aorta, *Journal of Applied Physiology*, May;108(5):1250-8. Epub. Feb 18, 2010.
32. Ponomarev AL, Sundaresan A, Vazquez ME, Guide P, Kim A, Cucinotta FA, A model of the effects of heavy ion radiation on human tissue, *Advances in Space Research, Volume 47, Issue 1, 4 January 2011, Pages 37-48*, 2011.
33. Soucy KG, Kim HK, Benjo A, Santhanam L, Ryoo S, Shoukas AA, Vazquez ME, Berkowitz DE., HZE Iron-56 Irradiation Induces Endothelial Dysfunction in Rat Aorta: Role of Xanthine Oxidase, *Radiation Res.*, 2011 (submitted).

E. Lectures by Invitation (2005-2010)

- February 15, 2005 *401st Brookhaven Lecture, Hazards of the Deep: Killing the Dragons - Neurobiological Consequences of Space Radiation Exposures*, Brookhaven National Laboratory, Upton NY.
- June 24, 2005 *NASA Space Radiation Laboratory: Recent Results and Future Plans*, RHIC & AGS User's Meeting, Brookhaven National Laboratory, Upton, NY.
- November 22, 2005 *The NASA space radiation health program at the Brookhaven National Laboratory: present status and future perspectives*, Department of Physical Sciences, University of Naples "Federico II", Naples, Italy.
- November 24, 2005 *Heavy ion induced damage in the central nervous system: implications for space travel*, Department of Physical Sciences, University of Naples "Federico II", Naples, Italy.
- April 20, 2006 *Radiation Risks for Astronauts Beyond ISS: NASA Space Radiation Program*, Department of Physics University of Rome 'Tor Vergata', Rome, Italy.
- April 21, 2006 *The effects of heavy ions on the Central Nervous System*, Dipartimento Tecnologie e Salute - Technology and Health Department Istituto Superiore di Sanita' – National Institute of Health, Roma, Italy

- July 10, 2006 *Cellular and Molecular Effects of Ionizing Radiation on Human Neurons and Progenitors Cells: Toxicity and Countermeasures*, 4th International Workshop in Radiation Research and 17th Space Radiation Health International Workshop, Moscow, Russia
- July 20, 2006 *American Space Radiation Programs: An Overview*, COSPAR Colloquium, Xian, China.
- September 11, 2006 *NSRL activity at the Brookhaven National Laboratory*, Preparatory study of investigations into biological effects of radiation (IBER), Future Strategies for Space Radiation Research in Europe, Taormina, Italy.
- March 11, 2007 *Cultural Differences in Approaching Learning; Examples from a Hispanic American Culture*, Engaging Multicultural Audiences in Planetary Science Workshop, Lunar and Planetary Institute, Houston, Texas.
- April 6, 2007 *Back to the Future: How We Are Planning to go Back to the Moon and the Importance of the Radiation Risks*, Sbarro Institute of Cancer Research and Molecular Medicine, Center for Biotechnology, Temple University, College of Science and Technology, Philadelphia, PA.
- August 18, 2007 *Man High Project Contribution to the Man's Return to the Moon: Closing the Circle...*, Man High 50th Anniversary Celebration, Space Symposium, Crosby, MN.
- October 11, 2007 *Analogs Utilization: 2007 NSBRI-Haughton Mars Project Experience*, NASA-ExMC/NSBRI-Smart Medical Systems/Technology Development Retreat, Houston, TX.
- November 7, 2007 First International Conference on the Exploration of Phobos and Deimos, NASA Ames Research Center, Moffett Field, CA.
- November 8, 2007 *Radiobiology and Radiation protection challenges for lunar human activities and beyond. The NSBRI role supporting the NASA new vision of space exploration*, Department of Pathology and Lab Medicine School of Medicine and Public Health, UCLA CA.
- November 14, 2007 *Dragon Slaying: Space Radiation*, 2007 Distinguished Lecturer, Academy for Science & Health Professions, Conroe, TX.
- March 28, 2008 *Use of Ground-Based Analogs for Radiation Studies*, Space Life Sciences Graduate Seminar, Texas A&M University College Station, TX
- July 9, 2008 *Research on Acute Radiation Effects and Countermeasures*, NASA Advisory Council Exploration Committee, Glenn Research Center, Cleveland, OH.
- July 16, 2008 *Cellular and Molecular Effects of 1 GeV/n Iron Ion Exposure on Post-Mitotic Human Neurons*, 37th COSPAR Scientific Assembly Montreal, Canada.
- March 12, 2009 *Training to Explore New Worlds*, Souza Elementary School, Houston, TX.

- April 1, 2009 *NSBRI Research on Acute Radiation Effects, Countermeasures and Sensors Technology*, Center for Space Medicine, Elective Lecture, Baylor College of Medicine, Houston, TX.
- June 8, 2009 *Acute Radiation Risks for Lunar Operations from Solar Particles Events*, 17th IAA Humans in Space Symposium, Moscow, Russia.
- June 24, 2009 *Protons Biological Effects (neurotoxicity) and Risk for Humans in Space* Recent Advances in Proton Radiation Therapy Research, Northern Illinois University, Naperville, IL.
- March 1, 2010 *Space Radiation: Health Risks and Mitigation Strategies*, Center for Space Medicine, Elective Lecture, Baylor College of Medicine, Houston, TX.
- June 3, 2010 Space Radiation Environment, NSBRI Bioastronautics Summer Institute, Baylor College of Medicine, Huston, TX.

III TEACHING

Undergraduate Level:

- 1977 – 1983 Undergraduate Assistant Teacher, Department of Histology and Embryology, National University of La Plata, Medical School
- 1983 – 1983 Undergraduate Assistant Teacher, Department of Pharmacology National University of La Plata, Medical School.

