

August, 2011

CURRICULUM VITAE

Aurelio Galli, Ph.D.

Business Address: Vanderbilt Univ.
Department of Mol. Physiol. and Biophy.
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EDUCATION

10/98 Ph.D., Department of Physiology and Biochemistry,
State University of Milan, Milan, Italy.

7/91 D.Sc., Department of Physiology and Biochemistry,
State University of Milan, Milan, Italy.
(Advisor: Arnaldo Ferroni, M.D., Ph.D.)
Thesis Title: "Ability of Ca²⁺ Channels to Carry Current During
the Nervous Action Potential".

EMPLOYMENT EXPERIENCE

7/05- present Associate Professor; Department of Mol. Physiol. and Biophy.
Vanderbilt University
Nashville, TN

8/02 – 7/05 Assistant Professor; Department of Mol. Physiol. and Biophy.
Vanderbilt University
Nashville, TN

3/99 – 8/02 Assistant Professor; Department of Pharmacology,
University of Texas at San Antonio, H.S.C.
San Antonio, TX

5/95 - 3/99 Research Instructor; Department of Pharmacology,
Vanderbilt University
Nashville, TN

9/93 - 4/95 Visiting Scientist; Department of Anatomy
And Cell Biology, Emory University
Atlanta, GA

7/91 - 8/92 Research Associate, Department of Neuropharmacology,
Institute of Pharmacological Research, "Mario Negri"
Milan, Italy

8/89 - 2/91 Teaching Assistant, Department of Physiology and Biochemistry,
State University of Milan
Milan, Italy

ACADEMIC COMMITTEES

06/09-09/09 IGP Review Committee

05/09-04/10 Investigating Committee School of Engineering/misconduct case

09/08- DRTC Search Committee

03/08 Bridge Feasibility Committee

01/08-08/08 Dept. of Pharmacology Search Committee

01/07-08/09 Spickard Addiction Chair Search Committee

03/07	Basic Science Department Discussion
06/04 -	Departmental Committee. Review of Qualifying Exam Abstracts
04/04 -	Departmental Committee on Graduate Studies (GEC)
03/05	LCME Site Visit Committee
2/04	Vanderbilt VUMC Intramural Discovery Grant Program
12/03	Vanderbilt VUMC Intramural Discovery Grant Program
04/03 – 06/03	Vanderbilt DANA Proposal Planning Committee. Planning of an Interdisciplinary proposal to be submitted to the DANA foundat.
08/02 – 12/02	Conference Planning Committee. Vanderbilt University Summer Conferences: “Frontiers in addiction biology: Genomics and beyond”.
03/02	U.T.H.S.C.S.A. Departmental Committee on Faculty Development
08/01 – 06/02	U.T.H.S.C.S.A. Departmental Committee on Graduate Studies
04/01 – 07/01	U.T.H.S.C.S.A. Coordinator of International Services Search Committee
10/99 – 10/01	U.T.H.S.C.S.A. Seminar Series Coordinator
11/00 – 1/01	U.T.H.S.C.S.A. Departmental Web Page Committee
02/00 – 04/01	U.T.H.S.C.S.A. Departmental Plan Committee (Brain Bowl)

TEACHING EXPERIENCE

04/09-	Course Director “Electrophysiology for Biologist” IGP class.
07/07-05/08	Mentor Charlie Xie, High School MLK. First Place TN, Junior Academy of Science, Second Place Intel International Science and Engineering Fair.
03/08	Lecture for graduate students; “IGP Neuroscience” Vanderbilt University, Nashville, TN.

01/07 Lecturer for graduate students; "FlexTime Group"
Vanderbilt University, Nashville, TN.

03/06 Lecturer for graduate students; "Psychotropic Drugs Course".
Vanderbilt University, Nashville, TN.

01/06 Lecturer for medical students; "Medical Physiology"
Vanderbilt University, Nashville, TN.

03/05 Lecturer for graduate students; "Psychotropic Drugs Course".
Vanderbilt University, Nashville, TN.

01/05 Independent Study; Liza Nikandrova, MPB Graduate Student.
Vanderbilt University, Nashville, TN.

01/05 Lecturer for medical students; "Medical Physiology"
Vanderbilt University, Nashville, TN.

02/05 Lecturer for graduate students; "Excitable Membrane Class"
Vanderbilt University, Nashville, TN.

09/04 – 08/05 Provocateur; Neuroscience Research Forum.
Vanderbilt University, Nashville, TN.

04/04 Lecturer for sophomores; "Research Explorers"
Vanderbilt University, Nashville, TN.

04/04 Chair; "Introduction to Biomedical Research"
Vanderbilt University, Nashville, TN.

01/04 Lecturer for graduate students; "FlexTime Group"
Vanderbilt University, Nashville, TN.

01/04 Lecturer for medical students; "Medical Physiology"
Vanderbilt University, Nashville, TN.

09/03 – 08/04 Provocateur; Neuroscience Research Forum.
Vanderbilt University, Nashville, TN.

12/03 Lecturer for graduate students; "I.G.P. Neuroscience Section"
Vanderbilt University, Nashville, TN.

01/03 – 02/03 Lecturer for graduate students; "Psychotropic Drugs Course".
Vanderbilt University, Nashville, TN.

