DEPARTMENT OF NEUROSCIENCES

Annual Report

FY13

July 1, 2012 - June 30, 2013

Daniel D. Savage, II Ph.D.
Regents' Professor and Chairman

and

Jacqueline Castro, Department Administrator
Charles LeBlanc, Program & Grants Coordinator
Erin J. Bolden Dabney, Fiscal Services Tech.
Buz Tyler, User Support Analyst II
UNM Neurosciences

DEPARTMENT OF NEUROSCIENCES
Fiscal Year July 1, 2012 to June 30, 2013

Neuroscience Faculty

Daniel Savage, II Ph.D., Chair
Andrea Allan, Ph.D
Jonathan Brigman, Ph.D.
William Buss, Ph.D.
Kevin Caldwell, Ph.D
John Connor, Ph.D
Lee Anna Cunningham, Ph.D.
Erin Milligan, Ph.D
Don Partridge, Ph.D.
Nora Perrone-Bizzozero, Ph.D.
Linda Saland, Ph.D.
Bill Shuttleworth, Ph.D.
Harold Traurig, Ph.D.
Fernando Valenzuela, Ph.D.
Jim Wallace, Ph.D.
Jason Weick Ph.D.
Michael Wilson, Ph.D.

Administrative Staff

Jacqueline Castro,Department Administrator
Charles LeBlanc, Program & Grants Coordinator
Erin J. Bolden Dabney, Sr Fiscal Services Tech
Buz Tyler, User Support Analyst III

Research Personnel

Suzy Davies, Research Scientist
Julie Everett HS Research Tech
Samantha, Goggin HS Research Tech
Guo, Xun
Jordan Kennon, HS Research Tech
Matthew Labrecque, HS Research Tech
Lu Li, Staff Scientist
Eric Schaller, HS Research Tech
Rahul Sigdel, HS Research Tech
Sergio Torres, HS Research Tech

Postdoc Fellows

Isamu Aiba, Ph.D.
Carmen Ballesteros-Merino, Ph.D.
Russell Carter, Ph.D.
Marvin Diaz, Ph.D.
Amy Gardiner, Ph.D.
Vasundhararani Kandachar Ph.D.
Karick Jotty, Ph.D.
Russell Morton, Ph.D.

Graduate Students

Isamu Aiba
Michael Baca
Russell Carter
Ellen Dengler
Kenta Kajimoto
Britta Lindquist
Kristin Marquardt
Robert Oliver
Miranda Staples
Lauren Topper
Christina Tyler
Rafael Varaschin
Jenny Wilkerson
Carrie Wright

Student Employees

Lauren Alberti
Nyika Allen
Brandi Bowman
Scott Contri
Elena Gandara
Zoe Larson
Morgan Porch
Pamela Platero
Justine Saavedra
Sanjog Singh
Wenonah Stevens
Ruth X. Wang
Kandis Wright
Patrick Zacharias

Department of Neurosciences - FY2013 Annual Report Narrative

The Department of Neurosciences is an academic unit of the UNM School of Medicine dedicated to the advancement of knowledge and understanding of the nervous system. The Neurosciences Department faculty consists of investigators with diverse backgrounds utilizing multidisciplinary and collaborative approaches in the study of nervous system development, function and disease. The faculty are committed to the achievement of the department's strategic goals and the expectation that they will make balanced contributions in teaching, research and service, working together in a professional and collegial manner to foster the development of all faculty, staff and students.

The department has continuously pursued six strategic goals since its inception in 1997:

1. Enhance the department's level of research activity, productivity and funding through individual efforts and through the expansion of programmatic research collaborations among ourselves and investigators in other basic and clinical science departments.
2. Strengthen the Neuroscience division of the Biomedical Sciences Graduate program through the creation of additional graduate level Neuroscience courses and the acquisition of Neuroscience training grants.
3. Sustain high quality multidisciplinary teaching within the undergraduate medical curriculum.
4. Implement a fiscal plan and philosophy that provides long-term monetary stabilization for the department, the faculty and staff, along with incentives to reward excellence in research and teaching.
5. Maintain a system of departmental governance that maximizes faculty and staff participation, responsibility and accountability.
6. Sustain a supportive, yet challenging environment that fosters the development of faculty, staff and students.

During FY 2013, the department consisted of 13 full time tenure track faculty, one research professor, two part-time emeritus faculty, 4 administrative and 18 research staff, 6 postdoctoral fellows, 12 biomedical sciences graduate students and 16 undergraduate students.

Research. During FY 2013, the department was awarded $2,898,615 million dollars in extramural funding for research and training. The faculty also submitted grant applications for additional funding totaling $8,266,319 million dollars. The faculty published 32 research articles and department personnel made more than three dozen research presentations at national and international meetings as well as at other institutions. The department sponsored the weekly Neuroscience Seminar series on Thursdays at noon during the academic year. We also organized the annual Neuroscience Day, the annual meeting of the state chapter of the Society for Neuroscience, in April 2013.

Education. Department faculty continued their involvement in five of the seven Phase I blocks in the undergraduate medical curriculum, providing leadership in the Neuroscience Block and Pharmacology across the UME Phase I curriculum. The department also presented first-year and upper level courses in the Neuroscience Division of the Biomedical Sciences Graduate program. The department continued laboratory training of more than 30 postdoctoral, graduate and undergraduate students and mentored junior faculty in other departments within the SOM and the College of Pharmacy.

Service. Department faculty participated on twenty five SOM, HSC and UNM committees, nearly two dozen national committees and four international committees in FY 2013, including editorial boards, more than a half dozen NIH study sections and research society organizing committees.

Notable department achievements during FY 2013 included the following:

1. Dr. Jason Weick was hired as a new Assistant Professor in August 2012.
2. Dr. Erin Milligan was promoted to Associate Professor with tenure.
3. Dr. Lee Anna Cunningham won the Walker Award for excellence in neuroscience research at UNM and an Apple for the Teacher Award for best block director in UME Phase I curriculum.
4. Dr. Fernando Valenzuela was elected to the Board of Directors of the Research Society on Alcoholism.
5. Drs. Isamu Aiba, Clark Bird, Russell Carter, Ellen Dengler, Miranda Staples, Rafael Varaschin and Jenny Wilkerson successfully completed their doctoral dissertations.

Neurosciences Faculty/Staff positions:

SEPARATIONS FROM THE FACULTY

None

APPOINTMENTS TO THE FACULTY

Jason Weick appointed 8/1/2012 as an Assistant Professor

SEPARATIONS FROM THE STAFF

Julie Everett, HS Research Tech 2, Left to attend Medical School

Xun Guo, Staff Scientist, Left for personal reasons, relocation with husband

Sergio Torres, HS Research Tech, Laid off due to loss of funding

SEPARATIONS FROM POSTDOCS

Vasundhararani Kandachar, Ph.D. Postdoc, Left for personal reasons

Paula Zamudio, Ph.D. Postdoc, Accepted Postdoc position at Medical University of South Carolina, Charleston, SC.

SEPARATIONS FROM STUDENTS

Isamu Aiba- RA Grad Student – Graduated 12/31/12
Clark Bird - RA Grad Student – Graduated 12/31/12
Ellen Dengler- RA Grad Student – Graduated 08/01/12
Miranda Staples- RA Grad Student – Graduated 5/31/13
Jenny Wilkerson- RA Grad Student – Graduated 12/31/12

STAFF/RESEARCH POSITIONS FILLED

Samantha Blomquist, HS Research Tech 2- Hired 02/08/2013
Praveen Chander, Research Scientist 1 – Hired 12/10/12
Rahul Sigdel, HS Research Tech 2 – Hired 01/22/2013
Susie Turrey, Admin Asst 1- Hired 11/30/2012

POSTDOC FELLOW POSITIONS FILLED

Isamu Aiba, Post Doctoral Fellow, hired 01/15/2013
Carmen Ballesteros-Merino, Post Doctoral Fellow, hired 09/03/2012
Russell Carter, Post Doctoral Fellow, hired 06/01/2013
Vasundhararani Kandachar, Post Doctoral Fellow, hired 1/1/2012
Karick Jotty, Post Doctoral Fellow, hired 08/13/2012
Paula Zamudio, Post Doctoral Fellow, hired 08/10/2012

STUDENT POSITIONS FILLED

Scott Contri - Student Employee – 01/01/2013
Tess Demeter - Student Employee – 01/01/2013
Zoe Larson - Student Employee – 11/26/2012
Kristin Marquardt, Graduate Student – 06/01/2013
Karen Mooneyhan - Student Employee – 02/04/2013
Morgan Porch - Student Employee – 9/14/12
Justine Saavedra - Student Employee – 01/28/2013
Sanjog Singh - Student Employee – 01/01/2013
Melody Sun - Student Employee – 05/20/2013
Patrick Zacharias - Student Employee –11/26/2012

Department of

Neurosciences

FY 2013 GRANTS

(Awarded and Submitted)

Awarded Increment Award Date	Associated Department - Proposal Primary	PI Last Name	PI First Name	Institution Number	Sponsor/Scheme Name	Project Title	Sponsor Award Number	Award Increment Start Date	Award Increment Sponsor Direct Costs	Award Increment Sponsor F&A	F&A Percent	Award Increment Total Sponsor Costs	Award Increment End Date	Instrument Type	Award Increment Award Type
July	Neurosciences	Savage	Daniel	HSC-17421	NIH/National Institutes of Health	Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission	5R01AA019884-02	1-Aug-12	$212,830.00	$104,545.00	51	$317,375.00	31-Jul-13	Grant	Continuation
July	Neurosciences	Savage	Daniel	HSC-17417	NIH/National Institute on Alcohol Abuse and Alcoholism	Consequences of Prenatal Ethanol Exposure and Maternal Stress on Offspring	5F31AA020702-02	1-Aug-12	$15,262.00	$0.00	0	$15,262.00	31-Jan-13	Grant	Continuation
July	Neurosciences	Valenzuela	Carlos	HSC-12445	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol Research Training in Neurosciences	5T32AA014127-10	1-Aug-12	$113,507.00	$7,603.00	8	$121,110.00	31-Jul-13	Grant	Continuation
August	Neurosciences	Brigman	Jonathan	HSC-17418	NIH/National Institutes of Health	Corticostriatal Networks and NMDAR Medication of Habitual and Flexible Action in the Mouse	5K22AA020303-02	1-Sep-12	$153,443.00	$12,275.00	8	$165,718.00	31-Aug-13	Grant	Continuation
September	Neurosciences	Weick	Jason	HSC-18290	NIH/National Institute of Neurological Disorders and Stroke	Functional Integration and Plasticity of Human ESC-Derived Neurons	7R03NS074281-03	1-Aug-12	$27,241.00	$13,893.00	51	$41,134.00	31-Jan-13	Grant	Transfer
December	Neurosciences	Allan	Andrea	HSC-16125	NIH/National Institute of Environmental Health Sciences	Epigenetic Changes in Glucocorticoid Receptor Gene Due to Arsenic Exposure	5R01ES019583-03	1-Dec-12	$200,214.00	$102,109.00	51	$302,323.00	30-Nov-13	Grant	Continuation
January	Neurosciences	Valenzuela	Carlos	HSC-18911	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	5R37AA015614-07	1-Feb-13	$200,166.00	$102,085.00	51	$302,251.00	31-Jan-14	Grant	Continuation
February	Neurosciences	Shuttleworth	Claude	HSC-19077	NIH/National Institute of Neurological Disorders and Stroke	Adenosine Receptor Activation in Spreading Depolarization and Ischemic Injury	5F31NS078805-02	1-Apr-13	$32,058.00	$0.00	0	$32,058.00	31-Mar-14	Grant	Continuation
March	Neurosciences	Perrone-Bizzozero	Nora	HSC-19144	The Mind Research Network	Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia	6169 SubN2 M2	1-Mar-13	$49,148.00	$23,744.00	51	$72,892.00	28-Feb-14	Subaward	Continuation
March	Neurosciences	Partridge	L Donald	HSC-19004	Sandia National Laboratories	A Comprehensive Approach to Decipher Biological Computation to Achieve Next Generation High-Performance Exascale Computing	1088677	1-Jan-13	$3,311.00	$1,689.00	51	$5,000.00	30-Sep-13	Contract	Continuation
May	Neurosciences	Perrone-Bizzozero	Nora	HSC-19128	NIH/National Institute on Drug Abuse	Impact of miR-495 vs. HuD in the Control of Addication-Related Genes and Behavior	5R21DA034452-02	1-Jun-13	$120,000.00	$61,200.00	51	$181,200.00	31-May-14	Grant	Continuation
May	Neurosciences	Perrone-Bizzozero	Nora	HSC-19779	NIH/National Institute on Drug Abuse	Competing Roles of MicroRNA's and RNA-Binding Proteins in Drug Addiction	5R01DA034097-02	1-May-13	$20,513.00	$4,168.00	51	$24,681.00	30-Apr-14	Grant	Supplement
May	Neurosciences	Cunningham	Lee Anna	HSC-15211	NIH/National Institute on Alcohol Abuse and Alcoholism	Prenatal Alcohol and Adult Hippocampal Neurogenesis - MPI	5R01AA017449-04	1-May-13	$212,305.00	$108,276.00	51	$320,581.00	30-Apr-14	Grant	Continuation
May	Neurosciences	Perrone-Bizzozero	Nora	HSC-19132	NIH/National Institute on Drug Abuse	Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction	5R01DA034097-02	1-May-13	$308,195.00	$62,025.00	51	$370,220.00	30-Apr-14	Grant	Continuation
May	Neurosciences	Valenzuela	Carlos	HSC-19695	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	5R37AA015614-07	1-Feb-13	$6,672.00	$3,403.00	51	$10,075.00	31-Jan-14	Grant	Supplement
June	Neurosciences	Shuttleworth	Claude	HSC-14772	NIH/National Institute of Neurological Disorders and Stroke	Spreading Depolarizations and Post-Ischemic Injury	2R01NS051288-08	1-Jul-13	$203,907.00	$103,993.00	51	$307,900.00	30-Jun-14	Grant	Continuation
June	Neurosciences	Milligan	Erin	HSC-16146	NIH/National Institute on Drug Abuse	Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain	5R01DA018156-10	1-Jul-13	$211,969.00	$96,866.00	51	$308,835.00	30-Jun-14	Grant	Continuation

