

Angelina Hernandez-Carretero
City of Hope Beckman Research Institute
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EDUCATION

- 2003-2007 **Bachelor of Science Degree**, Biological Sciences
University of California, Irvine, CA
- 2007-2009 **Master of Science Degree**, Biological Sciences
California State University, Los Angeles, CA
- 2009-2014 **Ph.D.** Cellular and Integrative Physiology
Indiana University School of Medicine, Indianapolis, IN

PROFESSIONAL AND RESEARCH EXPERIENCE

- 2005-2007 **University of California, Irvine**
Center for the Neurobiology of Learning and Memory
Undergraduate CAMP Research Scholar in Dr. James McGaugh Laboratory
Supervisor: Dr. Benno Roozendaal
- Studied glucocorticoids and the acute stress effect on learning and memory tasks.
- 2007-2009 **California State University, Los Angeles**
M.S. student in Dr. Amelia Russo-Neustadt Laboratory, Dept. of Biological Sciences
- Determined whether stressful events lead to a neurochemical change of the hippocampus and explored neuroprotective effects of exercise.
- 2009-2014 **Indiana University School of Medicine, Indianapolis**
Doctoral candidate in Dr. Patrick Fueger Laboratory
- Investigated a cell cycle regulator, p21, and its role in cell stress and death in pancreatic beta cell lines.
- 2014-2017 **University of California, San Diego**
NIH/NIGMS IRACDA Postdoctoral Research Fellow
Dr. Olivia Osborn/Dr. Jerrold Olefsky Laboratory
Dept. of Medicine, Division of Endocrinology & Metabolism
- Investigated the anti-inflammatory role of muscle Csrp3 in diet-induced obesity and type 2 diabetes in mouse model systems.
- 2017 **University of California, San Diego**
NIH/NIGMS IRACDA Postdoctoral Research Fellow
Dr. Varykina Thackray Laboratory
Dept. of Reproductive Medicine
- Completed follow-up collaborative experiments investigating mechanisms of metabolic dysfunction in diet-independent obesity and pre-diabetes in a mouse model of polycystic ovary syndrome.
- Dec 2017-
present **City of Hope Beckman Research Institute**
Staff Scientist
Dr. Patrick Fueger Laboratory
Dept. of Molecular and Cellular Endocrinology
- Investigating mechanisms of obesity-induced upregulation of Loxl2 and its contribution to fibrosis in pancreatic islets.

