Anthony Jerome (A.J.) Baucum II
Indiana University Purdue University Indianapolis (IUPUI)
Department of Biology
Born: Springfield, Oregon. December 31st 1977
Home Phone: (801) 671-0066

EDUCATION:

Title	Degree	Advisor	Completion Date
POSTDOCTORAL			
Vanderbilt University School of Medicine	N/A	Roger J. Colbran, Ph.D.	7/31/2011
University of Utah		Annette E. Fleckenstein, Ph.D	05/31/2006
GRADUATE			
University of Utah	Ph.D.	Annette E. Fleckenstein, Ph.D	05/31/2004
UNDERGRADUATE			
Loyola Marymount University	B.S.	N/A	05/05/1999

APPOINTMENTS:

ACADEMIC (i.e. academic appointments, including academic administrative roles)

Department of Pharmacology and Toxicology Indiana University School of Medicine	Associate Professor	07/01/21 - Present
Biology Department Indiana University-Purdue University Indianapolis	Associate Professor	08/01/2019-06/30/21
Biology Department Indiana University-Purdue University Indianapolis	Assistant Professor	08/1/2013-07/31/2019
Department of Pharmacology and Toxicology Indiana University School of Medicine	Adjunct Faculty	04/25/2018-06/30/21
Center for Diabetes and Metabolic Disorders	Member	12/1/2016-Present
Stark Neurosciences Research Institute Indiana University School of Medicine	Primary Faculty	8/1/2013-Present
Vanderbilt University School of Medicine	Research Instructor	7/2011-7/31/2013

LICENSURE, CERTIFICATION, SPECIALTY BOARD STATUS

Pharmacy Board of Indiana – Controlled Substance Registration	61101346B	2/26/2016 – Present

Drug Enforcement Agency, Department of Justice – Controlled Substance Registration	RB0515239	05/03/17 - Present

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

Society for Neuroscience	2004-Present
American Society for Pharmacology and Experimental Therapeutics	2007-Present
American Society for Mass Spectrometry	2011-Present
American Chemical Society	2016-2020

PROFESSIONAL HONORS AND AWARDS:

TEACHING

Wolf Prize for Excellence in Teaching	University of Utah	2004

RESEARCH

Best Poster Award	Vanderbilt Kennedy Center Science Day	2011
	Vanderbilt University	2010
Postdoc of the Year	Vanderbilt University	2010
Best Poster Award-Neuroscience Division	Neuropharmacology Division, ASPET	2009
2nd Place Abstract Postdoctoral Category	Neuropharmacology Division, ASPET	2008
Neuroscience Scholars Award	Society for Neuroscience	2007-2009
Best Poster Award	Vanderbilt Brain Institute	2009
Best Poster Award-Neuroscience Division	Vanderbilt Kennedy Center	2009
3rd Place Best Poster Award – Postdoc Division	Vanderbilt University	2009
	Neuropharmacology Division, ASPET	2005
1st Place Best Poster Award – Graduate Division	Neuropharmacology Division, ASPET	2004
2nd Place Best Poster Award – Graduate Division	Neuropharmacology Division, ASPET	2003

SERVICE

IUPUI School of Science Tenure Track Faculty Service Award	IUPUI	2021

PROFESSIONAL DEVELOPMENT:

Level 1: NRMN Entering Mentoring Training	National Research Mentoring Network	5/21-22/2019
NIH grant writing workshop	NINDS-NIH	07/21-22/2014
Gopen writing workshop	IU School of Medicine	8/5/2014
New Faculty Plan Now for Success	Academic Affairs IUPUI	11/6/2013
New Faculty Mentoring Workshop	Graduate School, Purdue University	10/22/2013
Documenting Impact and Reputation	Academic Affairs IUPUI	9/5/2013

TEACHING:

TEACHING ASSIGNMENTS:

UNDERGRADUATE

Course	*Description*	*Format*	*Role*	*Semester*	*Census*	Global scores (out of 6.0 unless noted)
SCI I120	Windows on Science **(DEI)**	Lecture	Teacher	Fall 2022	~25	
SCI I120	Windows on Science **(DEI)**	Lecture	Teacher (1)	Fall 2021	~25	4.42 (out of 5)
SCI I120	Windows on Science **(DEI)**	Lecture	Co-director	Fall 2020	25	5.99, 6.0
Biol K451	Neuro-pharmacology	Lecture	Instructor	Spring 2020	32	4.18 (out of 5)
SCI I120	Windows on Science **(DEI)**	Lecture	Co-director	Fall 2019	24	5.91, 5.83
Biol K451	Neuro-pharmacology	Lecture	Instructor	Spring 2019	23	5.97, 6.00
Biol K451	Neuro-pharmacology	Lecture	Instructor	Spring 2018	29	5.93, 5.97

Biol K451	Neuro-pharmacology	Lecture	Instructor	Spring 2017	17	5.88, 5.92
Biol K451	Neuro-pharmacology	Lecture	Instructor	Spring 2016	24	6.0, 5.9
Biol K451	Neuro-pharmacology	Lecture	Instructor	Spring 2015	10	

GRADUATE/MEDICAL/PROFESSIONAL

PPP Y2	Preparing for professional practice	Journal Club	Facilitator	2022-2023	16	
GRDM G740	TRNSL SYS PHYS PHARM	Lecture (1)	Teacher	Spring 2022	12	
GRDM G780	Foundations of Neuroscience	Lecture (1)	Teacher	Spring 2022	10	
PPP Y2	Preparing for professional practice	Journal Club	Co-Facilitator	2021 - 2022	15	
PPP Y1	Preparing for professional practice	Journal Club	Co-Facilitator	2021 - 2022	10	
Anesth. Asst program	Foundations of clinical science	Lecture (1)	Teacher	Fall 2021		
K818/F818	Prin. Med Pharm	Lecture (1)	Teacher	Fall 2021		
Biol 56010	Neurodegen Dis	Lecture	Instructor	Fall 2020	32	5.87, 5.96
Biol 60900	Bootcamp Course	Lecture	Co-director	Fall 2020	12	5.68, 5.33
MNEU N880	Synaptic Plasticity	Lecture (1)	Teacher	Fall 2020	5	4.67 (out of 5)
Biol 50700	Molecular Biology	Lecture (3)	Teacher	Fall 2020	37	
Biol 60900	Bootcamp Course	Lecture	Co-director	Fall 2019	19	5.71, 5.51

Biol 56010	Neurodegen Dis	Lecture	Instructor	Fall 2019	29	5.94, 5.96
GRDM-G780	Foundations of Neuroscience	Lecture (2)	Teacher	Spring 2019	13	N/A
Biol 60900	Bootcamp Course	Lecture	Co-director	Fall 2018	8	5.28, 5.27
Biol 56010	Neurodegen Dis	Lecture	Instructor	Fall 2018	16	5.78, 5.85
GRDM-G743	Fundamentals of Electrical Signaling & Ion Channel Biology	Lecture	Guest Lecturer	Spring 2018	7	9.5/10
MNEU-N 612	Neurotrans. Dyn and Syn Plasticity	Lecture - (2)	Guest Lecturer	Fall 2017	8	N/A
Biol 60900	Bootcamp Course	Lecture - (4)	Co-director	Fall 2017	8	Group taught 5.52, 5.67
Biol 56010	Neurodegen Dis	Lecture	Instructor	Fall 2017	21	5.84, 5.88
MNEU-N 612	Neurotrans. Dyn and Syn Plasticity	Lecture - (2)	Guest Lecturer	Fall 2016	7	N/A
Biol 59500	Bootcamp Course	Lecture - (5)	Co-director	Fall 2016	9	Group taught 5.25, 5.22
Biol 56010	Neurodegen Dis	Lecture	Instructor	Fall 2016	21	5.52, 5.55
Biol 69700	Neurodegen Dis	Lecture	Instructor	Fall 2015	19	Not evaluated
Biol 50700	Principles of Molecular Biology	Lecture - (1)	Guest Lecturer	Fall 2015	41	N/A
Biol 59500	Bootcamp Course	Lecture - (5)	Co-director	Fall 2015	13	N/A