Requested Increment Processed Date	Associated Department - Proposal Primary	PI Last Name	PI First Name	Institution Number	Sponsor/Scheme Name	Project Title	Requested Increment Period Start Date	Requested Increment Sponsor Directs	Requested Increment Sponsor Indirect Costs	F&A Percent	Requested Increment Total Sponsor Costs	Requested Increment Period End Date	Instrument Type	Submission Type
July	Neurosciences	Shuttleworth	Claude	HSC-18227	AHA / American Heart Association	***DENIED*** Neurogenic Response After Cortical Spreading Depression	1-Jan-13	$50,048.00	$0.00	0	$50,048.00	31-Dec-13	Grant	New *
August	Neurosciences	Shuttleworth	Claude	HSC-18291	NIH/National Institute of Neurological Disorders and Stroke	Neurogenic Response Induced by Cortical Spreading Depression - Withdrawn	1-Apr-13	$64,678.00	$0.00	0	$64,678.00	31-Mar-14	Grant	New *
August	Neurosciences	Weick	Jason	HSC-18290	NIH/National Institute of Neurological Disorders and Stroke	Functional Integration and Plasticity of Human ESC-Derived Neurons	1-Oct-12	$27,700.00	$14,127.00	51	$41,827.00	31-Mar-13	Grant	Transfer*
November	Neurosciences	Savage	Daniel	HSC-18822	NIH/National Institute on Alcohol Abuse and Alcoholism	Fetal Ethanol-Induced Behavioral Deficits: Mechanisms, Diagnoses and Interventions	1-Dec-13	$979,784.00	$488,016.00	51	$1,467,800.00	30-Nov-14	Grant	New *
November	Neurosciences	Allan	Andrea	HSC-18845	NIH/National Institute of Mental Health	The Epigenetic Link Between Environmental Exposure and Adult Onset Depression	1-Jul-13	$28,501.00	$0.00	0	$28,501.00	30-Jun-14	Grant	New *
December	Neurosciences	Valenzuela	Carlos	HSC-18911	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	1-Feb-13	$222,482.00	$113,486.00	51	$335,968.00	31-Jan-14	Grant	Continuation*
December	Neurosciences	Brigman	Jonathan	HSC-18955	Brain & Behavior Research Foundation	Updating Expectation: Recruitment and Organization of Firing in Orbitofrontal Cortex During Flexible Behavior	15-Jan-14	$30,000.00	$0.00	0	$30,000.00	14-Jan-15	Grant	New *
January	Neurosciences	Partridge	L Donald	HSC-19004	Sandia National Laboratories	A Comprehensive Approach to Decipher Biological Computation to Achieve Next Generation High-Performance Exascale Computing	1-Jan-13	$3,311.00	$1,689.00	51	$5,000.00	30-Sep-13	Contract	Continuation*
January	Neurosciences	Shuttleworth	Claude	HSC-19077	NIH/National Institute of Neurological Disorders and Stroke	Adenosine Receptor Activation in Spreading Depolarization and Ischemic Injury	1-Apr-13	$32,058.00	$0.00	0	$32,058.00	31-Mar-14	Grant	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19128	NIH/National Institute on Drug Abuse	Impact of miR-495 vs. HuD in the Control of Addication-Related Genes and Behavior	1-Jun-13	$125,000.00	$63,750.00	51	$188,750.00	31-May-14	Grant	Continuation*

Requested Increment Processed Date	Associated Department - Proposal Primary	PI Last Name	PI First Name	Institution Number	Sponsor/Scheme Name	Project Title	Requested Increment Period Start Date	Requested Increment Sponsor Directs	Requested Increment Sponsor Indirect Costs	F&A Percent	Requested Increment Total Sponsor Costs	Requested Increment Period End Date	Instrument Type	Submission Type
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19132	NIH/National Institute on Drug Abuse	Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction	1-May-13	$342,439.00	$68,916.00	51	$411,355.00	30-Apr-14	Grant	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19133	NIH/National Institute on Drug Abuse	Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction	1-May-14	$342,439.00	$68,916.00	51	$411,355.00	30-Apr-15	Grant	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19134	NIH/National Institute on Drug Abuse	Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction	1-May-15	$342,439.00	$68,916.00	51	$411,355.00	30-Apr-16	Grant	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19135	NIH/National Institute on Drug Abuse	Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction	1-May-16	$342,439.00	$68,916.00	51	$411,355.00	30-Apr-17	Grant	Continuation*
February	Neurosciences	Valenzuela	Carlos	HSC-19138	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	1-Feb-14	$222,329.00	$113,387.00	51	$335,716.00	31-Jan-15	Grant	Continuation*
February	Neurosciences	Valenzuela	Carlos	HSC-19140	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	1-Feb-15	$222,329.00	$113,387.00	51	$335,716.00	31-Jan-16	Grant	Continuation*
February	Neurosciences	Valenzuela	Carlos	HSC-19142	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	1-Feb-16	$222,329.00	$113,387.00	51	$335,716.00	31-Jan-17	Grant	Continuation*
February	Neurosciences	Milligan	Erin	HSC-19146	International Anesthesia Research Society	Mu Opioid Receptor Desensitization in Neuropathie Pain	5-Aug-13	$200,000.00	$0.00	0	$200,000.00	4-Aug-14	Grant	New *
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19144	The Mind Research Network	Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia	1-Mar-13	$45,122.00	$23,012.00	51	$68,134.00	28-Feb-14	Subaward	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19161	The Mind Research Network	Mining the Genomewide Scan: Genetic Profiles of STructural Loss in Schizophrenia	1-Mar-14	$46,255.00	$23,590.00	51	$69,845.00	28-Feb-15	Subaward	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19162	The Mind Research Network	Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia	1-Mar-15	$47,374.00	$24,161.00	51	$71,535.00	29-Mar-16	Subaward	Continuation*
February	Neurosciences	Perrone-Bizzozero	Nora	HSC-19164	The Mind Research Network	Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia	1-Mar-16	$48,511.00	$24,741.00	51	$73,252.00	28-Feb-17	Subaward	Continuation*

Requested Increment Processed Date	Associated Department - Proposal Primary	PI Last Name	PI First Name	Institution Number	Sponsor/Scheme Name	Project Title	Requested Increment Period Start Date	Requested Increment Sponsor Directs	Requested Increment Sponsor Indirect Costs	F&A Percent	Requested Increment Total Sponsor Costs	Requested Increment Period End Date	Instrument Type	Submission Type
February	Neurosciences	Shuttleworth	Claude	HSC-19190	NIH/National Institute of General Medical Sciences	UNM Center for Brain Recovery and Repair	1-Dec-13	$1,799,970.00	$660,450.00	51	$2,460,420.00	30-Nov-14	Grant	New *
May	Neurosciences	Valenzuela	Carlos	HSC-19695	NIH/National Institute on Alcohol Abuse and Alcoholism	Alcohol and Developing Neuronal Circuits	1-Feb-13	$6,672.00	$3,403.00	51	$10,075.00	31-Jan-14	Grant	Supplement*
June	Neurosciences	Perrone-Bizzozero	Nora	HSC-19779	NIH/National Institute on Drug Abuse	Competing Roles of MicroRNA's and RNA-Binding Proteins in Drug Addiction	1-May-13	$20,513.00	$4,168.00	51	$24,681.00	30-Apr-14	Grant	Supplement*
June	Neurosciences	Milligan	Erin	HSC-19786	NIH/National Institute on Alcohol Abuse and Alcoholism	Pain, Glia and FETAL Alcohol Exposure	1-Apr-14	$150,000.00	$76,500.00	51	$226,500.00	31-Mar-15	Grant	New *
June	Neurosciences	Brigman	Jonathan	HSC-19820	NIH/National Institute on Alcohol Abuse and Alcoholism	Corticostriatal Networks and NMDAR Mediation of Habitual and Flexible Action in the Mouse	1-Sep-13	$152,481.00	$12,198.00	8	$164,679.00	31-Aug-14	Grant	Continuation*

Annual Report - Grants - By Submitted Date - FY2013

PI
Status

Sponsor	*Program Title*	*Prop #*	*Total Direct*	*Total IDC*	*Total Costs*	*Version Type*	*Grant Type*	*Start*	*End*
Allan									
Active									
NIH/NIMH	The epigenetic link between perinatal arsenic exposure and adult depression (Tyler fellowship)	18845	$60,620	$0	$60,620	New	Fellowship	7/1/2013	6/30/2015
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
NIH/NIEHS	Epigenetic Changes in the Glucocorticoid Receptor Gene Due to Arsenic Exposure	16124	$225,000	$110,915	$335,915	Continuation	R01	12/1/2012	11/30/2013
NIH/NIDA	Competing roles of microRNAs and RNA-binding proteins in drug addiction	19132	$135,130	$68,916	$204,046	Continuation	R01	5/1/2013	4/30/2014
NIH/NIAAA	Prenatal Alcohol and Adult Hippocampal Neurogenesis	15211	$212,305	$108,276	$320,581	Continuation	R01	5/1/2013	4/30/2014
Past									
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Prenatal Alcohol and Adult Hippocampal Neurogenesis	15210	$228,285	$116,425	$344,710	Continuation	R01	5/1/2012	4/30/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018

PI

Status *Sponsor*	*Program Title*	*Prop #*	*Total Direct*	*Total IDC*	*Total Costs*	*Version Type*	*Grant Type*	*Start*	*End*
Brigman									
Active									
NIH/NIAAA	Corticostriatal networks and NMDAR mediation of habitual and flexible action in the mouse	19820	$153,088	$11,591	$164,679	Continuation	K22	9/1/2013	8/31/2014
Past									
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Corticostriatal networks and NMDAR mediation of habitual and flexible action in the mouse	17418	$156,512	$12,521	$169,033	Continuation	K22	9/1/2012	8/31/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018
Unsuccessful Attempt									
Brain Behavior Research Foundation	Updating expectation: Recruitment and organization of firing in orbitofrontal cortex during flexible behavior	18955	$60,000	$0	$60,000	New	Young Investigator	1/15/2014	1/15/2016
NIH/NIGMS	UNM Center for Brain Recovery and Repair	19190	$7,799,974	$3,618,390	$11,418,364	New	P20	12/1/2013	11/30/2018
Caldwell									
Active									
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
Past									
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Prenatal ethanol exposure effects on NMDA receptor localization and function (Brady Fellowship)	17420	$18,476	$0	$18,476	Continuation	Predoc Fellowship		
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018

PI

Status

Sponsor	*Program Title*	*Prop #*	*Total Direct*	*Total IDC*	*Total Costs*	*Version Type*	*Grant Type*	*Start*	*End*
Cunningham									
Active									
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
NIH/NIAAA	Prenatal Alcohol and Adult Hippocampal Neurogenesis	15211	$212,305	$108,276	$320,581	Continuation	R01	5/1/2013	4/30/2014
NIH/NINDS	Spreading Depolarizations and Post-Ischemic Injury	14772	$211,303	$107,765	$319,068	Continuation	R01	7/1/2013	6/30/2014
Not Awarded-Archive									
American Heart Association	Neurogenesis induced by Cortical Spreading Depolarization (Kandachar Postdoc Fellowship)	18227	$102,040	$0	$102,040	New	Postdoctoral Fellowship	1/1/2013	12/31/2014
NIH/NINDS	Neurogenesis induced by Cortical Spreading Depolarization (Kandachar Fellowship).	18291	$64,678	$0	$64,678	New	F32	4/1/2013	3/31/2014
Past									
American Heart Association	Role of HIF-1a in the Neural Stem Cell Response to Focal Cerebral Ischemia	17219	$63,636	$6,364	$70,000	New	Grant in Aid	7/1/2012	6/30/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Prenatal Alcohol and Adult Hippocampal Neurogenesis	15210	$228,285	$116,425	$344,710	Continuation	R01	5/1/2012	4/30/2013
NIH/NINDS	Spreading Depolarizations and Post-Ischemic Injury	14771	$221,827	$97,703	$318,530	Continuartion	R01	7/1/2012	6/30/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018
Unsuccessful Attempt									
NIH/NIGMS	UNM Center for Brain Recovery and Repair	19190	$7,799,974	$3,618,390	$11,418,364	New	P20	12/1/2013	11/30/2018

PI

Status Sponsor	Program Title	Prop #	Total Direct	Total IDC	Total Costs	Version Type	Grant Type	Start	End
Milligan									
Active									
NIH/NIDA	Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain Control	16146	$221,244	$100,460	$321,704	Continuation	R01	7/1/2013	6/30/2014
Past									
NIH/NIDA	Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain Control	16145	$238,871	$93,118	$331,989	Continuation	R01	7/1/2012	6/30/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018
NIH/NIAAA	Pain, Glia and Fetal Alcohol Exposure	19786	$275,000	$140,250	$415,250	New	R21	4/1/2014	3/31/2016
Partridge									
Past									
Sandia National Lab	A comprehensive approach to decipher biological computation to achieve next generation high-performance exascale computing	19004	$3,311	$1,689	$5,000	Extension	Contract	1/1/2013	9/30/2013
Perrone-Bizzozero									
Active									
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
Subcontract to MRN	Mining the genome-wide scan: Genetic profiles of Structural Loss I Schizophrenia	19144	$49,148	$23,744	$72,892	continuation	Subcontract	3/1/2013	2/28/2014
NIH/NIDA	Competing roles of microRNAs and RNA-binding proteins in drug addiction	19132	$135,130	$68,916	$204,046	Continuation	R01	5/1/2013	4/30/2014
NIH/NIDA	Impact of miR-495 vs. HuD in the control of addiction related genes and behavior	19128	$125,000	$63,750	$188,750	Continuation	R21	6/1/2013	5/31/2014
Past									
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnosis and interventions	12441	$312,878	$156,439	$469,317	Continuation	P20	7/1/2012	6/30/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018

