

Alessandro Usiello - Curriculum Vitae



Name: Alessandro Usiello

Place and Date of Birth: Rome, February 19, 1969

Nationality: Italian

Current Affiliations:

- 1) University of Campania, Luigi Vanvitelli, Naples, Italy;
- 2) CEINGE – Center of Advanced Biotechnology, Naples, Italy

Current Positions:

- 1) Associate Professor of Clinical Biochemistry and Clinical Molecular Biology at University of Campania, Luigi Vanvitelli, Naples, Italy;
- 2) Principal Investigator: Behavioral Neuroscience Laboratory at CEINGE – Center of Advanced Biotechnology, Naples, Italy.

Education

<i>Jan 2002 – Jan 2003</i>	Karolinska Institutet Post Doctoral fellow, Molecular Neuropharmacology Solna, Sweden;
<i>Jan 2001 – Jan 2002</i>	National Research Council (CNR) Researcher, Neurobiology Roma, Italy;
<i>Jan 1998 – Jan 2001</i>	Institut de Génétique et de Biologie Moléculaire et Cellulaire PhD student, Molecular Neurobiology Strasbourg, France;
<i>May 1997 – Jan 1998</i>	Istituto Superiore di Sanità (ISS) Graduate fellow in Behavioural Neuroscience Roma, Italy;
<i>Jan 1991 – Jan 1996</i>	La Sapienza University of Rome Master of Sciences in Biology Roma, Italy;

Academic and Research Appointments

<i>Since January 2008</i>	Professor of PhD Program at European School of Molecular Medicine (SEMM). Milano, Italy;
<i>Since January 2005</i>	Principal Investigator Behavioral Neuroscience Laboratory at Ceinge, Naples, Italy

Jan 2011- Dec 2014 Professor of PhD Program in Neuroscience at Second University of Rome (Tor Vergata) Roma, Italy;

Since January 2014 Professor of PhD Program in Molecular Bioscience at Second University of Naples (SUN)-Caserta, Italy;

National Academic qualifications as Full Professor

Since 2012 Italian academic qualifications as Full Professor, in “Biochimica Generale e Biochimica Clinica”

Since 2012 Italian academic qualifications as Full Professor in SSD Med/46 “Scienze delle professioni sanitarie e delle Tecnologie Mediche Applicate”

International Visiting Professor Appointments

Jan 2010-Jan 2015 Visiting Professor at European Brain Research Institute.
Jan 2018-Jan 2020 Visiting Professor at Scripps Institute, Jupiter, Florida USA
Jun 2018-Sept 2018 Visiting Professor at University of Kyoto, Japan

National and International Fellowship

1998-2003: Mariano Scippaccercola Foundation (Italy)
2000-2001: Ligue contre le Cancer Association (France)
2001-2002: La Fondation pour la Recherche Médicale (France)
2004-2005: The Wenner-Gren Foundation (Sweden)

National and International Grants

2013-2015: Research projects of national interest PRIN (Italy): “L-DOPA-induced dyskinesia in Parkinson's disease: new mechanisms and molecular targets”- Role: PI; EURO 125. 000

2013-2015: **NARSAD Independent Investigator (USA)**: “Role of free D-aspartate in NMDAR-dependent processes of relevance to schizophrenia”: Role: PI; EURO 100. 000

2013-2015: **NARSAD Independent Investigator (USA)**: “Interaction between environmentally sensitive DNA methylation and dopamine D2 related genetic variation on schizophrenia phenotypes”-Role: Co-PI; EURO 100. 000

2015-2018: **Research Projects Ministry of Health (Italy)**: “Role of serotonin in modulating L-DOPA-induced dyskinesia”-Role: PI. EURO 100. 000

2018-2021 **Research Projects CARIPLO**: “Dysregulation of serine metabolism in physical and cognitive frailty: characterization of a novel pathobiological mechanism potentially amenable to treatment”. Role: Co-PI: EURO 120. 000