MNEU-N 612	Neurotrans. Dyn and Syn Plasticity	Lecture - (2)	Guest Lecturer	Fall 2015	6	N/A
Biol 69700	Neurodegen. Dis	Lecture	Instructor	Fall 2014	17	5.7, 5.8
MNEU-N 612	Neurotrans. Dyn and Syn Plasticity	Lecture - (2)	Guest Lecturer	Fall 2014	4	N/A
Biol 59500	Special Assignments - Bootcamp	Lecture - (2)	Co-director	Fall 2014	6	N/A
Biol 69700	Neurodegen. Dis	Lecture	Instructor	Spring 2014	24	5.9, 5.9

MENTORING:

Students in Capstone (K490)	Course/Program/Role (Role is mentor unless noted)	
Alek Baker	K490	Fall 2019
Egan Grealish	K490	Fall 2018
Tranise Robinson	K490	Fall 2018
Madison Harris	K490	Summer II 2016
Anna Loeser	K490	Summer II 2016
Cameron Morgan	K490	Spring, 2015
Students in Lab		
High School		
Isabella Hernandez, Aileen Reyes, Kevin Fernandes, Amy Gaytan-Rodriguez **(DEI)**	Crispus Attucks 2-week summer rotations	06/21/22-07/14/22
Olivia Balcer	Stark Summer Program	06/2018-07-2018
Jose Moreno **(DEI)**	Project SEED	06/2018-07/2018
Srineeth Challa	Carmel HS and Project STEM	2/2017 – 8/2017
Chandler Parrish	Noblesville HS Biotechnology Innovations Capstone	2/2017 – 5/2017
Amanuel Araya - Ben Davis HS **(DEI)**	Project SEED high school student	6/2015 - 8/2015

Clifford and Mayika - Crispus Attucks **(DEI)**	8-week Biotech program	2/2015-4/2015
Ryan Jou - Carmel HS	Summer high school student	6/2014-8/2014
Undergraduate Alexander Epp	Summer Undergraduate Research Experience in the Biomedical Sciences (SUREBS) program	6/2022-7/2022
Aaron Kile **(DEI)**	DS-UROP	6/2021-7/2021
Adreana Connell **(DEI)**	Neuroscience Experience and Undergraduate Research Opportunities Program (NEUROP)	10/2019 – 05/2020
Ines Rivera **(DEI)**	Diversity Scholars Research Program (DSRP)	08/2019 – 05/2020
Chai Wong	K493/K494	08/2019 – 05/2020
Olivia Balcer	Stark Summer Program	06/2019 – 08/2019
David Perez-Herrera **(DEI)**	Louis Stokes Alliance for Minority Participation (LSAMP)	06/2019 – 08/2019
Crystal Crawford (Johnson) **(DEI)**	LSAMP, K493	06/2018-12/2019
Victor Olafusi **(DEI)**	K493/K494	Spring 2017 – Spring 2018
Willie O'Neal	K493/494 (Boehm Laboratory)	Fall 2016-Spring 2017
Cameron Morris	Chemistry/Neuroscience undergraduate Research (Psychology 499 capstone)	Fall 2014-Fall 2016
Morrent Thang – Biology **(DEI)**	URM-program undergraduate student. K493, K494	07/2015 – 05/2016
Jessica Vecera	Biology - K493 and K490	Summer I 2015, Spring 2016
Brittney Werner	Biology K493 and K490	Summer I,II 2015, Fall 2015

Jonathon McBride - Northwestern University	Summer undergraduate	6/2014-9/2014
Chanel Wengerd	Biology - K493	Spring 2014
Graduate Thesis/Dissertation students in the laboratory		
Current		
Basant Hens	Ph.D. Student Pharmacology and Toxicology	06/2022-Present
Nikhil Shah	MD/Ph.D. student Med. Neuro	07/2022-Present
Kaitlyn Stickel	Ph.D. Student Biology	8/2016 - Present
Completed		
Wesley Corey	M.S. Thesis Biology	08/2020 – 08/2022
Cameron Morris	Ph.D. Student Med Neuro	05/2019 – 08/2022
Darryl Watkins **(DEI)**	Ph.D. Student – Med Neuro	5/2016 – 07/2022
Asma Salek	Ph.D. student – Biology	8/2016 – 12/2020
Harjot Kaur	M.S. Thesis Biology	06/2015 - 12/2017
Asma Salek	M.S. Thesis Biology	09/2014 - 8/2016
Andrew Hiday	M.S. Thesis Biology	8/15/2013 - 5/2014

Committees/Mentoring	Ex Officio memberships due to moving from Biology	
Ph.D. Dissertation – Current		
Cassandra Carrillo **(DEI)**	Committee Member	9/2022-Present
Jocelyne Hanquier	Committee Member	11/2020 - Present
Sagara Wijeratne (M.D./Ph.D. Biochem and Mol Biology)	Committee Member	09/2020 - Present
Chandrama Ahmed (Med Neuro)	Committee Member	5/2020 - Present
Makenna Reed (Biology)	Committee Member	5/2020 - Present
Mason Tate (Med Neuro)	Chair	3/2020 - Present
Kang-Chieh (KC) Huang (Biology)	Committee Member Ex officio member	08/2019 – 07/2021 07/2021-Present
Donald Huang (Med Neuro)	Committee Member	08/2019 - Present

Alexandra Hochstetler (Biology)	Committee Member	05/2019 - Present
Patrick Milder (Biology)	Committee Member	05/2019 - Present
Sailee Lavekar (Biology)	Committee Member Ex officio member	08/2018 – 07/2021 07/2021-Present
Ashley Frazee (Biology)	Committee Member	08/2018 - Present
Completed Committees Kaitlin Reeves (Med Neuro)	Committee Member	08/2019 – 08/2021
Ruchi Bansal (Biology)	Committee Member	08/2017 – 04/2022
Patrick Antonellis (Biology)	Committee Member	10/2017 – 07/2021
Shashank Nambiar (Biology)	Committee Member	06/2016 – 07/2021
Austin Reilly (Med Neuro)	Committee Member	08/2018 - Present
Agnes Zybura (Med Neuro)	Qualifying Exam Chair Committee Member	08/2017 – 12/2020
Onyekachi Ononye (Biology) **(DEI)**	Committee Member	08/2017 – 12/2020
Clarisse Fligor (Biology)	Committee Member	10/20/2016 – 03/2020
Asim Dey (Biology)	Committee Member	08/2019-05/2020
Thatcher Ladd (Med Neuro)	Committee Member	04/2018 – 06/2020
Pallabi Roy (Biology)	Committee Member	5/2016 – 11/14/2018
Sarah Ohlemacher (Biology)	Committee Member	9/2014 – 05/11/2018
Arianne Aslamy (Physiology-MD/Ph.D.)	Committee Member	08/01/2016 – 03/2018 12/2016 – 12/2017
Lindsay Hammack (Biology)	Committee Member	5/21/2014 - 06/2017
Subramanian Dharmarajan (Biology)	Committee Member	4/4/2014 - 12/2016
Jonathan Wilson (Biology)	Committee Member	2/2015 - 3/2016
Sarika Tiwari (Biology) (Did not complete)		
MS Thesis - Completed Louise Hulme	Committee Member	01/2021 – 5/2022

