

**UNIVERSITY OF PUERTO RICO
MEDICAL SCIENCES CAMPUS
SCHOOL OF MEDICINE

DEPARTMENT OF PHYSIOLOGY**

Include
2 X 2
Photo
(OPTIONAL)

NOTE: TO BE SUBMITTED TYPEWRITTEN

CURRICULUM VITAE

NAME <u>Jorge D. Miranda</u>	SEX <u>Male</u>
DATE OF BIRTH <u>-----</u>	HOME ADDRESS <u>-----</u>
PLACE OF BIRTH <u>PR</u>	<u>-----</u>
MARITAL STATUS <u>Married</u>	<u>Caguas, PR -----</u>
CHILDREN <u>-----</u>	TELEPHONE (HOME) <u>-----</u>
OFFICE ADDRESS <u>UPR-School of Medicine</u>	SOCIAL SECURITY NO. <u>xxx-xx-xxxx</u>
<u>Principal Bld., 6th floor, Rm. A-682, Physiol.</u>	TELEPHONE (OFFICE) <u>758-2525 x1631</u>

EDUCATION AND DEGREES (CHRONOLOGICAL ORDER)

<u>COLLEGE OR UNIVERSITY</u>	<u>DEGREE</u>	<u>YEAR OF GRADUATION</u>
1. UPR-Rio Piedras Campus	BS (Biology)	1988

<u>GRADUATE TRAINING (Name of Institutions)</u>	<u>DEGREE</u>	<u>SPECIALTY</u>	<u>YEAR OF GRADUATION</u>
1. University of Puerto Rico	MS	Biology	1990
2. Baylor College of Medicine (Houston, TX)	Ph.D.	Neuroscience	1996

<u>POSTGRADUATE TRAINING INSTITUTION</u>	<u>DATE</u>	<u>AREA OF STUDY</u>
1. University of Miami Sch. of Medicine (Miami Project to Cure Paralysis)	1996-1998	Spinal Cord Injury and Regeneration

MILITARY SERVICE (Type of experience and dates)

1. No

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS (Indicates administrative positions held if any)

<u>NAME</u>	<u>ADMINISTRATIVE POSITION</u>	<u>DATE</u>
1. Society for Neuroscience	-	1996- present
2. Society for Neurotrauma	-	2000- present
3. Puerto Rico Physiological Society		
4. Inter. Soc. for Developmental Neuroscience	-	2000- 2008
5. American Physiological Society	-	2011-2014

PROFESSIONAL EXPERIENCE

<u>EMPLOYER</u>	<u>POSITION HELD</u>	<u>DATES</u>
1. UPR-Rio Piedras	Research Assistant	1986-1988
2. UPR-Rio Piedras	Teaching Assistant	1988-1989
3. UPR-Rio Piedras	Research Assistant	1989-1990
4. Col. Tecnológ. de San Juan	Microbiology Professor	1990
5. Baylor College of Medicine	Research Assistant	1992-1996
6. Univ. of Miami Sch. of Medic.	Senior Research Associate	1996-1998

ACADEMIC APPOINTMENTS (Include all appointments ever held)

<u>RANKS</u>	<u>INSTITUTION</u>	<u>DATE</u>
1. Assistant Professor	UPR-School of Medicine	1999- 2003
2. Associate Professor (Tenure-2006)	UPR-School of Medicine	2003-2008
3. Professor	UPR-School of Medicine	2008-present

OTHER APPOINTMENTS (Administrative, Consultative, Others)

	<u>TITLE</u>	<u>DATE</u>
1. Animal Resource Center	Advisory Committee	2000-present
2. Institutional Animal Care & Use Committee	Member	2000-2006
3. Intercampus Graduate Program	UPR-RCM represent.	2002-2006
4. Physiology Department	Program Coordinator	2001-2005
5. Biomedical Graduate Program	Program Coordinator	2006-2010
6. Deanship of Biomedical Sciences	Dean	2010-2013