PUBLICATIONS

1. Roozendaal B, **Hernandez A**, Cabrera SM, Hagewoud R, Malvaez M, Stefanko DP, Haettig J, Wood MA. (2010) Membrane-associated glucocorticoid activity is necessary for modulation of long-term memory via chromatin modification. *J Neurosci*. 30 (14): 5037-46.
2. Fueger PT, **Hernandez AM**, Chen Y-C, Colvin ES. (2012) Assessing replication and beta cell function in adenovirally-transduced isolated rat islets. *J Vis Exp*. 25 (64): 4080.
3. Colvin ES, Ma H-Y, Chen Y-C, **Hernandez A**, Fueger PT. (2013) Glucocorticoid-induced suppression of beta cell proliferation is mediated by Mig6. *Endocrinology*. 154 (3): 1039-46.
4. **Hernandez AM**, Colvin ES, Chen Y-C, Geiss SL, Eller LE, Fueger PT. (2013) Upregulation of p21 activates the intrinsic apoptotic pathway in beta cells. *Am J Physiol Endocrinol Metab*. 304 (12): E1281-90.
 - Featured as Editor's Pick in July 2013 issue of *Am J Physiol Endocrinol Metab*
5. Lackey DE, Lazaro RG, Li P, Johnson A, **Hernandez-Carretero A**, Weber N, Vorobyova I, Tsukamoto H, Osborn O. (2016) The role of dietary fat in obesity-induced insulin resistance. *Am J Physiol Endocrinol Metab*. 311(6):E989-E997.
6. Wollam J, Mahata S, Riopel M, **Hernandez-Carretero A**, Biswas A, Bandyopadhyay G, Chi N-W, Eiden L, Mahapatra N, Corti A, Webster N, Mahata S. (2017) Chromogranin A regulates vesicle storage and mitochondrial dynamics to influence insulin secretion of beta cells. *Cell & Tissue Research*. 368(3):487-501.
7. **Hernandez-Carretero A***, Skarra D*, Rivera A, Anvar A, Thackray V. (2017) Hyperandrogenemia Induced by Letrozole Treatment of Pubertal Female Mice Results in Hyperinsulinemia Prior to Weight Gain and Insulin Resistance. *Endocrinology*. 158(9):2988-3003. ***co-first authors**
8. LaFrano M, **Hernandez-Carretero A**, Weber N, Borkowski K, Pedersen T, Osborn O, Newman J. (2017) Diet-induced obesity and weight loss alter bile acids and bile acid-sensitive gene expression in insulin target tissues of C57BL/6J mice. *Nutrition Research*. 46:11-21.
9. Ying W, Riopel M, Bandyopadhyay G, Dong Y, Birmingham A, Seo JB, Ofrecio J, Wollam J, **Hernandez-Carretero A**, Fu W, Li P, Olefsky J. (2017) Adipose tissue macrophage-derived exosomal miRNAs can modulate in vivo and in vitro insulin sensitivity. *Cell*. 171(2):372-384.e12.
 - Received coverage in the popular press:
UC San Diego News Center,
http://ucsdnews.ucsd.edu/pressrelease/exosomes_are_the_missing_link_to_insulin_resistance_in_diabetes?utm_campaign=thisweek&utm_medium=email&utm_source=tw-2017-09-28
The San Diego Union Tribune,
<http://www.sandiegouniontribune.com/business/biotech/sd-me-diabetes-exosomes-20170919-story.html>
10. **Hernandez-Carretero A**, LaFrano M, Weber N, Sears D, Newman J, Osborn O. (2018) Obesity- induced changes in lipid mediators persist after weight loss. *International Journal of Obesity*. 42(4):728-736.
 - Filed Patent April 2017, Case SD2017-267, Title: Inhibition of prostaglandin D2 to prevent weight regain

11. **Hernandez-Carretero A**, Weber N, Doan N, Olefsky J, Osborn O. (2018) Cysteine and Glycine-Rich Protein 3 Regulates Glucose Homeostasis in Skeletal Muscle. *Am J Physiol Endocrinol Metab.* 315: E267-E278.

- APSselect award for distinction in scholarship in the AJP Endo and Metabolism Journal

TEACHING EXPERIENCE

Spring 2009 California State University, Los Angeles
Lab instructor: Animal Biology (Introductory Biology lab course)

Summer 2011 Indiana University Brain Link/MASH (K-12) Science Summer Program
Instructor: Spanish

Fall 2013 Martin University, Human Anatomy and Physiology
Teacher's Assistant and Guest Lecturer: The Endocrine System

Fall 2013 Indiana University School of Medicine, F503 Human Physiology (for M.S. students)
Guest Lecturer: "GI motility, chewing, swallowing" and "The Stomach"

Fall 2015 San Diego State University, Biol-100 Introduction Biology
Guest Lecturer: "Diabetes" and "Obesity"

Spring 2016 San Diego City Community College, Biol-235 Human Physiology
Guest Lecturer: "Digestion Overview" and "Stomach Acid & Regulation"

Fall 2016 San Diego Community College, Biol-235 Human Physiology
Adjunct Faculty (Instructor of Record for 17 weeks of lecture and laboratory)

Spring 2017 San Diego State University, Bio-212 Human Anatomy
Guest Lecturer: "The Blood", "Endocrine System", and "Digestive system"

Fall 2018 Los Angeles Trade Technical Community College, Bio 003 – Intro to Biology
Adjunct Faculty (Instructor of Record for 16 weeks of lecture and laboratory)

MENTORING

2010 Kristyn Jeffries, Undergraduate student, Molecular Medicine in Action Summer Fellow
Current position: Pediatric Residency Program, UAB School of Medicine, AL

2011 Jacob Burton-Edwards, High School student, Indianapolis Project SEED Summer
Current position: Emergency Medical Technician, Indianapolis, IN

2012 Steven Geiss, Medical student, Student Research Program in Academic Medicine
Current position: Resident Physician, University of Missouri Health Care, MO

2014 Vienna Benavides, undergraduate lab volunteer (Cumberland University)
Current position: Senior undergraduate student, Belmont Abbey College, NC