Rachel McCue	Committee Member	10/2019 – 5/2021
Cassandra Carrillo **(DEI)**	Committee Member	10/2019 – 08/2021
Sean Gainey (Psychology)	Committee Member	12/2016 – 08/2019
Cameron Melton (Biology) (Did not complete)	Committee Member	09/2017 – 05/2018
Zach Deitch (Biology)	Committee Member	09/2017 – 05/2018
Maia Kirk (Biology) **(DEI)**	Committee Member	8/2014 – 6/2015
Shashank Nambiar (Biology)	Committee Member	10/2013 - 6/2014
<u>*Other*</u> Stephen Alkins – Graduate Student Brandies **(DEI)**	Neuroscience Scholars Program, Society for Neuroscience	Fall 2016 – 2018

RESEARCH/CREATIVE ACTIVITY:

GRANTS/FELLOWSHIPS IN RESEARCH:

ACTIVE RESEARCH GRANTS/FELLOWSHIPS					
Title	*Granting Agency/Grant Number*	*Role*	*Effort*	*Amount (Direct)*	*Dates*
EXTERNAL					
Neuroscience Experience and Undergraduate Research Opportunities Program (NEUROP) (**DEI**)	R25NS10717	mPI	8.3%	$1,250,000	7/1/2019-6/30/2024
Ciliary Mchr1 Signaling in Feeding Behavior and Obesity	R01DK114008	Co-I (Berbari PI)	0%	$1,250,000	4/1/2018-3/31/2023
INTERNAL					

COMPLETED RESEARCH GRANTS/FELLOWSHIPS

EXTERNAL					
Generation of cell-specific tools to determine the role of spinophilin in regulating pathological responses to psychostimulant drugs of abuse	NIH-R21DA041876	PI	12.5%	R21: $250,000	04/01/2016-03/31/2018
	R33DA041876	Mentor	0	$73,532	

Generation of cell-specific tools to determine the role of spinophilin in regulating pathological responses to psychostimulant drugs of abuse.	-S1				7/1/2018 – 6/30/2020
Spinophilin function in direct and indirect pathway MSNs on response to psychostimulant drugs of abuse	R33DA041876	PI	16.7%	$704,847	4/1/2018 – 3/31/2021
Spinophilin Signaling in the Striatum	NIH-K01NS073700		75%	$641,985	04/01/2012-03/31/2017
Mentoring Institute for Neuroscience Diversity Scholars (MINDS)	NIH-NINDS	Fellow	0%	Travel funds	08/2016 08/2017
Postdoctoral Fellowship – Postdoc Lab	UNCF-Merck	PI	100%	$65,000	2007-2009
Postdoctoral Training Grant – Postdoc Lab	NIH-NIMH	Trainee	100%	$45,000	2006-2007
INTERNAL					
Purdue Summer Faculty Salary	Purdue	PRF	8.3%	10,400	07/01/2017-07/31/2017
CTSI Core Pilot Grant	IUSM	PI	0	$9,340	3/2014-3/2017
Indiana Diabetes Research Center Pilot and Feasibility	IDRC-IUSM	PI	0	$25,000	11/2014-10/2015
EMPOWER mentoring grant	IUPUI	Mentee	0	$5,000	2013-2015
Spinophilin Signaling in Drug Abuse and Parkinson Disease	IUPUI (OVCR) – Bridge Grant	PI	8.3%	$45,000	12/01/2017-11/30/2018
Spinophilin Signaling in Hypothalamus and Pancreas of Obese Mice	IUPUI (OVCR)-RSFG	PI	8.3%	$35,000	06/01/2017-06/30/2018

PENDING RESEARCH GRANTS/FELLOWSHIPS (SUBMITTED/In Revision)					
Synaptic signaling-dependent neuroadaptations mediating striatal and cerebellar motor learning.		PI	30%	2,229,491	07/01/23-06/30/28

Cell type-specific regulation of dopamine-dependent neuroadaptations by spinophilin.	R01DA057936-01	PI	30%	1,997,187	04/01/23-03/31/28
Chan-Zuckerberg Diversity Leadership Award		PI	25%	1,000,000	12/01/22-11/30/27
A novel proteomics approach to identify alcohol-induced changes in synapse-specific presynaptic protein interactions.	R21AA030319-01A1 Pending IRG review, previous submission scored 25	mPI (Atwood PI)	10%	275,000	04/01/23-03/31/25

SUBMITTED BUT NOT FUNDED RESEARCH GRANTS/FELLOWSHIPS					
EXTERNAL					
Spinophilin cell type specifically mediates distinct forms of striatal plasticity and motor learning	R01DA054521 (37th%ile and A1 19th %ile, pending council review).	PI (Atwood mPI)	25%	2,308,463	04/01/22-06/30/27
The Lipid Isoprenylation Path and the Regulation of the Serotonin Transporter	R01MH131535-01	mPI (Yamamoto PI)	25%	2,000,000 (approx.)	09/01/22-08/31/27
Mechanisms of striatal cell type-specific functional regulation of mGluR5 on repetitive motor output.	R01MH131530-01	PI	40%	2,091,090	09/01/22-08/31/27
Spinophilin-dependent regulation of striatal mGluR5 and AMPARs.	R01MH129448	PI	40%	1,905,899	04/01/22-03/31/27
Mechanisms and consequences of spinophilin-dependent regulation of hippocampal GluN2B-containing NMDARs	R01MH128326	PI	33.%	1,939,930	09/01/21-08/31/26
Generation and validation of a conditional neurabin knockout mouse line to compare and contrast the functional role of neurabin and spinophilin on striatal-dependent biochemistry, plasticity, and behaviors. (In preparation)	R21DA052129 (and A1) (R21/R33)	PI	25%	1,000,000	07/01/21-06/30/26

Striatal spinophilin-dependent regulation of the metabotropic glutamate receptor 5 (mGluR5)	R01MH125863	PI	12.5 %	1,250,000	04/01/21-03/31/26
A novel proteomics approach to identify alcohol-induced changes in synapse-specific presynaptic protein interactions	R21AA029131 (and A1) – Impact score of 27.	mPI (Atwood)	7%	275,000	04/01/21-03/31/26
A novel proteomics approach to identify oxycodone-induced changes in insular cortex-dorsal striatum synapses	R21DA050109 (and A1)	mPI (Atwood)	8.3%	$275,000	07/01/20-06/30/22
Striatal spinophilin signaling in psychostimulant pathophysiology	R01DA051654	PI	22.5 %	1,250,000	07/01/20-06/30/25
Spinophilin signaling and obsessive-compulsive disorder pathophysiology.	R01MH120113 (and A1)	PI	15%	1,250,000	07/01/20-06/30/25
Spinophilin regulation of striatal- and cerebellar-dependent plasticity and behavior	R01NS115847	PI	25%	1,700,879	04/01/20-03/31/25
Indiana University-Purdue University Neuroscience Educational Research Opportunity (IUPUI-NERO)	R25NS114154	mPI	8.3%	1,250,000	04/01/20-03/31/25
Spinophilin-Dependent Regulation of Glutamate Receptors and Parkinson Disease Pathology	R01NS107308	PI	8.3%	1,250,000	07/01/18-06/30/23
Spinophilin Signaling in Hypothalamic-Dependent Feeding Behavior and Beta Cell Function	R01DK118293	mPI	16.7 %	2,678,707	07/01/18-06/30/23
Western diet-induced glutamate signaling dysfunction in neurocircuits controlling habitual behavior.	R01DK117838	Co-I	8.3%	$1,724,763	07/01/18-06/30/23
Integrin complexes in the brain	NIDA	Co-I	8.3%	$275,000	07/01/18-06/30/20
Spinophilin Signaling in Drug Abuse, Parkinson	K02DA045862 Impact score 53	PI	75.0 %	$580,865	04/01/18-03/31/23