7. Puerto Rico Neuroscience Chapter	Vice-President	2006
8. Puerto Rico Neuroscience Chapter	President	2007
9. Consejo de Interaccion y Programacion Educactiva	Representante de la Div. Graduada	2006-2010
10. Comite de Ayudantia	Representante Esc. de Medicina	2006-2010
11. Training Program U54 Partners for Excellence in Cancer Research	Liason (UPR-Sch. of Medicine & MD Anderson Cancer Ct.	2007-2010
12. Human Physiology Course (Medical Students)	Coordinator	2008-2010
13. Human Physiology Course (Dental Sch. Students)	Coordinator	2010-2012
14. Vertebrate Physiology I Course (Graduate Students)	Coordinator	2012-2015
15. Puerto Rico Physiological Society	Member of the Executive Committee	2010-2013
16. Puerto Rico Physiological Society	Vice-President	2011
17. Puerto Rico Physiological Society	President	2012
18. Institutional Animal Care & Use Committee	Alternate Member	2006-present
19. Graduate Committee of Biomedical Sciences	Member	2006-2013
20. Adjunct Professor Selection Committee	Chair	2010-2013
21. Bailey K. Ashford Selection Committee	Chair	2010-2013
22. Institutional Assessment Committee	Member	2010-2013
23. Neural Regeneration Research	Reviewer	2015-present
24. PR Health Science Journal	Ad-Hoc Reviewer	2007
25. Neurological Research	Ad-hoc reviewer	2008-present
26. Neuroscience	Ad-hoc reviewer	2008-present
27. Brain Research	Ad-hoc reviewer	2008-present

28. Molecular and Cellular Endocrinology

Ad-hoc reviewer

2008-present

HONORS AND AWARDS

1. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2015
 2. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2014
 3. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2013
 4. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2012
 5. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2011
 6. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2010
 7. Distinguished Faculty, Physiology Department, UPR - School of Medicine-2008
 8. Distinguished Faculty - Physiology Department, UPR- School of Medicine-2005
 9. Distinguished Faculty, UPR-School of Medicine – Class of Medicine 2012
 10. Distinguished Faculty, UPR-School of Medicine – Class of Medicine 2013
 11. Distinguished Faculty, UPR-Sch. of Medicine–Class of Graduate Students 2012
 11. Alumni Achievement Award of Diversity Program in Neuroscience (Atlanta, GA) - 2006
 12. Poster Presentation Selected in the American Physiological Society for Press Release-2005
 13. Distinguished Faculty - Physiology Department- Associate Dean Biomedical Sciences - 2004
 14. Award for Poster Presentation from the American Assoc. for Advancement in Science-2003
 15. Distinguished Faculty - Physiology Department- Associate Dean Biomedical Sciences - 2003
 16. Distinguished Faculty - UPR School of Medicine - XIII Premiación Betanciana - 2002
 17. Member of Sigma Xi (International Honor Society of Scientific & Engineering Research) - 2002
 18. F32 Postdoctoral Fellowship (NIH-NINDS: #NS10304), 1997-1998
 19. Research Supplement for Minorities (NIH-NINDS: #NS26887), 1996-1997
 20. American Psychological Association Fellowship, 1995-96
 21. MARC Predoctoral Fellowship (NIGMS), 1990-95
 22. Dean's Award for Excellence - Baylor College of Medicine - 1992-1996
 23. Honorable Mention Award of the Ford Foundation Predoctoral Fellowships – 1990
 24. Distinguished Student - UPR Rio Piedras - 1988
 25. Honor Certificate (Office of the Dean of Students) - UPR Rio Piedras – 1988
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26. Awards as co-author from my graduate students:

- Award for Poster Presentation at the Puerto Rico Physiological Society – 2016
- Award for Poster Presentation at the Puerto Rico Neuroscience Conference – 2015
- Award for Poster Presentation at the RCM “Foro de Investigacion y Educacion” – 2015
- Award for Oral Presentation at the RCM “Foro de Investigacion y Educacion” – 2014
- Award for Poster Presentation at the RCM “Foro de Investigacion y Educacion” – 2011
- Award for Oral Presentation at the RCM “Foro de Investigacion y Educacion” – 2008
- Award for Poster Presentation at the RCM “Foro de Investigacion y Educacion” – 2007
- Award for Poster Presentation at the RCM “Foro de Investigación y Educación”-2006