09/02 – 12/02	Provocateur; Molecular Neuroscience Journal Club. Vanderbilt University, Nashville, TN.
06/01	Lecturer for undergraduate students; “Pharmacology Laboratory” University of Texas H.S.C. San Antonio.
8/01 - 12/01	Lecturer for graduate students; "Cell and Molecular Physiology". University of Texas H.S.C. San Antonio.
08/01	Lecturer for Post Docs; "Lab. Management". University of Texas H.S.C. San Antonio.
04/01	Lecturer for graduate students; "Molecular Pharmacology". University of Texas H.S.C. San Antonio.
8/00 - 12/00	Lecturer for graduate students; "Cell and Molecular Physiology". University of Texas H.S.C. San Antonio.
8/99 - 12/99	Lecturer for graduate students; "Cell and Molecular Physiology". University of Texas H.S.C. San Antonio.
2/97 - 3/97	Lecturer for graduate students; "Excitable Membranes". Vanderbilt University, Nashville, TN.
11/96 - 11/97	Provocateur; Graduate Student Weekly Seminar Series. Vanderbilt University, Nashville, TN.
1/96 - 1/97	Training course in electrophysiology for graduate students. Vanderbilt University, Nashville, TN.
9/93 - 4/95	Training course in electrophysiology for graduate students. Emory University, Atlanta, GA.
1/92 - 3/92	Lecturer, "General Physiology II" Department of Physiology and Biochemistry, State University of Milan, Milan, Italy

QUALIFYNG EXAMS

2005

1. Brad Alan Grueter. M.P.B. Vanderbilt University
2. Butch Granada. M.P.B. Vanderbilt University
3. Yelyzaveta Nikandrova. Vanderbilt University
4. Sepan Amadi. Vanderbilt University

2006

5. Heather Gosnell. Vanderbilt University
6. Angela Shields. Vanderbilt University
7. Mengnan Tian. Vanderbilt University
8. David Lund. Vanderbilt University
9. Julie Field. Vanderbilt University

2007

10. Ezelle Teresa McDonald. Vanderbilt University
11. Laurel Hoffman. Vanderbilt University
12. Sonya Dave. Vanderbilt University
13. Dhananjay Sakrikar. Vanderbilt University

2008

14. Alessandro Ustione
15. Bill Nobis
16. Patrick Jones
17. Heidi Kocalis

2009

18. Marquicia Reginee Pierce
19. Marc Andrew Mergy
20. Charles Asher Day

2010

21. Rachel Lippert
22. Nora Kayton
23. Jinlong Ding

DOCTORAL COMMITTEES

1. Amanda Vanhose. M.P.B. Vanderbilt University
2. Brad Alan Grueter. M.P.B. Vanderbilt University.
3. Kevin Choo. Vanderbilt University. (Masters committee)
4. Michelle Suzanne Mazei. Pharmacology. Vanderbilt University
5. Daniele Provenzano. Microbiology. U.T.H.S.C.S.A.
6. Kris M. Kahlig. Ph.D. Advisor. Pharmacology. U.T.H.S.C.S.A.
7. Jasmine Ferrer. Center for Molecular Recognition. Columbia University
8. Rajkumar Sevak. Pharmacology. University of Texas HSCSA.
9. Leomar Ballester. Pharmacology. Vanderbilt University
10. Jennifer Steiner. Neuroscience. Vanderbilt University
11. Adeola Davis. Physiology. Vanderbilt University
12. Erica Bowton. Neuroscience. Vanderbilt University
13. Julie Field. Neuroscience. Vanderbilt University.
14. Derek Claxton. Physiology. Vanderbilt University.
15. Angela Shields. Physiology. Vanderbilt University.

In progress

1. Heather Gosnell. Physiology. Vanderbilt University.

2. Alessandro Ustione. Physiology. Vanderbilt University.
3. Patrick Jones. Biological Sciences
4. Laurel Hoffman. Physiology. Vanderbilt University
5. Dhananjay Sakrikar. Neuroscience. Vanderbilt University
6. Mengnan Tian. Pharmacology. Vanderbilt University
7. Marc Mergy. Neuroscience. Vanderbilt University
8. Pask Gregory Mark. Biological Sciences
9. Marquicia Pierce. Physiology. Vanderbilt University
10. Rachel Lippert. Physiology. Vanderbilt University
11. Andrew Hardaway. Neuroscience. Vanderbilt University

ADDITIONAL STUDENT TRAINEES

1. Brandon Lute. Neuroscience. Vanderbilt University. (Ph.D. Advisor)
2. Pedro Francisco Andollo. Neuroscience Undergraduate Vanderbilt University.
3. Concetta di Pace. University of Bari.
4. Francesca Binda. University of Insubria.
5. Andrea T. Quiroga. Pharmacology. U.T.H.S.C.S.A.
6. Thomas M. Austin Jr. I.B.R. Vanderbilt
8. Erica Bowton. Neuroscience. Vanderbilt University. (Ph.D. Advisor)
9. Kris M. Kahlig. Pharmacology. U.T.H.S.C.S.A. (Ph.D. Advisor)
10. Sabrina Doughty. Neuroscience. Vanderbilt. (Ph.D. Advisor)
11. Jessica Moore. Neuroscience. Vanderbilt. (Ph.D. Advisor)
12. Charlie Xie. MLK. Nashville, TN.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATES

1. Jose A. Moron
2. Lucia Carvelli
3. Hongwei Wang
4. Habibeh Khoshbouei
5. Francesca Binda
6. Concetta DiPace
7. Jason Williams
8. Kevin Erreger
9. Kris Kahlig
10. Christine Saunders
11. Heinrich J. G. Matthies
12. Etienne Cartier
13. Adeola Davis

VISITING SCIENTISTS

- Toni S. Shippenberg. NIDA. Baltimore, MD.
Rymond Mohaghegh. Meharry Medical College. Nashville, TN.