PI

Status

Sponsor	*Program Title*	*Prop #*	*Total Direct*	*Total IDC*	*Total Costs*	*Version Type*	*Grant Type*	*Start*	*End*
Savage									
Active									
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
NIH/NIAAA	Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission	17422	$212,500	$104,770	$317,270	Continuation	R01	8/1/2013	7/31/2014
Past									
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Consequences of prenatal ethanol exposure and maternal stress on offspring (Staples Fellowship)	17417	$15,046	$0	$15,046	Continuation	Predoc Fellowship	8/1/2012	1/31/2013
NIH/NIAAA	Fetal ethanol effects on histaminergic regulation of neurotransmission	17421	$207,533	$105,842	$317,375	Continuation	R01	8/1/2012	7/31/2013
NIH/NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnosis and interventions	12441	$312,878	$156,439	$469,317	Continuation	P20	7/1/2012	6/30/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018
NIH/NIAAA	Pain, Glia and Fetal Alcohol Exposure	19786	$275,000	$140,250	$415,250	New	R21	4/1/2014	3/31/2016

PI

Status

Sponsor	Program Title	Prop #	Total Direct	Total IDC	Total Costs	Version Type	Grant Type	Start	End
Shuttleworth									
Active									
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
NIH/NINDS	Adenosine receptor activation in spreading depolarization and ischemic injury (Lindquist Fellowship)	19077	$32,058	$0	$32,058	Fellowship	F31	4/1/2013	3/31/2014
NIH/NINDS	Spreading Depolarizations and Post-Ischemic Injury	14772	$211,303	$107,765	$319,068	Continuation	R01	7/1/2013	6/30/2014
NIH/NIAAA	Alcohol and cerebellar circuits	15205	$280,382	$125,320	$405,702	Continuation	R01	7/1/2013	6/30/2014
Not Awarded-Archive									
American Heart Association	Neurogenesis induced by Cortical Spreading Depolarization (Kandachar Postdoc Fellowship)	18227	$102,040	$0	$102,040	New	Postdoctoral Fellowship	1/1/2013	12/31/2014
NIH/NINDS	Neurogenesis induced by Cortical Spreading Depolarization (Kandachar Fellowship).	18291	$64,678	$0	$64,678	New	F32	4/1/2013	3/31/2014
Past									
NIH/NINDS	Synaptic zinc release in ischemia models (Carter Fellowship)	16128	$34,204	$0	$34,204	Continuation	Predoc Fellowship	4/1/2012	3/31/2013
NIH/NINDS	Spreading Depolarizations and Post-Ischemic Injury	14771	$221,827	$97,703	$318,530	Continuartion	R01	7/1/2012	6/30/2013
NIH/NIAAA	Alcohol and Cerebellar Circuits	15204	$312,398	$105,355	$417,753	Continuation	R01	7/1/2012	6/30/2013
Unsuccessful Attempt									
NIH/NIGMS	UNM Center for Brain Recovery and Repair	19190	$7,799,974	$3,618,390	$11,418,364	New	P20	12/1/2013	11/30/2018

PI

Status Sponsor	Program Title	Prop #	Total Direct	Total IDC	Total Costs	Version Type	Grant Type	Start	End
Valenzuela									
Active									
NIH/NIAAA	Alcohol Research Training in Neurosciences	17922	$154,750	$9,648	$164,398	Comp. Renewal	T32	8/1/2013	7/31/2014
NIH/NIAAA	Alcohol and Developing Neuronal Circuits	18911	$222,482	$113,486	$335,948	Continuation	R37	2/1/2013	1/31/2014
NIH/NIAAA	Prenatal Alcohol and Adult Hippocampal Neurogenesis	15211	$212,305	$108,276	$320,581	Continuation	R01	5/1/2013	4/30/2014
NIH/NIAAA	Alcohol and Cerebellar Circuits Post Doc Minority Supplement (Marvin Diaz Fellowship)	17426	$60,153	$30,678	$90,831	Continuation	Minority Supplement	7/1/2013	6/30/2014
NIH/NIAAA	Alcohol and cerebellar circuits	15205	$280,382	$125,320	$405,702	Continuation	R01	7/1/2013	6/30/2014
NIH/NIAAA	Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission	17422	$212,500	$104,770	$317,270	Continuation	R01	8/1/2013	7/31/2014
Past									
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Alcohol Research Training in Neurosciences	12445	$125,668	$8,576	$134,244	Continuation	T32	8/1/2012	7/31/2013
NIH/NIAAA	Prenatal Alcohol and Adult Hippocampal Neurogenesis	15210	$228,285	$116,425	$344,710	Continuation	R01	5/1/2012	4/30/2013
NIH/NIAAA	Prenatal ethanol exposure effects on NMDA receptor localization and function (Brady Fellowship)	17420	$18,476	$0	$18,476	Continuation	Predoc Fellowship		
NIH/NIAAA	Alcohol and Cerebellar Circuits	15204	$312,398	$105,355	$417,753	Continuation	R01	7/1/2012	6/30/2013
NIH/NIAAA	Alcohol and Cerebellar Circuits Post Doc Minority Supplement (Marvin Diaz Fellowship)	17425	$62,016	$31,628	$93,644	Continuation	Minority Supplement	7/1/2012	6/30/2013
NIH/NIAAA	Fetal ethanol effects on histaminergic regulation of neurotransmission	17421	$207,533	$105,842	$317,375	Continuation	R01	8/1/2012	7/31/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018
Wallace									
Active									
NIH/NIDA	Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain Control	16146	$221,244	$100,460	$321,704	Continuation	R01	7/1/2013	6/30/2014
Past									
NIH/NIDA	Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain Control	16145	$238,871	$93,118	$331,989	Continuation	R01	7/1/2012	6/30/2013

PI

Status *Sponsor*	*Program Title*	*Prop #*	*Total Direct*	*Total IDC*	*Total Costs*	*Version Type*	*Grant Type*	*Start*	*End*
Weick									
Active									
NIH/NINDS	Functional integration and plasticity of human ESC-derived neurons	18290	$27,700	$14,127	$41,827	Transfer	R03	10/1/2012	3/31/2013
Review Pending									
NIAAA	Fetal ethanol-induced behavioral deficits: Mechanisms, diagnoses and interventions	18822	$6,048,269	$2,951,731	$9,000,000	New	P50	12/1/2013	11/30/2018
Unsuccessful Attempt									
NIH/NIGMS	UNM Center for Brain Recovery and Repair	19190	$7,799,974	$3,618,390	$11,418,364	New	P20	12/1/2013	11/30/2018

Department of Neurosciences FY 2013 Graduate/Medical Student Teaching and Mentoring

Annual Report - Teaching - FY2013

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Allan			
Graduate			
Statistical Methods: A Practical Approach	7/3/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/5/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/10/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/12/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/19/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/24/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/26/2012	2.00	Statistics
Statistical Methods: A Practical Approach	7/31/2012	2.00	Statistics
Neurobiology of Alcoholism (Biomed 505-014)	10/30/2012	1.50	Epigenetics
Neurobiology of Alcoholism (Biomed 505-014)	11/1/2012	1.50	Tolerance/Dependence
Developmental Neurotoxicology	4/2/2013	2.00	Toxicology
Developmental Neurotoxicology	5/7/2013	2.00	Toxicology Exam
Phase I-1			
Neuroscience	1/4/2013	24.00	Total tutorial coverage for semester = 24 Hours
Neuroscience	2/6/2013	1.00	Pharmacology of Headache
Neuroscience	2/14/2013	1.00	Barbiturates and Benzodiazepines Muscle Relaxants
Neuroscience	2/14/2013	1.00	Substance Abuse
Neuroscience	2/15/2013	2.00	Alcohol & FAS
Neuroscience	2/21/2013	1.00	ADHD pharmacotherapy
CV/Pulmonary/Renal	3/28/2013	1.00	Pharmacology of Hemostasis & Thrombosis
CV/Pulmonary/Renal	4/5/2013	1.00	Phamacology of Asthma and COPD
CV/Pulmonary/Renal	5/2/2013	1.00	Pharmacology Review
Undergraduate			
Developmental Neuroscience	12/17/2012	1.00	Lab approaches to devel. Neurotox
Orientation	4/5/2013	2.00	Frontiers in Science

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Brigman			
Graduate			
Neurobiology (Biomed 509)	3/26/2013	1.00	Introduction to Neurobiology
Neurobiology (Biomed 509)	3/26/2013	1.00	Introduction to Neurobiology
Phase I-1			
Neuroscience	1/4/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp A)
Neuroscience	1/7/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp B)
Neuroscience	1/16/2013	2.00	CNS Blood Supply Lab (Grp A)
Neuroscience	1/17/2013	2.00	CNS Blood Supply Lab (Grp B)
Neuroscience	1/22/2013	2.00	Brainstem Anatomy Lab (Grp A)
Neuroscience	1/23/2013	2.00	Brainstem Anatomy Lab (Grp B)
Buss			
Phase I-1			
Genetics & Neoplasia	10/15/2012	20.00	Total tutorial coverage for this block = 20 hours
Genetics & Neoplasia	11/14/2012	1.00	Antineoplastics 1
Genetics & Neoplasia	11/15/2012	1.00	Antineoplastics 2
Genetics & Neoplasia	11/16/2012	0.50	Review
Infection & Immunity	11/27/2012	24.00	Total tutorial coverage for this block = 24 hours in 11-12/2012
Infection & Immunity	11/28/2012	2.00	Antibiotics Acting as Cell Wall and Protein Synthesis Inhibitors
Infection & Immunity	11/29/2012	1.00	Antibiotics Acting as Nucleic Acid Inhibitors
Infection & Immunity	11/30/2012	1.00	Antibiotics Review
Infection & Immunity	12/5/2012	2.00	Optional NB Pharmacology Review: Antineoplastics/Immunosuppressants
Infection & Immunity	12/5/2012	2.00	Optional NB Pharmacology Review: Anti-virals, -fungals,-parasitics
Infection & Immunity	12/5/2012	2.00	Optional NB Pharmacology Review: Cell Wall, Protein, NA Inhibitors
Infection & Immunity	12/14/2012	1.00	Immunosuppressant Drugs Used in Organ Transplantation
Phase I-2			
Infection & Immunity	1/4/2013	9.00	Total tutorial coverage for this block = 9 hours
Infection & Immunity	1/11/2013	1.00	Comprehensive Antibiotic Review

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Caldwell			
Graduate			
Neurochemistry & Neuropharmacology (Biomed	8/21/2012	1.50	Overview; Synaptic Transmission, Cell Signaling
Neurochemistry & Neuropharmacology (Biomed	8/23/2012	1.50	Pharmacokinetics and Pharmacodynamics
Neurochemistry & Neuropharmacology (Biomed	8/28/2012	1.50	Student Presentations on Pharmacokinetics and Pharmacodynamics
Neurochemistry & Neuropharmacology (Biomed	10/18/2012	1.50	Neurotrophins
Neurochemistry & Neuropharmacology (Biomed	10/23/2012	1.50	Student Presentations on
Neurobiology of Alcoholism (Biomed 505-014)	10/25/2012	1.50	Student Presentations on Neurodegeneration
Neurochemistry & Neuropharmacology (Biomed	11/1/2012	1.50	Lipid Signaling
Neurochemistry & Neuropharmacology (Biomed	11/6/2012	1.50	Student presentations on Lipid Signaling
Phase I-1			
Human Sexuality and Reproduction	11/5/2012	1.00	Pharmacology of Reproductive Medicines
Genetics & Neoplasia	11/12/2012	1.00	Pharmacokinetics
Genetics & Neoplasia	11/13/2012	1.00	Applied Pharmacokinetics
Genetics & Neoplasia	11/14/2012	1.00	Pharmacodynamics
Genetics & Neoplasia	11/16/2012	1.00	Pharmacology Review
Infection & Immunity	11/26/2012	15.00	Total tutorial coverage for Nov. - Dec. = 15 hrs
Infection & Immunity	12/4/2012	1.00	Drugs for Treating Autoimmune Diseases
Infection & Immunity	12/11/2012	1.00	Anti-Inflammatory Agents
Cunningham			
Graduate			
Neurobiology (Biomed 509)	1/18/2013	1.00	Astrocyte Domains
Neurobiology (Biomed 509)	1/18/2013	1.00	Neuronal & Glial function
Neurobiology (Biomed 509)	1/27/2013	1.00	Neurodegenerative Disease
Neurobiology (Biomed 509)	4/11/2013	1.00	Neurodegenerative Disease
Neurobiology (Biomed 509)	4/13/2013	1.00	Stem Cells
Neurobiology (Biomed 509)	4/16/2013	1.00	Stem Cells
Neurobiology (Biomed 509)	4/18/2013	1.00	Regeneration & Repair
Neurobiology (Biomed 509)	4/23/2013	1.00	Hippocampal neurogenesis and learning
Phase I-1			
Human Sexuality and Reproduction	12/10/2012	2.00	Pharmacology Review Endocrine
Pharmacology Review Block	12/12/2012	2.00	Pharmacology Endocrine Drugs