TEACHING EXPERIENCES (Courses [C] & Lectures [L])**NAME OF INSTITUTIONS****LEVEL****ACADEMIC DISCIPLINES****DATES**

1. UPR School of Medicine		FISA 8543: New issues in SCI (apoptosis) - 2014	
2. UPR School of Medicine	Graduate [L]	Biological Membranes Biochemistry Department	2008
3. UPR School of Medicine	Graduate [C]	Cell & Molecular Physiology (FISA 8540)	2000- 2006
4. UPR School of Medicine	Graduate [C]	Seminar (FISA 8503)	2003- 2008
5. UPR School of Medicine	Graduate [C]	FISA 8542: Spinal Cord Injury	2002, 2007, 2012, 2014
6. UPR School of Medicine	Graduate [C]	Thesis (FISA 8599)	2002-present
7. UPR School of Medicine	Graduate [C]	FISA 8542: Purinergic Receptor Expression	2004
8. UPR School of Medicine	Graduate [L]	FISA 8532: RT-PCR	2003-present
9. UPR School of Medicine	Graduate [L]	FISA 8532: Western blot	2003- 2008
10. UPR School of Medicine	Graduate [L]	FISA 8601: Protein Transport	2003-present
11. UPR School of Medicine	Graduate [L]	FISA 8601: Second Messengers	2003-present
12. UPR School of Medicine	Graduate [L]	FISA 8601: Neural Development	2003-present
13. UPR School of Medicine	Graduate [L]	FISA 8601: Spinal Cord & Regenerat.	2003-present
14. UPR School of Medicine	Graduate [L]	FISA 8601: Somatosensory System	2004-present
15. UPR School of Medicine	Dental [L]	Somatosensory System	2004-present
16. UPR School of Medicine	Dental [L]	Protein Transport	2006-present
17. UPR School of Medicine	Dental [L]	Signal Transduction	2004-present
18. UPR School of Medicine	Medicine [L]	Small Group Discussions	2001-present
19. UPR Rio Piedras	Graduate [L]	Axonal Outgrowth	2001-2008
20. UPR Rio Piedras	Graduate [L]	Nerve Regeneration	2002-2008

21. UPR Rio Piedras	Graduate [L]	Rec. Tyrosine Kinases	2002
22. UPR School of Medicine	Medicine [L]	Genes & Behavior	2001-02
23. UPR School of Medicine	Dental [L]	Muscle Physiology	2001 & -02
24. UPR School of Medicine	Graduate [C]	Regenerat. (FISA 8543)	2000
25. UPR School of Medicine	Graduate [L]	FISA 8532: Cloning	2000
26. UPR School of Medicine	Graduate [C]	FISA 8525: Introduction to Neurosc.	2000
27. UPR School of Medicine	Graduate [L]	Reading in Mol. Biology	1999
28. UPR Rio Piedras	Undergrad. [C]	Biology (TA)	1988-90
29. Col. Tecnológico de San Juan	Undergrad. [C]	Microbiology	1990

Courses created:

- 1) FISA 8540: Cellular and Molecular Physiology
- 2) FISA 8605: Teaching Physiology
- 3) FISA 8585: Doctoral Thesis Proposal Preparation in Physiology
- 4) FISA 8105: Basic Concepts of Human Physiology

Courses revised or restructured:

- 1) FISA 8541: Problems in Physiology → Justify the course to be use for rotations
(new description with justification to be used by students for their rotations)
- 2) FISA 8525: Neurophysiology → New Description, topics & justification of the course

RESEARCH EXPERIENCE (Describe and include the title and year of investigation conducted)

1. Second messengers as regulators of phagocytosis in *Tetrahymena thermophila*: 1986-1990
2. Down-regulation of GABA_A receptors in chick cortical neurons: 1992-1996
3. Expression profile of EphA after spinal cord injury (SCI): 1999-2004
4. Expression of EphrinsB proteins after SCI: 2001-2004
5. Analysis of EphB protein expression during axonal regeneration in adult rats: 1999-2002
6. Axonal Regeneration after EphA receptor blockade & expression profile of ephrinA ligands after SCI: 2004 – 2011
7. Role of Purinergic Receptors after Spinal Cord Injury: 2005 – 2011
8. Effect of analgesics in the gene profile after spinal cord injury: 2005 – 2008
10. Intracellular Mechanism of Eph Activation after spinal cord injury: 2008- 2014
11. Flotilin-2 expression profile after spinal cord injury: 2007-2011
12. Estradiol & Tamoxifen as Neuroprotective agents after spinal cord injury: 2005 – present

POSTGRADUATE OR GRADUATE COURSES, SEMINARS AND WORKSHOPS ATTENDED (Title, place and dates)

