

CURRICULUM VITAE di CLAUDIO D'ADDARIO

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Studi

2000 Laurea in Chimica e Tecnologia Farmaceutiche, Facoltà di Farmacia, Università degli Studi di Bologna (Italia)

2005 Dottore di Ricerca in Farmacologia e Tossicologia, Università degli Studi di Bologna (Italia)

2008 Diploma di studi Post-dottorato presso il Karolinska Institute, Department of Clinical Neuroscience, Stockholm (Sweden)

Carriera Professionale

1999 - 2000 tesi di laurea presso la "School of Medicine, National Parkinson Foundation, University of Miami", Miami, FL, USA, supervisor Prof. Izenwasser.

2002 periodo di Ricerca presso il Dipartimento di Farmacologia e Farmacoterapia alla "Semmelweis University", Budapest, Hungary, partecipante progetto intergovernamentale Italia-Ungheria.

2003 - 2004 Ricercatore ospite presso NIH/NIDA/IRP Molecular Neurobiology Branch in Baltimore (MD), USA, supervisor Prof. George R. Uhl.

2006 - 2008 Ricercatore ospite presso il Karolinska Institute, Department of Clinical Neuroscience, Stockholm, Sweden, supervisor Prof. Lars Terenius.

2007 - 2009 Partecipante progetto AFA presso il Karolinska Institute, Stockholm, Sweden intitolato "Molecular and neurochemical mechanisms in alcohol dependence", Principal Investigator: Prof. Sven Ove Ogren.

2009 - 2010 Borsista post-dottorato ed assegnista senior dell' Università degli Studi di Bologna

da dicembre 2010 ad oggi Ricercatore Biologia Molecolare (BIO/11), Facoltà di Agraria, Università degli Studi di Teramo

2013-2014 Ricercatore Ospite presso Karolinska Institute, Center of Molecular Medicine - Alcohol and Drug Dependence research group (<https://www.cmm.ki.se/en/members/?id=1023>)

Novembre 2019 Professore Ospite University of Cordoba, Argentina

da settembre 2013 ad oggi Ricercatore affiliato Karolinska Institute, Department of Clinical Neuroscience, Stockholm, Sweden (<https://ki.se/en/people/clauda>)

da gennaio 2019 Professore Associato Biologia Molecolare (BIO/11), Facoltà di Bioscienze, Università degli Studi di Teramo

Premi Ricevuti

- Vincitore Borse di Studio Marco Polo, Bologna 2003 e 2006
- Miglior Poster XIV SINPF; Bologna. 1-4 Giugno, 2004.
- Miglior Poster Premio "Emilio Marmo". 32° Congresso SIF; Napoli, 1-4 Giugno 2005.
- Vincitore della Borsa di Studio "C.M. Lerici" dell' Istituto di Cultura Italiana a Stoccolma, Settembre 2006 e 2013
- Fellowship Award 22nd ECNP Congress; Istanbul, Turkey, 12 -16 September 2009
- Miglior Poster INNOPSY09; Milano, 18-20 Novembre, 2009
- Travel Award INRC 2010; July 11 - 16, 2010, Malmö, Sweden
- EPHAR Young Investigator Award 2010 per "outstanding paper", ricevuto a WorldPharma2010 Copenhagen
- Travel Award 23rd ECNP Congress. 28 August - 1 September 2010. Amsterdam, The Netherlands.
- Miglior Poster ricerca clinica XVII SINPF; Cagliari 22-25 Settembre 2010.

Membro delle seguenti società scientifiche

Società Italiana di Farmacologia; European College of Neuropsychopharmacology; Società Italiana di Neuropsicofarmacologia; Mediterranean Neuroscience Society; Society for Neuroscience; Epigenetic Society; Società Italiana di Biochimica e Biologia Molecolare

Conoscenze linguistiche

INGLESE: livello molto buono parlato, comprensione e scritto;

SVEDESE: livello elementare comprensione.