Timothy Angelotti. Stanford University. Stanford, CA.
Craig Gatto. Illinois State University, Normal, IL.

ADVISORY COMMITTEES

Advisor to Dr. Timothy Angelotti (K08 Award). Assistant Prof. Stanford University. (2004-2007).

GRANT REVIEWER

NIH Study Section **ZDA1RXL-E(18)** 05

NIH Study Section **ZDA1RXL-E(23)** 05

NIH Study Section **NTRC** (member) 06-10

NIH Study Section **BSCT** 06

NIH Study Section **ZDA1 RXL-E(24)** 06

NIH Study Section **ZDA1 MXS-M (17)** 07

NIH Study Section **ZDA1 RXL-E 30 (1)** 07

NIH Study Section **ZDA1 RXL-E (11)** 07

Austrian Science Fund (Austrian NIH) 04-07

Vanderbilt VUMC Intramural Discovery Grant Program.

NIDA. CEBRA Program. Ad Hoc Member

NARSAD

Harry Frank Guggenheim foundation 05

Nicholas Hobbs Discovery Grant 10-

HONORS AND AWARDS

Young Investigator at the 20th Biennial Meeting of the International Society for Neurochemistry in Innsbruck in 2005

Freedman Award. For an Outstanding Research. NARSAD: 2001

Lyndon Baines Johnson Research Award. Most Outstanding Research. (American Heart Association).

NARSAD Young Investigator Award: 7/99 - 6/2001

Howard Hughes Medical Institute Award: 3/99 – 2/00

NARSAD Young Investigator Award: 7/97 - 6/99

Bursary Recipient, EU TMR Euroconference on Neuronal Transporters. Dublin, Ireland
State University of Milan: *Laude* (110/110) (Thesis Dissertation)

ACTIVITIES

Southeastern ASPET Meeting: Organizer - September, 1998; Nashville, TN

Frontiers in Addiction Biology: Genomics and Beyond: Organizer - May, 2004; Nashville, TN

Co-chair slide section Serotonin Transport II, Neuroscience Meeting, October, 2004; San Diego, CA.

EDITORIAL

Biochemistry, Journal of Neurochemistry, Journal of Biological Chemistry, Journal of Neuroscience, Neuropsychopharmacology, News in Physiological Sciences, Biological Psychiatry.

FUNDING

Active:

RO1 (NIDA) DA13975 (Galli) 04/01/01 - 06/30/11
“Amphetamine regulation of dopamine transport”

NCE

Transformative RO1 (NIH) DK085712 (Galli/Niswender) 10/1/09 - 08/31/2014
“Insulin regulation of monoamine signaling: pathway to obesity”

PO1 (NIDA) DA12408 (Galli component) 3/31/2011-4/1/2016
“Structure and Function of Neurotransmitter Transporter”

Past:

NARSAD (National Alliance for Research on Schizophrenia and Depression) Young Investigator Award

Beginning Grant-in-Aid, American Heart Association, Texas Affiliate’s

Howard Hughes Medical Institute Award

NARSAD Young Investigator Award

Peter F. McManus Charitable Trust

Fellows with Funding

Kevin Erreger: K99-NARSAD

Michael Siuta: NRSA

Peter Hamilton: NSF

PUBLICATIONS

Papers

1. Mazzanti, M., **Galli, A.**, Ferroni, A. Increase of firing rate modulates L-type Ca²⁺ channels in adult neurons. *Biophys. J.* **63**:926-934. (1992).
2. Vezzani, A., Monno, A., Rizzi, M., **Galli, A.**, Barrios, M., Samanin, M. Somatostatin release is enhanced in the hippocampus of partially and fully kindled rats. *Neuroscience* **51**:41-46. (1992).
3. **Galli, A.**, Ferroni, A., Bertollini, L., Mazzanti, M. Extracellular Ca²⁺ inactivates single Ca²⁺ channels in rat sensory neurons. *J. Physiol.* **477**:15-26. (1994).
4. **Galli, A.**, DeFelice, L.J. Inactivation of L-type Ca²⁺ channels in embryonic chick ventricle cells: dependence on the cytoskeletal agents colchicine and taxol. *Biophys. J.* **67**:2296-2304. (1994).
5. **Galli, A.**, DeFelice, L.J., Duke, B.J., Moore, K.R., Blakely, R.D. Sodium-dependent norepinephrine-induced currents in norepinephrine transporter transfected HEK293 cells blocked by cocaine and antidepressants. *J. Exp. Biol.* **198**:2197-2212. (1995).
6. **Galli, A.**, DeFelice, L.J., Blakely, R.D. Norepinephrine transporters have channel modes of conduction. *Proc. Natl. Acad. Sci. USA.* **93**(16):8671-8676. (1996).
7. Ferroni, A., **Galli, A.**, Mazzanti, M. Dihydropyridine sensitive Ca²⁺ channels open at low voltages after fast depolarization. *Pflug. Arch.* **431**:954-963. (1996).
8. Qian, Y., **Galli, A.**, Ramamoorthy, S., Risso, S., DeFelice, L.J., Blakely, R.D. Protein kinase C activation regulates human serotonin transporters in HEK293 cells via altered cell surface expression. *J. Neurosci.* **17**(1):45-47. (1997).
9. **Galli, A.**, Petersen, C.I., deBlaquerie, M., Blakely, R.D., DeFelice, L.J. Drosophila serotonin transporters have voltage-dependent uptake and conduct serotonin in a channel mode.