TITLE

PLACE

DATE

1. Weekly seminars (sponsored by Physiology &/or Biochemistry Dept.)	A-622, 6 th floor amphitheater	Tuesdays/Thur. (12n)
2. Monthly Seminars (sponsored by the RISE Program)	6 th floor amphitheater	Tuesdays (12n)
3. Diseño Curricular	UPR-RCM	10/08
4. Diseñando Prontuarios	UPR-RCM	10/08
5. Redacción de Objetivos Educativos	UPR-RCM	11/08
6. Retrocomunicación Efectiva	UPR-RCM	11/08
7. Excel para notas	UPR-RCM	11/08
8. Diseño de Exámenes con Validez y Confiabilidad	UPR-RCM	12/08
9. Diseño de Ítemes	UPR-RCM	12/08
10. Avalúo Formativo y Sumativo: Diseño e Implementación	UPR-RCM	12/08
11. Turning Point	UPR-RCM	09/08
12. Procesos de Cambios Académicos	UPR-RCM	09/08
13. Hostigamiento Sexual	UPR-RCM	09/08
14. Tercera Jornada de las Ciencias Vivas y la Ingeniería	UPR-RCM	2007
15. Técnicas de Avalúo	UPR-School of Medicine	2006
16. Grants.gov Workshop	UPR-School of Medicine	2006
17. Multiple Choice Item Construction	UPR-RCM	2002
18. Spinal Cord Injury Workshop	University of New Jersey, Rutgers	2001
19. Write Winning Grants Workshop	UPR-Rio Piedras & Sch. Med.	2001-02
20. Research Integrity	Univ. of Kentucky	2001
21. Teaching Survival Skills & Ethic Workshop	Vail, Colorado	2000
22. Estilos de Aprendizaje	UPR-School of Medicine	1999
23. Paradigma/Modelo Integrador de Educación	UPR-School of Medicine	2000
24. Normas de Comunicación de Riesgos	UPR-School of Medicine	1999
25. Curso de Seguridad Radiológica	UPR-School of Medicine	1999
26. Portafolio Profesional	UPR-School of Medicine	1999

27. IACUC courses & workshops	UPR-School of Medicine	1999-present
28. iPad como Herramienta de Aprendizaje	UPR-School of Medicine	2014
29. Responsible Conduct in Research	UPR-School of Medicine	2016

EXTRACURRICULAR ACTIVITIES (Community activities, special interests, talents, skills and hobbies)

Type	Date	Location
Brain Awareness Week	March 2001	Plaza Las Americas
Brain Awareness Week	March 2003	Plaza Las Americas
Brain Awareness Week	March 2007	UPR-School of Medicine
Outreach Activity	May 2007	Preparation of a short video about the nervous system and the research performed at the Medical Campus in this field. The video was distributed in more than 80 public schools and in over 10 private schools.
BAW	2008-2012	Activity in our campus
PhUN Week	2011	Visit several schools
PhUN Week	2012	Visit several schools

PARTICIPATION IN SPECIAL COMMITTEES, BOARDS, ACADEMIC SENATE, ADVISORY COUNCIL (Names and dates)

<u>NAME</u>	<u>DATE</u>
1. Institutional Animal Care & Use Committee	2000-present
2. Comité Graduado del Programa Interrecinto	1999-2002
3. Advisory Committee for the Animal Resource Center	2000-present
4. PR Neuroscience Conference: Organizing Committee	2000-2009
a) 2006: Vice-President of the Puerto Rico Neuroscience Chapter	
b) 2007: President of the Puerto Rico Neuroscience Chapter	
5. Comité Organizador del Foro de Investigación Biomédica y Conferencia Bailey K. Ashford	2002
6. Comité Adhoc para desarrollo de tractos y/o programas graduados interdepartamentales	2001-2002
7. Subcommittee on Basic Sciences Dept. for the UPR-School of Medicine Accreditation	2001-2002

8. Comité para Desarrollar un Boletín Informativo de los Programas Graduados de la Escuela de Medicina	2001-2003
9. Comité Graduado del Recinto de Ciencias Médicas	2006-2008
10. Review Panel for Research Proposals from the RCMI-Clinical Res. Center	Oct. 2004 2004-2010,
11. Evaluador de Resúmenes Foro Anual de Investigaciones y Educación RCM	2014
12. Comité de Búsqueda Director(a) Departamento de Anatomía	2006
13. Comité de Ayudantías del Decanato de Asuntos Académicos	2006-2010
14. Comité de Programas Combinados (MD/PhD & MD/JD)	2007-2013
15. Consejo de Interacción y Programación Educativa (CIPE) del Decano de Asuntos Académicos	2006-2010
16. Comité de Medicina I y el Comité de Promociones I	2008-10
17. Comité Institucional de Avalúo	2008
18. Comite de Medicina Dental I	2010-2012
19. Reviewer of Journal: Neural Regeneration Research	2015
20. Primate Center Advisory Committee	2013-present
21. Molecular Science Building-Animal House Facility Advisory Committee	2010-present
22. Molecular Science Building-Neuroplasticity Center Advisory Committee	2010-present
23. Asesor de la Asociación de Estudiantes Graduados (AEG)-UPR-MSc	2015-2016

