BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
Galli, Aurelio A.	Associate Professor
eRA COMMONS USER NAME (credential, e.g., agency login) galliaa	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
State University of Milan, Milan, Italy	BA	1988	Science
State University of Milan, Milan, Italy	PhD	1991	Pyshiology
Emory University, Atlanta, GA	Postdoc	1993-1995	Molecular Physiology

A. Positions and Honors

Positions and Employment

1989 – 1991 Teaching Assistant, Department of Physiology and Biochemistry, State University of Milan, Italy
1991 – 1992 Research Associate, Department of Neuropharmacology, Institute of Pharmacological Research, "Mario Negri"
1993 – 1995 Post-doctoral Fellow; Department of Anatomy and Cell Biology, Emory University, Atlanta, GA
1995 – 1999 Instructor in Pharmacology; Department of Pharmacology, Vanderbilt University, Nashville, TN
1999 – 2002 Assistant Professor; Department of Pharmacology, University of Texas at San Antonio, HSC
2002 – 2005 Assistant Professor; Department of Molecular Physiology and Biophysics, Vanderbilt University
2005 – pres Associate Professor; Department of Molecular Physiology and Biophysics, Vanderbilt University

Honors and Awards

2001 Lyndon B. Johnson Award: In recognition of the most outstanding research project. (AHA)
2001 Freedman Award: For an Outstanding Research, NARSAD
1999 – 2001 NARSAD Young Investigator Award
1999 Bursary Recipient, EU TMR Euroconference on Neuronal Transporters, Dublin, Ireland
1997 – 1999 NARSAD Young Investigator Award
1996 Doctor of Research
State University of Milan: *Laude* (110/110) (Thesis Dissertation)

B. Selected peer-reviewed publications (in chronological order)

Galli, A., Ferroni, A., Bertollini, L., Mazzanti, M. Extracellular Ca^{2+} inactivates single Ca^{2+} channels in rat sensory neurons. *J. Physiol.* 477:15-26. (1994).
Galli, A., DeFelice, L.J. Inactivation of L-type Ca^{2+} channels in embryonic chick ventricle cells: dependence on the cytoskeletal agents colchicine and taxol. *Biophys. J.* 67:2296-2304. (1994).
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).
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).
Ferroni, A., Galli, A., Mazzanti, M. Dihydropyridine sensitive Ca2+ channels open at low voltages after fast depolarization. *Pflug. Arch.* 431:954-963. (1996).
Qian, Y., Galli, A., Ramamoorthy, S., Risso, S., DeFelice, L.J., Blakely, R.D. Protein kinase C activation regulates human serotonin transporters in HEK-293 cells via altered cell surface expression. *J. Neurosci.* 17(1):45-47. (1997).

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).

Galli, A., Blakely, RD., 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).

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).

Galli, A., Lankupalle, D.J., Ramsey, I.S., Miller, J.W., Fremeau, 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).

Saunders, C., Ferrer, JV., Shi, L., Chen, J., Merrill, G., Lamb, ME., Leeb-Lundberg, LMF., Carvelli, L., Javitch, JA., 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).

Carvelli, L., Moron, J., Kahlig, K., Ferrer, JV., Sen, L., Lechleiter, JD. Leeb-Lundberg, LMF, Merrill, G., Lafer, E.M., Ballou, LM., Shippenberg, T., Javitch, JA., Lin, RZ and Galli, A. PI 3-Kinase regulation of dopamine Uptake. *Journal of Neurochem.* 81(4): 859-869. (2002).

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).

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).

Khoshbouei, H., Wang, H., Lechleiter, JD., Javitch, JA., Galli, A. Amphetamine-induced DA-efflux: a voltage sensitive and intracellular Na+-dependent mechanism. *J. Biol. Chem*. 278(14): 12070-12077. (2003).

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

Morón, J., Ferrer, J.V., Merrill, GA., Uhl, G., Lafer, E.M., Lin, Z.C., Javitch, J.A., Galli, A., Shippenberg, T.S. Mitogen-Activated Protein Kinase Regulates Dopamine Transporter Surface Expression and Dopamine Transport Capacity. *J. Neurosci.* 23(24): 8480-8488. (2003).

