

PERSONAL INFORMATION Marco Andrea Riva

WORK EXPERIENCE

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- From 2017 President/coordinator Degree course in Pharmacy
University of Milan
 - From 2015 Full Professor of Pharmacology,
Department of Pharmacological and Biomolecular Sciences, University of Milan, Italy
 - From 11/14 to 10/17 Deputy Director of the Department of Pharmacological and Biomolecular Sciences,
University of Milan, Italy
 - 2014 National habilitation to Full professor of Pharmacology

 - From 2001 to 2015 Associate Professor,
Department of Pharmacological and Biomolecular Sciences, University of Milan, Italy
 - From 1998 to 2001 Assistant Professor,
Institute of Pharmacological Sciences, University of Milan, Italy
 - From 1994 to 1998 Research Assistant at Di.Bi.T., San Raffaele Hospital, Milan, Italy
 - From 1991 to 1993 Research Assistant at the Center for Neuropharmacology,
Institute of Pharmacological Sciences, University of Milan, Italy
 - From 1989 to 1991 Postdoctoral Research Associate at the Department of Anatomy and Cell Biology,
Georgetown University, Washington D.C
 - From 1987 to 1989 Postdoctoral Research Fellow at the Center for Molecular and Behavioral Neuroscience,
Rutgers the State University of New Jersey, Newark, New Jersey, U.S.A
 - From 1985 to 1987 Postdoctoral Fellow at the Laboratory of Neuropsychopharmacology
Institute of Pharmacological Sciences, University of Milan, Italy

EDUCATION AND TRAINING

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- 1987 PhD in Pharmacology (full marks cum laude)
University of Milan, Italy
 - 2014 Master degree in Pharmaceutical Chemistry and Technology (full marks)
University of Milan, Italy
 - 1978-1984 Pharmaceutical Chemistry and Technology, Faculty of Pharmacy
University of Milan,
 - 1978 Graduation from High School (Liceo Frisi, Monza, Italy).

PERSONAL SKILLS

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- Mother tongue(s) Italian
 - Other language(s) English

COMMUNICATION SKILLS

Good communication skills gained through my experience University professor as well as speaker at National and International conferences

Organisational / managerial skills

Research group lead for more than 20 years (currently responsible of a group with more than 12 people)
 Long-term experience in organizing and coordinating research teams and projects
 Coordinator, Degree in Pharmacy – University of Milan (> 1.000 students)

ADDITIONAL INFORMATION

Publications

Author of 212 papers on peer review journals and 21 chapters of books or Congress proceedings.
 Average Impact factor: **4.7**
Average Impact factor top 20 publications: 10,75
 H Index: **60** (Google scholar)
 I10 index: **121**
 G index: **78**

**Conferences
 Seminars**

Invited speaker at University or Foreign laboratories, including Sandoz Pharma, Eli Lilly UK, University of Dublin, University of Heidelberg, Hannover Medical School, ETH Zurich, Radbound University of Nijmegen.
 124 Invitations to International and National congresses;

Projects/Grants

Recipient of grants from Italian Agencies (Ministry of University and Ministry of Health), non-profit organizations (NARSAD, CARIPO), European Union (ERANET) and pharmaceutical industries.

**Conference/meeting
 organizer**

Organizer of symposia at national and International Congresses
 Organization SIF meeting entitled '*Mood disorders: from neurobiology to novel therapeutic strategies*' Modena, 20-21 March, 2014
 Organization of the meeting '*Drugs of abuse and mental illness*' - Milano November 5-6
 Organization SIF meeting entitled '*The stressed brain: psychopathologic implications and pharmacological intervention*' Milano, 3-4 March, 2016
 Organizer of the 49th Annual Conference of the International Society of Psychoneuroendocrinology in Milan (August 29-31, 2019)

Other activities

Advisory board member for Eli Lilly and AstraZeneca
 Speakers at CME courses.