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Milligan			
Phase I-1			
Neuroscience	1/4/2013	20.00	Total tutorial coverage for semester = 20 hrs
Neuroscience	1/9/2013	2.00	Long pathways (Grp A)
Neuroscience	1/10/2013	2.00	Long pathways (Grp B)
Neuroscience	1/22/2013	2.00	Brainstem Anatomy Lab (Grp A)
Neuroscience	1/23/2013	2.00	Brainstem Anatomy Lab (Grp B)
Neuroscience	2/1/2013	1.00	Opioid Pharmacology
Neuroscience	2/1/2013	1.00	Pain Pathways
Partridge			
Graduate			
Neurobiology (Biomed 509)	1/28/2013	1.00	Ion Channels
Neurobiology (Biomed 509)	1/30/2013	1.00	Cellular Potentials
Neurobiology (Biomed 509)	2/1/2013	1.00	Paper Presentations
Neurobiology (Biomed 509)	2/2/2013	1.00	Subthreshold phenomena
Neurobiology (Biomed 509)	2/6/2013	1.00	Sensory transduction
Neurobiology (Biomed 509)	2/8/2013	1.00	Paper presentation
Neurobiology (Biomed 509)	3/18/2013	1.00	Synaptic plasticity
Neurobiology (Biomed 509)	4/24/2013	1.00	Student Paper Presentations
Neurobiology (Biomed 509)	4/26/2013	1.00	Student Paper Presentations
Neurobiology (Biomed 509)	4/28/2013	1.00	Student Paper Presentations
Neurobiology (Biomed 509)	5/1/2013	1.00	Student Paper Presentations
Neurobiology (Biomed 509)	5/3/2013	1.00	Student Paper Presentations
Phase I-1			
Ion Channels (Biomed 537)	8/21/2012	1.50	Channel Biophysics
Ion Channels (Biomed 537)	8/23/2012	1.50	Pores and Selectivity
Ion Channels (Biomed 537)	8/28/2012	1.50	Structure Function
Ion Channels (Biomed 537)	8/30/2012	1.50	Drugs and Toxins
Ion Channels (Biomed 537)	9/4/2012	1.50	Na and K channels
Ion Channels (Biomed 537)	9/6/2012	1.50	Ca channels
Ion Channels (Biomed 537)	9/20/2012	1.50	Channelopathies
Neuroscience	1/1/2013	20.00	Total tutorial coverage for semester = 20.0 Hours
Neuroscience	1/2/2013	1.00	Electrophysiology I
Neuroscience	1/2/2013	1.00	Electrophysiology II
Neuroscience	1/4/2013	2.00	Physiology Lab Demo
Neuroscience	1/7/2013	2.00	Physiology Lab Demo
Neuroscience	1/14/2013	1.00	Spinal Reflexes
Neuroscience	1/17/2013	1.00	Sensory Transduction
CV/Pulmonary/Renal	3/12/2013	1.00	EP 1: Introduction

Faculty

Program

Block Course	*Date*	*Hours*	*Title*

Perrone-Bizzozero

Graduate

Neurobiology (Biomed 509)	3/11/2013	1.00	Signaling Interactions
Neurobiology (Biomed 509)	3/13/2013	1.00	GPCR phosphorylation

Phase I-1

Neuroscience	1/2/2013	1.00	Molecular and Cellular Properties of Neurons
Neuroscience	1/3/2013	1.50	Neurotransmission II
Neuroscience	1/28/2013	1.00	Limbic System
Neuroscience	1/29/2013	1.00	Cerebral Cortex
Neuroscience	2/4/2013	2.00	Case IV second session
Neuroscience	2/8/2013	1.50	Mechanisms of Learning & Memory (video)

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Saland			
Graduate			
Neurochemistry (Biomed 532)	11/15/2012	1.50	Neuroendocrinology
Neurochemistry (Biomed 532)	11/20/2012	1.50	Grad student paper presentations
Phase I-1			
Neuroscience	1/4/2013	1.00	Brain anatomy surface/deep structures
Neuroscience	1/4/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp A)
Neuroscience	1/7/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp B)
Neuroscience	1/8/2013	1.50	CNS Long Pathways
Neuroscience	1/9/2013	2.00	Internal Brainstem Structures Lab (Grp A)
Neuroscience	1/9/2013	26.00	Total tutorial coverage for semester = 26 hours
Neuroscience	1/10/2013	2.00	Internal Brainstem Structures Lab (Grp B)
Neuroscience	1/15/2013	1.00	Motor system anatomy
Neuroscience	1/16/2013	2.00	CNS Blood Supply Lab (Grp A)
Neuroscience	1/17/2013	1.50	Brainstem Afferent Systems
Neuroscience	1/17/2013	2.00	CNS Blood Supply Lab (Grp B)
Neuroscience	1/18/2013	1.00	Visual System Anatomy
Neuroscience	1/22/2013	2.00	Brainstem Anatomy Lab (Grp A)
Neuroscience	1/23/2013	2.00	Brainstem Anatomy Lab (Grp B)
Neuroscience	1/24/2013	7.00	Total tutorial meetings for the semester = 7 hours
Neuroscience	1/28/2013	2.00	Motor Systems Anatomy Lab (Grp A)
Neuroscience	1/30/2013	2.00	Motor Systems Anatomy Lab (Grp B)
Neuroscience	2/1/2013	1.00	Neuroanatomy Review Presentation
Neuroscience	2/8/2013	1.00	Hypothalamus
Savage			
Graduate			
Neurochemistry & Neuropharmacology (Biomed	9/13/2012	1.50	Glutamate Neurotransmission
Neurochemistry & Neuropharmacology (Biomed	9/18/2012	1.50	Student Presentations
Neurochemistry & Neuropharmacology (Biomed	10/4/2012	1.50	Receptor Regulation
Neurochemistry & Neuropharmacology (Biomed	10/9/2012	1.50	Student Presentations
Phase I-1			
Neuroscience	1/31/2013	1.00	Anticonvulsants
Neuroscience	2/7/2013	1.00	Antipsychotics
Neuroscience	2/12/2013	2.00	Agents to treat Mood Disorders

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Shuttleworth			
Graduate			
Cur Emerg Tech Clin Trans Res (Biomed 560)	7/2/2012	2.00	What is translational research?
Cur Emerg Tech Clin Trans Res (Biomed 560)	9/4/2012	2.00	Current Emerging Tech Intro / Translational Research I
Cur Emerg Tech Clin Trans Res (Biomed 560)	9/11/2012	2.00	Translational Research
Cur Emerg Tech Clin Trans Res (Biomed 560)	9/18/2012	2.00	CTSC Resources
Cur Emerg Tech Clin Trans Res (Biomed 560)	9/25/2012	2.00	Imaging
Cur Emerg Tech Clin Trans Res (Biomed 560)	10/2/2012	2.00	T1 Laboratory
Cur Emerg Tech Clin Trans Res (Biomed 560)	10/9/2012	2.00	Omics
Cur Emerg Tech Clin Trans Res (Biomed 560)	10/23/2012	2.00	Colloquium
Advanced Techniques in Light Microscopy (Biomed 547)	4/16/2013	3.00	Calcium Imaging
Experimental Design (Biomed 522)	4/26/2013	1.00	Patch Clamp/Electrophysiology
Phase I-1			
GI block	8/21/2012	1.25	Extrinsic Regulation of Motility
GI block	8/21/2012	1.25	Intrinsic regulation of motility
GI block	8/22/2012	1.25	Pharmacology of Motility
GI block	8/23/2012	1.25	Pharmacology of Nausea & Vomiting
GI block	8/28/2012	1.25	Neuronal regulation of GI secretions
GI block	8/28/2012	1.25	Pharmacology of Gastric Secretion
GI block	8/31/2012	1.50	Pharmacology of Liver and Pancreas
GI block	10/5/2012	2.00	Physiology and Pharmacology
Neuroscience	1/7/2013	1.00	Autonomic N.S. I Sympathetics II
Neuroscience	1/7/2013	1.00	Autonomic N.S. Parasympathetics/Enterics
Neuroscience	1/8/2013	1.00	Autonomic Cholinergic Physiology
Neuroscience	1/8/2013	1.00	Cholinergic Pharmacology I
Neuroscience	1/9/2013	1.00	Cholinergic Pharmacology II
Neuroscience	1/10/2013	1.00	Adrenergic Pharmacology
Neuroscience	1/10/2013	1.00	Autonomic Adrenergic Physiology
Neuroscience	1/11/2013	1.00	Autonomic Integration and Reflexes
Neuroscience	1/18/2013	1.00	Pharmacology Review

Faculty

Program

Block Course	*Date*	*Hours*	*Title*

Valenzuela

Graduate

Ion Channels (Biomed 537)	9/18/2012	1.50	Ligand-gated ion channels
Neurobiology of Alcoholism (Biomed 505-014)	9/25/2012	1.50	Overview
Neurobiology of Alcoholism (Biomed 505-014)	9/27/2012	1.50	Student Presentations: Neuroimmunology
Neurobiology of Alcoholism (Biomed 505-014)	10/2/2012	1.50	Student Presentations: Epigenetics
Neurobiology of Alcoholism (Biomed 505-014)	10/4/2012	1.50	Student Presentations: Dependence/Withdrawal
Neurobiology of Alcoholism (Biomed 505-014)	10/9/2012	1.50	Student Presentations: Addiction
Neurobiology (Biomed 509)	2/25/2013	1.00	Ionotropic Receptors I
Neurobiology (Biomed 509)	2/27/2013	1.00	Ionotropic Receptors II
Neurobiology (Biomed 509)	3/20/2013	1.00	Drug reward & addiction
Neurobiology (Biomed 509)	3/22/2013	1.00	Student paper presentations

Phase I-1

Neuroscience	1/3/2013	1.50	Neurotransmission I
Neuroscience	1/4/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp A)
Neuroscience	1/7/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp B)
Neuroscience	1/17/2013	1.50	Motor Systems Anatomy III
Neuroscience	1/28/2013	2.00	Motor Systems Anatomy Lab (Grp A)
Neuroscience	1/30/2013	2.00	Motor Systems Anatomy Lab (Grp B)
Neuroscience	2/1/2013	1.50	Anesthetics
CV/Pulmonary/Renal	3/15/2013	1.50	Pharmacology of Antiarrhythmics
CV/Pulmonary/Renal	3/22/2013	1.50	Pharmacology of renin-angiotensin-aldosterone pathway
CV/Pulmonary/Renal	4/19/2013	1.50	Diuretics
CV/Pulmonary/Renal	5/2/2013	2.00	Pharmacology Review
CV/Pulmonary/Renal	5/3/2013	1.50	Pharmacology of Antihypertensive Therapy
CV/Pulmonary/Renal	5/8/2013	1.00	Pharmacologic Treatment of Ischemic Heart Disease and

Faculty

Program

Block Course	*Date*	*Hours*	*Title*

Wallace

Graduate

Neural Development	7/24/2012	2.00	Introduction to Development of Cerebral Cortex
Neural Development	7/26/2012	2.00	Paper discussions – Cortical cell migration
Neural Development	7/31/2012	2.00	Paper discussions – Cortical neuron differentiation
Neural Development	8/7/2012	2.00	Paper discussions – Neuronal axon pruning
Neurobiology (Biomed 509)	1/16/2013	1.00	3-D Neuroanatomy
Neurobiology (Biomed 509)	1/18/2013	1.15	Human Brain Dissection
Neurobiology (Biomed 509)	1/23/2013	1.15	Human Brain Dissection
Neurobiology (Biomed 509)	3/29/2013	1.00	Cell Fate Determination
Neurobiology (Biomed 509)	4/1/2013	1.00	Synapse Formation

Phase I-1

Neural Development	8/2/2012	2.00	Paper discussions – Cortical neuron synaptogenesis
Neural Development	8/9/2012	2.00	Paper discussions – NSC's in adult cortex
Neural Development	8/14/2012	2.00	Transmitter phenotype determination
Neuroscience	1/4/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp A)
Neuroscience	1/7/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp B)
Neuroscience	1/9/2013	2.00	Internal Brainstem Structures Lab (Grp A)
Neuroscience	1/9/2013	35.00	Total tutorial coverage for semester = 35 hours
Neuroscience	1/10/2013	2.00	Internal Brainstem Structures Lab (Grp B)
Neuroscience	1/16/2013	2.00	CNS Blood Supply Lab (Grp A)
Neuroscience	1/17/2013	2.00	CNS Blood Supply Lab (Grp B)
Neuroscience	1/22/2013	2.00	Brainstem Anatomy Lab (Grp A)
Neuroscience	1/23/2013	2.00	Brainstem Anatomy Lab (Grp B)
Neuroscience	1/24/2013	20.00	Student remediation (20 hrs for the Neuroblock)
Neuroscience	1/28/2013	2.00	Motor Systems Anatomy Lab (Grp A)
Neuroscience	1/30/2013	2.00	Motor Systems Anatomy Lab (Grp B)
Neuroscience	2/15/2013	1.00	Normal CNS Development

Faculty

Program

Block Course	*Date*	*Hours*	*Title*
Weick			
Phase I-1			
Neuroscience	1/4/2013	2.00	CNS Gross Anatomy: Brain Cutting and Imaging (Grp A)
Neuroscience	1/9/2013	2.00	Long pathways (Grp A)
Neuroscience	1/16/2013	2.00	CNS Blood Supply Lab (Grp A)
Neuroscience	1/22/2013	2.00	Brainstem Anatomy Lab (Grp A)
Wilkerson			
Graduate			
Neurobiology (Biomed 509)	1/1/2013	1.00	Neurotransmitters I
Wilson			
Graduate			
Neurobiology (Biomed 509)	1/1/2013	1.00	Gliotransmitters
Neurobiology (Biomed 509)	1/1/2013	1.00	NT Transporters
Neurobiology (Biomed 509)	1/1/2013	1.00	Vesicular Release
Cell and Molecular Basis of Disease J Club (Biomed 525)	1/4/2013	30.00	Total coverage for semester = 30 hrs
Phase I-1			
Neuroscience	1/1/2013	20.00	Total tutorial coverage for semester = 20 hours