J. Neurosci. **17(10)**:3401-3411. (1997).

10. **Galli, A.**, Blakely, R.D., DeFelice, L.J. Patch-clamp and amperometric recordings from norepinephrine transporters: Channel activity and voltage-dependent uptake. *Proc. Natl. Acad. Sci. USA.* **95(22)**: 13260-13265. (1998). See commentary PNAS **95(22)**: 12737-12738.

11. Apparsundaram, S., **Galli, A.**, DeFelice, L.J., Hartzell, H., Blakely, R.D. Acute regulation of norepinephrine transport: Protein kinase C-linked muscarinic receptors influence transport capacity and transport density in SK-N-SH cells. (*J.P.E.T.*). **287**: 733-743. (1998).

12. **Galli, A.**, Lankupalle, D.J., Ramsey, I.S., Miller, J.W., Fremerey, R.T., DeFelice, L.J. L-Proline and L-Pipecolate induce enkephalin-sensitive currents in HEK-293 cells transfected with the high affinity mammalian brain L-proline transporter. *J. Neurosci.* **19(15)**: 6290-6297. (1999).

13. Saunders, C., Ferrer, J.V., Shi, L., Chen, J., Merrill, G., Lamb, ME., Leeb-Lundberg, L.M.F., Carvelli, L., Javith, J.A., **Galli, A.** Amphetamine-induced loss of human dopamine transporter activity: an internalization-dependent and cocaine-sensitive mechanism. *Proc. Natl. Acad. Sci. USA.* **97(12)**: 6850-6855. (2000).

14. Carvelli, L., Moron, J., Kahlig, K., Ferrer, J.V., Sen, L., Lechleiter, J.D. Leeb-Lundberg, L.M.F., Merrill, G., Lafer, E.M., Ballou, L.M., Shippenberg, T., Javitch, J.A., Lin, R.Z. and **Galli, A.** PI 3-Kinase regulation of dopamine Uptake. *Journal of Neurochemistry.* **81(4)**: 859-869. (2002).

15. Daws, L.C., Callaghan, P.D., Morón, J., Kahlig, K.M., Shippenberg, T.S., Javitch, J.A., **Galli, A.** Cocaine-evoked trafficking of the dopamine transporter causes a time-dependent increase in dopamine uptake. *Biochemical and Biophysical Research Communications* **290**: 1545-1550 (2002).

16. Clemons, A.P., Holstein, D.L., **Galli, A.**, Saunders, C. Inhibition of MEK1/2 by PD98059 and UO126 rescues cerulein-induced acute pancreatitis in the rat. *Pancreas* **25(3)**:251-9 (2002)

17. Galici, R., **Galli, A.**, Jones, D.J., Sanchez, T.A., Saunders, C., Frazer, A., Gould, G.G., Lin, R.Z., France, C.P. Selective decreases in amphetamine self-administration and regulation of dopamine transporter function in diabetic rats. *Neuroendocrinology* **77(2)**: 132-140. (2003).

18. Morón, J., Ferrer, J.V., Merrill, G.A., Uhl, G., Lafer, E.M., Lin, Z.C., Javitch, J.A., ***Galli, A.**, *Shippenberg, T.S. Regulation of dopamine transporter capacity and cell surface expression by mitogen activated protein kinase. *J. Neurosci.* **23(24)**: 8480-8488. (2003). ***These authors contributed equally to this work.**

19. Sung, U., Apparsundaram, S., **Galli, A.**, Kahlig, K.M., Savchenko, V., Schroeter, S., Quick, M.W., Blakely, R. A regulated interaction of syntaxin 1A with the antidepressant-sensitive norepinephrine transporter establishes catecholamine clearance capacity. *J. Neurosci.* **23(5)**: 1697-1709. (2003).

20. Khoshbouei, H., Wang, H., Lechleiter, J.D., Javitch, J.A., **Galli, A.** Amphetamine-induced DA-efflux: a voltage sensitive and intracellular Na⁺-dependent mechanism. *J. Biol. Chem.*

278(14): 12070-12077. (2003).

21. Kahlig, K.M., Javitch, J.A., **Galli, A.** Amphetamine regulation of the human dopamine transporter activity: a time-dependent trafficking process. *J. Biol. Chem.* 279(10): 8966-8975. (2004).

22. Khoshbouei, H., Sen, N., Guptaroy, B., Johnson, L., Lund, D., Gnegy, M.E., ***Galli, A., *Javitch, J.A.** N- terminal phosphorylation of the dopamine transporter is required for amphetamine-induced efflux. ***These authors contributed equally to this work.** *PLoS Biology.* 2(3): 0387-0393. (2004).

23. Gnegy, M. E., Khoshbouei, H., Berg, K. A., Javitch, J. A., Clarke, W. P., Zhang, M., **Galli, A.** Intracellular Ca²⁺ regulates amphetamine-induced dopamine efflux and currents mediated by the human dopamine transporter. *Mol. Pharm.* 66(1): 137-143. (2004).

24. Kahlig, K.M., Binda, F., Khoshbouei, H., Blakely, RD., McMahon, DG., Javitch, J.A., **Galli, A.** Amphetamine induces dopamine efflux through a transporter channel. *Proc. Natl. Acad. Sci.* 102: 3495-3500. (2005).

25. Garcia, B., Wei, Y., Moron, J.A., Javitch, J.A., Lin, R.Z., **Galli, A.** Akt is Essential for Insulin Modulation of Amphetamine-Induced Human Dopamine Transporter Cell-Surface Redistribution. *Mol. Pharm.* **68(1)**: 102-109. (2005).