Memberships

- Society for Neuroscience.
- Collegium Internationale Neuropsychopharmacologicum
- European College of Neuropsychopharmacology
- Italian Society of Pharmacology.
- Italian Society of Neuroscience.
- Italian Society of Neuropsychopharmacology

Citations

Total number citations: over **8.000**

ANNEXES

List of publications

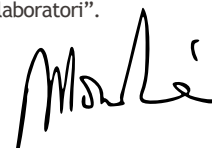
Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

July 15th, 2020

Signature



ANNEX 1 - List of publications

Publication

1. Brunello N., **Riva M.**, Volterra A. and Racagni G. Age-related changes in 5-HT uptake and 3H-imipramine binding sites in rat cerebral cortex. *Eur. J. Pharmacol.* 110: 393-394, 1985.
 2. Racagni, G, Brunello, N, Rovescalli, AC, **Riva M.**, Franzetti, C, Galimberti, H, Cuomo, V. Receptor regulation and neurotransmitter interactions in the synaptic biochemical-changes induced by prolonged antidepressant administration. *Clinical Neuropharmacology* 9:110-112, 1986
 3. Brunello N., Rovescalli A.C., **Riva M.** and Racagni G. Lack of serotonergic modulation on 3H-imipramine binding sites in basal conditions and during prolonged treatment with desmethylimipramine. *Psychopharmacology Bull.* 22:931-936, 1986.
 4. Brunello N., **Riva M.**, Volterra A. and Racagni G. Effect of some tricyclic and nontricyclic antidepressants on [3H]imipramine binding and serotonin uptake in rat cerebral cortex after prolonged treatment. *Fundam Clin Pharmacol.* 1:327-333, 1987.
 5. Brunello N., **Riva M.**, Rovescalli A.C., Galimberti R. and Racagni G. Age-related changes in rat serotonergic and adrenergic systems and in receptor responsiveness to subchronic desipramine treatment. *Pharmacol. Toxicol.* 63:150-155, 1988.
 6. Rovescalli A.C., Brunello N., **Riva M.**, Galimberti R. and Racagni G. Effect of different photoperiod exposure on [3H]imipramine binding and serotonin uptake in the rat. *J. Neurochem.* 52:507-514, 1989.
 7. **Riva M.**, Brunello N., Rovescalli A.C., Galimberti R., Carfagna N., Carminati P., Pozzi O., Ricciardi S., Roncucci R., Rossi A. and Racagni G. Effect of reboxetine, a new antidepressant drug, on the central noradrenergic system: Behavioural and biochemical studies. *J. Drug Development* 1:243-253, 1989
 8. **Riva M.A.** and Creese I. Comparison of two putatively selective radioligands for labelling central nervous system beta-adrenergic receptors: inadequacy of [3H]dihydroalprenolol. *Mol. Pharmacol.* 36:201-210, 1989.
 9. **Riva M.A.** and Creese I. Re-evaluation of the regulation of beta-adrenergic receptor binding by desipramine treatment. *Mol. Pharmacol.* 36:211-218, 1989.
 10. Van Tol H.H., **Riva M.A.**, Civelli O. and Creese I. Lack of effect of chronic dopamine receptor blockade on D2 dopamine receptor mRNA levels. *Neurosci. Lett.* 111:303-308, 1990.
 11. Creese, I. and Van Tol, H. H. M. and **Riva M.A.** and Civelli, O. Lack of effect of chronic dopamine receptor blockade on D2 dopamine receptor mRNA levels. *Eur. J. Pharmacol.* 183:1404, 1990.
 12. **Riva M.A.** and Mocchetti I. Developmental expression of the basic fibroblast growth factor gene in rat brain. *Dev. Brain Res.* 62: 45-50, 1991.
 13. **Riva M.A.**, Gale K. and Mocchetti I. Basic fibroblast growth factor mRNA increases in specific brain regions following convulsive seizures. *Mol. Brain Res.* 15:311-318, 1992.
 14. Longone P., Mocchetti I., **Riva M.A.** and Wojcik W.J. Characterization of a decrease in muscarinic M2 mRNA in cerebellar granule cells by carbachol. *J. Pharmacol. Exp. Ther.* 265:441-446, 1993.
 15. **Riva M.A.**, Donati E., Tascetta F., Zolli M. and Racagni G. Short and long term induction of basic fibroblast growth factor gene expression in rat central nervous system following kainate injection. *Neuroscience* 59:55-65, 1994.
 16. **Riva M.A.**, Tascetta F., Molteni R. and Racagni G. Regulation of NMDA receptor subunit mRNA expression in the rat brain during postnatal development. *Mol. Brain Res.* 25:209-216, 1994.