Disease, and Obesity and Diabetes					
Spinophilin signaling, striatal plasticity, and Parkinson disease	NIH-R01NS097605 (and A1) 50-52nd %ile	PI	16.6 %	$1,250,000	04/01/17-03/31/22
Cell-specific, dopamine-dependent alterations in the spinophilin interactome during neuropsychiatric pathologies	NARSAD	PI	8.3%	$70,000	08/2016-08/2018.
Functional and molecular role of spinophilin in regulating pathological responses to ischemic brain injury	IN State Dept of Health	PI	6.25 %	$160,000	07/01/16-06/30/17
Generation of a Parvalbumin-P2A-iCre Alcohol Preferring Rat	NIH-R21AA023893	PI	6.25 %	$250,000	04/01/15-03/31/17
Generation of transgenic and viral tools to visualize and regulate cell-specific synaptic protein expression in rodent models	NIH-U01MH105934	PI	25%	$825,000	09/01/14-08/31/17
Target Validation Pilot Award	Michael J. Fox Foundation	PI	25%	$100,000	2016-2017
Spinophilin signaling in Parkinson disease.	PD Foundation	PI	25%	$300,000	05/01/16-04/30/19
INTERNAL					
Spinal cord and brain injury	IN State Dept of Health	PI	6.25 %	$160,000	2015-2017
IUCRG	IUSM	PI	12.5 %	$75,000	2015-2016

INVITED PRESENTATIONS - RESEARCH

LOCAL - IUPUI and IUSM		
Mechanisms of spinophilin-dependent regulation of glutamate receptor function: implications in repetitive and perseverative behaviors	Department of Pharmacology and Toxicology	01/26/2021
Spinophilin signaling in striatum, hypothalamus, and pancreas.	Department of Medical and Molecular Genetics	10/03/2018

Spinophilin function in dopamine pathologies and obesity and diabetes.	Department of Biology, IUPUI	04/13/2018
Regulation of the protein phosphatase 1 targeting subunit spinophilin in Parkinson disease, psychostimulant abuse, and obesity and diabetes: THE GOOD, THE BAD, and THE UGLY.	Pharmacology and Toxicology Department - Indiana University School of Medicine	2/13/2018
Spinophilin signaling in Parkinson disease, drug abuse, and obesity: A tale of two cell types	Stark Neurosciences Research Institute - Indiana University School of Medicine	03/30/2017
Neuropathological mechanisms regulating spinophilin interactions and substrate protein phosphorylation	Biochemistry Department - Indiana University School of Medicine	9/28/2015
Regulation of spinophilin-containing protein complexes in animal models of parkinson's disease: keeping phosphorylation balanced	Chemistry Department, School of Science, IUPUI.	2/25/2015
Changes in synaptic protein organization in aging and parkinson's disease: new tools and new approaches	Physiology Department, Indiana University School of Medicine	9/30/2014
Proteomic identification and characterization of synaptic signaling complexes in health and disease	Stark Neurosciences Research Institute - Indiana University School of Medicine	10/10/2013
Proteomic identification of striatal signaling complexes during aging and in animal models of Parkinson's Disease	Department of Medical and Molecular Genetics - Indiana University School of Medicine	9/18/2013
REGIONAL – Conferences, Indiana talks		
Spinophilin function in dopamine pathologies	Butler Department of Biology	09/28/2018
Spinophilin Signaling in Striatal Motor Dysfunction	Midwest Motoneuron Consortium	09/21/2018
Synaptic protein signaling in hypothalamus and pancreatic β cells	Purdue University Nutr612 class (Seminar and Lecture together)	03/01/2018 8/7/2015

Understanding spinophilin function in Pancreatic Islets: thinking outside the brain	Center for Diabetes and Metabolic Disease 1st Annual Symposium. Indianapolis	11/05/2015
Spinophilin phosphorylation and protein interactions are regulated by kinase activity and in animal models of Parkinson Disease	Earlham College - Invited Speaker. Richmond, IN USA.	10/02/2015
Spinophilin phosphorylation and protein interactions are regulated by kinase activity and in animal models of Parkinson Disease	DePauw University - Invited Speaker. Greencastle, IN.	10/18/2013
Spinophilin phosphorylation and complex formation in aging and animal models of Parkinson Disease	Indianapolis Society for Neuroscience	
NATIONAL		
Mechanisms underlying striatal spinophilin-dependent regulation of motor learning and repetitive motor output	Virginia Commonwealth University	2/25/2022
Don't blame your Environment: Spinophilin in Striatal habit Learning pathophysiology	Vanderbilt University – Invited Speaker. Nashville, TN	12/11/2019
Don't blame your Environment: Spinophilin in Striatal habit Learning pathophysiology	University of Utah – Invited Speaker, Salt Lake City, UT	11/21/2019
Spinophilin function in dopamine pathologies and obesity and diabetes.	Oberlin College and Conservatory – Invited Speaker. Oberlin, OH, USA	04/06/2018
Spinophilin signaling in multiple diseases	Mentoring institute for neuroscience diversity scholars overview of lab presentation. Washington, DC. USA	09/23/2016
INTERNATIONAL		
Physiological and pathological regulation of postsynaptic protein organization and signal transduction in the striatum	Toyo University Summer Camp - Café Lecture. Itakura, Japan.	09/14/2015

SERVICE:

UNIVERSITY SERVICE:

DEPARTMENT		
Pharm/Tox	Chair DEI committee (**DEI**)	12/1/21 – Present

Pharm/Tox	Member Promotion & Tenure committee	11/15/21 – Present
Pharm/Tox	Member Social Media Committee (**DEI**)	10/01/21 – Present
Biology	Member Biology tenure-track search and screen committee	11/2019 – 03/2020
Biology	Chair Search and Screen Committee – Assistant to the Chair	5/2019 – 8/2019
Biology	Member of the Biology Department Promotion and Tenure Committee	08/2019 – 07/2020
Biology	Director of Thesis Graduate Studies	04/15/2019 – 06/30/2021
Biology	Neurobiology Qualifying Exam Committee - Chair	01/2017 – 06/2019
Biology	Created multiple courses for the department, including a research bootcamp course - Biol 60900	08/01/13 – 08/2015
Biology	Search and Screen committee for Instructional coordinator position	1/2015 – 3/2015
Biology	Member of the Action Planning committee	08/01/2014-04/2015
Biology	Member Graduate Studies Committee - reformatted graduate handbook	08/2014-06/30/2021
Biology	Biochemistry Molecular Biology Qualifying Exam Committee	05/2014-06/2019
Biology	Member Biology tenure-track search and screen committee	09/13/2013-08/01/2014
SCHOOL		
School of Medicine	Diversity Committee Member (appointed; **DEI**)	8/22-Present
School of Science	Diversity Taskforce (**DEI**)	9/2020 – 06/2021
School of Science	Member Graduate Education Committee	8/2018 – 06/2021
School of Science	Organizer School of Science NeuroClub. Includes approximately 12 faculty from Biology, Psychology, and Math.	01/01/2016 – 03/2020
Indianapolis Brain Bee	Judge (3)	12/09/2017, 12/10/2016, 12/07/2013
CAMPUS/UNIVERSITY		

Outstanding postdoc award committee	Judge/reviewer	10/20/2021
Postdoc Symposium short talk judge	Judge	10/15/2021
Neurodegeneration T32 Advisory Board	Member	06/2021 – Present
Communications Committee, Stark Neurosciences Research Institute	Member	02/2020 – 08/01/2021
iPREP Advisory Board	Member	07/2018 – Present
Reviewer CTSI Core Pilot	Reviewer (6)	06/20/2014, 05/04/2018 05/16/2019, 11/08/19, 12/13/20, 5/20/21
Biochemistry Science Day Judge	Poster Judge (3)	10/30/2018, 10/5/2017, 11/05/2014
Diabetes Symposium	Poster Judge (1)	08/04/2017
Medical Neurosciences Teaching Advisory Committee	Committee Member	04/01/2017 – Present
Abstract Reviewer for the Indianapolis Society for Neuroscience meeting	Abstract Reviewer (3)	03/20/2019, 02/28/2018, 03/30/2017
CTSI - Predoc and Postdoc Fellowships.	Grant Reviewer (1)	11/22/2016
Sigma Xi Grad student competition	Judge (1)	10/25/2016
IUSM Proteomics Advisory Board	Member of the committee	10/01/2016 - Present
Center for Developmental and Regenerative Biology symposium committee	Committee member and rebooted website	11/2015-7/1/2017