List of Publications (97)

1. The Emerging Role of Altered d-Aspartate Metabolism in Schizophrenia: New Insights From Preclinical Models and Human Studies. Errico F, Nuzzo T, Carella M, Bertolino A, Usiello A. **Front Psychiatry**. 2018 Nov 6;9:559. doi: 10.3389/fpsyg.2018.00559. eCollection 2018.
2. Serotonin depletion causes valproate-responsive manic-like condition and increased hippocampal neuroplasticity that are reversed by stress. Maddaloni G, Migliarini S, Napolitano F, Giorgi A, Nazzi S, Biasci D, De Felice A, Gritti M, Cavaccini A, Galbusera A, Franceschi S, Lessi F, Ferla M, Aretini P, Mazzanti CM, Tonini R, Gozzi A, Usiello A, Pasqualetti M. **Sci Rep**. 2018 Aug 7;8(1):11847. doi: 10.1038/s41598-018-30291-2.
3. DNA methylation landscape of the genes regulating D-serine and D-aspartate metabolism in post-mortem brain from controls and subjects with schizophrenia. Keller S, Punzo D, Cuomo M, Affinito O, Coretti L, Sacchi S, Florio E, Lembo F, Carella M, Copetti M, Cocozza S, Balu DT, Errico F, Usiello A, Chiariotti L. **Sci Rep**. 2018 Jul 5;8(1):10163. doi: 10.1038/s41598-018-28332-x.
4. Rhes Counteracts Dopamine Neuron Degeneration and Neuroinflammation Depending on Gender and Age. Costa G, Pinna A, Porceddu PF, Casu MA, Di Maio

A, Napolitano F, Usiello A, Morelli M. **Front Aging Neurosci.** 2018 May 31;10:163. doi: 10.3389/fnagi.2018.00163. eCollection 2018.

5. The Thyroid Hormone-target Gene Rhes a Novel Crossroad for Neurological and Psychiatric Disorders: New Insights from Animal Models. Napolitano F, D'Angelo L, de Girolamo P, Avallone L, de Lange P, Usiello A. **Neuroscience.** 2018 Aug 1;384:419-428. doi: 10.1016/j.neuroscience.2018.05.027. Epub 2018 May 30. Review.
6. Guida F, Turco F, Iannotta M, De Gregorio D, Palumbo I, Sarnelli G, Furiano A, Napolitano F, Boccella S, Luongo L, Mazzitelli M, **Usiello** A, De Filippis F, Iannotti FA, Piscitelli F, Ercolini D, de Novellis V, Di Marzo V, Cuomo R, Maione S. Antibiotic-induced microbiota perturbation causes gut endocannabinoidome changes, hippocampal neuroglial reorganization and depression in mice. **Brain Behav Immun.** 2017 Sep 7. pii: S0889-1591(17)30417-8. doi: 10.1016/j.bbi.2017.09.001. [Epub ahead of print]
7. Jennifer Stanic, Manuela Mellone, Francesco Napolitano, Elisa Zianni, Claudia Racca, Daiana Minocci, Veronica Ghiglieri, Marie-Laure Thiolat, Qin Li, Annalisa Longhi, Arianna De Rosa, Barbara Picconi, Erwan Bezard, Paolo Calabresi, Monica Di Luca, **Alessandro Usiello**, Fabrizio Gardoni. Rabphilin 3A: a novel target for the treatment of levodopa-induced dyskinesias. **Neurobiology of Disease** 2017 Aug 17. pii: S0969-9961(17)30181-X. doi: 10.1016/j.nbd.2017.08.001
8. Tronci E, Napolitano F, Muñoz A, Fidalgo C, Rossi F, Björklund A, **Usiello A**, Carta M. BDNF over-expression induces striatal serotonin fiber sprouting and increases the susceptibility to L-DOPA-induced dyskinesia in 6-OHDA-lesioned rats. **Experimental Neurology** 2017 Jul 27;297:73-81. doi: 10.1016/j.expneurol.2017.07.017. [Epub ahead of print]
9. Napolitano F, Booth Warren E, Migliarini S, Punzo D, Errico F, Li Q, Thiolat ML, Vescovi AL, Calabresi P, Bezard E, Morelli M, Konradi C, Pasqualetti M, **Usiello** A. Decreased Rhes mRNA levels in the brain of patients with Parkinson's disease and MPTP-treated macaques. **PLoS One.** 2017 Jul 25;12(7):e0181677. doi: 10.1371/journal.pone.0181677. eCollection 2017.
10. Fontanarosa C, Pane F, Sepe N, Pinto G, Trifuggi M, Squillace M, Errico F, **Usiello A**, Pucci P, Amoresano A. Quantitative determination of free D-Asp, L-Asp and N-methyl-D-aspartate in mouse brain tissues by chiral separation and Multiple Reaction Monitoring tandem mass spectrometry. **PLoS One.** 2017 Jun 29;12(6):e0179748. doi: 10.1371/journal.pone.0179748. eCollection 2017.