Responsabilità di studi e ricerche scientifiche come PI o coPI

2013-2017 National Coordinator of the Project FIRB (Fondo per gli Investimenti della Ricerca di Base, Italian Ministry of University and Research) entitled: “*Epigenetic modulation of eating disorders and obesity: searching for new pharmacotherapies*” (Code: RBF12DELS_001)

2016-2017 PI of the project entitled “*Eating disorders and obesity: Impact of vegetal extracts on development, progression and genes transcription regulation*”, financed by Valagro SpA.

2016-2017 coPI of the project entitled “*Brain Derived Neurotrophic Factor (BDNF) Promoters-I, IX Methylation Patterns in early onset Bipolar Disorder Patients: Methylation Markers of age at onset, and Interaction with Val66Met Variance*”, financed by Mayo-Karolinska innovation platform

2017-2018 PI of the project entitled “*Epigenetic regulation of target genes in peripheral blood mononuclear cells of Frontotemporal Dementia subjects by selected phytocannabinoids*” financed by GW pharmaceuticals.

2016-2020 coPI and Tutor Early Stage Researcher in the REPEAT EU project Horizon 2020 Marie Skłodowska-Curie grant agreement No 713714 http://repeat.unite.it/About_us

2021-2023 coPI progetto FISIR, Italian Ministry of University and Research. “Disturbi Indotti dall’Esposizione prenatale al THC: Approccio Multidisciplinare ed Effetti di Integratori nella dieta materna”

2021-2023 Subsidio de Investigación PICT 2019 “Diferencias ontogenéticas en los efectos cognitivos y conductuales del consumo episódico elevado de alcohol”. Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT), Argentina. CODIGO PICT-2019- 00180.

Partecipazione come relatore a 92 convegni (di cui in **20** come **invited speaker**) di carattere scientifico in Italia o all'estero (**10 AWARDS**) dal 01-01-2000 a oggi

Lista Pubblicazioni Peer-reviewed (*h-index* = 26; *Total N of citations* = 2112)

1. Romualdi P, **D'Addario C**, Ferri S, Cox BM, Izenwasser S. Chronic GBR 12909 administration differentially alters prodynorphin gene expression compared to cocaine. *Eur. J. Pharmacol.* 2001;413: 207-212
2. Collins SL, **D'Addario C**, Izenwasser S. Effects of kappa-opioid receptor agonists on long-term cocaine use and dopamine neurotransmission. *Eur J Pharmacol.* 2001; 426: 25-34.
3. Collins SL, Gerdes RM, **D'Addario C**, Izenwasser S. Kappa opioid agonists alter dopamine markers and cocaine-stimulated locomotor activity. *Behav Pharmacol.* 2001 Jul; 12(4):237-45.
4. Collins S, **D'Addario C**, Romualdi P, Candeletti S, Izenwasser S. Regulation of dynorphin gene expression by kappa-opioid agonist treatment. *Neuroreport.* 2002; 13: 107-109.
5. Romualdi P, Landuzzi D, **D'Addario C**, Candeletti S. Modulation of proorphaninFQ/N gene expression by morphine in the rat mesocorticolimbic system. *Neuroreport.* 2002;13(5):645-8.
6. Bregola G, Zucchini S, Candeletti S, Rodi D, Binaschi A, **D'Addario C**, Landuzzi D, Reinscheid R, Romualdi P, Simonato M. Involvement of the Neuropeptide Nociceptin/Orphanin FQ in Kainate Seizures. *J. of Neuroscience.* 2002; 22: 10030-10038.
7. Di Benedetto M, **D'Addario C**, Collins S, Izenwasser S, Candeletti S, Romualdi P. Role of serotonin on cocaine-mediated effects on prodynorphin gene expression in the rat brain. *J. Mol. Neurosci.* 2004; 22: 213-222.
8. **D'Addario C**, Di Benedetto M, Izenwasser S, Candeletti S, Romualdi P. Differential time course of the effects of Kappa-Opioid agonist treatment on dynorphin A levels and on Kappa-Opioid receptor density. *J. Mol. Neurosci.* 2004;

24: 307-314.