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).

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. *PLoS Biology.* 2(3): 0387-0393. (2004).

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).

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).

Garcia, B., Wei, T., 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).

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).

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*, 50(3): 354-61. (2006).

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).

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

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).

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).
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).
Dipace, C., Sung U., Binda F., Blakely R.D., Galli A. Amphetamine-induced Norepinephrine transporter trafficking depends on intracellular calcium and is regulated by syntaxin 1A. *Mol Pharm.* 71(3):835-842. (2007).
William, J.M., Woens, 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).
Erreger, K., Javitch, J.A., Galli, A. Amphetamine induces a rapidly desensitizing inward current through the human dopamine transporter. *J. Neurosci*. 28(4):976-89. (2008).
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Mazei-Robison, M.S., Bowton, E., Holly, M., Schmudermaier, M., Freissmuth, M., Sitte, H.H., Galli, A., Blakely, R.D. dopamine transporter coding variant Ala559Val associated with attention deficit hyperactivity disorder (ADHD) causes alteration of dopamine efflux. *J. Neurosci.* 28:7040-7046. (2008).
Binda, F., Dipace, C., Bowton, E.A., Lute, B.J., Fog, J.U., Zhang, M., Sen, N., Colbran, R.J., Gnegy, M.E., Gether, U., Javitch, J.A. Erreger, K., Galli, A., Syntaxin1A Interaction with the Dopamine Transporter Promotes Amphetamine-Induced Dopamine Efflux. *Mol. Pharm.* 74(4):1101-8. (2008).
Sevak, R.J., Koek, W., Owens, W.A., Galli, A., Daws, L.C., France, C.P. Feeding conditions differentially affect the neurochemical and behavioral effects of dopaminergic drugs in male rates. *Eur J Pharmacol.* 592(1-3):109-15. (2008).
Lute, B.J., Khoshbouei, H., Saunders, C., Sen, N., L.in, R.Z., Javitch, J.A., Galli, A. P13K signaling supports amphetamine-induced dopamine efflux. *Biochemical and Biophysical Research Communications*. 372(4):656-61. (2008).

C. Research Support

Ongoing Research Support

R01 MH58921 Galli (PI) 12/011/04 – 06/30/09
NIH/NIMH
Acute Regulation of Norepinephrine Transporters
The long-term objective of this project is to understand how substrates of the human norepinephrine transporter regulate transporter activity and trafficking.
Role: PI

P01 DA12408 Galli (PI) 12/01/04 – 12/31/09
NIH/NIDA
Structure and Function of Neurotransmitter Transporter
The long-term objective of this project is to provide the biophysical-technical infrastructures (Core) to the investigators of this grant.
Role: PI

R01 DA13975 Galli (PI) 01/04/01 – 06/30/11
NIH/NIDA
Amphetamine regulation of dopamine transport
The major goal of this grant is to characterize the biophysics of the interaction between psychostimulants and the dopamine transporter.
Role: PI

R01 DA14684 Galli (PI) 09/30/01 – 06/30/13
NIH/NIDA
Molecular Mechanisms of Stimulant Abuse
The long-term objective of this project is to understand how insulin regulates the action of amphetamine. This grant is in a no-cost extension
Role: PI

R01 DA011697 Gnegy (PI) 09/30/05 – 09/29/10
NIH/NIDA
Pharmacology of Dopamine Release by Amphetamine
The long-term objective of this project is to understand the role of PKC in AMPH-induced DA efflux.
Role: Subcontract PI

Completed Research Support

R01 DA14684 09/30/01 – 07/31/06
NIDA
Molecular Mechanisms of Stimulant Abuse
The long-term objective of this project is to understand how insulin regulates the action of amphetamine.
Role: PI

R01 DA13975 01/04/01 – 03/31/06
NIDA
Amphetamine regulation of dopamine transport
The major goal of this grant is to characterize the biophysics of the interaction between psychostimulants and the dopamine transporter.
Role: PI