11. Nuzzo T, Sacchi S, Errico F, Keller S, Palumbo O, Florio E, Punzo D, Napolitano F, Copetti M, Carella M, Chiariotti L, Bertolino A, Pollegioni L, **Usiello A**. Decreased free d-aspartate levels are linked to enhanced d-aspartate oxidase activity in the dorsolateral prefrontal cortex of schizophrenia patients. **NPJ Schizophrenia** 2017 Apr 6;3:16. doi: 10.1038/s41537-017-0015-7. eCollection 2017.
12. Pratelli M, Migliarini S, Pelosi B, Napolitano F, **Usiello A**, Pasqualetti M. Perturbation of Serotonin Homeostasis during Adulthood Affects Serotonergic Neuronal Circuitry. **eNeuro**. 2017 Apr 11;4(2). pii: ENEURO.0376-16.2017. doi: 10.1523/ENEURO.0376-16.2017. eCollection 2017 Mar-Apr.
13. Sacchi S, Novellis V, Paolone G, Nuzzo T, Iannotta M, Belardo C, Squillace M, Bolognesi P, Rosini E, Motta Z, Frassineti M, Bertolino A, Pollegioni L, Morari M, Maione S, Errico F, **Usiello A**. Olanzapine, but not clozapine, increases glutamate release in the prefrontal cortex of freely moving mice by inhibiting D-aspartate oxidase activity. **Scientific Report** 2017 Apr 10;7:46288. doi: 10.1038/srep46288.
14. Florio E, Keller S, Coretti L, Affinito O, Scala G, Errico F, Fico A, Boscia F, Sisalli MJ, Reccia MG, Miele G, Monticelli A, Scorziello A, Lembo F, Colucci-D'Amato L, Minichiotti G, Avvedimento VE, **Usiello A**, Cocozza S, Chiariotti L. Tracking the evolution of epialleles during neural differentiation and brain development: D-Aspartate oxidase as a model gene. **Epigenetics**. 2017 Jan 2;12(1):41-54. doi: 10.1080/15592294.2016.1260211.
15. Affinito O, Scala G, Palumbo D, Florio E, Monticelli A, Miele G, Avvedimento VE, **Usiello A**, Chiariotti L, Cocozza S. Modeling DNA methylation by analyzing the individual configurations of single molecules. **Epigenetics**. 2016 Dec;11(12):881-888.
16. Gentile A, Freseagna D, Musella A, Sepman H, Bullitta S, De Vito F, Fantozzi R, **Usiello A**, Maccarrone M, Mercuri NB, Lutz B, Mandolesi G, Centonze D. Interaction between interleukin-1 β and type-1 cannabinoid receptor is involved in anxiety-like behavior in experimental autoimmune encephalomyelitis. **J Neuroinflammation**. 2016 Sep 2;13(1):231. doi: 10.1186/s12974-016-0682-8.
17. Palazzo E, Luongo L, Guida F, Marabese I, Romano R, Iannotta M, Rossi F, D'Aniello A, Stella L, Marmo F, **Usiello A**, de Bartolomeis A, Maione S, de Novellis V. D-Aspartate drinking solution alleviates pain and cognitive impairment in neuropathic mice. **Amino Acids**. 2016 Jul;48(7):1553-67. doi: 10.1007/s00726-016-2205-4.
18. D. Punzo, F. Errico, L. Cristina, S. Sacchi, S. Keller, C. Belardo, L. Luongo, T. Nuzzo, R. Imperatore, E. Florio, V. De Novellis, O. Affinito, S. Migliarini, G. Maddaloni, M. J. Sisalli, M. Pasqualetti, L. Pollegioni, S. Maione, L. Chiariotti, **A. Usiello**: Age-Related Changes in D-Aspartate Oxidase Promoter Methylation Control Extracellular D-Aspartate Levels and Prevent Precocious Cell Death during Brain