IBMG program interviewer and interacted with students at the recruitment day	Interviewed incoming students (2)	01/30/2015, 02/20/15
Responsible Conduct of Research – Authorship and Publications panel	Panelist (1)	11/14/2013

PROFESSIONAL SERVICE:

REGIONAL		
External Examiner Earlham College, Richmond Indiana, USA	External Examiner – Oral comprehensive examiner for graduating Seniors (2)	03/21-03/22/2019, 03/22-03/23/2018
NATIONAL		
NIH Fellowship Study Section – ZRG1 F03A-T	Temporary Member	02/23-25/2022, 06/15-17/2022
Sanford School of Medicine, Division of Basic Biomedical Sciences, University of South Dakota	External Reviewer – Tenure and Promotion Committee	08/06/2021
Frontiers in journals (Neurodegeneration, Cellular Neurophysiology, Neuroplasticity and Development, Cellular Neuroscience).	Reviewing Editor	2021 - Present
Trainee Professional Development Awards Review Committee – Society for Neuroscience	Member	03/2020 - Present
NIH Study Section – SYN	Temporary Member	02/14/2019-02/15/2019
Neural Plasticity Special Issue	Guest Editor	02/01/2017 – 10/01/2017
Manuscript Reviews *Total by Year (Do not include re-reviews, so actual reviewing numbers are higher*	2022 2021 2020 2019 2018 2017 2016 2015 2014	14 15 10 7 7 7 2 4 2

Journals and dates reviewed		
Neurochemical Research	Reviewer (1)	11/3/22
Biomedicines (MDPI)	Reviewer (1)	06/01/22
Antioxidants (MDPI)	Reviewer (2)	08/25/22, 11/02/21
ACS Chemical Neuroscience	Reviewer (1)	09/27/22, 03/03/22, 10/25/21
Journal of Nutritional Biochemistry	Reviewer (1)	08/10/21
Molecules	Reviewer (1)	05/11/21
Journal of Neurochemistry	Reviewer (1)	04/14/21
Cancers - MDPI	Reviewer (1)	04/06/21
Frontiers in (different subdisciplines – Neuroscience, Psychiatry, etc.)	Reviewer (6)	09/26/22, 09/01/22, 7/11/22, 05/23/22, 01/31/22, 01/25/22, 1/21/22, 11/08/21, 08/14/21, 08/15/21, 07/19/21, 04/05/21,
Methods and Protocols - MDPI	Reviewer (1)	04/05/2019
Molecular Psychiatry	Reviewer (1)	01/20/21
Advances in Pharmacology Review	Reviewer (1)	11/02/20
Theranostics	Reviewer (1)	08/26/20
Biomolecules	Reviewer (2)	08/25/20
Journal of Psychopharmacology	Reviewer (1)	06/05/20, 04/01/20
Journal of Biological Chemistry	Reviewer (2)	02/17/20
Neuroscience	Reviewer (3)	08/20/20, 07/31/19
JoVE	Reviewer (1)	05/09/19, 3/30/17, 10/12/15
International Journal of Molecular Sciences (MDPI)	Reviewer (8)	03/11/19
Proteomes	Reviewer (4)	12/02/21, 09/09/21, 07/28/21, 08/18/20,

Neurochemistry International	Reviewer (3)	02/16/20, 08/12/19, 04/04/19, 01/02/19 11/14/18, 10/22/18, 9/12/18, 07/12/18
PLoS One	Reviewer (4)	09/07/22, 06/21/18, 05/05/17
Archives of Biochemistry and Biophysics	Reviewer (2)	04/11/18, 05/04/17, 11/03/16, 06/10/14
Scientific Reports	Reviewer (2)	01/04/18, 11/02/17
Molecular Neurobiology	Reviewer (1)	11/12/20, 12/06/17
Progress in Neuropsychopharm. & Biological Psychiatry	Reviewer (2)	10/18/17
Expert Review of Proteomics	Reviewer (2)	03/04/22, 05/22/17
Journal of Proteomics	Reviewer (1)	07/19/16, 05/07/15
Current Analytical Chemistry	Reviewer (1)	10/7/15
Neuropharmacology	Reviewer (1)	01/23/15 05/06/14
<u>Panelist</u> FASEB Phosphatase Summer Research Conference, Snowmass Colorado, USA	Faculty transition panelist. How to go from graduate student and postdoc to faculty (1)	07/17/2018
INTERNATIONAL		
Toyo Summer camp, Itakura Japan	Foreign Faculty - Interacted with Japanese students and faculty at Toyo University to improve scientific presentation skills and enhance international collaborations	09/14/2015-09/19/2015

PUBLICATIONS:
https://www.ncbi.nlm.nih.gov/sites/myncbi/anthony.baucum.1/bibliography/43307736/public/?sort=date&direction=descending