26. Owens, WA., Sevak, RJ., Galici, R., Chang, X., Javors, MA., **Galli, A.,** France, CP., Daws, LC. Deficits in dopamine clearance and locomotion in hypoinsulinemic rats unmask novel modulation of dopamine transporters by amphetamine. *J. Neurochem.* **94(5)**: 1402-1410. (2005).

27. Binda F., Lute BJ., Dipace C., Blakely, RD., **Galli A.** The N-terminus of the norepinephrine transporter regulates the magnitude and selectivity of the transporter-associated leak current. *Neuropharmacology.* **102(9)**:3495-500. (2006).

27. Kahlig KM, Lute BJ, Wei Y, Loland CJ, Gether U, Javitch JA, **Galli A.** Regulation of dopamine transporter trafficking by intracellular amphetamine. *Mol. Pharm.* **70(2)**:542-8. (2006)

28. Fog, J.U., Khoshbouei, H., Holy, M., Bjerggaard, C., Bowton, EA., Sitte, H., Colbran, R.J., ***Javitch, J.A., *Galli, A., *Gether, U.** ***These authors contributed equally to this work.** Calmodulin kinase II interacts with the dopamine transporter C-terminus to regulate amphetamine-induced reverse transport. *Neuron.* **51**: 417-429. (2006).

29. Sevak, RJ., Owens, WA., **Galli, A.,** Daws, LC., France,CP. Evidence for D2 receptor mediation of amphetamine-induced normalization of locomotion and dopamine transporter function in hypoinsulinemic rats. *J. Neurochem.* **101(1)**:151-9. (2007).

30. Dipace, C., Sung U., Binda F., ***Blakely R.D., *Galli A.** Amphetamine induces a calcium/calmodulin-dependent protein kinase II-dependent reduction in norepinephrine transporter surface expression linked to changes in syntaxin 1A/transporter complexes. ***These**

authors contributed equally to this work. *Mol Pharm.* **71**(1):230-9. (2007).

31. Wei Y., Williams J.M., Javitch J.A., **Galli A.**, Saunders C. Amphetamine, but not cocaine, attenuates Akt activity in hDAT-expressing cells and striatal synaptosomes. *Mol Pharm.* **71**(3):835-842. (2007)

32. Sevak, R., Koek, W., **Galli, A.**, France, CP. Insulin replacement restores the behavioral effects of quinpirole and raclopride in streptozotocin-treated rats. *JPET.* **320**(3):1216-23. (2007).

33. Williams, J.M, Owens, W.A., Turner, G.H., Blakely, R.D., France, C.P., Gore, J.C., Avison, M.J., Daws, L.C., **Galli, A.** In vivo effects of insulin on dopaminergic function and amphetamine pharmacology. *PLoS Biology.* **5**(10):2369-78. (2007).

34. Erreger, K., Grewer, C., Javitch, JA., **Galli, A.** Amphetamine induces a rapidly desensitizing inward current through the human dopamine transporter. *J. Neurosci.* **28**(4):976-89. (2008).

35. Sevak RJ, Koek W, Daws LC, Owens WA, **Galli A**, France CP. Behavioral effects of amphetamine in streptozotocin-treated rats. *Eur J Pharmacol.* **581**(1-2):105-12. (2008).

36. *Mazei-Robison MS,*Bowton E, Holy M, Schmudermaier M, Freissmuth M, Sitte HH, **#Galli A**, #Blakely RD. **# These authors contributed equally to this work.** Dopamine transporter coding variant Ala559Val associated with attention deficit hyperactivity disorder (ADHD) causes alteration of dopamine efflux. *J. Neurosci.* **28**:7040-7046. (2008). *Noted in Science, Editor's choice-citation and J. Neurosci, This Week in the Journal.*

37. Binda, F., Dipace, C., Bowton, EA., Lute, BJ., Fog, JU., Zhang, M., Sen, N., Colbran, RJ., Gnegy, ME., Gether, U., Javitch, JA, Erreger, K., **Galli, A.** Syntaxin1A Interaction with the Dopamine Transporter Promotes Amphetamine-Induced Dopamine Efflux. *Mol. Pharm.* **74**(4):1101-8. (2008).

38. Sevak RJ., Koek W., Owens WA., **Galli A.**, Daws LC., France CP. Feeding conditions differentially affect the neurochemical and behavioral effects of dopaminergic drugs in male rats. *Eur J Pharmacol.* **592**(1-3):109-15. (2008).

39. Lute BJ, Khoshbouei H, Saunders C, Sen N, Lin RZ, Javitch JA, **Galli A.** PI3K signaling supports amphetamine-induced dopamine efflux. *Biochemical and Biophysical Research Communications.* **372** (4):656-61. (2008).

40. Guptaroy B., Zhang M., Bowton E., Binda F., Shi L., Weinstein H., **Galli A.**, Javitch JA., Neubig RR., Gnegy ME. A juxtamembrane mutation in the N terminus of the dopamine transporter induces preference for an inward-facing conformation. *Mol. Pharm.* **75**(3):514-24.

(2009).

41. Matthies HJG., Han, Q., Shields, A.D., Wright, J., Moore, J.L., Winder, D.G., **Galli, A.**, and R.D. Blakely. Subcellular Localization of the Antidepressant-Sensitive Norepinephrine Transporter, *BMC Neuroscience* **10**:65. (2009).

42. Carvelli, L., Matthies, D.S., **Galli, A.** Uncovering the molecular mechanisms supporting amphetamine actions in *C. Elegans*. *Mol. Pharm.* **78**(1):151-6. (2010).