 17. Maggio R., Fumagalli F., Donati E., Barbier P., Racagni G., Corsini G.U. and **Riva M.** Inhibition of nitric oxide synthase dramatically affects seizures induced by kainic acid and pilocarpine in rats.
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- Brain Res.* 679:184-187, 1995.
18. **Riva M.A.**, Fumagalli F. and Racagni G. Opposite regulation of basic fibroblast growth factor and nerve growth factor gene expression in rat cortical astrocytes following dexamethasone treatment. *J. Neurochem.* 64:2526-2533, 1995.
 19. **Riva M.A.**, Fumagalli F., Blom J.M., Donati E. and Racagni G. Adrenalectomy reduces FGF-1 and FGF-2 gene expression in specific rat brain regions but differently affects their induction by seizures. *Mol. Brain Res.* 34:190-196, 1995.
 20. Melcangi R.C., **Riva M.A.**, Fumagalli F., Magnaghi V., Racagni G. and Martini L.. Effect of progesterone, testosterone and their 5 alpha-reduced metabolites on GFAP gene expression in type I astrocytes. *Brain Res.*, 711:10-15, 1996.
 21. **Riva M.A.**, Molteni R., Lovati E., Fumagalli F. and Racagni G. Cyclic AMP dependent regulation of fibroblast growth factor-2 messenger RNA levels in rat cortical astrocytes: comparison with FGF-1 and ciliary neurotrophic factor. *Mol. Pharmacol.* 49: 699-706, 1996.
 22. Tascadda F., Molteni R., Racagni G. and **Riva M.A.** Acute and chronic changes in K(+)-induced depolarization alter NMDA and nNOS gene expression in cultured cerebellar granule cells. *Molec. Brain Res.* 40: 171-174, 1996.
 23. **Riva M.A.**, Molteni R. and Racagni G. L-deprenyl potentiates cAMP-induced elevation of FGF-2 mRNA levels in rat cortical astrocytes. *Neuroreport*, 8: 2165-2168, 1997.
 24. Melcangi R.C., Magnaghi V., Cavaretta I., **Riva M.A.** and Martini L. Corticosteroid effects on gene expression of myelin basic protein in oligodendrocytes and of glial fibrillary acidic protein in type 1 astrocytes. *J. Neuroendocrinol.* 9:729-733, 1997.
 25. Melcangi R.C., Galbiati M., Messi E., Magnaghi V., Cavaretta I., **Riva M.A.** and Zanisi M. Astrocyte-neuron interactions in vitro- Role of growth factors and steroids on LHRH dynamics. *Brain Res. Bull.* 44:465-469, 1997.
 26. **Riva M.A.**, Tascadda F., Lovati E. and Racagni G. Regulation of NMDA receptor subunit messenger RNA levels in the rat brain following acute and chronic exposure to antipsychotic drugs. *Mol. Brain Res.*, 50:136-142, 1997.
 27. Maggio R., **Riva M.**, Vaglini F., Fornai F., Racagni G. and Corsini G.U. Striatal increase of neurotrophic factors as a mechanism of nicotine protection in experimental parkinsonism. *J. Neural Transm.* 104:1113-1123, 1997.
 28. Simonato M., Molteni R., Bregola G., Muzzolini A., Piffanelli M., Beani L., Racagni G. and **Riva M.** Different patterns of induction of FGF-2, FGF-1 and BDNF mRNA's during kindling epileptogenesis. *Eur. J. Neurosci.* 10:955-963, 1998.
 29. **Riva M.A.**, Molteni R. and Racagni G. Differential regulation of FGF-2 and FGFR-1 in rat cortical astrocytes by dexamethasone and isoproterenol. *Mol. Brain Res.*, 57:38-45, 1998.
 30. Melcangi R.C., Magnaghi V., Cavarretta I., **Riva M.A.**, Piva F. and Martini L. Effects of steroid hormones on gene expression of glial markers in the central and peripheral nervous system: variations induced by aging. *Exp. Gerontol.* 33: 827-836, 1998.
 31. Maggio R., **Riva M.**, Vaglini F., Fornai F., Molteni R., Armogida M., Racagni G. and Corsini G.U. Nicotine prevents experimental parkinsonism in rodents and induces striatal increase of neurotrophic factors. *J. Neurochem.* 71:2439-2446, 1998.
 32. **Riva M.A.**, Molteni R., Tascadda F., Massironi A., and Racagni G. Selective modulation of fibroblast growth factor-2 expression in the rat brain by the atypical antipsychotic clozapine. *Neuropharmacology* 38:1075-1082, 1999.
 33. Tascadda F, Lovati E., Blom J.M., Muzzioli P., Brunello N., Racagni G. and **Riva M.A.** Regulation of ionotropic glutamate receptors in the rat brain in response to the atypical antipsychotic seroquel (quetiapine fumarate). *Neuropsychopharmacology* 21:211-217, 1999.