PARTICIPATION IN NATIONAL OR INTERNATIONAL SCIENTIFIC MEETING OR SPECIAL LECTURES

<u>MEETING</u>	<u>TITLE</u>	<u>PLACE HELD</u>	<u>DATE</u>	<u>PRESENATOR (YES / NO)</u>
1. Soc. for Neurosc.	EphB3 receptor...	New Orleans	2000	Yes
2. Soc. Cell Biology	Upregulation of ...	San Francisco	2000	Yes
3. Cell Transplantat.	Eph & Ephrin ...	Clearwater, FL	2001	No
4. Soc. for Neurosc.	Screening for the...	San Diego	2001	Yes
5. Soc. for Neurosc.	EphA4 RPTK as ...	San Diego	2001	Yes
6. Soc. for Neurosc.	In adult rats...	San Diego	2001	Yes

7. Neurotrauma Soc.	Expression of EphA7..	Tampa, FL	2002	Yes
8. Neurotrauma Soc.	Upregulation of ...	Tampa, FL	2002	Yes
9. Foro Invest. Biomédica	An axon guidance...	UPR - Sch. of Med	2002	Yes
10. Foro Invest. Biomédica	Differential Expres...	UPR - Sch. of Med	2002	No/coauthor
11. Keystone symposia (Axonal connections: Molecular Cues ...	Upregulation of EphA receptors after SCI.	Keystone, CO	2003	Yes
12. Soc. for Cell Biology	Gene Profile of Eph...	San Francisco, CA	2003	No/coauthor
13. PR Neuroscience Conf.	Differential Express.	San Juan, PR	2003	No/coauthor
14. Foro Investi. Biomédica	Expression of Caveol.	UPR-Sch. Of Med.	2003	No/coauthor
15. Joint COBRE/SNRP	Eph Rec. as a Putative	San Juan, PR	2003	Yes
16. SNRP Meeting	Spinal Cord Contusion	Hawaii, USA	2003	No/coauthor
17. SNRP Meeting	Induction of EphA...	Hawaii, USA	2003	Yes
18. Soc. for Neuroscience	SCI & EphA4 ...	San Diego	2004	No/coauthor
19. Foro Investi. Biomédica	P2Y1 & P2Y2 purin.	UPR-Sch. Of Med.	2004	No/coauthor
20. Foro Investi. Biomédica	Expression of EphA4	UPR-Sch. Of Med.	2004	No/coauthor
21. Foro Investi. Biomédica	Analysis of Eph...	UPR-Sch. Of Med.	2004	No/coauthor
22. Keystone symposium	SCI & EphA7...	Keystone, CO	2005	No/coauthor
23. FASEB	SCI, EphA4 & pain	San Diego	2005	No/coauthor
24. Joint SNRP/COBRE	Expression of Repul.	San Juan, PR	2005	Yes
25. Kentucky Spinal Cord & Head Researst Trust Meeting (KSCHIRT)		Louisville, KY	2005	No
26. Foro Investi. Biomédica	Effect of Analgesics...	UPR-Sch. Of Med.	2006	No/coauthor
27. Foro Investi. Biomédica	The Neuroprotective...	UPR-Sch. Of Med.	2006	No/coauthor
28. Foro Investi. Biomédica	Expression profile of...	UPR-Sch. Of Med.	2006	No/coauthor
29. KSCHIRT meeting		Lexington, KY	2006	No
30. National Neurotrauma Society	1) Effect of buprenor. 2) Possible role of. ...	St. Louis, MO	2006	No/coauthor
31. Intern. Soc. Dev. Neuro	Repulsive Environ. ...	Banff, Canada	2006	Yes
32. AAAS (Caribbean Div)		Inter/Bayamon	2006	Yes