9. Di Benedetto M, **D'Addario C**, Feliciani D, Izenwasser S, Candeletti S, Romualdi P. Effects of the selective norepinephrine uptake inhibitor on the prodynorphin gene expression in rat CNS. *Mol. Brain Res.* 2004; 127: 115-120.
10. **D'Addario C**, Di Benedetto M, Candeletti S, Romualdi P, Effects of MDMA administration on the prodynorphin system activity in the rat brain, *Neuroscience* 2006; 137: 187-196.
11. Drgon T, **D'Addario C**, Uhl GR, Linkage Disequilibrium and haplotype analysis of polymorphisms in the GABA receptor cluster on chromosome 4: association study, *Am J Med Genet B Neuropsychiatr Genet.* 2006; 141: 854-860.
12. Király KP, Riba P, **D'Addario C**, Di Benedetto M, Candeletti S, Romualdi P and Furst, Alterations in prodynorphin gene expression and dynorphin levels in different brain regions after chronic administration of 14-methoxy-metopon and oxycodone-6-oxime, *Brain Res. Bull*, 2006; 70: 233-239.
13. **D'Addario C**, Di Benedetto M, Izenwasser S, Candeletti S, Romualdi P. Role of serotonin in the regulation of the dynorphinergic system by a kappa-opioid agonist and cocaine treatment in rat CNS, *Neuroscience* 2007; 144: 157-164.
14. Di Benedetto M, **D'Addario C**, Candeletti S, Romualdi P, Alterations of CREB and DARPP-32 activation following cocaine and monoaminergic uptake inhibitors, *Brain Res.* 2007; 1128: 33-39.
15. **D'Addario C**, Di Benedetto M, Candeletti S, Romualdi P. The k-opioid receptor agonist U-69593 prevents cocaine-induced DARPP-32 activation in the rat brain, *Brain Res. Bull*, 2007; 73: 34-9.
16. Romualdi P, Di Benedetto M, **D'Addario C**, Collins SL, Wade D, Candeletti S, Izenwasser S, Chronic cocaine produces decreases in nociceptin in select brain regions. *J Mol Neurosci.* 2007; 31: 159-164
17. Vukojevic V, Ming Y, **D'Addario C**, Johansson B, Rigler R, Terenius L. Fluorescence Correlation Spectroscopy (FCS) study of mu-opioid receptor dynamics in live cells; *FEBS JOURNAL* Volume: 274 Pages: 107-107, 2007
18. **D'Addario C**[§], Ming Y, Ögren SO, Terenius L, Effects of Ethanol and Role of Acetaldehyde on the Expression of endogenous opioid System Genes in SH-SY5Y Cells. *FASEB J*, 2008; 22: 662-670. [§] corresponding author
19. Vukojević V, Ming Y, **D'Addario C**, Rigler R, Johansson B, Terenius L. Ethanol/naltrexone interactions at the mu-opioid receptor. CLSM/FCS study in live cells. *PLoS One.* 2008;3(12):e4008.
20. Vukojević V, Ming Y, **D'Addario C**, Hansen M, Langel U, Schulz R, Johansson B, Rigler R, Terenius L. Mu-opioid receptor activation in live cells. *FASEB J.* 2008 Oct;22(10):3537-48.
21. Ogren SO, Eriksson TM, Elvander-Tottie E, **D'Addario C**, Ekström JC, Svenningsson P, Meister B, Kehr J, Stiedl O. The role of 5-HT(1A) receptors in learning and memory. *Behav Brain Res.* 2008 Dec 16;195(1):54-77.
22. Di Benedetto M, Cavina C, **D'Addario C**, Leoni G, Candeletti S, Cox BM, Romualdi P. Alterations of N/OFQ and NOP receptor gene expression in the substantia nigra and caudate putamen of MPP+ and 6-OHDA lesioned rats. *Neuropharmacology.* 2009 Mar;56(4):761-77
23. **D'Addario C**[§], Johansson S, Romualdi P, Ogren SO, Terenius L, Ekstrom TJ. Epigenetic effects of ethanol and acetaldehyde exposure in the prodynorphin gene promoter in a human neuroblastoma cell line. *FASEB J* 2011 Mar;25(3):1069-75. [§] corresponding author
24. Di Benedetto M, Bastias Candia SC, **D'Addario C** Porticella E, Cavina C, Candeletti S and Romualdi P. Regulation of opioid genes expression in the rat brainstem by 3,4-Methylenedioxymethamphetamine (MDMA): role of serotonin and involvement of CREB and ERK cascade Naunyn-Schmiedeberg Archives of Pharmacology 2011;383(2):169-78
25. **D'Addario C**[§], Caputi FF, Candeletti S, Rimondini R, Romualdi P. Different Alcohol exposures induce selective alterations on the expression of Dynorphin and Nociceptin Systems Related Genes in Rat Brain. *Addiction Biology* 18(3):425-33. [§] corresponding author
26. **D'Addario, C**[§]; Caputi, FF; Candeletti, S; et al. A role for epigenetic mechanisms in the regulation of prodynorphin expression by alcohol. *Pharmacological Reports* 2011; 63: 208-209. [§] corresponding author
27. Di Benedetto, M; **D'Addario, C**[§]; Dell'Osso, B; et al. Investigation on DNA methylation status of opioid peptides promoters in PBMCs of subjects with bipolar disorder *Pharmacological Reports* 2011; 63: 263-264. [§] corresponding author
28. Arosio B*, Bulbarelli A, Bastias Candia S, Lonati E, Mastronardi L, Romualdi P, Candeletti S, Gussago C, Galimberti D, Scarpini E, Dell'Osso B, Altamura AC, Maccarrone M, Bergamaschini L, **D'Addario C***, Mari D. Pin1 Contribution to Alzheimer's Disease: Transcriptional and Epigenetic Mechanisms in Patients with Late-Onset Alzheimer's Disease. * equal contribution. *Neurodegenerative Dis* 2012; 10: 207-211.
29. **D'Addario C**[§], Dell'Osso B, Palazzo MC, Benatti B, Lietti L, Cattaneo E, Galimberti D, Fenoglio C, Cortini F, Scarpini E, Arosio B, Di Francesco A, Di Benedetto M, Romualdi P, Candeletti S, Mari D, Bergamaschini L, Bresolin N, Maccarrone M, Altamura AC. Selective DNA methylation of BDNF promoter in Bipolar Disorder: differences among patients with BDI and BDII. *Neuropsychopharmacology* 2012 37: 1647-1655. [§] corresponding author
30. **D'Addario C**[§], Di Francesco A, Arosio B, Gussago C, Dell'osso B, Bari M, Galimberti D, Scarpini E, Altamura AC, Mari D, Maccarrone M[§]. Epigenetic regulation of Fatty Acid amide hydrolase in Alzheimer disease. *PLoS One.* 2012;7(6):e39186. [§] corresponding author