Grand Total **583.8 Hours**

Annual Report - Mentoring - FY2013

Program

Mentor	*Mentee*	*Mentoring Type*	*End Date*
	Isamu Aiba	Dissertation Committee	12/31/2049

Biomedical Pain Research Training Program

Milligan	Chee Lam	Faculty Mentoring in Research &	12/31/2049

Program

Mentor	Mentee	Mentoring Type	End Date
BMSG/Graduate			
Allan	Christina Tyler	Committee of Studies	12/31/2049
Allan	Kenta Kajimoto	Committee of Studies	12/31/2049
Allan	Michael Baca	Committee of Studies	12/31/2049
Allan	Robert Oliver	Committee of Studies	12/31/2049
Brigman	Robert Oliver	Dissertation Committee	12/31/2049
Brigman	Kristin Marquardt	Required Research Rotation	12/15/2012
Brigman	Lee Ann Haluska	Required Research Rotation	10/15/2012
Caldwell	Soumik Basuray	Committee of Studies	12/31/2049
Caldwell	Lauren Topper	Committee of Studies	12/31/2049
Caldwell	Kristin Marquardt	Committee of Studies	12/31/2049
Caldwell	Felicha Candelaria-Cook	Dissertation Advisor	12/31/2049
Caldwell	Amanda Peretti	Lab Rotation	12/15/2012
Cunningham	Kenta Kajimoto	Dissertation Advisor	12/31/2049
Milligan	John Plumley	Committee of Studies	12/31/2049
Partridge	Britta Lindquist	Committee of Studies	12/31/2049
Partridge	Michael Baca	Dissertation Advisor	12/31/2049
Perrone-Bizzozero	Carrie Wright	Dissertation Advisor	12/31/2049
Perrone-Bizzozero	Christina Tyler	Dissertation Committee	12/31/2049
Perrone-Bizzozero	Jiayun Chen	Dissertation Committee	12/31/2049
Perrone-Bizzozero	Kristin Marquardt	Dissertation Committee	9/1/2012
Shuttleworth	Britta Lindquist	Committee of Studies	12/31/2049
Shuttleworth	Britta Lindquist	Dissertation Committee	12/31/2049
Shuttleworth	Charles Norton	Dissertation Committee	12/31/2049
Valenzuela	Robert Oliver	Committee of Studies	12/31/2049
Valenzuela	Kenta Kajimoto	Committee of Studies	12/31/2049
Valenzuela	Lauren Topper	Dissertation Advisor	12/31/2049

Program

Mentor	*Mentee*	*Mentoring Type*	*End Date*
Wallace	Jenny Wilkerson	Dissertation Committee	4/30/2013
Wilson	Britta Lindquist	Dissertation Committee	12/31/2049
Wilson	Michael Baca	Dissertation Committee	12/31/2049
Wilson	Kenta Kajimoto	Dissertation Committee	12/31/2049

BMSG/Graduate (Cell Biology)

Shuttleworth	Olan Jackson-Weaver	Committee of Studies	12/31/2049

BSGP/Graduate

Caldwell	Kristin Marquardt	Required Research Rotation	3/31/2013
Caldwell	Amanda Peretti	Required Research Rotation	12/31/2012
Cunningham	Randi Garcia	Lab Rotation	11/30/2013
Perrone-Bizzozero	Robert Oliver	Dissertation Advisor	12/31/2049
Weick	Daniel Lujan	Required Research Rotation	10/31/2013
Weick	Jessica Binder	Required Research Rotation	12/31/2049
Weick	Praveen Chander	Required Research Rotation	12/31/2049

Graduate Medical Education

Milligan	Eugene Limanovich	3 Month Rotation	12/31/2049

Program

Mentor	Mentee	Mentoring Type	End Date
Junior Faculty			
Cunningham	Amber Messier-Gieri	Mentoring	12/31/2049
Perrone-Bizzozero	Jingyu Liu	Mentoring	12/31/2049
Perrone-Bizzozero	Jonathan Brigman	Mentoring	12/31/2049
Savage	Piyadasa Kodituwakku	Mentoring	12/31/2049
Savage	Ludmila Bakhireva	Mentoring	12/31/2049
Shuttleworth	Andrew Carlson	Mentoring	12/31/2049
Shuttleworth	Sarah Pirio-Richardson	Mentoring	12/31/2049
Shuttleworth	Joe Alcock	Mentoring	12/31/2049
Shuttleworth	Ranjana Poddar	Mentoring	12/31/2049
Shuttleworth	Semiramis Youssof	Mentoring	12/31/2049
Shuttleworth	Surojit Paul	Mentoring	12/31/2049
Valenzuela	Jason Weick	Mentoring	12/31/2049
Valenzuela	Jonathan Brigman	Mentoring	12/31/2049
Wallace	Kathleen Reyes	Clinical Junior Faculty	12/31/2049
Medical School			
Caldwell	Steven Stroud	Required Research Rotation	12/31/2049
Caldwell	Patricia Hogan	Required Research Rotation	12/31/2049
MSCR/Graduate			
Shuttleworth	Joe Alcock	Committee of Studies	12/31/2049

Program

Mentor	Mentee	Mentoring Type	End Date
Other			
Allan	Edwin Nemoto	Faculty Mentoring-Behavioral	12/31/2049
Allan	L. Donald Partridge	Faculty Mentoring-Statistics	12/31/2049
Allan	Surojit Paul	Faculty Mentoring-Behavioral	12/31/2049
Allan	Sabrina Samudio-Ruiz	Faculty Mentoring-Grants	12/31/2049
Allan	Ranjana Poddar	Faculty Mentoring-Grants	12/31/2049
Allan	Ajna Hamidovic	Faculty Mentoring-Grants	12/31/2049
Allan	Linda Saland	Faculty Mentoring-Statistics	12/31/2049
Allan	Surojit Paul	Faculty Mentoring-Statistics	12/31/2049
Allan	Ranjana Poddar	Faculty Mentoring-Statistics	12/31/2049
Allan	Kevin Li	Faculty Mentoring-Behavioral	12/31/2049
Allan	Kiran Bhaskar	Faculty Mentoring-Behavioral	12/31/2049
Milligan	Estefania Castaño	External Dissertation Advisor	12/31/2049
Perrone-Bizzozero	Arden Vanderwall	Mentoring	5/31/2013
Wallace	Kimberly Paffett	Lab Supervisor	12/31/2049
Wallace	Chee Lam	Clinical Junior Faculty	12/31/2049
Wallace	Wojciech Ornatowski	Lab Supervisor	12/31/2049
Wilson	Tione Buranda	Faculty Mentoring in Research &	12/31/2049
Post Doctoral Fellow			
Perrone-Bizzozero	Amy Gardiner	Mentoring	12/31/2049
Savage	Carmen Ballestros-Merino	Mentoring	12/31/2049
Valenzuela	Karick Jotty	Mentoring	12/31/2049
Valenzuela	Russell Morton	Mentoring	12/31/2049
Valenzuela	Marvin Diaz	Mentoring	12/31/2049
Weick	Elisa LaBeau DiMenna	Other	12/31/2049

Program *Mentor*	*Mentee*	*Mentoring Type*	*End Date*
PREP Program			
Brigman	Monica Saha	Mentoring	12/31/2049
Cunningham	Phillip Webster	Other	5/31/2013
Shuttleworth	Kisa King	Mentoring	12/31/2049
Undergraduate			
Cunningham	Jessie Newville	Undergraduate Student Training	12/31/2049
Cunningham	Ruth Wang	Undergraduate Student Training	12/31/2049
Milligan	Daniel Moezzi	Undergraduate Student Training	12/31/2049
Milligan	Sanjog Singh	Undergraduate Student Training	12/31/2049
Milligan	Melody Sun	Undergraduate Student Training	12/31/2049
Milligan	Scott Contri	Undergraduate Student Training	12/31/2049
Perrone-Bizzozero	Erika Perez	Mentoring	12/31/2049
Perrone-Bizzozero	Alexandra Quezada	Mentoring	12/31/2049
Perrone-Bizzozero	Justine Saavedra	Mentoring	12/31/2049
Savage	Morgan Pruitt	Undergraduate Student Training	12/31/2049
Savage	Kyle Christensen	Undergraduate Student Training	12/31/2049
Wallace	Melody Sun	Undergraduate Student Training	12/31/2049
Weick	Patrick Zacharias	Undergraduate Student Training	5/31/2013
Weick	Zoe Larsen	Undergraduate Student Training	12/31/2049
Weick	Olivia Carpenter	Undergraduate Student Training	12/31/2049
Weick	Jarrod Devinney	Required Research Rotation	2/28/2013
Weick	Megan Walsh	Required Research Rotation	12/31/2049
Weick	Tess Demeter	Undergraduate Student Training	5/31/2013

Program

Mentor	*Mentee*	*Mentoring Type*	*End Date*
Undergraduate Medical Education			
Allan	Matthew Valeriano	Required Research Rotation	12/31/2049
Allan	Adam Ulibarri	Required Research Rotation	12/31/2049
Allan	Jonathan Romero	Required Research Rotation	12/31/2049
Allan	Arianna Pregenzer-Wenzler	Required Research Rotation	12/31/2049
Valenzuela	Paul Dodge	Required Research Rotation	12/31/2049
Wallace	Kyle Tuffli	Lab Rotation	9/30/2013

Department of

Neurosciences

FY 2013

Committees

Annual Report - Committees - FY2013

Level

Committee

Name	Membership	Term Start	Term End
Department			
Neuroscience Day Organization Committee			
Partridge	Chair	01/83	Present
NS Education Committee			
Partridge	Chair	07/97	09/12
Saland	Member	07/97	Present
Cunningham	Member	07/97	Present
Wallace	Member	07/99	Present
Shuttleworth	Member	07/12	Present
Milligan	Member	08/12	Present
Caldwell	Chair	09/12	Present
Partridge	Member	09/12	Present
NS Faculty Search Committee			
Perrone-Bizzozero	Member	01/10	12/31/2012
Valenzuela	Member	08/10	6/30/2013
Milligan	Member	11/10	03/12
Caldwell	Chair	09/11	Present
Shuttleworth	Member	09/11	Present
Caldwell	Chair	11/11	02/12
NS Personnel Committee			
Cunningham	Member	07/09	06/12
Allan	Member	07/10	6/30/2013
Wilson	Member	07/11	Present
Allan	Chair	07/12	6/30/2013
Brigman	Member	07/12	Present
NS Resources Committee			
Perrone-Bizzozero	Chair	01/97	Present
Wilson	Member	07/97	Present
Savage	Member	07/99	Present
Valenzuela	Member	07/99	Present
Allan	Member	09/11	Present
Brigman	Member	09/11	Present
Weick	Member	03/13	Present
NS Safety Officer			
Allan	Member	01/99	Present
Training Grant Executive Committee			
Cunningham	Member	05/07	Present

Level

Committee

Name	Membership	Term Start	Term End

HSC

4 Pillars Committee			
Shuttleworth	Member	12/10	Present
ARF Advisory Committee			
Wilson	Member	01/07	Present
BBHI strategic planning Committee #1			
Weick	Member	07/13	Present
Biochemistry Dept Faculty Search			
Valenzuela	Member	08/11	8/1/2012
Valenzuela	Member	08/12	8/1/2013
Brain and Behavioral Health Institute Executive Committee			
Perrone-Bizzozero	Member	07/11	Present
Brain and Behavioral Illness Institute Strategy Committee			
Perrone-Bizzozero	Member	01/10	12/31/2012
Clinical and Translational Investigator Program Seminar			
Shuttleworth	Co-Mentor	01/11	Present
CTSC excecutive committee			
Shuttleworth	Member	12/10	Present
CTSC leadership committee			
Shuttleworth	Member	12/10	Present
CTSC Trans Tech Committee			
Shuttleworth	Group Leader	12/10	Present
HSC Animal Care & Use (HSCACUC)			
Caldwell	Member	07/02	06/12
HSC Faculty Council Committee			
Wallace	Member	12/11	Present
HSC Telehealth Oversight Committee			
Shuttleworth	Member	08/13	Present
MSCR Admissions Committee			
Shuttleworth	Member	06/11	Present
MSCR Curriculum Committee			
Shuttleworth	Group Leader	10/06	Present
MSCR Student Progress Committee			
Shuttleworth	Member	08/08	Present
Multidisciplinary Advisory Committee (MAC)			
Shuttleworth	Member	10/11	Present
SRC/IRB Committee Workshop			
Caldwell	Member	09/11	Present
T1 laboratory core director			
Shuttleworth	Director	10/11	Present

Level

Committee

Name	Membership	Term Start	Term End

International

Beverages Medical Foundation Medical Advisory Board

Valenzuela	Member	03/08	Present

International Behavioral Neuroscience Society Education and Training Committee

Brigman	Member	09/11	Present
Brigman	Co-Chair	09/12	Present

International Society for Zinc Biology Meetings committee

Shuttleworth	Member	01/12	Present

International Society for Zinc Biology Membership committee

Shuttleworth	Member	01/12	Present

Int'l Conference on Alcoholism & Stress Organizing Committee

Valenzuela	Member	01/08	Present

Scientific World Journal

Milligan	Member	09/11	Present

Local/State

CNM Science & Engineering Research Challenge

Partridge	Chair	03/07	Present
Allan	Judge	03/07	Present
Caldwell	Judge	03/07	Present