*Publications in rank
†Publications as a mentor
RESEARCH/CREATIVE ACTIVITY

REFEREED ARTICLES
37*†. Morris CW, Watkins DS, Pennington T, Doud EH, Qi G, Mosley AL, Atwood BK, **Baucum AJ**. Spinophilin limits metabotropic glutamate receptor 5 scaffolding to the postsynaptic density and cell type-specifically mediates excessive grooming. bioRxiv. 2022:2022.05.24.493240. doi: 10.1101/2022.05.24.493240. In Revision at *Biol. Psych*.
36*†. Asma B. Salek, Ruchi Bansal, Nicolas F. Berbari, **Anthony J. Baucum II.** Spinophilin limits GluN2B-containing NMDAR activity and sequelae associated with excessive hippocampal NMDAR function. PREPRINT bioRxiv BIORXIV/2020/424812. Submitted.
35*. Gregory G. Grecco, Briana Mork, Jui Yen Huang, Corinne E. Metzger, David L. Haggerty, Kaitlin C. Reeves, Yong Gao, Hunter Hoffman, Simon N. Katner, Andrea R. Masters, Cameron W. Morris, Erin A. Newell, Eric A. Engleman, **Anthony J. Baucum II**, Jieun Kim, Bryan K. Yamamoto, Matthew R. Allen, Yu-Chien Wu, Hui-Chen Lu, Patrick L. Sheets, Brady K. Atwood. Prenatal Methadone Exposure Disrupts Behavioral Development and Alters Motor Neuron Intrinsic Properties and Local Circuitry. *eLife* 2021 Mar 16;10:e66230.
34*. Gregory G. Grecco, David L. Haggerty, Emma H. Doud, Brandon M. Fritz, Fuqin Yin, Hunter Hoffman, Amber L. Mosley, Edward Simpson, Yunlong Liu, **Anthony J. Baucum II**, Brady K. Atwood. A Multi-Omic Analysis of the Dorsal Striatum in an Animal Model of Divergent Genetic Risk for Alcohol Use Disorder. *J. Neurochem* 2021 May;157(4):1013-1031.
33*. Agnes S. Zybura, **Anthony J. Baucum II**, Anthony M. Rush, Theodore R. Cummins, Andy Hudmon. CaMKII enhances voltage-gated sodium channel Nav1.6 activity and neuronal excitability. *J. Biol Chem* 2020 Aug 14; 295(33):11845-11865.
32*†. Asma B. Salek, Michael C. Edler, Jonathon P. McBride, **Anthony J. Baucum II.** Spinophilin regulates phosphorylation and interactions of the GluN2B subunit of the N-Methyl-D-Aspartate Receptor. *J. Neurochem* 2019. Oct; 151(2):185-203.
31*. Ruchi Bansal, Staci E. Engle, Logan Whitehouse, Patrick J. Antonellis, **Anthony J. Baucum**, Theodore Cummins, Jeremy F. Reiter, Nicholas F. Berbari. Hedgehog pathway activation alters ciliary signaling in primary hypothalamic cultures. *Frontiers in Cell Neuro* 2019 Jun 12;13:266.
30*†. Darryl S. Watkins, Jason D. True, Amber L. Mosley, **Anthony J. Baucum II.** Proteomic Analysis of the Spinophilin Interactome in Rodent Striatum Following Psychostimulant Sensitization. *Proteomes*. 2018, 6(4), 53.
29*. Kirstin B. Langer, Ridhima Vij, Sarah K. Ohlemacher, Askhayalakshmi Sridhar, Elyse Feder, Michael C. Edler, **Anthony J. Baucum II**, Theodore Cummins, Jason S. Meyer. Astrocytic Regulation of hPSC-derived RGC Development and Maturation. *Stem Cell Reports.* Vol. 12, Issue 2, p201–212
28*†. Cameron W. Morris, Darryl S. Watkins, Asma B. Salek, Michael C. Edler, **Anthony J. Baucum II.** The association of spinophilin with disks large-associated protein 3 (SAPAP3) is regulated by metabotropic glutamate receptor (mGluR) 5. *Mol Cell Neuro*. 2018 Jun 14;90:60-69. Underlines are co-1st authorship.
27*†. Michael C. Edler, Asma B. Salek, Darryl S. Watkins, Harjot Kaur#, Cameron W. Morris, Bryan K. Yamamoto, **Anthony J. Baucum II**. Mechanisms regulating the association of protein phosphatase 1 with spinophilin and neurabin. *ACS Chem Neuro. 2018 Nov 21;9(11):2701-2712.* Underlines are co-1st authorship.
26*. Sarine Janetsian-Fritz, Nicholas Timme, Maureen Timm, Aqilah McCane, **Anthony Baucum Ii**, Brian O'Donnell, and Christopher Lapish. Maternal Deprivation Induces Alterations in Cognitive and Cortical Function in Adulthood. *Transl Psych*. 2018; 8(1):71.
25*†. Andrew C. Hiday, Michael C. Edler, Asma B. Salek, Cameron W. Morris, Morrent Thang, Tyler J. Rentz, Kristi L. Rose, Lisa M. Jones, and **Anthony J. Baucum II,** "Mechanisms and Consequences of Dopamine Depletion-Induced Attenuation of the Spinophilin/Neurofilament Medium Interaction," *Neural Plasticity*, vol. 2017, Article ID 4153076, 16 pages, 2017. doi:10.1155/2017/4153076

24*. Tiffany A. Wills, **Anthony J. Baucum II,** Katherine M. Louderback, Yaoyi Chen, Johanna C. Gandy, Eric Delpire, David L. Tabb, Roger J. Colbran, Danny G. Winder. Chronic Intermittent Alcohol Disrupts the GluN2B-Associated Proteome and Specifically Regulates Group I mGlu Receptor Dependent Long-Term Depression. *Addiction Biology*. 2017. Mar;22(2):275-290.
23*. Jonathon M. Wilson, Ann Marie Ogden, Sally Loomis, Gary Gilmour, **Anthony J. Baucum**, Belecky-Adams TL, Merchant KM. Phosphodiesterase 10A inhibitor, MP-10 (PF-2545920), produces greater induction of c-Fos in dopamine D2 neurons than in D1 neurons in the neostriatum. *Neuropharmacology.* 2015. August 7;99:379-386
22*. Anthony J. Baucum II, Brian C. Shonesy, Kristie L. Rose, and Roger J. Colbran. Quantitative proteomics analysis of CaMKII phosphorylation and the CaMKII interactome in the mouse forebrain. *ACS Chem Neuro.* 2015. Apr 15;6(4):615-31 (Underlines are co-corresponding author).
21*. Katherine M. Betke&, Kristie L. Rose, David B. Friedman, **Anthony J. Baucum II**, Karren Hyde, Kevin L. Schey, and Heidi E. Hamm. Differential localization of G protein βγ subunits. *Biochemistry.* 2014 Apr 15;53(14):2329-43.
20. Francis McCoy, Rashid Darbandi, Si-Ing Chen, Laura Eckard, Keela Dodd, Kelly Jones, **Anthony J. Baucum II**, Jennifer A. Gibbons, Sue-Hwa Lin, Roger J. Colbran, and Leta K. Nutt. Metabolic regulation of CaMKII and caspases in Xenopus laevis egg extracts. *J Biol Chem.* 2013 Mar 29;288(13):8838-48.
19. Shonesy BC, Wang X, Rose KL, Ramikie TS, Cavener VS, Rentz T, **Baucum AJ** 2nd, Jalan-Sakrikar N, Mackie K, Winder DG, Patel S, Colbran RJ. CaMKII regulates diacylglycerol lipase-α and striatal endocannabinoid signaling. *Nat Neurosci* 2013 Apr 16(4):456-63.
18. Anthony J. Baucum II, Abigail M. Brown, Roger J. Colbran. Differential association of postsynaptic signaling protein complexes in striatum and hippocampus. *J. Neurochem* 2013 Feb; 124(4):490-501
17. Nidhi Jalan-Sakrikar, Ryan K.Bartlett, **Anthony J. Baucum II**, and Roger J.Colbran. -Actinin differentially modulates CaMKII activity toward glutamate receptor subunits. *J Biol Chem.* 2012 May 4;287(19):15275-83
16. Anthony J. Baucum II, Stefan Strack, and Roger J. Colbran. Age-Dependent Targeting of Protein Phosphatase 1 to Ca^{2+}/Calmodulin-Dependent Protein Kinase II by Spinophilin in Mouse Striatum. *PLoS One.* 2012;7(2):e31554
15. Tiffany A. Wills, Jason R. Klug, Yuval Silberman, **Anthony J Baucum II**, Carl Weitlauf, Roger J. Colbran, Eric Delpire, and Danny G. Winder. Conditional GluN2B deletion reveals key role in acute and chronic ethanol sensitivity of glutamate synapses in dlBNST**.** *Proc Natl Acad Sci USA.* 2012 Jan 31;109(5):E278-87
14. Richard M. Gustin, Brian C. Shonesy, Stacey L. Robinson, Tyler J. Rentz, Nidhi-Jalan-Sakrikar, **Anthony J. Baucum II**, Danny G. Winder, Gregg D. Stanwood, Roger J. Colbran. Loss of Thr286 phosphorylation disrupts synaptic CaMKIIα targeting, NMDAR activity and behavior in pre-adolescent mice. *Mol Cell Neurosci*. 2011 Aug;47(4):286-92
13. Yuxia Jiao, Nidhi Jalan-Sakrikar, Alfred J. Robison, **Anthony J. Baucum II**, Martha A. Bass, Roger J. Colbran. Characterization of a central CaMKIIα/β-binding domain in densin that selectively modulates glutamate receptor subunit phosphorylation. *J Biol Chem*. 2011 Jul 15;286(28):24806-18.
12. Gregory C. Hadlock, Chad C. Nelson, **Anthony J. Baucum II**, Glen R. Hanson, Annette E. Fleckenstein. Ex vivo identification of protein-protein interactions involving the dopamine transporter. *J Neurosci Methods*. 2011 Mar 30;196(2):303-7.
11. Anthony J. Baucum II, Nidhi Jalan-Sakrikar, Yuxia Jiao, Richard M. Gustin, Leigh C. Carmody, David L. Tabb, Amy-Joan L. Ham, Roger J. Colbran. Identification and validation of novel spinophilin-associated proteins in rodent striatum using an enhanced ex vivo shotgun proteomics approach. *Mol Cell Proteomics*. 2010 Jun;9(6):1243-59.