Graduate Level

- 1984 - 1989 Graduate Assistant Teacher, Department of Histology National University of La Plata, Faculty of Exact Sciences
- 1992 - 1994 Instructor, Ophthalmology Residence Program, Columbia University, New York
- 2003 - Mentor, Graduate Program, Department of Biomedical Engineering, Stony Brook State University of New York
- 2004 - 2006 Director and Instructor, NASA Space Radiation Summer School, Brookhaven National Laboratory.
- 2007 - 10 Lecturer, Bioastronautics Summer Program, NSBRI
- 2007 - Mentor, Graduate Education Program in Space Life Sciences at Texas A&M University, NSBRI and NASA
- 2009 - 10 Lecturer, Center for Space Medicine, Baylor College of Medicine, Houston, Texas.
- 2011 - Coordinator and Lecturer, Radiobiology Course, Radiation Oncology Resident program, Loma Linda University Medical Center.
- 2011 - Director, RARAF Microbeam Training Course, Columbia University, NY.

Under Graduate Students Supervisor/Mentor:

Elliot Kirk, University of Chicago, 1998.
Marshall Fleurant, State University of Stony Brook, 1999.
Robert Rubin, State University of Stony Brook, 1999.
Andrew Peltzer, Manhasset High School, 1999.
Adele Billups, Southampton College, 2000.
Stacy Russell, Southampton College, 2000.
Stefanie Otto, State University of Stony Brook, 2001.
Laura Thompson, Southampton College, 2001.
Daphney Myrtle, Stony Brook, 2002.
Jennifer Ott, Suffolk County Community College, 2002.
Rahal Kahanda, Washington University in St. Louis, St Louis, 2003.

Graduate Students Supervisor/Mentor:

Antonella Bertucci, Università di Napoli Federico II, 2005.
Jane Harper, Medical Research Council, UK, 2005.
Amy Maslowski, Texas A&M University, 2005.
Andrew Patterson, National Cancer Institute, 2005.
Martha Sanchez, Loma Linda University, 2005.
Gabriel Sawakuchi, Oklahoma State University, 2005.
Daniel Thompson, Leicester University, 2005.
Daniela Trani, Sbarro Institute for Cancer Research and Molecular Medicine, 2005.
Brooke Anderson, NASA Langley Research Center, 2005.
Farnaz Baqai, Loma Linda University, 2006.
Benjamin Blyth, Flinders Medical Center (Australia), 2006.
Courtney Harrison, University of Kentucky, 2006.
Alena Mozhaeva, Joint Institute for Nuclear Research (Russia), 2006.
Diana Pignalosa, Università di Napoli Federico II (Italy), 2006.
Randall Redd, Texas A&M University, 2006.
Mitsuko Yamamoto, University of California, Los Angeles, 2006.
Veronica Zaconte, Università di Roma Tor Vergata (Italy), 2006.
Vered Anzenberg, MIT/Mass General Hospital, 2004.
Cheryl Burrell, Loma Linda University, 2004.

Ella Lloyd, Loma Linda University, 2004.
Bette McKnight, North Carolina A&T University, 2004.
Pinal Pandya, Loma Linda University, 2004.
Onarae Rice, Brookhaven National Laboratory, 2004.
Lei Ren, Universities Space Research Association/NASA Johnson Space Center, 2004.
Virginia Serra, Loma Linda University, 2004.
Richard Sun, Washington University, 2004.
Laura Thompson, Southampton College/Brookhaven National Laboratory, 2004.

Post-Doctoral Researchers Supervised/Mentored (current or last known location):

Roman Vlkolinsky, Scripps Research Institute, 2004.
Sharmila Bhattacharya , NASA Ames Research Center, 2005.
Sean Hurley, University of Rochester Medical Center, 2005.
Henghong Li, Harvard University School of Public Health, 2005.
Barbara Mascialino, INFN, 2005.
Jarah Meador, USRA, NASA Johnson Space Center, 2005.
Rituparna Mukhopadhyay, Lawrence Berkeley National Laboratory, 2005.
Hiroko Sudo, Lawrence Berkeley National Laboratory, 2005.
Jennifer Anderson, Medical Research Council, Radiation and Genome Stability Unit. (United Kingdom), 2006.
Rachael Casey, USRA/NASA Johnson Space Center, 2006.
Jaroslaw Dziegielewski, University of Maryland School of Medicine, 2006.
Peter Grabham, Columbia University, 2006.
Burong Hu, Columbia University, 2006.
Tomoyuki Mashimo, UT Southwestern Medical Center at Dallas, 2006.

Undergraduate Thesis Supervisor:

2007 Dissertation Committee, Martha Sanchez, Pre-Doctoral Student, Loma Linda University, School of Medicine.
2009 Dissertation Committee, Kevin Soucy, Pre-Doctoral Student, John Hopkins University

IV OUTREACH

Media coverage of scientific research (non-exhaustive list for period from 2000-2009)

Newspapers (many have covered Dr. Vazquez' research activities more than once)

New York Times, Houston Chronicles, Newsday, El Dia, La Nacion, Clarin, Diario Hoy, Redlands Daily Facts.

Magazines (many have covered Dr. Vazquez' research activities more than once)

Discovery News, Discover Magazine, New Scientist, The Lancet, Popular Science Magazine, Air & Space Magazine, The Lancet, Discover Brookhaven, Quest, Hispanic Career World Magazine.

Electronic/television media (many have covered Dr. Vazquez' research activities more than once)

Discovery Channel, Brainerddispach, Europe Intelligence Wire, The Battalion on line, Space.com, University Wire, , United Press International, National Geographic Channel, The Space show, The Why Files, DOE Research News, RRS News, BBC Naked Science, Long Island Channel 12.