	Porque y como estudiamos regeneración después de un daño al cordón espinal.				
33. Society for Neuroscien.	Expres. Profile of P2Y	Atlanta, GA	2006	Yes	
34. KSCHIRT meeting		Louisville, KY	2007	No	
	1) Ephrin ligands...				
	2) Ephexin...				
	3) Buprenorphine...				
35. Society for Neuroscien.	4) Estrogen receptor...	San Diego, CA	2007	No/coauthor	
36. National Neurotrauma		Orlando, FL	2008	No	
37. Annual convention of Physical Medicine & Rehabilitation	New Concepts of Basic Science: Mol. Events after SCI & Possible Treatments	Rio Mar Beach Resort, Rio Grande, PR	2008	Yes	
38. KSCHIRT meeting		Louisville, KY	2009	No	
39. Society for Neuroscien.		Chicago, Illinois	2009	No	
40. Grant Writing Workshop - Successful NIH Propo.		Lexington, KY	2011	No	
41. Experimental Biology	E2 and TAM as neuro...	Boston, MA	2013	No/coauthor	
42. Society for Neuroscien.	TAM treatment promo...	Washington, DC	2014	No/coauthor	
43. KSCHIRT Meeting	Effect of TAM in...	Louisville, KY	2015	No/coauthor	
44. Society for Neuroscien.	Effect of TAM in male...	Chicago, IL	2015	No/coauthor	
45. Society for Neuroscien.	Effect of TAM on single...	San Diego, CA	2016	No/coauthor	
46. MSC-Research Forum		UPR-MSC	2014, -15, -16		
47. PR Neuroscience Conference		Puerto Rico	2014, -15		
48. PR Physiological Society Meeting		Puerto Rico	2012, -13, -14, -15, -16		

LEARNING RESOURCES AUTHORED OR CO-AUTHORED (Video tapes, movies, self study units, othes)

	<u>TITLE</u>	<u>DATE</u>
1. DVD for schools (BAW)	Neuroscience in Puerto Rico	May 2007

THESIS, MENTORSHIP AND SPECIAL REPORTS

	<u>TITLE</u>	<u>DATE of Graduation</u>
1. Sandra I. Vázquez: Advisor: Dr. Sandra Peña		2000
2. Jocelyn Montalvo: Advisor: Dr. Annabell Segarra		2002
3. Marcelo Febo: Advisor: Dr. Annabell Segarra		2002
4. Ricardo Chiesa: Advisor: Dr. Sandra Peña		2002
5. Yolanda Robles: Advisor: Dr. Sandra Peña		2003
6. Karen Tossas: Advisor: Dr. José E. García		2010
7. JorgeGonzález: Advisor: Dr. María Crespo		2003
8. Melissa Colón: Advisor: Dr. Sandra Peña		2005
9. Anita Rivera: Advisor: Dr. Guido Santacana		2004
10. Luis Vidal: Advisor: Dr. Nidza Lugo		2003
11. Lillian Cruz: Advisor: Jorge D. Miranda		2005
12. Johnny Figueroa: Advisor: Jorge D. Miranda		2005
13. Laurivette Mosquera: Advisor: Jorge D. Miranda		2012
14. Ana Rodríguez: Advisor: Jorge D. Miranda		2011
15. José Santiago: Advisor: Jorge D. Miranda		2011
16. Luz Arocho: Advisor: Jorge D. Miranda		2012
17. Odrick Rosas: Advisor: Jorge D. Miranda		2011
18. Carmelo Cardona: Advisor: Dra. Carmen Cadilla		2008
19. Michelle Burgos: Advisor: Dr. Fernando González		2006
20. Blanca L. Valle: Advisor: Dra. Elsa Cora		2008
21. Guermarie Velázquez. Advisor: Dr. Walter Silva		2006
22. Jose García Colón:		2012

- Advisor: Dr. Walter Silva
23. Kandy Velázquez
Advisor: Dr. Juan C. Jorge 2005
24. Enrique Fuentes
Advisor: Dr. Braulio Jimenez 2011
25. Migdalia Chevere
Advisor: Dr. Fernando Gonzalea 2009
26. Lixmar Pereira
Advisor: Dr. Sandra Peña 2012
27. Jorge Rodriguez
Advisor: Dr. Nuri Rodriguez 2011
28. Lisa del Valle
Advisor: Dr. Jose Ortiz 2011
29. Elsie Orellano
Advisor: Dr. Fernando Gonzalez 2010
30. Raissa Menendez
Advisor: Dr. Annabell Segarra 2011
31. Natasha Lugo
Advisor: Dr. Annabell Segarra 2009
32. Nildris Cruz
Advisor: Dr. Maria J. Crespo 2014
33. Karina Acevedo
Advisor: Dr. Carlos Torres 2009
34. Ivan Santos: 2012
Advisor: Dr. Sandra Peña
35. Liz Valle: 2006
Advisor: Dr. Nuri Rodríguez
36. Hector Franco 2011
Advisor: Dr. Carmen Cadilla
37. José Quidgley 2014
Advisor: Dr. Maria J. Crespo
38. Edgardo Castro 2014
Advisor: Dr. Sandra Peña
39. Maria I. De Jesus 2012
Advisor: Dr. Nivia Perez
40. Iris Salgado 2012
Advisor: Dr. Walter Silva
41. Maria Velez 2012
Advisor: Dr. Carlos Jimenez
42. Francisco Arencibia 2013
Advisor: Dr. Carlos Jimenez
43. Carolina Vazquez 2013
Advisor: Dr. Carlos Jimenez
44. Yaria Arroyo 2014
Advisor: Dr. Carlos Torres