43. Bowton, E., Saunders, C., Erreger, K., Sakrikar, D., Matthies, HJG., Sen, N., Jessen, T., Colbran, R.J., Caron, M.G., Javitch, J.A., Blakely, R.D., Galli, A. Dysregulation of dopamine transporters via dopamine D2 autoreceptors triggers anomalous dopamine efflux associated with attention-deficit hyperactivity disorder . *J. Neurosci.* **30**(17):6048-6057. (2010).

44. Siuta, M.A., Robertson, S.D., Kocalis, H., Saunders, C., Gresch, P.J., Khatri, V., Shiota, C., Kennedy, J.P., Lindsley, C.W., Daws, L.C., Polley, D.B., Veenstra-Vanderweele, J., Stanwood, G.D., Magnuson, M.A., Niswender, K.D., **Galli, A.** Dysregulation of the norepinephrine transporter sustains cortical hypodopaminergia and schizophrenia-like behaviors in neuronal Rictor null mice. *PLoS Biology.* **8**(6):e1000393. (2010)

45. Matthies, HJG., Moore, J.L., Saunders, C., Matthies, D.S., Lapierre, L.A., Goldenring, J.R., Blakely, R.D., **Galli, A.** Rab11a supports amphetamine-stimulated norepinephrine transporter trafficking. *J. Neurosci.* **30**:7863-7877. (2010)

46. Speed, N.K., Matthies, HJG., Kennedy, J.P., Vaughan, R.A., Javitch, J.A., Russo, S.J., Lindsley, C.W., Niswender, K., Galli, A. Akt-Dependent and Isoform-Specific Regulation of Dopamine Transporter Cell Surface Expression. *ACS Chem. Neurosc.* **1** (7), pp 476–481. (2010)

47. Robertson, S.D., Matthies, HJG., Owens, A.W., Sathananthan, V., Bibus Christianson, N.S., Kennedy, J.P., Lindsley, C.W., Daws, L.C., **Galli, A.** Insulin reveals Akt signaling as a novel regulator of norepinephrine transporter trafficking and norepinephrine homeostasis. *J. Neurosci.* **30**(34):11305-11316. (2010)

48. Cremona, M.L., Matthies, H.J., Pau, K., Bowton, E., Speed, N., Lute, B.J., Anderson, M., Sen, N., Robertson, S.D., Vaughan, R.A., Rothman, J.E., **Galli, A.**, Javitch, J.A., Yamamoto, A. Flotillin-1 is essential for PKC-triggered endocytosis and membrane microdomain localization of DAT. *Nat Neurosci.* **14**(4):469-77. (2011)

49. Owens, W.A., Williams, J.M., Saunders, C., Avison, M.J., **Galli, A.**, [#]Daws, L.C. Acute actions of amphetamine are blunted in hypoinsulinemic rats but rescued after repeated exposure

to systemically administered amphetamine. # **These authors contributed equally to this work.**
(Accepted pending revisions).

50. Siuta, MA., Williams, JM., Speed, NK., Saunders, C., Quarles, CC., Gore, JC., **Galli, A.**, Niswender, KD., Avison, MJ. Blunted CNS response to amphetamine in rats with diet-induced obesity. (*in preparation*).

51. Bowton, E., Saunders, C., Blakely RD., **Galli A**, Dopamine transporter (DAT) coding variant Ala559Val associated with attention deficit hyperactivity disorder (ADHD) regulates AMPH-induced DAT trafficking. (*in preparation*).

52. Saunders, C., Siuta, M., Davis, A., Robertson, S., Sauer, J., Veenstra-Vanderweele, JM., Niswender, KD., **Galli, A.** Neuronal deletion of rictore in mice leads to serotonin receptor upregulation and desensitization. (*in preparation*).

53. Speed, NK., Owens, W.A., Saadat, S., Matthies, HJG., Saunders, C., Kennedy, JP., Vaughan, RA., Neve, R., Lindsley, C.W., Russo, S.J., Daws, L.C., Niswender, K., **Galli, A.** Diet-Induced Changes in Insulin Signaling Regulates the Trafficking and Function of the Dopamine transporter. (In press).

Reviews

1. DeFelice, L.J., **Galli, A.** Electrophysiological analysis of transporter function. *Advances in Pharmacology*. **42**: 186-190. (1997).

2. DeFelice, L.J., **Galli, A.** Fluctuation analysis of norepinephrine and serotonin transporter currents. In: Amara, S.G. ed. Neutransmitter Transporters: A Volume of *Methods in Enzymology*. Academic Press, Inc. San Diego. **296**: 578-593. (1998).

3. Blakely, R.D., Ramamoorthy, S., Schroeter, S., Qian, Y., Apparsundaram, S., **Galli, A.**, DeFelice, L.J. Regulated phosphorylation and trafficking of antidepressant-sensitive serotonin transporter proteins. *Biol. Psychiatry*. **44**: 169-178. (1998).

4. Sulzer, D., Kahlig, K.M., Schmitz, Y., Saunders, C., **Galli, A.** Amperometric recording of amphetamine-induced dopamine efflux: "Transmembrane Transporters". A Volume of John Wiley and Son, Inc. New York. (2002).

5. **Galli, A.**, Sulzer D. Dopamine transport currents are promoted from curiosity to physiology. *Trends in Neuroscience*. **26(4)**:173-176. (2003).

6. Kahlig, K.M., **Galli, A.** Regulation of dopamine transporter function and plasma membrane expression by dopamine, amphetamine, and cocaine. *European J. of Pharmacology*. **479**: 153-158. (2003).