31. Maccarrone M*, **D'Addario C***, Di Francesco A, Trabace L, Finazzi Agrò A, Cuomo V Modulation of the endocannabinoid system in Alzheimer's disease. * equal contribution. *European J of Neurodegeneration* 1, 67-78.
32. Galimberti D, **D'Addario C**, Dell'osso B, Fenoglio C, Marcone A, Cerami C, Cappa SF, Palazzo MC, Arosio B, Mari D, Maccarrone M, Bresolin N, Altamura AC, Scarpini E. Progranulin gene (GRN) promoter methylation is increased in patients with sporadic frontotemporal lobar degeneration. *Neurol Sci*. 2013 Jun;34(6):899-903
33. **D'Addario C**[§], Caputi FF, Ekström TJ, Di Benedetto M, Maccarrone M, Romualdi P, Candeletti S. Ethanol induces epigenetic modulation of prodynorphin and nociceptin gene expression in the rat amygdala complex. *J Mol Neurosci*. 2013; 49(2):312-9. [§] corresponding author
34. **D'Addario C**[§], Dell'Osso B[§], Galimberti D, Palazzo MC, Benatti B, Di Francesco A, Altamura AC, Maccarrone M. Epigenetic Modulation of BDNF gene in Patients with Major Depressive Disorder. *Biol Psych* 2013 Jan 15;73(2):e6-7. [§] corresponding authors
35. **D'Addario C**[§], Di Francesco A, Pucci M, Finazzi Agrò A, Maccarrone M[§]. Epigenetic mechanisms and endocannabinoid signalling. *FEBS J*. 2013 May; 280(9):1905-17. [§] corresponding author
36. Di Francesco A, Arosio B, Gussago C, Dainese E, Mari D, **D'Addario C**[§], Maccarrone M*. *J Alzheimers Dis*. 2013;37(1):3-8. Involvement of 5-lipoxygenase in Alzheimer's disease: a role for DNA methylation. [§] corresponding authors
37. Pucci M, Rapino C, Di Francesco A, Dainese E, **D'Addario C**[§], Maccarrone M[§]. Epigenetic control of skin differentiation genes by phytocannabinoids. *Br J Pharmacol*. 2013 Oct;170(3):581-91. [§] corresponding authors
38. Caputi FF, Di Benedetto M, Carretta D, Bastias del Carmen Candia S, **D'Addario C**, Cavina C, Candeletti S, Romualdi P. Dynorphin/KOP and nociceptin/NOP gene expression and epigenetic changes by cocaine in rat striatum and nucleus accumbens. *Prog Neuropsychopharmacol Biol Psychiatry*. 2014 Mar 3;49:36-46.
39. Bastias-Candia S, Di Benedetto M, **D'Addario C**, Candeletti S, Romualdi P. Combined exposure to agriculture pesticides, paraquat and maneb, induces alterations in the N/OFQ-NOPr and PDYN/KOPr systems in rats: Relevance to sporadic Parkinson's disease. *Environ Toxicol*. 2013 Dec 23. doi: 10.1002/tox.21943.
40. **D'Addario C**[§], Di Francesco A, Trabace L, Finazzi Agrò A, Cuomo V, Maccarrone M[§]. Endocannabinoid signaling in Alzheimer's disease: current knowledge and future directions. *J Biol Regul Homeost Agents*. 2013 Apr-Jun;27(2 Suppl):61-73. [§] corresponding authors
41. Arosio B*, **D'Addario C***, Gussago C, Casati M, Tedone E, Ferri E, Nicolini P, Rossi PD, Maccarrone M, Mari D. Peripheral blood mononuclear cells as laboratory to study dementia in the elderly. *Biomed Res Int*. 2014;2014:169203. * equal contribution