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34. Magnaghi V., **Riva M.A.**, Cavarretta I., Martini L. and Melcangi R.C. Corticosteroids regulate the gene expression of FGF-1 and FGF-2 in cultured rat astrocytes. *J. Molec. Neurosci.* 15:11-18, 2000.
 35. Roceri M., Molteni R., Racagni G. and **Riva M.A.** Calcium-dependent modulation of FGF-2 expression in cultured cerebellar granule neurons. *Neuroreport* 11:3615-3619, 2000.
 36. Roceri M., Molteni R., Fumagalli F., Gennarelli M., Racagni G., Corsini G.U., Maggio R. and **Riva M.A.** Stimulatory role of dopamine on fibroblast growth factor-2 expression in rat striatum. *J. Neurochem.* 76:990-997, 2001.
 37. Molteni R., Lipska B.K., Weinberger D.R., Racagni G. and **Riva M.A.** Developmental and stress related changes of neurotrophic factor gene expression in an animal model of schizophrenia. *Molec. Psychiatry* 6:285 - 292, 2001.
 38. Fumagalli F., Santero R., Gennarelli M., Racagni G. and **Riva M.A.** Decreased hippocampal BDNF expression after acute systemic injection of quinpirole. *Neuropharmacology* 40:954-957, 2001.
 39. Tascadda F., Blom J.M., Brunello N., Zolin K., Gennarelli M., Colzi A., Bravi D., Carra S., Racagni G. and **Riva M.A.** Modulation of glutamate receptor in response to the novel antipsychotic olanzapine in rats. *Biological Psychiatry* 50:117-122, 2001.
 40. Molteni R., Fumagalli F., Magnaghi V., Roceri M., Gennarelli M., Racagni G., Melcangi R.C. and **Riva M.A.** Modulation of fibroblast growth factor-2 by stress and corticosteroids: from developmental events to adult brain plasticity. *Brain Res. Review*, 37:249-258, 2001.
 41. Ventriglia M., Bocchio Chiavetto L., Benussi L., Binetti G., Zanetti O., **Riva M.A.** and Gennarelli M. Association between BDNF 196 A/G polymorphism and sporadic Alzheimer's disease. *Molec. Psychiatry*, 7:136-137, 2002.
 42. Roceri M., Hendriks W., Racagni G., Ellenbroek B.A. and **Riva M.A.** Early maternal deprivation reduces the expression of BDNF and NMDA receptor subunits in rat hippocampus. *Mol. Psychiatry*, 7:609-616, 2002.
 43. Fumagalli F., Molteni R., Roceri M., Bedogni F., Santero R., Fossati C., Gennarelli M., Racagni G., and **Riva M.A.** Effect of antipsychotic drugs on brain-derived neurotrophic factor expression under reduced N-methyl-D-aspartate receptor activity. *J. Neurosci. Res.* 72:622-628, 2003.
 44. Fumagalli F., Bedogni F., Maragnoli M.E., Gennarelli M., Perez J., Racagni G., and **Riva M.A.** Dopaminergic D2 receptor activation modulates FGF-2 gene expression in rat prefrontal cortex and hippocampus. *J. Neurosci. Res.*, 74:74-80, 2003.
 45. Fumagalli F., Racagni G., Colombo E. and **Riva M.A.** BDNF gene expression is reduced in the frontal cortex of dopamine transporter knock-out mice. *Molec. Psychiatry*, 8:898-899, 2003.
 46. Ellenbroek B.A. and **Riva M.A.** Early maternal deprivation as an animal model for schizophrenia. *Clinical Neuroscience Research*, 3:297-302, 2003
 47. Michelato A, Bonvicini C, Ventriglia M, Scassellati C, Randazzo R, Bignotti S, Beneduce R, **Riva M.A.** and Gennarelli M. 3' UTR (AGG)_n repeat of glial cell line-derived neurotrophic factor (GDNF) gene polymorphism in schizophrenia. *Neurosci Lett.*, 357:235-7, 2004
 48. Roceri M., Cirulli F., Pessina C., Peretto P., Racagni G. and **Riva M.A.** Postnatal repeated maternal deprivation produces age dependent changes of brain-derived neurotrophic factor expression in selected rat brain regions. *Biological Psychiatry* 55:708-714, 2004.
 49. Maragnoli M.E., Fumagalli F., Gennarelli M., Racagni G., **Riva M.A.** Fluoxetine and olanzapine have synergistic effects in the modulation of fibroblast growth factor 2 expression within the rat brain. *Biological Psychiatry*, 55:1095-1102, 2004.
 50. Fumagalli F., Bedogni F., Perez J., Racagni G., and **Riva M.A.** Cortico-striatal brain-derived neurotrophic factor dysregulation in adult rats following prenatal stress. *Eur. J. Neurosci.*,
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20:1348–1354, 2004.