2014-2017 Natalie Weber, post-baccalaureate lab volunteer (B.S. Management Science, UCSD)
Current position: Medical student, Touro University Nevada, Las Vegas, NV

2015 Nhu Y Thi Doan, IRACDA Summer Undergraduate Research Fellow (Pomona College)
Current position: Senior undergraduate student, Pomona College, CA

2016-17 Ivette Gonzalez, IRACDA Pre-MARC Mentoring Program (San Diego State University)
Current position: Undergraduate Research Assistant, San Diego State University, CA

- 2018 Emily Franco, City of Hope - Eugene and Ruth Roberts Summer Student Academy
Current position: High School student
- 2018 Courtney Smith, City of Hope – DMRI Summer Research Program
Current position: 3rd yr undergraduate Biology student, Brigham Young University, UT

PROFESSIONAL TRAINING

- 2010 Participant, **Compact for Faculty Diversity’s 17th Institute on Teaching and Mentoring**. Attended a 3-day conference consisting of professional development workshops and sessions on research in teaching.
- 2011-2013 Participant, **Preparing Future Faculty**
Attended workshops on academia while participating in a mentor program with a faculty member at a private, non-profit predominantly black institution in Indianapolis.
- 2013 Participant, **Compact for Faculty Diversity’s 20th Institute on Teaching and Mentoring**
- 2013 Participant, **APS Professional Skills Training Course: Writing and Reviewing for Scientific Journals**
- 2015 Participant, **IRACDA Grant Writing Course**
Attended 1-month course to independently write an NIH-style grant on a current project.
- 2016 Participant, **Summer Institute on Scientific Teaching**
Participant of week-long training in scientific teaching where I collaboratively designed a physiology-anatomy teaching module
- 2016 Participant, **Center for the Integration of Research, Teaching and Learning Course: Integrating Creativity, Innovation, and Design Thinking in STEM Courses**. Participated in a 4-day online course to learn innovative techniques to incorporate while teaching.
- 2017 Participant, **UCSD Center for Engaged Teaching Course Design Studio**
Attended a 3-day course to re-design an undergraduate physiology course
- 2017 Facilitator, **Summer Institute on Scientific Teaching**
Facilitator and organizer of week-long training workshop on scientific teaching
- 2018 Participant, **APS Institute on Teaching and Learning, Madison, WI**
Attended a 5-day conference focused on assessments, teaching techniques and resources, the scholarship of teaching and learning (SoTL), and professional development

PROFESSIONAL SERVICE

- 2009 Harbor UCLA Summer Urban Health Fellowship
Fellow of community-based research group and coordinator of community health fairs
- 2009-2013 IU School of Medicine IU Biomedical Gateway (IBMG) Ph.D. Program Diversity Committee Student Representative
- 2012-2014 IBMG Ph.D. Program Student Mentor, Tutor, and Recruiter
- 2012 Preparing Future Faculty and Professionals Conference, Moderator
Session: Of Color in the Academy
- 2013 NOBCChE National Meeting, STEM Weekend-Science Bowl Judge

- 2014 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Task Force, Strategic Planning
- 2014 SACNAS Committee, New board member orientation
- 2015 Poster Presentation Judge, SACNAS National Conference
- 2015 Ad Hoc Manuscript Reviewer, Advances in Physiology Education, Impact Factor: 1.981
- 2016 Admissions Committee and Reviewer, UCSD IRACDA SURF program
- 2016 Ad Hoc Reviewer for APS Minority Travel Fellowship
- 2016 Ad Hoc Reviewer for APS Porter Physiology Predoctoral Fellowship
- 2016 Blogger, The Physiology Education Community of Practice
(<https://blog.lifescitrc.org/pecop/2016/07/18/course-preparation-for-a-first-timer-tips-and-example-steps-to-take/>)
- 2016 Session Chair, APS Trainee Symposium on “Now Hiring PhDs: Postdoc Not Required
- 2016 Workshop Presenter, “Inclusivity and Assessment: Best Practices for Increasing Student Learning and STEM Retention” at UCSD, SDSU, and SD City College
- 2017 APS Strategic Planning Meeting Participant
- 2017 Abstract Reviewer, SACNAS National Conference
- 2017 Chair, SACNAS National Conference Scientific Session “Health Disparities in Disease”
- 2017 Participant, NIH MARC Site Visit, San Diego State University
- 2018 Table Discussion Leader, APS Minority Travel Networking Session “Writing and Defending a Dissertation”
- 2018 Manuscript Reviewer, Mediators of Inflammation, Impact Factor: 3.549