45. Amarilis Morales	2014
Advisor: Dr. Carmen Maldonado	
46. Jeanmarie Acevedo	2015
Advisor: Dr. Manuel Diaz	
47. Carmelo Orengo	2015
Advisor: Dr. Carmen Cadilla	
48. Stephanie Palacios	2015
Advisor: Dr. Steve Treistman	
49. Coriness Piñeyro	2015 (MS)
Advisor: Nivia Pérez	
50. Bermery Santos	2016
Advisor: Dr. Carlos Jimenez	
51. Namyr Martinez	2016
Advisor: Dr. Walter Silva	
52. Mildred Duprey	2016
Advisor: Dr. Rosa Blanco	
53. Rebeca Nuñez	2013-present
Advisor: Dr. Nelson Escobales	
54. Nilmary Grafals	2013-present
Advisor: Dr. Pablo Vivas	
55. Jennifer Colon	2014-present
Advisor: Jorge D. Miranda	
56. Ana Vacquer	2014-present
Advisor: Dr. Carlos Jimenez	
57. Samir Bello	2015-present
Advisor: Dr. José E. Garcia Arraras	
58. Adlin Rodríguez	2015-present
Advisor: Dr. Carlos Torres	
59. Cristina Roman	2015-present
Advisor: Dr. Guillermo Yudowski	
60. Magdiel Martinez	2016-present
Advisor: Dr. Walter Silva	
61. Luis Colon	2016-present
Advisor: Dr. Martine Behra	

Present graduate students under my supervision:

- 1) Jennifer Colon: 2012-present

Present graduate students under my supervision as co-advisors:

- 1) Nilmary Grafals: 2013-present
- 2) Cristina Roman: 2015-present

Postdoctoral Fellows under my supervision:

- 1) Dr. Margarita Irizarry: 1999-2001
- 2) Dr. Jose Santiago: 2012-2013
- 3) Dr. Iris Salgado: 2013-present

Training of Medical and Undergraduate students:

- 1) Ariel Vera: Medical Student (2009-2010)
- 2) Monica Grafals: Medical Student (2000-2002)
- 3) Kathia Alejandro: Medical Student (1999-2000)
- 4) Alex Rosa: UPR-Rio Piedras (1999-2000)
- 5) Hildamary Diaz: UPR-Rio Piedras (1999-2001)
- 6) Adolfo Fernandez: UPR-Rio Piedras (2000-2001)
- 7) Juan J. Diaz: UPR-Rio Piedras (2000-2001)
- 8) Juoaquin Sole: UPR-Rio Piedras (2000-2001)
- 9) Jose J. Diaz: UPR-Rio Piedras (2001-2002)
- 10) Aranza Torrado: UPR-Rio Piedras (2001-2003)
- 11) Anayra Tua: UPR-Rio Piedras (2002-2003)
- 12) Jackelin Aquino: UPR-Rio Piedras (2002-2004)
- 13) Suldelka Cabrera: UPR-Arecibo (2002-2003)
- 14) Jessica Torres: UPR-Bayamon (2003-2004)
- 15) Glorimar Rivera: UPR-Rio Piedras (2003-2004)
- 16) Cristina Ortiz: UPR-Rio Piedras (2003-2004)
- 17) Monica Rivera: UPR-Bayamon (2005-2006)
- 18) Maria Gonzalez: UPR-Rio Piedras (2007-2008)
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- 20) Monica Cruz: UPR-Carolina (2013)
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Additional abstracts (oral & poster) were presented in local and national meetings: PR Neuroscience Conference, PR Physiological Meeting, SNRP/COBRE meeting, Foro de Investigación y Educación del Recinto de Ciencias Médicas and SNRP meetings (Hawaii and Tennessee).