- Aging. **The Journal of Neuroscience**: 2016 Mar 9;36(10):3064-78. doi: 10.1523/JNEUROSCI.3881-15.2016.
19. Annalisa Pinna, Francesco Napolitano, Barbara Pelosi, Anna Di Maio, Jadwiga Wardas, Maria Antonietta Casu, Giulia Costa, Sara Migliarini, Paolo Calabresi, Massimo Pasqualetti, Micaela Morelli, **Alessandro Usiello**: The Small GTP-Binding Protein Rhes Influences Nigrostriatal-Dependent Motor Behavior During Aging. **Movement Disorders** 2016 Feb 8. doi: 10.1002/mds.26489.
20. Krashia P, Ledonne A, Nobili A, Cordella A, Errico F, **Usiello A**, D'Amelio M, Mercuri NB, Guatteo E, Carunchio I. Persistent elevation of D-Aspartate enhances NMDA receptor-mediated responses in mouse substantia nigra pars compacta dopamine neurons. **Neuropharmacology**. 2016 Apr;103:69-78. doi: 10.1016/j.neuropharm.2015.12.013. Epub 2015 Dec 17.
21. Ghiglieri V, Mineo D, Vannelli A, Cacace F, Mancini M, Pendolino V, Napolitano F, Di Maio A, Mellone M, Stanic J, Tronci E, Fidalgo C, Stancampiano R, Carta M, Calabresi P, Gardoni F, **Usiello A**, Picconi B. Modulation of serotonergic transmission by eltoprazine in L-DOPA-induced dyskinesia: Behavioral, molecular, and synaptic mechanisms. **Neurobiology of Disease** 2016 Feb;86:140-53. doi: 10.1016/j.nbd.2015.11.022. Epub 2015 Nov 27
22. Brugnoli A, Napolitano F, **Usiello A**, Morari M. Genetic deletion of Rhes or pharmacological blockade of mTORC1 prevent striato-nigral neurons activation in levodopa-induced dyskinesia. **Neurobiology of Disease** 2016 Jan;85:155-63. doi: 10.1016/j.nbd.2015.10.020. Epub 2015 Oct 29.
23. Guida F, Luongo L, Marmo F, Romano R, Iannotta M, Napolitano F, Belardo C, Marabese I, D'Aniello A, De Gregorio D, Rossi F, Piscitelli F, Lattanzi R, de Bartolomeis A, **Usiello A**, Di Marzo V, de Novellis V, Maione S. Palmitoylethanolamide reduces pain-related behaviors and restores glutamatergic synapses homeostasis in the medial prefrontal cortex of neuropathic mice. **Molecular Brain**. 2015 Aug 12; 8:47. doi: 10.1186/s13041-015-0139-5;
24. Vitucci D, Di Giorgio A, Napolitano F, Pelosi B, Blasi G, Errico F, Attrotto MT, Gelao B, Fazio L, Taurisano P, Di Maio A, Marsili V, Pasqualetti M, Bertolino A, **Usiello A**. Rasd2 Modulates Prefronto-Striatal Phenotypes in Humans and 'Schizophrenia-Like Behaviors' in Mice. **Neuropsychopharmacology**. 2016 Feb;41(3):916-27. doi: 10.1038/npp.
25. Veronica Ghiglieri, Francesco Napolitano, Barbara Pelosi, Chiara Schepisi, Sara Migliarini, Anna Di Maio, Valentina Pendolino, Maria Mancini, Giuseppe Sciamanna, Daniela Vitucci, Giacomo Maddaloni, Carmela Giampà, Francesco Errico, Robert Nisticò, Massimo Pasqualetti, Barbara Picconi, **Alessandro Usiello**. Rhes influences striatal cAMP/PKA-dependent signaling and synaptic plasticity in a gender- sensitive fashion. **Scientific Report** 2015 Jul 20;5:10933. doi: 10.1038/srep10933