OUTREACH

- 2010-2014 Molecular Medicine in Action, Team Member
Activity: Dissecting Diabetes Module and histological staining
- 2011-2013 St. Vincent Health Camp Medical Explorers Leader
Activity: Strawberry DNA Extraction, Making poop to learn about the digestive tract
- 2012 IU Division of Diversity Affairs- Crispus Attucks HS Health Career Clubs, Presenter
Activity: Lab tour, histological staining, diabetes education
- 2012 St. Malachy 6th grade science class visit, Presenter
Activity: The Digestive System
- 2012-2013 St. Vincent MICI-AHEC, College Preparatory Academy Science Coach
Activity: Visit to IUPUI, career student panel, histological staining, DNA extraction
- 2015 Coordinator and moderator for IRACDA 2015 SURF Workshops on “Journal Club Presentations” and “Graduate Student Panel”
- 2015 SDSU MARC Student Seminar
Activity: Panel on “Applying to Undergraduate Research Programs”
- 2016 Coordinator for IRACDA 2016 SURF Workshops on “Journal Club Presentations”

- 2016 Co-Organizer, Research Mini-symposium at UCSD for students from SD City College, Southwestern Community College, and University of San Diego
- 2017 Guest Panelist, Cal State LA MORE-LSAMP 6th Annual Research Retreat Workshop “So, Why a Postdoc?”
- 2017 Co-Coordinator, APS PhUN Week outreach visits to Doyle Elementary, Logan Middle School, and Fleet Science Center BeWise Program Campus Visit to UC San Diego

HONORS AND AWARDS

- 2010-2011 **C3 Outstanding Service to Career, Campus and Community Award**
IUPUI Graduate and Professional Student Government
- 2011 **Educational Enhancement Travel Grant**
IUPUI Graduate and Professional Student Government (\$1000)
- 2012, 2013 **FASEB MARC Program Travel Award**
- 2013 **Outstanding Graduate Student Abstract**
Indiana Physiological Society’s 3rd Annual Meeting (\$500)
- 2013, 2014 **Minority Travel Fellowship Award**
American Physiological Society (\$1000)
- 2013 **Virendra B. Mahesh Award of Excellence in Endocrinology**
APS-Endocrinology and Metabolism Section (\$1000)
- 2013 **Educational Enhancement Grant**
IUPUI Graduate and Professional Student Government (\$500)
- 2014 **Research Recognition Award**
APS-Endocrinology and Metabolism Section (\$500)
- 2014 **Dr. Stier Physiology Award**
Indiana University School of Medicine-Physiology Department (\$1000)
- 2016-2018 **Education Fellow in the Life Sciences**
National Academies/Howard Hughes Medical Institute/Helmsley Charitable Trust
- 2017 **Future Leaders Advancing Research in Endocrinology (FLARE) Fellow Award**
Endocrine Society
- 2018 **Women in Endocrinology Young Investigator Award**
Endocrine Society (\$1000)
- 2018 **Minority Travel Fellowship Award**
American Physiological Society (\$1800)

FELLOWSHIPS

- 2007-2009 **LSAMP-Bridge-to-the-Doctorate Cohort V Fellowship** (for M.S. program)
California State University, Los Angeles (\$60,000)
- 2011-2012 **Edwin T. Harper Scholar Predoctoral Fellowship**
Indiana University School of Medicine (\$21,180)
- 2012-2014 **William Porter Physiology Development Predoctoral Fellowship**
American Physiological Society (\$47,600)

2014-2017 **San Diego IRACDA Postdoctoral Fellowship**
NIH/NIGMS Institutional Research & Academic Career Development Award (\$91,466)

PROFESSIONAL MEMBERSHIPS

2012-2013 Underrepresented Professional and Graduate Student Organization (UPnGO), Treasurer
Indiana University-Purdue University, Indianapolis