PARTICIPATION IN PROJECTS, PROGRAMS, GRANTS, CONTRACTS (Title of Project, position held, dates, sources, and amount of funding if known)

1. Expression profile of EphA and Ephrins A ligands after Spinal Cord Injury, PI of subproject #2, 1999-2004, NINDS, Total direct costs for entire proposed project period: \$1,519,370
2. Expression of EphrinsB proteins after spinal cord injury, PI of subproject #12, 2000-2004, NIH/MBRS/SCORE, Total direct cost for entire proposed pilot project period: \$102,832
3. Analysis of EphB protein expression during axonal regeneration in adult rats. PI, 1999-2002, NSF/EPSCOR, Total amount of research funds: \$149,978
4. Axonal regeneration after EphA receptor blockade, PI of subproject #9, 2004-2008, NIGMS/MBRS, Total direct cost for entire proposed period: \$537,559
5. Role of Purinergic Receptors after spinal cord injury, PI of subproject #2, 2005-2009, NIMH/MRISP, Total direct cost for entire proposed period: \$165,435
6. Interdisciplinary Biomedical Research Seminar Series (IBRSS), Coordinator of activity #3, 2004-2008, NIGMS/RISE, Total direct cost for entire proposed period: \$48,000
7. Interdisciplinary Biomedical Research Seminar Series (IBRSS), Coordinator of activity #3, 2008-2012, NIGMS/RISE, Total direct cost for entire proposed period: \$80,000

8. Estradiol and Tamoxifen as neuroprotective/neuroregenerative agents after spinal cord injury, PI of subproject #1, 2013-2018, NIMH, Total direct costs for entire proposed period: \$878,823

Submitted Recently

NINDS-R01 Miranda (PI) 06/01/16-05/31/21
 Neuroprotective Effect of Tamoxifen and Exercise after Spinal Cord Injury
 The major goal of this project is to determine the therapeutic window of tamoxifen treatment after spinal cord injury (SCI) and if there is any sex difference with this treatment in locomotor recovery. In addition, if tamoxifen produces changes at the anatomical and electrophysiological level. Moreover, the study includes the analysis of apoptotic, regenerative and repulsive proteins after SCI and if tamoxifen affect the expression of those factors. Finally, if the combinatorial treatment of tamoxifen with forced treadmill exercise improved the locomotor recovery in the injured animals.
 Role: PI 50% effort-6 months calendar Direct cost: \$1,250,000

NINDS-R21 Miranda (PI) 02/01/17 – 01/31/19
 Effect of Tamoxifen and exercise in skeletal muscle after spinal cord injury.
 The major goal of this project is to determine if tamoxifen, a selective estrogen receptor modulator, prevent the changes in the expression profile of myosin proteins after spinal cord injury and maintains the contractile properties of single muscle fibers. In addition, this activity will investigate the effect of early treatment with tamoxifen on Satellite cell proliferation and muscle regeneration, and if both events are potentiated by exercise.
 Role: PI 25% effort – 3 months calendar Direct cost: \$275,000

MBRS/RISE Dr. Carmen Cadilla (PI) 09/01/17 – 08/31/22
 NIH/NIMH Role: Coordinator Activity #2
 Interdepartmental Seminar Series (Activity #2) 10% Effort (Total Direct Cost: \$108K)
 The major goal of this activity is to coordinate a monthly seminar series and an annual departmental mini-symposium. This involves the invitation of well-known investigators from the US mainland (different fields of research), and the coordination of seminars (and round table discussions) with the invited speaker and students/faculty.

To be Submitted in 2016:

- 1) Department of Defense
- 2) Christopher Reeve Foundation

LANGUAGES (Includes native language, other and level of command)

COMMAND OF LANGUAGES
 Indicate level with number

	<u>SPEAKING</u>	<u>WRITING</u>	<u>COMPREHENSION</u>	
SPANISH	1	1	1	
ENGLISH	1	1	1	
OTHER				
	1. GOOD	2. FAIR	3. A LITTLE	4. NOT AT ALL

REFERENCES (List name and address of three persons who have knowlegde of your qualifications)

1. Dr. Nelson Escobales: Chair, Physiology Department, UPR School of Medicine, PO Box 365067, San Juan PR 00936
2. Dr. Annabell Segarra: Professor, Physiology Dept., UPR School of Medicine, PO Box 365067, San Juan PR 00936
3. Dr. Guido Santacana: Professor and Associate Dean of Medicine, Physiology Dept., UPR School of Medicine, PO Box 365067, San Juan PR 00936
4. Dr. Walter Silva: Associate Dean Division of Biomedical Science, UPR School of Medicine, PO Box 365067, San Juan PR 00936
5. Dr. Carmen Cadilla: Professor, Biochemistry Department, UPR School of Medicine, PO Box 365067, San Juan PR 00936

Jorge D. Miranda

July 18, 2016

DATE

SIGNATURE

DECLARATION

I hereby declare that the facts set forth on this Curriculum Vitae are true and complete to the best of my knowledge and by no means had been made an act of deceiving or misrepresenting.

You are hereby authorized to make any investigation of my personal history.

Jorge D. Miranda

Signature

July 18, 2016

Date