7. **Galli, A.**, Blakely, R.D., DeFelice, L.J. Neurotransmitter Transporters. *Encyclopedia of Biological Chemistry*. **3**:37-40. (2004).
7. Sulzer, D., Sonders, M., Poulsen, N. and **Galli, A.** Mechanisms of neurotransmitter release by amphetamines. *Progress in Neurobiology* **74(6)**: 406-433. (2005).
8. Blakely, R.D., DeFelice, L.J. **Galli, A.** Biogenic amine neurotransmitter transporters: just when you thought you knew them. *Physiology* **20**: 225-231. (2005).
9. Williams, J.M., **Galli, A.** The dopamine transporter: A vigilant border control for psychostimulant action. A chapter in: Handbook of experimental pharmacology. Neurotransmitter Transporters (vol). Springer-Verlag, New York. *Handb. Exp. Pharmacol.* **175**:215-32. (2006).
10. Robertson, S. D., Matthies, H. J.G., **Galli, A.** A Closer Look at Amphetamine-Induced Reverse Transport and Trafficking of the Dopamine and Norepinephrine Transporters, *Mol. Neurobiol.* 2009 **39**:73-80. (2009).
11. Niswender KD., Daws LC., Avison MJ., **Galli A.** Insulin regulation of monoamine signaling: pathway to obesity. *Hot Topics. Neuropsychopharmacology.* **36(1)**:359-60. (2011)
12. Daws LC., Avison MJ., Robertson SD., Niswender KD., **Galli A.**, Saunders, C. Insulin signaling and addiction. *Neuropharmacology.* (in press).

INVITED LECTURES:

1994:

Department of Physiology, Torin, Italy: "Long opening of high-threshold Ca²⁺ channels triggered by action potential in neuronal cells".

Department of Physiology, Milan, Italy: "Current fluctuations in norepinephrine transporters".

1996:

November: Department of Physiology, Milan, Italy: "Drosophila serotonin transporters have high voltage-dependent uptake coupled to a serotonin-gated ion channel".

December: Institute "Mario Negri", Milan, Italy: "Drosophila serotonin transporters have high voltage-dependent uptake coupled to a serotonin-gated ion channel".

1998:

January: University of Manchester, School of Pharmacy, Manchester, England: "Amperometric recordings of channel-like activity in norepinephrine transporters".

January: Institute "Mario Negri", Milan, Italy: "Amperometric analysis of NE transporters".

February: 1998 Biophysical Society Meeting: Platform session "Molecular Structure and

Biophysics of neurotransmitter transporters". "Amperometric analysis of NE transporters".

February: University of Texas H.S.C. San Antonio, Department of Pharmacology: "Amperometric analysis of NE transporters".

March: Columbia University, Department of Pharmacology: "Patch-clamp and Amperometric Recordings of Channel-like Activity in Norepinephrine Transporters".

April: Boston University School of Medicine, Department of Pharmacology and Experimental Therapeutics: "Patch-clamp and Amperometric Recordings of Channel-like Activity in Norepinephrine Transporters".

April: Children's Hospital of Philadelphia, Division of Neurology: "Patch-clamp and Amperometric Recordings of Channel-like Activity in Norepinephrine Transporters".

June: University of Pennsylvania, Department of Pharmacology: "Patch-clamp and Amperometric Recordings of Channel-like Activity in Norepinephrine Transporters".

1999.

July: Oxford, U.K: Gordon Research Conference on Catecholamines: "Channel functions of DA and NE transporter".

July: London, U.K: Eli Lilly and Co: "Channel functions of DA and NE transporter".

December: Acapulco, Mexico: ACNP meeting: "Channel functions of DA and NE transporter".

2000:

February: Texas A&M University in College Station, Department of Pharmacology: "Amphetamine: a W(H)ole Agonist of the Human Dopamine Transporter".

April: University of Texas H.S.C. San Antonio, Department of Pediatrics: "Amphetamine: a W(H)ole Agonist of the Human Dopamine Transporter".

April: University of California at S.F., Gallo Clinic and Research Center: "Amphetamine: a W(H)ole Agonist of the Human Dopamine Transporter".

July: Connecticut College, CT: Gordon Research Conference on Membrane Transport Proteins: "Amphetamine Regulation of Dopamine Transport".

December: Steamboat Springs, CO: Winter Conference on Brain Research: "Amphetamine Regulation of Dopamine Transport".

2001:

February: University of Texas Medical Branch at Galveston, Department of Pharmacology & Toxicology: "Amphetamine Regulation of Dopamine Transport".

July: Tucson, AZ. FASEB Summer Research Conferences on New Perspectives in Transport Biology: “Amphetamine Regulation of Dopamine Transport”.

August: Finch University of Health Sciences/Chicago Medical School: “The docking, sinking and rescue: amphetamine and insulin regulation of dopamine transporter activity”.

September: Vanderbilt University, Department of Molecular Physiology and Biophysics: “The docking, sinking and rescue: amphetamine and insulin regulation of dopamine transporter activity”.

2002:

January: NIDA: Intracellular Protein Trafficking and Drugs of Abuse: “The docking, sinking and rescue: amphetamine and insulin regulation of dopamine transporter activity”.

January: Snowmass Village, CO: Winter Conference on Brain Research : “The docking, sinking and rescue: amphetamine and insulin regulation of dopamine transporter activity”.

April: Sicily, Italy: International School of Biophysics “ A. Borsellino”: Excitability, Secretion, and Transport: Molecules to Medication. “The docking, sinking and rescue: amphetamine and insulin regulation of dopamine transporter activity”.

April: New Orleans, LA. Experimental Biology Meeting (ASPET): Mechanisms of Amphetamines in Eliciting and Regulating Monoamine Transport: “The docking, sinking and rescue: amphetamine and insulin regulation of dopamine transporter activity”.