51. Fumagalli F., Molteni R., Bedogni F., Gennarelli M., Perez J., Racagni G., and **Riva M.A.** Quetiapine regulates FGF-2 and BDNF expression in the hippocampus of animals treated with MK-801. *Neuroreport*, 15:2109-2112, 2004.
52. Fumagalli F., Molteni R., Calabrese F., Frasca A., Racagni G., and **Riva M.A.** Chronic fluoxetine administration inhibits extracellular signal-regulated kinase 1/2 phosphorylation in rat brain. *J. Neurochemistry*, 93:1551-1560, 2005
53. **Riva M.A.**, Molteni R., Fumagalli F., Bedogni F. and Racagni G. Emerging role of the FGF system in psychiatric disorders. *Trends Pharmacol. Sci.*, 26:228-231, 2005.
54. Fumagalli F., Bedogni F., Slotkin T.A., Racagni G. and **Riva M.A.** Prenatal stress elicits regionally selective changes in basal FGF-2 gene expression in adulthood and alters the adult response to acute or chronic stress. *Neurobiology Disease* 20:731-737, 2005.
55. Fumagalli F., Racagni G., **Riva M.A.** The expanding role of BDNF: a therapeutic target for Alzheimer's disease? *Pharmacogenomics Journal*, 6:8-15, 2006.
56. Fumagalli F., Di Pasquale L. Racagni G., **Riva M.A.** Dynamic regulation of fibroblast growth factor 2 (FGF-2) gene expression in the rat brain following single and repeated cocaine administration. *J. Neurochemistry*, 96:996–1004, 2006.
57. Fumagalli F., Racagni G., **Riva M.A.** Shedding light into the role of BDNF in the pharmacotherapy of Parkinson's disease. *Pharmacogenomics Journal*, 6:95-104, 2006.
58. Fumagalli F., Frasca A., Spartà M., Drago F., Racagni G., **Riva M.A.** Long-term exposure to the atypical antipsychotic olanzapine differently up-regulates extracellular signal-regulated kinases 1 and 2 phosphorylation in subcellular compartments of rat prefrontal cortex. *Mol Pharmacol* 69:1366–1372, 2006.
59. Molteni R., Calabrese F., Bedogni F., Tongiorgi E., Fumagalli F. Racagni G., and **Riva M.A.** Chronic treatment with fluoxetine up-regulates cellular BDNF mRNA expression in rat dopaminergic regions. *Intl. J. Neuropsychopharmacol.* 9:307-317, 2006.
60. Bocchio-Chiavetto L., Zanardini R., Bortolomasi M., Abate M., Segala M., Giacomuzzi M., **Riva M.A.**, Marchina E., Pasqualetti P., Perez J., Gennarelli M. Electroconvulsive Therapy (ECT) increases serum Brain Derived Neurotrophic Factor (BDNF) in drug resistant depressed patients. *Eur. Neuropsychopharmacology*, 16:620-4, 2006
61. Fumagalli F., Bedogni F., Frasca A., Di Pasquale L. Racagni G., **Riva M.A.** Corticostriatal up-regulation of Activity Regulated Cytoskeletal-associated protein (Arc) expression following repeated exposure to cocaine. *Mol Pharmacol.* 70:1726-1734, 2006.
62. Fadda P., Bedogni F., Fresu A., Collu M., Racagni G. **Riva M.A.** Reduction of corticostriatal glutamatergic fibers in basic fibroblast growth factor deficient mice is associated with hyperactivity and enhanced dopaminergic transmission. *Biological Psychiatry*, 62:235-242, 2007.
63. Leo D., Di Porzio U., Racagni G., **Riva M.A.**, Fumagalli F., Perrone-Capano C. Chronic cocaine administration modulates the expression of transcription factors involved in midbrain dopaminergic neuron function. *Exp. Neurology* 203:472-480, 2007.
64. Giachino C., Canalia N., Capone F., Fasolo A., Alleva E., **Riva M.A.**, Cirulli F. and Peretto P. Maternal deprivation and early handling affect density of calcium binding protein-containing neurons in selected brain regions and emotional behavior in periadolescent rats. *Neuroscience*, 145:568-78, 2007
65. Fumagalli F., Molteni R., Racagni G., **Riva M.A.** Stress during development: impact on neuroplasticity and relevance to psychopathology. *Progress Neurobiology* 81:197-217, 2007.
66. Maj P.F., Collu M, Fadda P, Cattaneo A, Racagni G, **Riva M.A.** Long-term reduction of brain-derived neurotrophic factor levels and signaling impairment following prenatal treatment with the cannabinoid receptor 1 receptor agonist (R)-(+)-[2,3-dihydro-5-methyl-3-(4-morpholinyl-methyl)-