Environmental Health Signature Program

Allan	Member	03/12	Present

Neuroscience Research Award, CNM Science & Engineering Research Challenge

Allan	Chair	03/05	Present

Level

Committee Name	Membership	Term Start	Term End
National			
AAMC Council of Faculty & Academic Societies			
Savage	Member	07/13	Present
Alcohol - Editorial Board			
Valenzuela	Member	06/05	Present
Alcoholism: Clinical & Experimental Research			
Valenzuela	Editorial Board	07/09	Present
Savage	Editorial Board	07/11	Present
American Association for the Advancement of Science			
Perrone-Bizzozero	Honor	02/11	12/31/2012
American Heart Association Review Panel			
Cunningham	Member	04/04	6/9/2013
Cunningham	Chair	04/11	6/9/2013
Behavioral Neuroscience Fellowship panel (ZRG1 F02a J-20 study section)			
Caldwell	Member	06/11	Present
CIFASD Science Advisory Committee			
Savage	Member	01/08	Present
FASD Study Group			
Valenzuela	Officer	07/11	Present
Fetal Alcohol Study Group Advisory Board			
Savage	Member	07/10	06/12
Learning & Memory - Editorial Board			
Connor	Member	01/94	Present
Metal Toxicity and Carcinogenesis Program Committee			
Allan	Member	01/12	10/12
Mountain West Research Consortium Executive Committee			
Shuttleworth	Member	01/11	Present
NAL Study Section			
Allan	Member	10/11	Present
National Association for the Advancement of Women in Science			
Allan	Member	07/94	Present
Neurotoxicology and Teratology			
Savage	Editorial Board	07/11	Present
NIH CNNT Study Section			
Cunningham	Ad Hoc	06/09	Present
Cunningham	Member	06/13	Present
NIH MDCN (K90) Study Section			
Perrone-Bizzozero	Ad Hoc	06/06	12/31/2012
NIH Molecular Genetics B Study Section			
Perrone-Bizzozero	Ad Hoc	10/10	12/31/2012
NIH NIAAA Neuro AA-4 Study Section			

Level

Committee

Name	Membership	Term Start	Term End
Perrone-Bizzozero	Member	10/13	Present
NIH NOMD study section			
Shuttleworth	Member	07/11	Present
NIH-ZRG1 F03B-H Fellowships: Biophys-Physiol Neurosciences Study Section			
Partridge	Ad Hoc	06/09	Present
NYSTEM grant reviewer (Neurobiology-2 panel)			
Weick	Member	08/13	Present
Reflex Sympathetic Dystrophy Syndrome Association Scientific Review Board			
Milligan	Member	10/11	Present
Research Society on Alcoholism			
Savage	Board of	07/11	Present
Valenzuela	Board of	07/13	Present
Research Society on Alcoholism Membership Committee			
Allan	Member	09/01	05/12
Research Society on Alcoholism Program Committee			
Allan	Member	04/12	Present
Reviewer: Frontiers in Computational Neuroscience			
Weick	Member	04/13	Present
Reviewer: Stem Cells and Development			
Weick	Member	09/12	Present
Reviewing Editor, Scientific World Journal			
Milligan	Member	09/11	Present
RSA/ISBRA Meeting Program Committee			
Valenzuela	Member	07/13	Present
USAMRMC Peer Reviewed Medical Research Program			
Caldwell	Member	09/12	Present

Level

Committee Name	Membership	Term Start	Term End
SOM			
Admissions			
Wallace	Member	08/07	Present
BGSP Curriculum Review Committee			
Shuttleworth	Member	01/10	Present
BSGP Admissions Committee			
Caldwell	Member	01/12	Present
BSGP Qualifying Exam Committee			
Caldwell	Member	05/07	Present
BSGP Steering Committee			
Caldwell	Member	06/11	Present
BSGP Student Progress Subcommittee			
Caldwell	Member	06/11	Present
CARC (College Assessment Review Committee)			
Partridge	Member	09/10	Present
COBRE Internal Advisory Group on Schizophrenia			
Savage	Member	01/08	Present
CSPE			
Saland	Member	08/07	6/30/2012
CTSC Scholars Multidisciplinary Advisory Committee (MAC)			
Cunningham	Member	02/09	7/1/2013
CV/Pulmonary Block Planning			
Valenzuela	Member	01/03	Present
GI & Nutrition (medical) Block Curriculum			
Shuttleworth	Member	06/03	Present
Infectious Disease Steering Committee			
Buss	Member	01/94	Present
M.D./Ph.D. Steering Committee			
Wilson	Member	12/02	Present
Medical Student Research Committee			
Allan	Co-Chair	08/06	06/12
Allan	Member	07/11	06/12
Medical student Research Day Judge - Poster Session			
Saland	Judge	04/11	6/30/2012
Neoplasia Steering Committee			
Buss	Member	01/94	Present
Neuroblock Examination			
Partridge	Member	01/01	Present
Saland	Member	01/05	Present
Neuroblock Planning			
Valenzuela	Member	08/06	Present

Level

Committee Name	Membership	Term Start	Term End
New Mesico Society of Student Physician Scientists			
Shuttleworth	Advisor	06/08	Present
NM Assoc of Physician-Scientist Students			
Valenzuela	Co-Mentor	08/03	Present
OARS Enhancement of Remediation Curriculum			
Wallace	Member	04/09	Present
Phase I Block Chairs			
Allan	Member	01/07	01/12
Cunningham	Member	07/11	Present
Phase I NS Block Planning			
Savage	Member	07/93	Present
Saland	Member	07/00	Present
Phase I Pharmacology # Steering Committee			
Shuttleworth	Member	10/07	Present
Valenzuela	Member	06/08	Present
Phase I Steering Committee			
Wallace	Member	07/99	Present
Postdoc Steering Committee			
Wilson	Member	07/03	Present
Regents' Professorship Awards Selection Committee			
Savage	Chair	01/07	Present
Research Allocations Committee (RAC)			
Milligan	Member	10/10	Present
Scholarship Committee			
Valenzuela	Member	06/08	Present
Scientific Advisory Council (SAC)			
Partridge	Member	09/10	Present
SOM Committee of Chairs			
Savage	Member	01/97	Present
SOM HR Advisory Group			
Allan	Member	07/11	06/12
SOM Microcopy Oversight Committee			
Shuttleworth	Member	07/00	Present
Strategic Research Planning Committee			
Savage	Member	08/04	Present
Student Appeals			
Shuttleworth	Member	11/06	Present
Tutorial Steering Committee			
Wallace	Member	12/10	11/12
William G. Dail Award for Excellence in Teaching			
Shuttleworth	Honor	07/11	Present

Level

Committee

Name	Membership	Term Start	Term End

UNM

BBHI steering committee

Shuttleworth	Co-Director	07/12	Present

Brain & Behavioral Illnesses Institute Leadership Council

Savage	Member	08/10	06/12

Brain & Behavioral Illnesses Signature Program Leadership Committee

Savage	Member	09/05	06/12

Chair of Psychiatry search Committee

Perrone-Bizzozero	Member	01/12	12/31/2012

Child Health Signature Leadership Committee

Savage	Member	03/08	Present

CTSC Sage Committee

Savage	Member	07/10	Present
Shuttleworth	Member	05/11	Present

Dispute Resolution Faculty Mediator

Allan	Member	11/01	Present

Institutional Animal Care and Use Committee (IACUC)

Milligan	Member	06/11	Present

Institutional Biosafety Committee

Wallace	Member	10/05	6/30/2013

Regent's Professor

Shuttleworth	Honor	07/11	Present

UNM Faculty Senate

Wallace	Member	06/11	Present

Department of

Neurosciences

FY 2013

Presentations

Annual Report - Presentations - FY2013

Date Name Role Meeting
Title of Presentation

Poster Presentation

10/1/2012 Allan CoAuthor 7th Conference on Metal Toxicity & Carcinogenesis
Perinatal arsenic exposure results in deficits in adult neurogenesis and learning and memory; brief experience in enrichment rescues these effects

10/13/2012 Brigman Presenter Society for Neuroscience 2012
Cortical and striatal organization and effects of ethanol exposure on choice learning and shifting

10/13/2012 Partridge CoAuthor Society for Neuroscience 2012
Paired pulse facilitation engages an additional pool of NMDA receptors in mouse hippocampal SC - CA1

10/13/2012 Allan CoPresenter Society for Neuroscience 2012
Perinatal arsenic exposure results in depressive-like behaviors and reduces adult neurogenesis; treatment with imipramine and brief experience in an enriched environment rescues these deficits

10/14/2012 Perrone- CoPresenter Society for Neuroscience 2012
Transcriptional and Translational Regulation of Synaptic Plasticity II

10/14/2012 Perrone- Sr Last Author Society for Neuroscience 2012
Novel neuronal targets of the RNA-binding protein KSRP identified by CLIP-chip

10/14/2012 Perrone- CoPresenter Society for Neuroscience 2012
Molecular Mechanisms of Neuronal Differentiation, Axon and Dendrite Growth

10/15/2012 Wallace CoAuthor Society for Neuroscience 2012
The role of the TRPV-1 receptor in the cannabinoid 2 receptor (CB2R) agonist AM1710's analgesic effects in vivo in neuropathic mice

10/15/2012 Perrone- CoPresenter Society for Neuroscience 2012
Drugs of Abuse and Addiction: Neural Mechanisms II

10/15/2012 Valenzuela CoPresenter Society for Neuroscience 2012
Effect of acute ethanol exposure on calcium influx triggered by giant depolarizing potentials in CA3 hippocampal pyramidal neurons from neonatal rats

10/15/2012 Valenzuela CoPresenter Society for Neuroscience 2012
Acute effect of ethanol on NMDA receptors at mossy fiber-granule cell synapses in the developing cerebellum

10/15/2012 Valenzuela CoPresenter Society for Neuroscience 2012
Effects of moderate prenatal ethanol exposure on kainate receptors in the ca3 hippocampal region

10/15/2012 Valenzuela CoPresenter Society for Neuroscience 2012
Characterization of L-type voltage-gated Ca2+ channel expression and function in CA3 pyramidal neurons at different developmental stages

Date	***Name***	***Role***	***Meeting***
Title of Presentation			
10/17/2012	Perrone-	CoPresenter	Society for Neuroscience 2012
PNS Regeneration II			
10/21/2012	Allan	Presenter	7th Conference on Metal Toxicity & Carcinogenesis
Impact of moderate levels of arsenic on the developing nervous system			
11/10/2012	Perrone-	CoAuthor	Society for Neuroscience 2013
Moderate fetal ethanol exposure alters BDNF mRNA isoform expression in the dentate gyrus			
11/11/2012	Caldwell	Presenter	Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
Impact of prior stress on fear extinction and hippocampal ERK2 phosphorylation state in a mouse model of post-traumatic stress disorder			
2/2/2013	Cunningham	CoPresenter	Keystone Symposium on Molecular and Cellular Biology
Moderate prenatal alcohol exposure renders mice resistant to the neurogenic benefits of enriched environment in adulthood			
2/3/2013	Cunningham	CoPresenter	Keystone Symposium on Molecular and Cellular Biology
HIF-1a is critical for postnatal oligodendrocyte survival in the mous			
2/13/2013	Cunningham	CoPresenter	Keystone Symposium on Molecular and Cellular Biology
Vascular regression and depletion of neural stem/progenitor cells within subventricular zone following induced HIF-1a gene deletion in adult mice			
4/12/2013	Brigman	Presenter	Neuroscience Day
The effects of constitutive deletion of GluN2A-containing NMDAR on executive control in an attentional set-			
5/16/2013	Cunningham	CoPresenter	International Society for Cerebral Blood Flow & Metabolism
Vascular regression and depletion of neural stem/progenitor cells within subventricular zone following induced HIF-1a gene deletion in adult mice			
6/22/2013	Caldwell	CoPresenter	Research Society on Alcoholism 2013
Effects of prenatal alcohol exposure on corticosteroid signaling pathways in the adolescent mouse hippocampal formation			
6/22/2013	Allan	CoAuthor	Research Society on Alcoholism 2013
Effects of prenatal alcohol exposure on corticosteroid signaling pathways in the adolescent mouse hippocampal formation			

Total 24

Date	*Name*	*Role*	*Meeting*
Title of Presentation			

Invited Seminar

9/18/2012	Shuttleworth	Presenter	Indiana University, Dept Pharmacology and Toxicology Seminar Series
Mechanisms underlying neuronal injury following spreading depolarization events			
10/1/2012	Cunningham	Presenter	Department of Neurosciences Seminar Series, UNM SOM
HIF-1alpha in the Neural Stem Cell Niche			
10/15/2012	Perrone-	Sr Last Author	Society for Neuroscience 2012
The role of a microRNA, miR-495, in regulating target gene expression and cocaine self-administration in rats			
10/17/2012	Perrone-	CoAuthor	Society for Neuroscience 2012
RNA-binding protein ZBP1 associates with beta-actin and GAP-43 mRNAs with different affinities for axonal			
11/16/2012	Perrone-	Presenter	BRaIN Seminar (Biomedical Research & Integrative NeuroImaging Ctr, UNM)
Modeling schizophrenia in animals: Why are in vivo imaging studies so critical?			
4/20/2013	Perrone-	Sr Last Author	International Society for Neurochemistry
MicroRNA-495 competes with the RNA-binding protein HuD for control of BDNF gene expression			
6/25/2013	Brigman	Chair	IBNS
A translational perspective on the neural circuitry of learning and decision making via positive and negative			