2013-2014 IUSM Graduate Student Representative, Cellular & Integrative Physiology
Indiana University School of Medicine

2014-2015 SACNAS, Board of Directors-Student Member

2015-present SACNAS, Life Member

2014-2016 American Physiological Society, Teaching Section Steering Committee and Trainee
Advisory Committee

2017-present Endocrine Society, member and FLARE Fellow

2014-present American Physiological Society, Member

ORAL PRESENTATIONS

2011 CSULA Biomedical Sciences Seminar Series
Invited talk: The Crossroads of Diabetes: A Midwest Graduate Student's Perspective

2013 Indiana Physiological Society 3rd Annual Meeting
Conference talk: p21 activates the intrinsic apoptotic pathway in pancreatic β -cells.

2013 IUSM Center for Diabetes Research Seminar Series
Invited talk: Stress-induced upregulation of p21 activates apoptosis in pancreatic
beta cells

2013 CSULA LSAMP Undergraduate and Graduate Student Seminar
Invited talks: "The Graduate School Interview Process" and "Life as a Ph.D. student"

2014 Experimental Biology-APS Endocrinology and Metabolism Featured Topic
Conference talk: Glucolipotoxicity-induced p21 suppresses pro-survival signaling in
pancreatic β -cells

2016 Experimental Biology-APS Muscle Biology Interest Group Symposium
Conference talk: The role of Ankrd2 in obesity-induced inflammation and insulin
resistance

2017 IU Center for Diabetes & Metabolic Diseases-Metabolism & Islet Biology Seminar
Invited talk: A Metabolomic and Transcriptomic Approach to Find Novel Regulators
of Obesity-Induced Insulin Resistance

2017 SACNAS National Conference – Postdoc Research Presentation
Conference talk: Cysteine and Glycine-Rich Protein 3 Regulates Glucose Homeostasis
in Skeletal Muscle

2017 SACNAS National Conference – Scientific Session
Conference talk: Molecular Determinants of Type 2 Diabetes

2018 CSU San Marcos – Biology Department Seminar
Invited talk: Novel Regulators of Obesity-Induced Insulin Resistance

CONFERENCE POSTER PRESENTATIONS

1. **Hernandez A**, Cho J, Contreras J, Russo-Neustadt AA. (2008) Exercise prevents stress associated effects on hippocampal-dependent spatial learning in the Barnes Maze. SfN 38th Annual Meeting.
2. **Hernandez AM**, Jeffries K, Colvin ES, Fueger PT. (2011) Trefoil Factor 3 is not Required to Establish Functional Beta Cell Mass *in vivo*. 71st Scientific Session Am. Diabetes Association.
3. **Hernandez AM**, Jeffries K, Colvin ES, Fueger PT. (2011) Trefoil Factor 3 is not Required to Establish Functional Beta Cell Mass *in vivo*. NOBCCChE Midwest Regional Health Science and BioTechnology Conference.
4. **Hernandez AM**, Colvin ES, Fueger PT. (2012) Cyclin-dependent kinase inhibitor 1 initiates apoptosis in beta cells and rat islets. Society for Advancement of Chicanos and Native Americans in Science National Conference.
5. **Hernandez AM**, Colvin ES, Fueger PT. (2012) Cyclin-dependent kinase inhibitor 1 initiates apoptosis in beta cells and rat islets. Midwest Islet Biology Club 5th Annual Meeting.
6. **Hernandez AM**, Colvin ES, Fueger PT. (2013) Upregulation of p21 activates the intrinsic apoptotic pathway in pancreatic beta cells. Experimental Biology. FASEB J. 27:1154.22.
7. **Hernandez AM**, Colvin ES, Fueger PT. (2014) Glucolipotoxicity-induced p21 suppresses pro-survival signaling in pancreatic beta cells. Experimental Biology. FASEB J. 28:1108.9
8. **Hernandez-Carretero A**, Weber N, Fahrmann J, La Frano M, Fiehn O, Newman J, Osborn O. (2015) Metabolite Changes Associated with Obesity and Weight Loss. Lipid Maps Conference.
9. La Frano M, **Hernandez-Carretero A**, Newman J, Osborn O. (2015) Targeted Metabolomic Profiling of Bile Acids in Metabolically Active Tissues Reveals Reversible and Irreversible Effects of Obesity and Weight Loss. Metabolomics Society Conference.
10. **Hernandez-Carretero A**, Fahrmann J, La Frano M, Fiehn O, Newman J, Osborn O. (2015) Metabolite Changes Associated with Obesity and Weight Loss. Metabolomics Society Conference.
11. **Hernandez-Carretero A**, Weber N, Fahrmann J, La Frano M, Newman J, Fiehn O, Osborn O. (2015) Metabolomic and transcriptomic changes associated with obesity and weight loss. IRACDA National Conference.
12. **Hernandez-Carretero A**, Weber N, Fahrmann J, La Frano M, Newman J, Fiehn O, Osborn O. (2015) Metabolomic and transcriptomic changes associated with obesity and weight loss. UCSD-UCLA Diabetes Research Center Retreat.
13. **Hernandez-Carretero A**, Weber N, Osborn O. (2015) Identification of hypothalamic targets for the prevention of relapse to obesity after weight loss. Diabetes Research Center Retreat.
14. **Hernandez-Carretero A**, Weber N, Doan N, Osborn O. (2016) The role of Ankrd2 in obesity-induced inflammation and insulin resistance. Experimental Biology. FASEB J. 30:770.3.
15. **Hernandez-Carretero A**, Weber N, Doan N, Osborn O. (2016) The role of Ankrd2 in obesity-induced inflammation and insulin resistance. UCSD-UCLA Diabetes Research Center Retreat.
16. Thackray, V.G., Skarra, D.V., **Hernández-Carretero, A.**, and Anvar, A.R. (2017) Letrozole Treatment of Pubertal Female Mice Results in Multiple Features of PCOS Metabolic Dysregulation. 99th Annual Meeting of The Endocrine Society.
17. **Hernandez-Carretero A**, Weber N, Doan N, Osborn O. (2017) Cysteine and Glycine-Rich Protein