- pyrrolo[1,2,3-de]-1,4-benzoxazin-6-yl]-1- naphthalenylmethanone. *Eur. J. Neurosci.* 25:3305-3311, 2007.
67. Calabrese F., Molteni R., Maj P.F., Cattaneo A., Gennarelli M., Racagni G., and **Riva M.A.** Chronic Duloxetine Treatment Induces Specific Changes in the Expression of BDNF Transcripts and in the Subcellular Localization of the Neurotrophin Protein. *Neuropsychopharmacology* 32:2351-2359, 2007.
 68. Gass P. and **Riva M.A.** CREB, neurogenesis and depression. *Bioessays* 29:957-961, 2007.
 69. Racagni G., **Riva M.A.** and Popoli M. The interaction between the internal clock and antidepressant efficacy. *Intl. Clinical Psychopharmacol.* 22 (suppl. 2):S9-S14, 2007.
 70. Barbon A., Fumagalli F., La Via L., Caracciolo L., Racagni G., **Riva M.A.** and Barlati S. Chronic phencyclidine administration reduces the expression and editing of specific glutamate receptors in rat prefrontal cortex. *Exp. Neurology* 208:54-62, 2007
 71. Fumagalli F., Di Pasquale L., Caffino L., Racagni G., **Riva M.A.** Repeated exposure to cocaine differently modulates BDNF mRNA and protein levels in rat striatum and prefrontal cortex. *Eur. J. Neurosci.*, 26:2756-63, 2007.
 72. Fumagalli F., Di Pasquale L., Caffino L., Racagni G., **Riva M.A.** Stress and cocaine interact to modulate basic fibroblast growth factor (FGF-2) expression in rat brain. *Psychopharmacology (Berl)*, 196:357-364, 2008.
 73. Gardoni F., Frasca A., Zianni E., **Riva M.A.**, Di Luca M., Fumagalli F. Repeated treatment with haloperidol but not olanzapine alters synaptic NMDA receptor composition in rat striatum. *Eur. Neuropsychopharmacology*, 18:531-534, 2008.
 74. Fumagalli F., Frasca A., Racagni G., **Riva M.A.** Dynamic regulation of glutamatergic post-synaptic activity in rat prefrontal cortex by repeated administration of antipsychotic drugs. *Molecular Pharmacol*, 73:1484-1490, 2008
 75. Molteni R., Pasini M., Moraschi S., Gennarelli M., Drago F., Racagni G. and **Riva M.A.** Reduced activation of intracellular signaling pathways in rat prefrontal cortex after chronic phencyclidine administration. *Pharmacol. Res.*, 57:296-302, 2008.
 76. Chourbaji S., Vogt MA, Fumagalli F, Sohr R, Frasca A, Brandwein C, Hörtnagl H, **Riva M.A.**, Sprengel R, Gass P. AMPA receptor subunit (GluR-A) knockout mice model the glutamate hypothesis of depression. *FASEB J.*, 22:3129-3134, 2008
 77. Fumagalli F., Molteni R., Calabrese F., Maj P.F., Racagni G. and **Riva M.A.** Neurotrophic factors in neurodegenerative disorders: potential for therapy. *CNS Drugs*, 22:1005-1019, 2008
 78. Frasca A., Fumagalli F., Ter Horst J., Racagni G., Murphy K.J. and **Riva M.A.** Olanzapine, but not haloperidol, enhances PSA-NCAM immunoreactivity in rat prefrontal cortex. *Int J. Neuropsychopharmacol.*, 11:591-595, 2008.
 79. Molteni R., Calabrese F., Mancini M., Racagni G. and **Riva M.A.** Basal and stress-induced modulation of activity-regulated cytoskeletal associated protein (Arc) in the rat brain following duloxetine treatment. *Psychopharmacology (Berl)* 201:285-92, 2008.
 80. Fumagalli F., Frasca A., Racagni G., **Riva M.A.** Antipsychotic drugs modulate Arc expression in the rat brain. *Eur. Neuropsychopharmacology*, 19:109-115, 2009
 81. Fumagalli F., Franchi C., Caffino L., Racagni G., **Riva M.A.** and Cervo L. Single session of cocaine intravenous self-administration shapes goal-oriented behaviors and up-regulates Arc mRNA levels in rat medial prefrontal cortex. *Int J Neuropsychopharmacol.* 12:423-429, 2009
 82. Fumagalli F., Frasca A., Racagni G., **Riva M.A.** Cognitive effects of second generation antipsychotics: current insights into neurochemical mechanisms. *CNS Drugs* 23:603-614, 2009.
 83. Molteni R, Calabrese F., Cattaneo A., Mancini M., Gennarelli M., Racagni G., and **Riva M.A.** Acute stress responsiveness of the neurotrophin BDNF in the rat hippocampus is modulated by