Total 7

Invited Participant

8/1/2012	Milligan	Presenter	Chronic Pain Clinic, Project ECHO, UNM-HSC
Inflammatory Mediators of Pain & the Promise of Spinal IL-10 Therapy			
9/21/2012	Shuttleworth	Presenter	COSBID symposium, Monitoring Molecules in Neuroscience Conference
Cellular mechanisms contributing to synaptic depression and neuronal injury following SD			
10/2/2012	Wilson	Presenter	University of Oxford
Neuroexocytosis, a Probe into Brain Development and Function			
10/14/2012	Perrone-	Sr Last Author	Society for Neuroscience 2012
HuD Regulation of Kv1.1 protein synthesis			
3/4/2013	Shuttleworth	Presenter	Pharmaceutical Sciences Seminar, UNM College of
Mechanisms of spreading depolarizations and contributions to acute brain injury			
3/8/2013	Shuttleworth	Presenter	Grand Rounds - See Notes
Contributions of Spreading Depolarization Waves to the Progression of Traumatic Brain Injury			

Total 6

Date	*Name*	*Role*	*Meeting*
Title of Presentation			

Invited Lecture

9/25/2012	Caldwell	Presenter	CNM Science & Engineering Research Challenge
Science Teacher Workshop (Animal Care & Use)			
11/15/2012	Caldwell	Presenter	St. Pius X High School
Brain Gross Anatomy and Function			
11/19/2012	Caldwell	Presenter	Postbaccalaureate Research and Education Program (PREP)
Career Overview and Research Interests			
2/4/2013	Brigman	Presenter	UNM PREP Program
Investigating optimal and impaired executive control in rodent models			
6/22/2013	Valenzuela	Presenter	Research Society on Alcoholism 2013
Ethanol modulates glutamatergic synaptic transmission in developing cerebellar granule neurons			

Total 5

Department of

Neurosciences

FY13

Publications

Annual Report - Publications - FY2013

Name

Journal ***Publication Date***

Publication Title

Brigman

Physiol Behav **12/5/2012**

Examining the genetic and neural components of cognitive flexibility using mice

Caldwell

J. Neurosci. **1/16/2013**

Moderate prenatal alcohol exposure reduces plasticity and alters NMDA receptor subunit composition in the dentate gyrus

Connor

Eur J Neurosci. **12/1/2012**

Astrocyte activation and wound healing in intact-skull mouse after focal brain injury

Cunningham

J Neurochem **5/1/2013**

Neural stem/progenitor cells (NSPCs) Display a Low Requirement for Oxidative Metabolism Independent of Hypoxia Inducible Factor-1alpha (HIF-1α) Expression

Milligan

Neuromodulation **11/30/2012**

Spinal interleukin-10 therapy to treat peripheral neuropathic pain

J Control Release **6/10/2013**

Mesoporous silica-supported lipid bilayers (protocells) for DNA cargo delivery to the spinal cord

Partridge

Neurosci Lett. **11/21/2012**

GABA(A) receptor mediated inhibition contributes to corticostriatal frequency filtering

Hippocampus **11/22/2012**

Modulation by pregnenolone sulfate of filtering properties in the hippocampal trisynaptic circuit

Perrone-Bizzozero

Front Biosci (Schol Ed) **1/1/2013**

Role of HuD in nervous system function and pathology

Front Genet **4/1/2013**

Potential Impact of miR-137 and Its Targets in Schizophrenia

Savage

Alcohol **9/1/2012**

Effects of exposure to moderate levels of ethanol during prenatal brain development on dendritic length, branching, and spine density in the nucleus accumbens and dorsal striatum of adult rats

Alcohol and Alcoholism **12/1/2012**

Advanced gestational age increases serum carbohydrate-deficient transferrin levels in abstinent pregnant women

Alcoholism Clin. Exp Res **6/1/2013**

The feasibility and cost of neonatal screening for prenatal alcohol exposure by measuring Phosphatidylethanol in dried blood spots

Name

Journal ***Publication Date***

Publication Title

Shuttleworth

Neuroscience **10/25/2012**

Adenosine receptor activation is responsible for prolonged depression of synaptic transmission after spreading depolarization in brain slices

J Physiol. **11/1/2012**

Sustained NMDA receptor activation by spreading depolarizations can initiate excitotoxic injury in metabolically compromised neurons

J Physiol. **11/15/2012**

Sustained NMDAR activation by spreading depolarizations can initiate excitotoxic injury in metabolically compromised neurons

Neural Metabolism In Vivo:4 (Advances in Neurobiology) **12/1/2012**

Optical Approaches to Study Metabolic Consequences of Spreading Depression in vivo

Future Neurology (Priority Paper Evaluation) **1/8/2013**

Decreased cortical spreading depolarizations in neurosurgical patients being given ketamine (Title Change)

J Neurochem **5/1/2013**

Neural stem/progenitor cells (NSPCs) Display a Low Requirement for Oxidative Metabolism Independent of Hypoxia Inducible Factor-1alpha (HIF-1α) Expression

J Neurochem **6/1/2013**

Intracellular Zn2+ accumulation enhances suppression of synaptic activity following spreading depolarization

J Neurochem **6/1/2013**

Intracellular dialysis disrupts Zn2+ dynamics and enables selective detection of Zn2+ influx in brain slice

Name

Journal ***Publication Date***

Publication Title

Valenzuela

Alcohol. **9/1/2012**
Effects of third trimester-equivalent ethanol exposure on Cl(-) co-transporter expression, network activity, and GABAergic transmission in the CA3 hippocampal region of neonatal rats

Alcohol Clin Exp Res. **12/1/2012**
Acute Ethanol Exposure Increases Firing and Induces Oscillations in Cerebellar Golgi Cells of Freely Moving

Alcoholism Clin Exp Res **1/1/2013**
Repeated ethanol exposure during the 3rd trimester-equivalent alters inflammatory signaling pathways in the rat dentate gyrus

Alcoholism Clin Exp Res **1/1/2013**
Modulation of serotonin mediated depression of synaptic transmission at ca3 pyramidal neurons during the third trimester equivalent.

Alcoholism Clin Exp Res **1/1/2013**
3rd Trimester-Equivalent Ethanol Exposure Reduces Dopamine D1 Receptor Modulation of local GABAergic Transmission in the Basolateral Amygdala

Alcoholism Clin Exp Res **1/1/2013**
Effect of acute ethanol exposure on cerebellar mossy fiber-granule cell synapses of rats: an intrinsic fluorescence imaging study

J. Neurosci. **1/16/2013**
Moderate prenatal alcohol exposure reduces plasticity and alters NMDA receptor subunit composition in the dentate gyrus

Neuroscience **5/15/2013**
Characterization of L-type voltage-gated Ca(2+) channel expression and function in developing CA3 pyramidal neurons

Wallace

J Control Release **6/10/2013**
Mesoporous silica-supported lipid bilayers (protocells) for DNA cargo delivery to the spinal cord

Weick

Nat Biotechnol **5/1/2013**
Medial ganglionic eminence-like cells derived from human embryonic stem cells correct learning and memory

Proc Natl Acad Sci U S A **6/11/2013**
Deficits in human trisomy 21 iPSCs and neurons

Total 31

Department of

Neurosciences

FY 2013

Seminar Schedule

Poster Presentations

UNM SCHOOL of MEDICINE
Department of Neurosciences

Neuroscience Seminars Fiscal Year 2013
12 noon rm 203 BMSB

Fall 2012

23 Aug — **Neural, molecular and genetic factors underlying individual differences in fear**
Andrew Holmes, Ph.D. *NIAA, NIH*

30 Aug — **Modulation of emotional neural circuitry: Implications for alcoholism and affective disorders**
Tom Kash, Ph.D., *Dept. of Pharmacology, Univ. North Carolina*

6 Sept — **Neuroimaging-guided brain stimulation to accelerate training**
Mike Weisend, Ph.D., *Mind Research Network*

13 Sept — **Studies of spreading depolarization in healthy and metabolically compromised brain tissue**
Isamu Aiba, *Dept. of Neurosciences UNM*

20 Sept — **New dentate granule cells in the adult brain-Development and Function**
Shaoyu Ge, Ph.D. *Dept of Neurobiology & Behavior, SUNY Stony Brook*

27 Sept — **Targeting Drug and Vaccines using Nanoparticles**
Pavan Muttil, Ph.D. *College of Pharmacy, UNM*

4 Oct — **Regulation of Hematopoietic Stem Cell Communication with the Bone Marrow Niche**
Jennifer Gillette, Ph.D., *Dept. of Pathology, UNM*

11 Oct — **HIF-1 alpha is Essential for Maintenance of Adult Neural Stem Cells and Vascular Stability of Murine Subventricular Zone**
Lu Li, Ph.D., *Dept. of Neurosciences UNM*

18 Oct — **Stochastic processes in Purkinje cell spines and dendrites**
Erik Deschutter MD. Ph.D. *Okinawa Institute of Science & Technology*

25 Oct — **Moderate level of prenatal alcohol exposure impairs environmental mediated adult hippocampal neurogenesis**
Kenta Kajimoto, *Dept. of Neurosciences, UNM*

1 Nov — **Cannabinoid 2 receptor agonists mediate neuropathic pain and inflammation in the central nervous system**
Jenny Wilkerson, *Dept. of Neurosciences, UNM*

8 Nov — **Human Brain Dynamics in Attention and at Rest**
David Bridwell, Ph.D. *Mind Research Network*

15 Nov — **NADPH oxidase and cerebrovascular injury during ischemic stroke**
Jim Liu, Ph.D., *College of Pharmacy, UNM*

UNM SCHOOL of MEDICINE
Department of Neurosciences

Fall 2012 Continued

22 Nov Thanksgiving

29 Nov **The Neurogenic Stem Cell Niche in Aging**
Joanne Conover, Ph.D., *Dept of Physiol. and Neurobiol, Univ. of Conn*

6 Dec Data Blitz
Britta Lindquist, Michael Baca

UNM SCHOOL of MEDICINE
Department of Neurosciences

Neuroscience Seminars Spring 2013
12 noon Thursdays rms 203 BMSB**/ *105 HSSB**

10 Jan	**Role of protein carbonylation and aggregation in neuronal apoptosis and autophagy** Anushka Dasgupta, *Dept of Cell Biology and Physiology, UNM*.
17 Jan	**Preterm Brain Injury: Developmental Vulnerability and Therapeutic Strategies** Lauren L. Jantzie, PhD, *Department of Neurology Harvard Medical School*
24 Jan	**Metal-ing with neuraldevelopment: Consequences of early-life exposure to arsenic and methylmercury.** Ebany Martinez-Finley, Ph.D., *Division of Pediatric Toxicology, Vanderbilt Univ*.
31 Jan	**The epigenetic link between perinatal arsenic exposure and depression** Christina Tyler, *Dept. of Neurosciences, UNM*
***7 Feb**	**Functional expression of L-type voltage gated calcium channels during rat neonatal development** Russ Morton, Ph.D. *Dept. of Neurosciences, UNM*
14 Feb	**MicroRNAs and RNA-binding proteins: How do these posttranscriptional regulators compete to control synaptic plasticity and drug addiction?** Nora Perrone-Bizzozero, *Ph.D, Dept of Neurosciences, UNM*
21 Feb Dan	**Translating basic research on FASD into practice** John Hannigan,Ph.D. *Merrill Palmer Skillman Institute, Wayne State University*
28 Feb Bill	**Magnetic nanoparticles in the diagnosis and therapy of disease** Massoud Akhtari, Ph.D., *Semel Institutes, UCLA*
***7 Mar** Fernando	**Modulation of glutamate receptors and neuronal function by galectins** Geoffrey Swanson, Ph.D., *Dept. of Molec. Pharm & Biol. Chem. Northwestern Univ*
14 Mar Bill	**Calcium Dysregulation in Neurons Exposed to Glutamate** Nick Brustovetsky, Ph.D., *Pharmacology and Toxicology Dept. Indiana Univ*.
21 Mar Dan	**Fetal alcohol programming of the neuroendocrine-immune axis may contribute to the etiology of chronic diseases for generations** Dipak Sarkar, *Ph.D., Dept. of Animal Sciences, Rutgers Univ*.
28 Mar	**Preclinical pharmacology of mu opioids – A cross-comparison of analgesic and side effect profiles of commercially available opioids in rodent models** Irene Choi, Ph.D., *Nektar Therapeutics, San Francisco CA*
5 Apr	**Neuroscience Day 2013** **Optogenetics, scalable electrophysiology, and other neural circuit tools** Ed Boyden, Ph.D., *Depts. Biol. Engineering, Brain and Cognitive Sci, and Media Lab, MIT*
***11 Apr**	**Synaptic Zn^{2+} release occurs during spreading depolarizations and contributes to ischemic injury** Russ Carter, *Dept. of Neurosciences UNM*
18 Apr Kevin	**Chemically induced proximity to control cellular processes** Fu-Sen Liang, Ph.D., *Dept of Chemistry and Chemistry Biology, UNM*
25 Apr	**Protein misfolding in neurodegenerative diseases** Eva Chi, Ph.D. *Dept. of Chemical and Nuclear Engineering, UNM*
2 May	**Consequences of prenatal ethanol exposure and maternal stress on offspring** Miranda Staples, *Dept. of Neurosciences, UNM*

UNM SCHOOL of MEDICINE
Department of Neurosciences

Spring 2013 continued

9 May **Data Blitz I**
Lauren Topper, Rob Oliver, Carrie Wright, Britta Lindquist

16 May **Data Blitz II**
Christina Tyler, Michael Baca, Kenta Kajimoto

Department of Neurosciences

University of New Mexico

Neuroscience Day 2013

Friday, April 5th

Domenici Education Center & Nursing and Pharmacy Buildings

Schedule

9:30 Poster Session — **Domenici North Lobby**

12:00 Keynote Lecture — **NRPH RM 135**

The Walker Award will be presented following the lecture

"Optogenetics, scalable electrophysiology, and other neural circuit tools"

Presented by: Edward S. Boyden, Ph.D.,

MIT Media Lab; Joint Professor, Department of Brain and Cognitive Sciences; Department of Biological Engineering