3 Regulates Glucose Homeostasis in Skeletal Muscle. 77th Scientific Session ADA.

18. **Hernandez-Carretero A**, Weber N, Doan N, Osborn O. (2017) Cysteine and Glycine-Rich Protein 3 Regulates Glucose Homeostasis in Skeletal Muscle. IRACDA National Conference.
19. **Hernandez-Carretero A**, Weber N, Doan N, Osborn O. (2017) Cysteine and Glycine-Rich Protein 3 Regulates Glucose Homeostasis in Skeletal Muscle. SACNAS National Conference.
20. **Hernandez-Carretero A**, Martins V, Riopel M, Ho B, Schenk S, Thackray V. (2018) Letrozole Treatment of Pubertal Female Mice Results in Impaired Insulin Action in Skeletal Muscle. ENDO Conference.
21. **Hernandez-Carretero A**, Martins V, Riopel M, Ho B, Schenk S, Thackray V. (2018) Letrozole Treatment of Pubertal Female Mice Results in Impaired Insulin Action in Skeletal Muscle. Experimental Biology. FASEB J. 32(1):lb382.
22. **Hernandez-Carretero A**, Kameswari A, Molinar-Ingles O. (2018) PhUn week at San Diego: Giving students the hands-on experience in Physiology to inspire the pursuance of college and career pathways in the Biomedical Sciences. Experimental Biology.

REFERENCES

Patrick Fueger, Ph.D. (Ph.D. Thesis research advisor)
Associate Professor of Molecular and Cellular Endocrinology
Beckman Research Institute at City of Hope
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Olivia Osborn, Ph.D. (Postdoctoral research co-mentor)
Assistant Professor
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Jerrold Olefsky, Ph.D. (Postdoctoral research co-mentor)
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Varykina Thackray, Ph.D. (Postdoctoral research mentor)
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University of California, San Diego
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JoAnn Trejo, Ph.D., M.B.A (NIH NIGMS IRACDA San Diego Director)
Professor and Vice Chair, Department of Pharmacology
Associate Dean for Health Sciences Faculty Affairs
University of California, San Diego
9500 Gilman Drive, MC 0636, La Jolla, CA 92093
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Stacy Ochoa-Mikrut, Ph.D. (Teaching Coordinator/Evaluator)
Adjunct Professor, San Diego State University
NIH NIGMS IRACDA San Diego Educational Coordinator
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