10. Yelyzaveta A. Nikandrova, Yuxia Jiao, **Anthony J. Baucum II**, Steven J. Tavalin, Roger J. Colbran. CaMKII binds to and phosphorylates a specific SAP97 splice variant to disrupt association with AKAP79/150 and modulate AMPAR activity. *J Biol Chem.* 2010 Jan;8;285(2):923-34.
9. Thomas L. Kash, **Anthony J. Baucum II**, Kelly L. Conrad, Roger J. Colbran, and Danny G. Winder. Alcohol Exposure Alters NMDAR Function in the Bed Nucleus of the Stria Terminalis. *Neuropsychopharmacology.* 2009 Oct;34(11):2420-9.
8. M. Diana Neely, Elizabeth M. Roberts, **Anthony J. Baucum II**, Roger J. Colbran, E. Chris Muly III, and Ariel Y. Deutch. Localization of myocyte enhancer factor 2 in the rodent forebrain: Regionally-specific cytoplasmic expression of myocyte enhancer factor 2A. *Brain Res.* 2009 Jun 5;1274:55-65.
7. Gregory C. Hadlock, **Anthony J. Baucum II**, Jill L. King, Kristen A. Horner, Glen A. Cook, James W.Gibb, Diana G. Wilkins, Glen R. Hanson, Annette E. Fleckenstein. Mechanisms Underlying Methamphetamine-Induced Dopamine Transporter Complex Formation. *J Pharmacol Exp Ther*. 2009 Apr;329(1):169-74.
6. Abigail M. Brown, **Anthony J. Baucum II,** Martha A. Bass, Roger J. Cobran. Increased association with spinophilin selectively suppresses PP1 isoform activity in a Parkinson's Disease model. *J Biol Chem*. 2008 May 23;283(21):14286-14294.
5. Leigh C. Carmody, **Anthony J. Baucum II**, Martha A. Bass, Roger J. Colbran. Selective targeting of the {gamma}1 isoform of protein phosphatase 1 to F-actin in intact cells requires multiple domains in spinophilin and neurabin. *FASEB J.* 2008 Jun;22(6):1660-1671
4. Anitha B. Alex, **Anthony J. Baucum II,** Karen S. Wilcox. The effect of Conantokin G on NMDA receptor –mediated spontaneous EPSCs in cultured cortical neurons. *J Neurophysiol*. 2006 Sep;96(3):1084-92.
3. Kristi S. Rau, Elisabeth Birdsall, Trent J. Volz, James A. Riordan, **Anthony J Baucum, II**, Brian P. Adair, Rebecca Bitter, James A. Gibb, Glen R. Hanson, Annette E. Fleckenstein. Methamphetamine Administration Reduces Hippocampal VMAT-2 Uptake. *J Pharmacol Exp Ther.* 2006 Aug;318(2):676-82.
2. Anthony J. Baucum II, Kristi S. Rau, Evan L. Riddle, Glen R. Hanson, Annette E. Fleckenstein. "Methamphetamine Increases Dopamine Transporter Complex Formation via a Dopamine- and Hyperthermia-Associated Mechanism" *J Neurosci*. 2004 Mar 31;24(13):3436-3443.
1. Louis A. Cruz-Rodríguez, **Anthony J. Baucum II**, Phillipe Soudant, Fu-Lin E. Chu, Robert C. Hale. "Effects of PCBs sorbed to algal paste and sediments on the stress protein response (HSP70 family) in the eastern oyster, Crassostrea virginica." *Mar Env Res.* 2000 Jul-Dec;50 (1-5): 341-345.
REVIEWS AND BOOK CHAPTERS
3*. Anthony J. Baucum II. Proteomic analysis of postsynaptic protein complexes underlying neuronal plasticity (review). *ACS Chemical Neuroscience.* 2017 Apr 19;8(4):689-701.
2. A.J. Baucum, Z. Clarke, A. Fleckenstein. MDMA. *xPharm: The Comprehensive Pharmacology Reference* 2011 | book chapter
1. A.J. Baucum, R.J. Colbran. Dendritic protein phosphatase complexes. *Handbook of Cell Signaling, 2/e***.**
ABSTRACTS – Posters/Invited Conference Talks
LOCAL
24*†. Asma B. Salek, Michael .C. Edler, Jonathon. McBride, **A.J. Baucum II**. Regulation of NMDA Receptor phosphorylation and function by PP1 targeting protein, Spinophilin and its effect on ischemic cell death. Indiana CTSI annual meeting, Indianapolis, IN. 2019. **Asma won a poster award for her presentation.
23*†. Darryl S. Watkins, **A.J. Baucum II.** Spinophilin and Amphetamine Dependent Regulation of Striatal MSN Function. Stark Neurosciences Research Symposium. July 30, 2019. **Darryl's abstract was selected for a short presentation
22*†. C. W. Morris, Darryl S. Watkins, Anthony J. Baucum II. (2019) The spinophilin, SAPAP3, and mGlu5 complex as a potential regulatory node of obsessive-compulsive disorder-like behavior. Stark

Summer Science Symposium, August 2019, Stark Neurosciences Research Institute, Indianapolis, IN 46202
21*†. David Perez-Herrera, C. W. Morris, and Anthony J. Baucum II. (2019) Biochemical mechanisms underlying striatal-dependent OCD-like behaviors. Summer Research Program Poster Session, July 2019, Center for Research and Learning, Indianapolis, IN 46202.
20*†. Darryl S. Watkins, **A.J. Baucum II.** Cell-specific spinophilin function following exposure to drugs of abuse. Greater Indiana Society for Neuroscience Regional meeting, Indianapolis, IN. 2019
19*†. A.B. Salek &, M.C. Edler, J. McBride, **A.J. Baucum II**. Regulation of NMDA Receptor function and phosphorylation by PP1 targeting protein, Spinophilin. Greater Indiana Society for Neuroscience Regional meeting, Indianapolis, IN. 2019
18*†. A.B. Salek &, M.C. Edler, J. McBride, **A.J. Baucum II**. Regulation of NMDA Receptor function and phosphorylation by PP1 targeting protein, Spinophilin. Eli Lilly and company. Indianapolis, IN. 2019.
17*†. A.B. Salek &, J.P. McBride, M.C. Edler Jr., **A.J. Baucum II**. Spinophilin dependent regulation of GluN2B phosphorylation of NMDA Receptors. Spinal Cord & Brain Injury Research symposium, December 2017
16*†. K.C. Stickel, D.S. Watkins, M.C. Edler, S. Dharmarajan, T.L. Belecky-Adams, N.F. Berbari, T.L. Mastracci, **A.J. Baucum II**. Altered spinophilin interactions in the pancreas of a leptin receptor mutant (*db/db*) model of obesity. Center for Diabetes and Metabolic Diseases Diabetes Day, August 4th, 2017.
15*. R. Bansal, S.E. Engle, P.J. Antonellis, T. Master, **A.J. Baucum II**, T.R. Cummins, N.F. Berbari. Primary hypothalamic neuronal culture for assessing primary cilia associated signaling. Center for Diabetes and Metabolic Diseases Diabetes Day, August 4th, 2017.
14*†. D.S. Watkins, **A.J. Baucum II.** Cell-specific spinophilin function following exposure to drugs of abuse. Greater Indiana Society for Neuroscience Regional meeting. 3/31/2017.
13*†. K.C. Stickel, D.S. Watkins, M.C. Edler, S. Dharmarajan, T.L. Belecky-Adams, N.F. Berbari, T.L. Mastracci, **A.J. Baucum II**. Altered spinophilin interactions in the pancreas of a leptin receptor mutant (*db/db*) model of obesity. Greater Indiana Society for Neuroscience Regional meeting. 3/31/2017.
12*†. A.B. Salek, J. McBride, M.C. Edler, **A.J. Baucum II**. Mechanisms underlying spinophilin dependent regulation of PP1 association with the NMDA receptor. Greater Indiana Society for Neuroscience Regional meeting. 3/31/2017.
11*†. H. Kaur and **A.J. Baucum II**. The neuronal protein phosphatase 1 targeting proteins, spinophilin and neurabin associate with the tumor suppressor protein, SRCIN1. Greater Indiana Society for Neuroscience Regional meeting. 3/31/2017.
10*†. C.W. Morris, M.C. Edler, **A.J. Baucum II.** Molecular Cascades and Potential Implications of the Spinophilin and SAPAP3 Interaction on Basal Ganglia Disorders. 22nd Annual Indiana University Undergraduate Research Conference 2016. Cameron was selected as a finalist for the best abstract award.
9*†. A.B. Salek, J.P. McBride, M.C. Edler Jr., **A.J. Baucum II**. Does spinophilin play a role in alteration of NMDAR phosphorylation? Indianapolis Society for Neuroscience regional meeting. 2016.
8*†. C. W. Morris, M. C. Edler, **A. J. Baucum II.** Mechanisms underlying synaptic protein complex formation in Parkinson's disease and obsessive-compulsive disorder. Indianapolis Society for Neuroscience regional meeting. 2016.
7*†. C. W. Morris, M. C. Edler, **A. J. Baucum II**. Spinophilin Association with SAPAP3 is regulated by Dopamine Depletion, mGluR5, and PKC. IUPUI International Scientific Exchange Symposium and Poster Session, October 2015.
6*†. C.W. Morris, M. C. Edler, **A. J. Baucum II**. (2015) PKC Regulates the SAPAP3 and Spinophilin Association. Summer Research Program Poster Session, July 2015, Center for Research and Learning,