42. Dell'Osso B*[§], **D'Addario C***[§], Carlotta Palazzo M, Benatti B, Camuri G, Galimberti D, Fenoglio C, Scarpini E, Di Francesco A, Maccarrone M, Altamura AC. Epigenetic modulation of BDNF gene: differences in DNA methylation between unipolar and bipolar patients. *J Affect Disord*. 2014 Sep;166:330-3. * equal contribution [§] corresponding authors
43. **D'Addario C**[§], Micioni Di Bonaventura MV, Pucci M, Romano A, Gaetani S, Ciccocioppo R, Cifani C, Maccarrone M[§]. Endocannabinoid signaling and food addiction. *Neurosci Biobehav Rev*. 2014 Aug 27;47C:203-224. [§] corresponding authors
44. Di Francesco A, Falconi A, Di Germanio C, Micioni Di Bonaventura MV, Costa A, Caramuta S, Del Carlo M, Compagnone D, Dainese E, Cifani C, Maccarrone M, **D'Addario C**[§]. Extravirgin olive oil up-regulates CB1 tumor suppressor gene in human colon cancer cells and in rat colon via epigenetic mechanisms. *J Nutr Biochem*. 2015 Mar;26(3):250-8. [§] corresponding authors
45. Di Francesco A, Arosio B, Falconi A, Micioni Di Bonaventura MV, Karimi M, Mari D, Casati M, Maccarrone M, **D'Addario C**[§]. Global changes in DNA methylation in Alzheimer's disease peripheral blood mononuclear cells. *Brain Behav Immun*. 2015 Mar;45:139-44. [§] corresponding authors
46. Caputi FF, Palmisano M, **D'Addario C**, Candeletti S, Romualdi P. Effects of acute ethanol exposure on class I HDACs family enzymes in wild-type and BDNF(+/-) mice. *Drug Alcohol Depend*. 2015 Oct 1;155:68-75.
47. Cifani C, Micioni Di Bonaventura MV, Pucci M, Giusepponi ME, Romano A, Di Francesco A, Maccarrone M, **D'Addario C**[§]. Regulation of hypothalamic neuropeptides gene expression in diet induced obesity resistant rats: possible targets for obesity prediction? *Front Neurosci*. 2015 Jun 8;9:187. [§] corresponding authors
48. Mancino S, Burokas A, Gutiérrez-Cuesta J, Gutiérrez-Martos M, Martín-García E, Pucci M, Falconi A, **D'Addario C**, Maccarrone M, Maldonado R. Epigenetic and Proteomic Expression Changes Promoted by Eating Addictive-Like Behavior. *Neuropsychopharmacology*. 2015 May 6. doi: 10.1038/npp.2015.129.
49. Pucci M, Micioni Di Bonaventura MV, Giusepponi ME, Romano A, Filafferro M, Maccarrone M, Ciccocioppo R, Cifani C, **D'Addario C**[§]. Epigenetic regulation of nociceptin/orphanin FQ and corticotropin-releasing factor system genes in frustration stress-induced binge-like palatable food consumption. *Addict Biol*. 2016, 21(6):1168-1185. [§] corresponding authors
50. Caputi FF, Palmisano M, **D'Addario C**, Candeletti S, Romualdi P. Effects of acute ethanol exposure on class I HDACs family enzymes in wild-type and BDNF(+/-) mice. *Drug Alcohol Depend*. 2015; 155: 68-75.
51. Pucci M, **D'Addario C**[§]. Assessing Gene Expression of the Endocannabinoid System. *Methods Mol Biol*. 2016;1412:237-46. [§] corresponding authors
52. Ferri E, Arosio B, **D'Addario C**, Galimberti D, Gussago C, Pucci M, Casati M, Fenoglio C, Abbate C, Rossi