26. Andrea de Bartolomeis, Francesco Errico, Giuseppe Aceto, Carmine Tomasetti, **Alessandro Usiello**, Felice Iasevoli. D-Aspartate dysregulation in Ddo-/– mice modulates phencyclidine-induced gene expression changes of postsynaptic density molecules in cortex and striatum. **Progress in Neuropsychopharmacology & Biological Psychiatry** 2015 Oct 1;62:35-43. DOI: 10.1016/j.pnpbp.2015.05.003. Epub 2015 May 12;
27. Errico Francesco, Mohet Jean Pierre, **Usiello Alessandro**. D-Aspartate: An endogenous NMDA receptor agonist enriched in the developing brain with potential involvement in schizophrenia. **J Pharm Biomed Anal.** 2015 Mar 31. pii: S0731-7085(15)00201-0. DOI: 10.1016/j.jpba.2015.03.02;
28. Giuseppe Sciamanna, Francesco Napolitano, Barbara Pelosi, Paola Bonsi, Daniela Vitucci, Tommaso Nuzzo, Daniela Punzo, Veronica Ghiglieri, Giulia Ponterio, Massimo Pasqualetti, Antonio Pisani, **Alessandro Usiello**: Rhes regulates dopamine D2 receptor transmission in striatal cholinergic interneurons. **Neurobiology of Disease** 03/2015; DOI:10.1016/j.nbd.2015.03.021;
29. F Errico, V D'Argenio, F Sforazzini, F Iasevoli, M Squillace, G Guerri, F Napolitano, T Angrisano, A Di Maio, S Keller, D Vitucci, A Galbusera, L Chiariotti, A Bertolino, A de Bartolomeis, F Salvatore, A Gozzi, **A Usiello**: A role for D-aspartate oxidase in schizophrenia and in schizophrenia-related symptoms induced by phencyclidine in mice. **Translational Psychiatry** 02/2015; 5(2):e512. DOI:10.1038/tp.2015.2;
30. Luigia Cristina, Livio Luongo, Marta Squillace, Giovanna Paolone, Dalila Mango, Sonia Piccinin, Elisa Zianni, Roberta Imperatore, Monica Iannotta, Francesco Longo, Francesco Errico, Angelo Luigi Vescovi, Michele Morari, Sabatino Maione, Fabrizio Gardoni, Robert Nisticò, **Alessandro Usiello**: D-Aspartate-Oxidase influences glutamatergic system homeostasis in mammalian brain. **Neurobiology of Aging** 02/2015; DOI:10.1016/j.neurobiolaging.2015.02.003;
31. Serena Boccella, Valentina Vacca, Francesco Errico, Sara Marinelli, Marta Squillace, Francesca Guida, Anna Di Maio, Daniela Vitucci, Enza Palazzo, Vito De Novellis, Sabatino Maione, Flaminia Pavone, **Alessandro Usiello**: D-Aspartate Modulates Nociceptive-Specific Neuron Activity and Pain Threshold in Inflammatory and Neuropathic Pain Condition in Mice. **BioMed Research International** 01/2015; 2015:905906. DOI:10.1155/2015/905906;
32. Antonietta Gentile, Diego Fresegnà, Mauro Federici, Alessandra Musella, Francesca Romana Rizzo, Helena Sepman, Silvia Bullitta, Francesca De Vito, Nabila Haji, Silvia Rossi, Nicola B Mercuri, **Alessandro Usiello**, Georgia Mandolesi, Diego Centonze: Dopaminergic dysfunction is associated with IL-1 β -dependent mood alterations in experimental autoimmune encephalomyelitis.. **Neurobiology of Disease** 2015 Feb;74:347-58. doi: 10.1016/j.nbd.;
33. Simona Keller, Francesco Errico, Federica Zarrilli, Ermanno Florio, Daniela Punzo, Sonia Mansuetto, Tiziana Angrisano, Raffaela Pero, Francesca Lembo, Giuseppe Castaldo, **Alessandro Usiello**, Lorenzo Chiariotti: DNA methylation state of BDNF gene is not altered in prefrontal cortex and striatum of schizophrenia subjects. **Psychiatry Research** 08/2014; 220(3). DOI:10.1016/j.psychres.2014.08.022;
34. M Squillace, L Dodero, M Federici, S Migliarini, F Errico, F Napolitano, P Krashia, A Di Maio, A Galbusera, A Bifone, M L Scattoni, M Pasqualetti, N B Mercuri, **A Usiello**,