5*†. M. Thang, Cameron W. Morris, and **Anthony J. Baucum II**. (2015). Mechanisms Regulating the Interaction of Spinophilin with PSD-95: Implications in Neurodegenerative Disease. Summer Research Program Poster Session, July 2015, Center for Research and Learning.
4*†. C.W. Morris, M. C. Edler, **A. J. Baucum II**. (2015) mGluR5 Dependent Regulation of the SAPAP3 and Spinophilin Interaction. Honors Capstone Research Poster Session, May 2015, Department of Psychology.
3*†. C.W. Morris, M. C. Edler, **A. J. Baucum II**. (2015) mGluR5 Dependent Regulation of the SAPAP3 and Spinophilin Interaction. Indiana University-Purdue University Research Day Poster Symposium, April 2015, Center for Research and Learning, Indianapolis, IN 46202
2*†. C.W. Morris, M. C. Edler, **A. J. Baucum II**. (2015) Research in the Baucum Laboratory. Hoosier Association of Science Teachers Inc. Poster Session, February 2015, IUPUI Undergraduate Recruitment
1*†. A.C. Hiday and **A.J. Baucum II**. Phosphorylation state modulates the interaction between neurofilament medium and spinophilin. Indianapolis Society for Neuroscience Meeting. 2014.
REGIONAL
5*†. **A.B. Salek**, V. Olafousi, J.P. McBride, M.C. Edler Jr., **A.J. Baucum II**. Regulation of NMDA Receptor phosphorylation by PP1 targeting protein, Spinophilin. Gill symposium, Bloomington, IN. September 2018
4*. R. Bansal, S.E. Engle, J. Crawford, P.J. Antonellis, M.C. Edler, **A.J. Baucum II** and N.F. Berbari. Understanding the role of hypothalamic primary cilia in Hh signaling pathway. (September 2016). Gill Symposium. Bloomington, Indiana, USA
3*†. C.W. Morris, M.C. Edler, **A.J. Baucum II.** Mechanisms regulating the Sapap3 and Spinophilin interaction: Implications in PD and OCD. Midwest Undergraduate Cognitive Science Conference 2016. Abstract selected for a talk.
2*†. C. W. Morris, M. C. Edler, **A. J. Baucum II.** Mechanisms underlying synaptic protein complex formation in Parkinson's disease and obsessive-compulsive disorder. IUPUI Research Day 2016
1*†. M. Thang, Cameron W. Morris, and **Anthony J. Baucum II**. Mechanisms Regulating the Interaction of Spinophilin with PSD-95: Implications in Neurodegenerative Disease. Louis Stokes Midwest Center of Excellence Annual Conference. 2016.
NATIONAL
73*†. C.W. Morris, D.S. Watkins, **A.J. Baucum II.** Conditional spinophilin knockout mice as a novel model for detailing striatal MSN-specific mechanism underlying rodent repetitive behavior. Society for Neuroscience 2021 Virtual connectome.
72*† * W. Corey, **A.J. Baucum II.** Generation of transgenic tools to delineate striatal neurabin function. Society for Neuroscience 2021 Virtual connectome. P106.09.
71*†. K.C. Stickel, D.S. Watkins, **A.J. Baucum II.** Altered spinophilin interactions in the hypothalamus and pancreas of a leptin receptor mutant (db/db) model of obesity. Society for Neuroscience Meeting, Chicago, IL. 2019. 591.19
70*†. C.W. Morris, D.S. Watkins, **A.J. Baucum II.** The spinophilin, SAPAP3, and mGlu5 complex as a potential regulatory node of obsessive-compulsive disorder-like behavior. Society for Neuroscience Meeting, Chicago, IL. 2019. 369.06
69*†. D.S. Watkins, **A.J. Baucum II.** Cell-specific spinophilin function following psychostimulant-induced behavioral sensitization regimens. Society for Neuroscience Meeting, Chicago, IL. 2019. 239.05
68*†. Asma B. Salek, Michael .C. Edler, Jonathon. McBride, **A.J. Baucum II.** NMDAR phosphorylation and function is regulated by PP1 targeting protein, spinophilin. Society for Neuroscience Meeting, Chicago, IL. 2019. 118.09
67*. Agnes Zybura, **A.J. Baucum II**, Theodore R. Cummins, Andy Hudmon. CaMKII modulates hNav1.6 sodium currents at multiple phosphorylation sites. Society for Neuroscience Meeting, Chicago, IL. 2019. 035.08

66*†. Darryl S. Watkins, **A.J. Baucum II**. Cell-specific spinophilin function following psychostimulant-induced behavioral sensitization regimens. Gordon Research Conference on Excitatory Synapses and Brain Function, Manchester, NH. 2019
65*†. Asma B. Salek, Michael .C. Edler, Jonathon. McBride, **A.J. Baucum II**. Regulation of NMDA Receptor phosphorylation and function by PP1 targeting protein, Spinophilin. Gordon Research Conference on Excitatory Synapses and Brain Function, Manchester, NH. 2019
64*†. Darryl S. Watkins, **A.J. Baucum II**. Cell-specific spinophilin function following psychostimulant-induced behavioral sensitization regimens. NIDA Scholar Professional Development Workshop. April 9, 2019.
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62*†. A.B. Salek, J. McBride, M.C. Edler, **A.J. Baucum II.** Regulation of NMDA Receptor phosphorylation by PP1 targeting protein, spinophilin. Society for Neuroscience Meeting, San Diego CA. **O*ral presentation at a Nanosymposium***. 539.13
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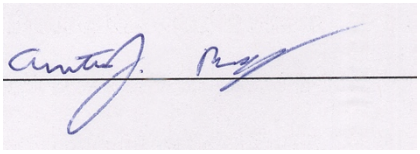

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