Neuroscience Day is supported by the Department of Neurosciences and the Cellular and Molecular Basis of Disease Seminar Series of the UNM School of Medicine.
Neuroscience Day is one event of the International Brain Awareness Week, which is sponsored by the Society for Neuroscience and the Dana Alliance

BRAIN AWARENESS WEEK Get Connected

For more information contact: Don Partridge (dpartridge@salud.unm.edu)

Faculty Host

Dr. Nora Perrone-Bizzozero
Professor of Neurosciences
Office Phone: (505) 272-1165
Cell: (505) 918-1268
NBizzozero@salud.unm.edu

Department of Neurosciences

Office Phone: (505) 272-4411

Dr. Daniel Savage

Regents' Professor &
Neuroscience Chair
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http://hsc.unm.edu/som/neurosciences/

THE UNIVERSITY OF NEW MEXICO • HEALTH SCIENCES CENTER
SCHOOL OF MEDICINE

Edward S. Boyden, Ph.D.,

Departments of Biological Engineering & Brain and Cognitive Sciences, MIT

"Optogenetics, Scalable Electrophysiology and Other Neural Circuit Tools"

April 5, 2013

Nursing and Pharmacy Building
NRPH Room 135

Thursday, April 4

Your Arrival Information:

Albuquerque International Sunport
United Airlines
Flight UA 3856
Arrival Time: 7:57 PM

Schedule
7:57 PM
Picked-up at airport & taken to hotel by:
Dr. Nora Perrone-Bizzozero
Professor of Neurosciences

Your Hotel Information:

Embassy Suites Albuquerque Hotel & Spa
1000 Woodward Place NE
Albuquerque NM, 87102
505-245-7100
Confirmation #: 86872869

Friday, April 5

Schedule

8:15 AM
Picked-up at hotel for breakfast with:
Dr. Erin Milligan,
Assistant Professor of Neurosciences

9:30 AM
Neuroscience Day Poster session
Domenici North Lobby

10:30 AM
Meeting with Dr. Nora Perrone-Bizzozero
and Dr. Vince Calhoun, Professor
Electrical and Computer Engineering
and MRN CEO, Tour of MRN

11:30 AM
Preparation time for seminar

Friday, April 5

Continued
Noon
Seminar Presentation in the Nursing &
Pharmacy Auditorium NRPH Room 135

The Walker Award will be presented following the lecture.

1:30 PM
Lunch & Reception
and meeting with Dr. Julia Stephen MRN and
Dr. Steve Brueck, CHTM
Domenici West – Main Lobby

3:00 PM
Meet with BSGP & Neuroscience
Graduate Students & Postdoctoral Fellows,
Neuroscience Conference Room
Basic Medical Science Building, Room 243
Coffee & tea

3:45 PM
Meetings with Neurosciences Faculty :
Dr. Jonathan Brigman, Assistant Professor
Dr. Jason Weick, Assistant Professor
Dr. Lee Anna Cunningham, Professor
Dr. Bill Shuttleworth, Professor
Dr. Don Partridge, Professor
Dr. Fernando Valenzuela, Professor
Neuroscience Conference Room
Basic Medical Science Building, Room 243

5:30 PM
Return to hotel by:
Dr. Jason Weick will be providing
transportation to your hotel.

6:00 PM
Dinner with Drs. Michael Wilson, Jason
Weick and Nora Perrone-Bizzozero.

Saturday, April 6

5:00 AM
Taxi from hotel to airport:
Please contact Green Cab at (505)243-6800 to arrange transportation from the hotel to the airport.

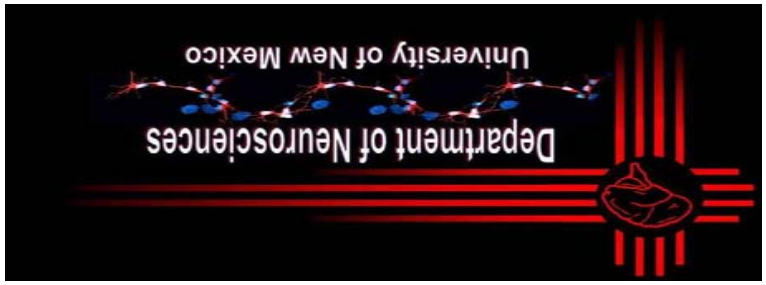
Your Departure Information:

Albuquerque International Sunport
United Airlines
Flight UA 1497
Departure Time: 6: 00 AM

Neuroscience Day is supported by the Department of Neurosciences & the Cellular and Molecular Basis of Disease Seminar Series of the UNM School of Medicine.

Neuroscience Day is one event of the International Brain Awareness Week, which is sponsored by the Society for Neuroscience and the Dana Alliance.

Thank you for being a part of Neuroscience Day 2013



Neuroscience Day 2013

Friday, April 5th

University of New Mexico HSC Campus

The University of New Mexico Department of Neurosciences
requests your presence at

Neuroscience Day 2013

Friday, April 5th
Domenici Education Center & Nursing and Pharmacy Buildings

Schedule

9:30 Poster Session **Domenici North Lobby**
12:00 Keynote Lecture **NRPH Room 135**
The Walker Award will be presented following the lecture.

Optogenetics, Scalable Electrophysiology and Other Neural Circuit Tools

Edward S. Boyden, Ph.D., ***MIT Media Lab; Joint Professor, Department of Brain and Cognitive Sciences; Department of Biological Engineering***

1:30 Lunch & Reception **Domenici West – Main Lobby**

Please RSVP for lunch
The favor of a reply is requested by Friday, March 1, 2013 to
Susie Turrey sturrey@salud.unm.edu 272-4411

Poster titles, authors, and department affiliation should be sent to Don Partridge (dpartridge@salud.unm.edu) by March 29, 2013
Poster setup will be from 9:00 – 9:30 in the Domenici North Lobby.

Neuroscience Day
5 April 2013
Poster Session

9:30 – 11:30 Domenici North Lobby

- L. Li, K.M. Harms, K. Wright, R. Wang, L.A. Cunningham **Vascular regression and depletion of neural progenitors within murine subventricular zone following induced HIF-1a gene deletion in adult mice.** Dept. of Neurosciences, UNM

- C.D. Tesche, C.M. Garcia, P.W. Kodituwakku, J.M. Houck **Global / Local Attention: Effects of tDCS on Brain Dynamics** Department of Psychology, UNM

- Rong Pan[1], Chen Chen[1], Wenlan Liu[1], Ke Jian Liu[1,2] **Zinc promotes the death of hypoxic astrocytes by upregulating hypoxia-induced hypoxia-inducible factor-1alpha expression via Poly(ADP-ribose) polymerase -1 Department affiliation:** 1. Department of Pharmaceutical Sciences, and 2 Department of Neurology, University of New Mexico Health Sciences Center

- A.R.B. Schiess, M. Baca, D. Jelinek, C. James, L.D. Partridge **Induction of long term depression in cortico-striatal synapses**. Sandia National Labs & Dept. of Neurosciences UNM.

- Russell A. Morton**,** Mackenzie S. Norlin, Cyndel C. Vollmer, and C. Fernando Valenzuela **Characterization of L-type voltage-gated Ca^{2+} channel expression and function in CA3 pyramidal neurons at different developmental stages** Dept of Neurosciences, Academic Science Education and Research Training (ASERT), and Undergraduate Pipeline Network (UPN).

- K. Kajimoto, A. M. Allan, C. F. Valenzuela, L. A. Cunningham **Moderate prenatal alcohol exposure renders mice resistant to the neurogenic benefits of enriched environment in adulthood**, Dept. of Neurosciences, UNM.

- M.W. Porch[1], L. Coquet[2], M.J. Rosenberg[1], M.C. Staples[1], Suzy Davies[1], T. Jouenne[2], D.D. Savage[1] **Placenta as a potential biomarker tissue for altered fetal conrical protein expression due to moderate drinking during pregnancy**. Department of Neurosciences, University of New Mexico, School of Medicine, Albuquerque, NM, USA[1] Polymer, Biopolymer, Surfaces Laboratory FRE CNRS 3101, Proteomic Platform of the IFRMP23, University of Rouen, Rouen, France[2]

- Monica Saha, Kristin Marquardt, Rahul Sigdel and Jonathan L. Brigman **Effects of GluN2A depletion on attentional set-shifting and activity in the mouse** Dept. of Neurosciences UNM

- Amber Messier-Gieri; Lu Li; Ruth Wang; Kandis Wright; Lee Anna Cunningham **HIF-1 alpha is a critical regulator of perinatal oligodendrocyte development**

- Wright,Carrie[1]; Turner, Jessica A.[1,2] ; Calhoun, Vince D.[1,2]; and Perrone- Bizzozero, Nora[1] **Impact of miR-137 in schizophrenia revealed by its putative targets** 1University of New Mexico Health Sciences Center, Albuquerque, NM and 2The Mind Research Network, Albuquerque, NM

- C.R. Tyler; A.M. Allan **Adult hippocampal neurogenesis is reduced by perinatal arsenic exposure and restored by brief experience in enrichment,** Dept. of Neurosciences, UNM

- Britta E. Lindquist C. William Shuttleworth**, Metabolic impairment contributes to adenosine accumulation following spreading depolarization,** Dept. of Neurosciences, UNM

- R.J. Oliver Jr[1], R.M. Bastle[2], A.S. Gardiner[1], J.L. Neisewander[2], J.L. Brigman[1], A.M. Allan[1], and N.I. Perrone-Bizzozero[1]. **Nucleus Accumbens HuD, and miR495: A post transcriptional link between genes and the behavioral effects of cocaine**. (1) Department of Neurosciences, University of New Mexico School of Medicine, (2) Department of Psychology, Arizona State University, Tempe, AZ

- Jason P. Weick[1], Ebru S. Selen[2], Matthew T. Pankratz[2], Timothy M. LaVaute[2], Cindy Huang[2], Nora Perone-Bizzozero[1], and Su-Chun Zhang[2] **Expression profile of differentiating hESCs reveals conserved and unique processes during human neural development** 1) Department of Neurosciences, University of New Mexico, Albuquerque, NM 2) Waisman Center, University of Wisconsin-Madison, Madison, WI

- C.D. Tesche, C.M. Garcia, P.W. Kodituwakku, J.M. Houck **Abnormal Auditory Evoked Responses to Standard and Novel Stimuli in Adolescents with Fetal Alcohol Spectrum Disorder (FASD): A Magnetoencephalographic (MEG) Study** Dept. of Psychology, UNM

- John B. Plumley[1], Brian A. Akins[1], Antonio C. Rivera[1], Nathan J. Withers[1], Yekaterina I. Brandt[1], Gennady A. Smolyakov[1], Erin D. Milligan[2], and Marek Osiński[1]**QD-based *in vivo* Matrix Metalloproteinase Biosensing for Peripheral Neuropathy** [1]Center for High Technology Materials, University of New Mexico Albuquerque, NM 87106; [2]Department of Neurosciences, University of New Mexico Health Sciences Center , Albuquerque, N.M

April 20, 2013

NMARC
Mock Site Visit

9:00 am ~ 4:30 pm

THE UNIVERSITY OF NEW MEXICO ◆ HEALTH SCIENCES CENTER
SCHOOL OF MEDICINE

Consolidated Itinerary for NMARC Mock Site Visitors – April 19 -21, 2013

New Mexico Alcohol Research Center

Claire Coles, Ph.D.	Rajesh Miranda, PhD.	Joanne Weinberg, Ph.D.	Hermes Yeh, Ph.D.
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Friday April 19th:

(Dr. Weinberg already here for the Cellular & Molecular Basis of Disease Seminar series)
(Drs. Coles, Miranda &Yeh check into Embassy Suites, 1000 Woodward Place NE)

12:39 pm Dr. Coles arrives ABQ on Delta Airlines Flight #1022 - Take taxi to Embassy Suites
12:48 pm Dr. Miranda arrives AVQ on United Airlines Flight #5150L – Take taxi to Embassy Suites

4:33 pm Dr. Yeh arrives ABQ on US Airways Flight #7864 – Take taxi to Embassy Suites

6:00 pm Dr. Coles, Miranda & Yeh picked up for dinner with Drs. Valenzuela, Brigman & Kodituwakku

Saturday April 20th:

Complimentary breakfast at hotel

9:00 am Pick-up from hotel by Dr. Savage or Dr. Valenzuela – transport to UNM CTSC Building

9:30 am Convene closed session of Mock Site Visit Panel
Drs. Weinberg (Chair), Coles, Miranda, Yeh, w/ UNM faculty Drs. Yeo, Wilson & Shuttleworth

11:30 am Break for lunch with NMARC Investigator Group

Noon: Center Overview Presentation by Dr. Savage

12:30 pm Review of P50 Components
Component 1: Administrative Core - Dr. Savage
Component 3: Dr. Cunningham
Component 4: Drs. Allan & Caldwell
Component 5: Dr. Brigman
Component 6: Drs. Stephen & Kodituwakku
Component 7: Drs. Perrone-Bizzozero & Bakhireva
Component 2: Scientific Core - Dr. Caldwell
Component 8: Pilot Project Core - Dr Valenzuela

~3:30 pm Mock Site Visit Wrap-up and Debriefing

~4:30 pm PAC members returned to hotel by Dr. Valenzuela or Dr. Savage

6:00 pm Pick-up for Debriefing Dinner with Drs. Savage & Valenzuela

Sunday April 21st:

Complimentary breakfast at hotel (if time)

6:15 am Dr. Yeh leaves ABQ on US Airways Flight #2989

6:30 am Dr. Coles leave ABQ on Delta Airlines Flight #1452

8:15 am Dr. Weinberg leaves ABQ on US Airways Flight #245

10:36 am Dr. Miranda leaves ABQ on United Airlines Flight #5194S