A Gozzi: Dysfunctional dopaminergic neurotransmission in asocial BTBR mice.
Translational Psychiatry 08/2014; 4:e427. DOI:10.1038/tp.2014.69;

35. F. Errico, R. Nisticò, Annabella Di Giorgio, M. Squillace, D. Vitucci, A. Galbusera, S. Piccinin, D. Mango, L. Fazio, S. Middei, S. Trizio, N. B. Mercuri, M. A. Teule, D. Centonze, A. Gozzi, G. Blasi, A. Bertolino, **A. Usiello**: Free D-aspartate regulates neuronal dendritic morphology, synaptic plasticity, gray matter volume and brain activity in mammals. **Translational Psychiatry** 07/2014; 4(e417):1-9. DOI:10.1038/tp.2014.59;
36. L Luongo, F Guida, R Imperatore, F Napolitano, L Gatta, L Cristina, C Giordano, D Siniscalco, V Di Marzo, G Bellini, R Petrelli, L Cappellacci, **A Usiello**, V de Novellis, F Rossi, S Maione: The A1 adenosine receptor as a new player in microglia physiology. **Glia** 01/2014; 62(1):122-132. DOI:10.1002/glia.22592;
37. Francesco Errico, Francesco Napolitano, Marta Squillace, Daniela Vitucci, Giuseppe Blasi, Andrea de Bartolomeis, Alessandro Bertolino, Antimo D'Aniello, **Alessandro Usiello**: Decreased levels of d-aspartate and NMDA in the prefrontal cortex and striatum of patients with schizophrenia. **Journal of Psychiatric Research** 07/2013; DOI:10.1016/j.jpsychires.2013.06.013;
38. Giuseppe Blasi, Francesco Napolitano, Gianluca Ursini, Annabella Di Giorgio, Grazia Caforio, Paolo Taurisano, Leonardo Fazio, Barbara Gelao, Maria Teresa Attrotto, Lucia Colagorgio, Giovanna Todarello, Francesco Piva, Apostolos Papazacharias, Rita Masellis, Marina Mancini, Annamaria Porcelli, Raffaella Romano, Antonio Rampino, Tiziana Quarto, Matteo Giulietti, Barbara K Lipska, Joel E Kleinman, Teresa Popolizio, Daniel R Weinberger, **Alessandro Usiello**, Alessandro Bertolino: Association of GSK-3 β Genetic Variation With GSK-3 β Expression, Prefrontal Cortical Thickness, Prefrontal Physiology, and Schizophrenia. **American Journal of Psychiatry** 04/2013; DOI:10.1176/appi.ajp.2012.12070908;
39. F Errico, A Di Maio, V Marsili, M Squillace, D Vitucci, F Napolitano, **A Usiello**: Bimodal effect of D-aspartate on brain aging processes: insights from animal models. **Journal of biological regulators and homeostatic agents** 2013. 27(2 Suppl):49-59;
40. Silvia Rossi, Lucia Sacchetti, Francesco Napolitano, Valentina De Chiara, Caterina Motta, Valeria Studer, Alessandra Musella, Francesca Barbieri, Monica Bari, Giorgio Bernardi, Mauro Maccarrone, **Alessandro Usiello**, Diego Centonze: Interleukin-1 β Causes Anxiety by Interacting with the Endocannabinoid System. **The Journal of Neuroscience**: 10/2012; 32(40):13896-13905. DOI:10.1523/JNEUROSCI.1515-12.2012;
41. G Grasselli, S Rossi, A Musella, A Gentile, S Loizzo, L Muzio, C Di Sanza, F Errico, G Musumeci, N Haji, D Fresega, H Sepman, V De Chiara, R Furlan, G Martino, **A Usiello**, G Mandolesi, D Centonze: Abnormal NMDA receptor function exacerbates experimental autoimmune encephalomyelitis. **British Journal of Pharmacology** 08/2012; DOI:10.1111/j.1476-5381.2012.02178.x;
42. Francesco Errico, Francesco Napolitano, Robert Nisticò, **Alessandro Usiello**: New insights on the role of free D-aspartate in the mammalian brain. **Amino Acids** 08/2012; 43(5):1861-71. DOI:10.1007/s00726-012-1356-1;