- chronic treatment with the antidepressant duloxetine. *Neuropsychopharmacology*. 34:1523-1532, 2009
84. Fumagalli F., Caffino L., Racagni G. and **Riva M.A.** Repeated stress prevents cocaine-induced activation of BDNF signaling in rat prefrontal cortex. *Eur. Neuropsychopharmacology* 19:402-408, 2009
 85. Fumagalli F., Pasini M., Frasca A., Drago F., Racagni G. and **Riva M.A.** Prenatal stress alters glutamatergic system responsiveness in adult rat prefrontal cortex. *J. Neurochemistry* 109:1733-1744, 2009.
 86. Molteni R, Calabrese F., Racagni G., Fumagalli F. and **Riva M.A.** Antipsychotic drug actions on gene modulation and signaling mechanisms. *Pharmacology and Therapeutics* 124:74-85, 2009
 87. Calabrese F., Molteni R, Racagni G., and **Riva M.A.** Neuronal plasticity: a link between stress and mood disorders. *Psychoneuroendocrinology*, 34 Suppl 1:S208-16, 2009
 88. Molteni R, Calabrese F., Maj P.F., Olivier J.D., Racagni G., Ellenbroek B.A., and **Riva M.A.** Altered expression and modulation of activity-regulated cytoskeletal associated protein (Arc) in serotonin transporter knockout rats. *Eur. Neuropsychopharmacology*, 19:898-904, 2009
 89. Inta D., Trusel M., **Riva M.A.**, Sprengel R. and Gass P. Differential c-Fos induction by different NMDA receptor antagonists with antidepressant efficacy: potential clinical implications. *Int J Neuropsychopharmacol.*, 12:1133-1136, 2009
 90. Molteni R., Calabrese F., Chourbaji S., Brandwein C., Racagni G, Gass P. and **Riva M.A.** Depression-prone mice with reduced glucocorticoid receptor expression display an altered stress-dependent regulation of brain-derived neurotrophic factor and Activity-regulated cytoskeleton associated protein. *J. Psychopharmacol.* 24:595-603, 2010.
 91. Molteni R, Cattaneo A., Calabrese F., Pisoni S., Gabriel C., Mocaer E., Racagni G., and **Riva M.A.** Synergistic mechanisms in the modulation of the neurotrophin BDNF in the rat prefrontal cortex following acute agomelatine administration. *World Journal of Biological Psychiatry*, 11:148-53, 2010
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