PD, Scarpini E, Maccarrone M, Mari D. Gene promoter methylation and expression of Pin1 differ between patients with frontotemporal dementia and Alzheimer's disease. *J Neurol Sci.* 2016 Mar 15;362:283-6.

53. Catanzaro G, Pucci M, Viscomi MT, Lanuti M, Feole M, Angeletti S, Grasselli G, Mandolesi G, Bari M, Centonze D, **D'Addario C**[§], Maccarrone M. Epigenetic modifications of Dexas 1 along the nNOS pathway in an animal model of multiple sclerosis. *J Neuroimmunol.* 2016 May 15;294:32-40. [§] corresponding authors

54. Zoratto F, Romano E, Pascale E, Pucci M, Falconi A, Dell'Osso B, Maccarrone M, Laviola G, **D'Addario C**, Adriani W. Down-regulation of serotonin and dopamine transporter genes in individual rats expressing a gambling-prone profile: A possible role for epigenetic mechanisms. *Neuroscience.* 2017 Jan 6;340:101-116.

55. **D'Addario C**[§], Shchetynsky K, Pucci M, Cifani C, Gunnar A, Vukojević V, Padyukov L, Terenius L. Genetic variation and epigenetic modification of the prodynorphin gene in peripheral blood cells in alcoholism. *Prog Neuropsychopharmacol Biol Psychiatry.* 2017 Mar 21;76:195-203. [§] corresponding author

56. Adriani W, Romano E, Pucci M, Pascale E, Cerniglia L, Cimino S, Tambelli R, Curatolo P, Granstrem O, Maccarrone M, Laviola G, **D'Addario C**. Potential for diagnosis versus therapy monitoring of attention deficit hyperactivity disorder: a new epigenetic biomarker interacting with both genotype and auto-immunity. *Eur Child Adolesc Psychiatry.* 2018 Feb;27(2):241-252.