43. Alessandro Tozzi, Antonio de Iure, Valentina Marsili, Rosaria Romano, Michela Tantucci, Massimiliano Di Filippo, Cinzia Costa, Francesco Napolitano, Nicola Biagio Mercuri, Franco Borsini, Carmen Giampà, Francesca Romana Fusco, Barbara Picconi, **Alessandro Usiello**, Paolo Calabresi: A2A Adenosine Receptor Antagonism Enhances Synaptic and Motor Effects of Cocaine via CB1 Cannabinoid Receptor Activation. **PLoS ONE** 06/2012; 7(6):e38312. DOI:10.1371/journal.pone.0038312;
44. Monica Cerreto, Bisan Mehdawy, Daniela Ombrone, Robert Nisticò, Margherita Ruoppolo, **Alessandro Usiello**, Aurora Daniele, Lucio Pastore, Francesco Salvatore: Reversal of metabolic and neurological symptoms of phenylketonuric mice treated with a PAH containing helper-dependent adenoviral vector. **Current Gene Therapy** 02/2012; 12(1):48-56. DOI:10.2174/156652312799789280;
45. Srinivasa Subramaniam, Francesco Napolitano, Robert G Mealer, Seyun Kim, Francesco Errico, Roxanne Barrow, Neelam Shahani, Richa Tyagi, Solomon H Snyder, **Alessandro Usiello**: Rhes, a striatal-enriched small G protein, mediates mTOR signaling and L-DOPA-induced dyskinesia.. **Nature Neuroscience** 12/2011; 15(2):191-3. DOI:10.1038/nn.2994;
46. Francesco Errico, Robert Nisticò, Francesco Napolitano, Carmen Mazzola, Dalila Astone, Teresa Pisapia, Michela Giustizieri, Antimo D'Aniello, Nicola B Mercuri, **Alessandro Usiello**: Increased D-aspartate brain content rescues hippocampal age-related synaptic plasticity deterioration of mice. **Neurobiology of Aging** 12/2011; 32(12):2229-43. DOI:10.1016/j.neurobiolaging.2010.01.002;
47. Francesco Errico, Robert Nisticò, Francesco Napolitano, Alessandra Bonito Oliva, Rosaria Romano, Federica Barbieri, Tullio Florio, Claudio Russo, Nicola B Mercuri, **Alessandro Usiello**: Persistent increase of D-aspartate in D-aspartate oxidase mutant mice induces a precocious hippocampal age-dependent synaptic plasticity and spatial memory decay. **Neurobiology of Aging** 11/2011; 32(11):2061-74. DOI:10.1016/j.neurobiolaging.2009.12.007;