September: Vanderbilt University, Membrane Biology Group: “Drug trafficking: new surveillance at the borders”.

2003:

January: NIDA: “Drug trafficking: new surveillance at the borders”.

November: New Orleans, LA. *Neuroscience Meeting*. NIDA Symposium: “Dopamine Transporter: Are psychostimulants in your neighborhood forcing you to move?”.

December: Weill Medical College of Cornell University: “Monitoring dopamine transporter activity”.

2004:

March: Washington, D.C. Third Annual NIH Live Cell Imaging Seminar. NIH: “DAT trafficking: vigilant border patrol”.

May: Vanderbilt University Summer Conferences (Genomics of Reward and Addiction): “Combining amperometry, physiology and imaging”.

October: Les Diablerets, Switzerland. Gordon Research Conference on Membrane Transport

Proteins.: “DAT trafficking: vigilant border patrol”.

November: Texas Tech University H.S.C. at Lubbock: “Pulses of pleasure: Amphetamine Induces Dopamine Efflux Through a Transporter Channel”.

December: UAMS at Little Rock. “DAT trafficking: vigilant border patrol”.

2005:

April: San Diego, CA. Experimental Biology Meeting (ASPET). Ray Fuller Symposium: “Molecular biophysics of amphetamine action”.

May: Erice, Sicily, Italy: International School of Biophysics “ A. Borsellino”: Excitability, Secretion, and Transport: Molecules to Medication.

July: Saxtons River, VE. FASEB Summer Research Conferences on New Perspectives in Transport Biology. **Section Chair**: “Pulses of pleasure: Amphetamine Induces Dopamine Efflux through a Transporter Channel”

July: Proctor Academy Andover, NH. Gordon Research Conference on Catecholamines: “Pulses of pleasure: Amphetamine Induces Dopamine Efflux through a Transporter Channel”

August: Cold Spring Harbor Laboratory, NY. Cellular Biology of Addiction: “Molecular biophysics of amphetamine action”.

August: Innsbruck, Austria. International Society for Neurochemistry: “Molecular biophysics of amphetamine action”.

November: Washington D.C. Fifteenth Neuropharmacology conference, New Perspectives in Neurotransmitter Transporter Biology: “Molecular biophysics of amphetamine action”.

2006:

August: University of New England, ME. Gordon Research Conference on Membrane Transport Proteins. **Section Chair**.

September: University of Vienna, Austria. “Molecular biophysics of amphetamine action”.

October: Department of Pharmacology, Columbia University, NY. “Probing the action of amphetamine: the need for speed”.

October: Department of Psychiatry, Columbia University, NY. “Securing the border: insulin regulation of the actions of amphetamine”.

November: Department of Pharmacology, University of Colorado HSC. Aurora, CO. “Probing the action of amphetamine: the need for speed”.

December: Department of Physiology, University of Miami, FL. “Probing the action of

amphetamine: the need for speed".

2007:

January: Department of Physiology, Stony Brook University, NY. "Probing the action of amphetamine: the need for speed".

March: Department of Physiology, University of Texas HSC, TX. "Securing the border: insulin regulation of the actions of amphetamine".

March: DIBIT, San Raffaele Scientific Institute, Milan, Italy. "Probing the action of amphetamine: the need for speed".

December: Department of Pharmacology, University of Michigan, Ann Arbor, MI. "Securing the border: insulin regulation of the actions of amphetamine".

2008:

August: Il Ciocco, Italy. Gordon Research Conference on Membrane Transport Proteins. "Influx and Efflux in the Dopamine Transporter".

September: University of Vienna, Austria. SFB-Symposium. "How sweet is DAT. Insulin regulation of dopamine transport".

September: Vanderbilt University. Diabetes, Endocrinology and Metabolism Grand Rounds. "Our sweet tooth regulates dopamine clearance: The "ins" and "outs" of the dopamine transporter in diabetes and obesity".

December: American College of Neuropsychopharmacology Scottsdale, Arizona. Symposium. "PI3K/Akt signaling in dopaminergic action".

2009:

April: Experimental Biology Meeting, New Orleans, LA. Julius Axelrod Symposium. "The Neurotransmitter End Game".

August: SB35 Transporter Meeting, Vienna, Austria. **Section Chair.**

August: Brain Institute, Vienna, Austria. The fat, the NET, and the DAT: homeostasis of monoamines in the obese and lean brain.

October: Department of Pharmacology, University of North Dakota, ND. The fat, the NET, and the DAT: homeostasis of monoamines in the obese and lean brain.

October: Department of Neuroscience. UT Southwestern, Dallas, TX. "The Fat is not good for DAT. Regulation of dopamine clearance in diabetes and obesity".

2010:

January: Winter Conference on Brain Research. Breckenridge, Colorado. "Dopamine signaling

and disease: wormholes, flytraps, organic farmers and ouseketeers in the pursuit of new medications”.

August: SB35 Transporter Meeting, Vienna, Austria. **Section Chair.**

August: University of New England, ME. Gordon Research Conference on Membrane Transport Proteins. **Section Chair.**

September: Panum Institute, University of Copenhagen, Copenhagen, Denmark. “Obesity and neuropsychiatric disorders: a brain AKTing badly”.

September: Scandinavian conference on Molecular physiology of channels and transporters Sigtunastiftelsen, Stockholm. **Key note speaker.** “SNAREing dopamine transporter function”.

November: Department of Pharmacology, UPenn, Philadelphia. “Obesity and neuropsychiatric disorders: a brain AKTing badly”.