57. **D'Addario C**[§], Micale V, Di Bartolomeo M, Stark T, Pucci M, Sulcova A, Palazzo M, Babinska Z, Cremaschi L, Drago F, Carlo Altamura A, Maccarrone M, Dell'Osso B. A preliminary study of endocannabinoid system regulation in psychosis: Distinct alterations of CNR1 promoter DNA methylation in patients with schizophrenia. *Schizophr Res.* 2017 Jan 17. pii: S0920-9964(17)30031-2. [§] corresponding author

58. **D'Addario C**[§], Candia SB, Arosio B, Di Bartolomeo M, Abbate C, Casè A, Candeletti S, Romualdi P, Damanti S, Maccarrone M, Bergamaschini L, Mari D. Transcriptional and epigenetic phenomena in peripheral blood cells of monozygotic twins discordant for alzheimer's disease, a case report. *J Neurol Sci.* 2017 Jan 15;372:211-216. doi: 10.1016/j.jns.2016.11.052. [§] corresponding author

59. Wille-Bille A, Miranda-Morales RS, Pucci M, Bellia F, **D'Addario C**[§], Pautassi RM. Prenatal ethanol induces an anxiety phenotype and alters expression of dynorphin & nociceptin/orphanin FQ genes. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018 Jul 13;85:77-88. [§] corresponding author

60. **D'Addario C**[§], Palazzo MC, Benatti B, Grancini B, Pucci M, Di Francesco A, Camuri G, Galimberti D, Fenoglio C, Scarpini E, Altamura AC, Maccarrone M, Dell'Osso B. Regulation of gene transcription in bipolar disorders: Role of DNA methylation in the relationship between prodynorphin and brain derived neurotrophic factor. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018 Mar 2;82:314-321. [§] corresponding author

61. Cimino S, Cerniglia L, Ballarotto G, Marzilli E, Pascale E, **D'Addario C**, Adriani W, Tambelli R. DNA Methylation at the DAT Promoter and Risk for Psychopathology: Intergenerational Transmission between School-Age Youths and Their Parents in a Community Sample. *Front Psychiatry.* 2018 Jan 10;8:303.

62. Stark T, Ruda-Kucerova J, Iannotti FA, **D'Addario C**, Di Marco R, Pekarik V, Drazanova E, Piscitelli F, Bari M, Babinska Z, Giurdanella G, Di Bartolomeo M, Salomone S, Sulcova A, Maccarrone M, Wotjak CT, Starcuk Z Jr, Drago F, Mechoulam R, Di Marzo V, Micale V. Peripubertal cannabidiol treatment rescues behavioral and neurochemical abnormalities in the MAM model of schizophrenia. *Neuropharmacology.* 2019 Mar 1;146:212-221.

63. Pucci M, Micioni Di Bonaventura MV, Wille-Bille A, Fernández MS, Maccarrone M, Pautassi RM, Cifani C, **D'Addario C**[§]. Environmental stressors and alcoholism development: Focus on molecular targets and their epigenetic regulation. *Neurosci Biobehav Rev.* 2018 Jul 11. pii: S0149-7634(18)30108-8.

64. Prenatal ethanol induces an anxiety phenotype and alters expression of dynorphin & nociceptin/orphanin FQ genes. Wille-Bille A, Miranda-Morales RS, Pucci M, Bellia F, **D'Addario C**[§], Pautassi RM. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018 Jul 13;85:77-88.

65. Pucci M, Micioni Di Bonaventura MV, Zaplatic E, Bellia F, Maccarrone M, Cifani C, **D'Addario C**[§]. Transcriptional regulation of the endocannabinoid system in a rat model of binge-eating behavior reveals a selective modulation of the hypothalamic fatty acid amide hydrolase gene. *Int J Eat Disord.* 2018 Dec 22. doi: 10.1002/eat.22989.