48. Maura Castelli, Mauro Federici, Silvia Rossi, Valentina De Chiara, Francesco Napolitano, Valeria Studer, Caterina Motta, Lucia Sacchetti, Rosaria Romano, Alessandra Musella, Giorgio Bernardi, Alberto Siracusano, Howard H Gu, Nicola B Mercuri, **Alessandro Usiello**, Diego Centonze: Loss of striatal cannabinoid CB1 receptor function in attention-deficit / hyperactivity disorder mice with point-mutation of the dopamine transporter. **European Journal of Neuroscience** 11/2011; 34(9):1369-77. DOI:10.1111/j.1460-9568.2011.07876.x;
49. Francesco Errico, Alessandra Bonito-Oliva, Vincenza Bagetta, Daniela Vitucci, Rosaria Romano, Elisa Zianni, Francesco Napolitano, Silvia Marinucci, Monica Di Luca, Paolo Calabresi, Gilberto Fisone, Manolo Carta, Barbara Picconi, Fabrizio Gardoni, **Alessandro Usiello**: Higher free D-aspartate and N-methyl-D-aspartate levels prevent striatal depotentiation and anticipate L-DOPA-induced dyskinesia. **Experimental Neurology** 09/2011; 232(2):240-50. DOI:10.1016/j.expneurol.2011.09.013;
50. Claudia Balducci, Bisan Mehdawy, Lydia Mare, Alessandro Giuliani, Luca Lorenzini, Sandra Sivilia, Luciana Giardino, Laura Calzà, Annamaria Lanzillotta, Ilenia Sarnico, Marina Pizzi, **Alessandro Usiello**, Arturo R Visconti, Simone Ottonello, Gino Villetti, Bruno P Imbimbo, Giuseppe Nisticò, Gianluigi Forloni, Robert Nisticò: The gamma-

Secretase Modulator CHF5074 Restores Memory and Hippocampal Synaptic Plasticity in Plaque-Free Tg2576 Mice. **Journal of Alzheimer's disease**: 02/2011; 24(4):799-816. DOI:10.3233/JAD-2011-101839

51. Giuseppe Blasi, Francesco Napolitano, Gianluca Ursini, Paolo Taurisano, Raffaella Romano, Grazia Caforio, Leonardo Fazio, Barbara Gelao, Annabella Di Giorgio, Luisa Iacobelli, Lorenzo Sinibaldi, Teresa Popolizio, **Alessandro Usiello**, Alessandro Bertolino: DRD2/AKT1 interaction on D2 c-AMP independent signaling, attentional processing, and response to olanzapine treatment in schizophrenia. **Proceedings of the National Academy of Sciences** 01/2011; 108(3):1158-63. DOI:10.1073/pnas.1013535108;
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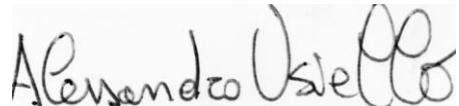
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Naples 4th December 2018

ALESSANDRO USIELLO

A handwritten signature in black ink, appearing to read "Alessandro Usiello".