66. Wille-Bille A, Bellia F, Jiménez García AM, Miranda-Morales RS, **D'Addario C**[§], Pautassi RM. Early exposure to environmental enrichment modulates the effects of prenatal ethanol exposure upon opioid gene expression and adolescent ethanol intake. *Neuropharmacology.* 2020 Mar 15;165:107917.

67. Fernández MS, Bellia F, Ferreyra A, Chiner F, Jiménez García AM, **D'Addario C**[§], Pautassi RM. Short-term selection for high and low ethanol intake during adolescence exerts lingering effects in stress-induced ethanol drinking and yields an anxiety-prone phenotype. *Behav Brain Res.* 2020 Feb 17;380:112445.

68. Ginés I, Gil-Cardoso K, **D'Addario C**, Falconi A, Bellia F, Blay MT, Terra X, Ardévol A, Pinent M, Beltrán-Debón R. Long-Lasting Effects of GSPE on Ileal GLP-1R Gene Expression Are Associated with a Hypomethylation of the GLP-1R Promoter in Female Wistar Rats. *Biomolecules.* 2019 Dec 12;9(12). pii: E865

69. Falconi A, Bonito-Oliva A, Di Bartolomeo M, Massimini M, Fattapposta F, Locuratolo N, Dainese E, Pascale E, Fisone G, **D'Addario C**[§]. On the Role of Adenosine A2A Receptor Gene Transcriptional Regulation in Parkinson's Disease. *Front Neurosci.* 2019 Jul 10;13:683

70. Cimino S, Cerniglia L, Ballarotto G, Marzilli E, Pascale E, **D'Addario C**, Adriani W, Marenmani AGI, Tambelli R. Children's DAT1 Polymorphism Moderates the Relationship Between Parents' Psychological Profiles,

Children's DAT Methylation, and Their Emotional/Behavioral Functioning in a Normative Sample. *Int J Environ Res Public Health*. 2019 Jul 18;16(14). pii: E2567.

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Partecipazione a comitati editoriali di riviste, collane editoriali, enciclopedie e trattati di riconosciuto prestigio

- Partecipazione a Volume: Molecular Aspects of Alcohol and Nutrition, Volume in the Molecular Nutrition Series, Edited by: Vinood B. Patel ISBN: 978-0-12-800773-0. Chapter 21 - Alcohol and Epigenetic. Modulations, Pages 261-273, <http://www.sciencedirect.com/science/book/9780128007730>
- Partecipazione a Volume: In: Endocannabinoid Signaling. Methods in Molecular Biology, vol 1412. Humana Press, New York, NY Assessing Gene Expression of the Endocannabinoid System. *Methods Mol Biol.* (2016) 1412:237-46.
- Partecipazione a Volume: L'epigenetica. I radicali liberi e la loro rilevanza in biomedicine (2016). Appendice B
- Guest Associate Editor for Neuroenergetics, Nutrition and Brain Health. Research Topic "Molecular Clues to Food Addiction-like Behavior"

Attività di revisione

- **per riviste internazionali indicizzate:** Alcohol Research & Health, Biological Psychiatry, Brain, Behavior and Immunity, British Journal of Pharmacology, Cannabis & Cannabinoids, European Neuropsychopharmacology, Journal of Alzheimer Disease, Neuroscience & Biobehavioral Reviews, Phytotherapy, PLoS One, Scientific Reports, Translational Psychiatry,
- **per valutazione di progetti di ricerca internazionali:** Parkinson's Disease Society of the United Kingdom; the Croatian Science Foundation; Israel Science Foundation; Poland National Science Centre.

Risultati ottenuti nel trasferimento tecnologico in termini di partecipazione alla commercializzazione di brevetti

Brevetto d'invenzione "METODO PER DETERMINARE IL DEFICIT DI ATTENZIONE CON IPERATTIVITÀ" depositato al n. 102016000129938 dal 10-02-2017 a oggi.

Brevetto d'invenzione "Composizione per la prevenzione e trattamento della dermatite atopica" depositato al n. 102019000003325 dal 07-03-2019 a oggi

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