

PERSONAL INFORMATION **Barbara Viviani**

WORK EXPERIENCE

- 2017-2019 **Chair of Bachelor, Chemical Safety and Toxicological Environmental Sciences**
Department of Pharmacological and Biomolecular Sciences (DiSFeB) – University of Milan
http://www.farmacia.unimi.it/CorsiDiLaurea/2018/E17of1/index_ITA_HTML.html
- Business or sector** Education
- Member of the Executive Committee of the Italian Society of Toxicology**
<https://www.sitox.org>
- Business or sector** Education and science promotion
- 2015- now **Review Editor**
Frontiers in Molecular Neuroscience
www.frontiersin.org
- Revision of submitted articles
- Business or sector** Neuroscience
- 2014- 2019 **Scientific Expert**
European Food Safety Authority Via Carlo Magno 1A, 43126 Parma, Italy
<http://www.efsa.europa.eu/it/>
- WG Member – collaborating with Scientific Panel on Contaminants in the Food; (CONTAM) Scientific Panel on Plant Protection Products and Their Residues (PRAS)
- Business or sector** Food Safety
- 2011- 2015 **Review Editor**
Frontiers in Immunology
www.frontiersin.org
- Revision of submitted articles
- Business or sector** Immune Science
- 2016- now **Associate Professor**
Department of Pharmacological and Biomolecular Sciences (DiSFeB) – University of Milan
<http://www.disfeb.unimi.it/ecm/home>
- Group leader of the Unit of Neurotoxicology, Tenure of courses at the Faculty of Pharmacy (Toxicology, Toxicology I)
- Business or sector** Research and Education
- 2006 - 2016 **Assistant Professor**
Department of Pharmacological and Biomolecular Sciences (DiSFeB) – University of Milan
<http://www.disfeb.unimi.it/ecm/home>
- Group leader of the Unit of Neurotoxicology, Tenure of courses at the Faculty of Pharmacy (Toxicology, Cellular Toxicology, Strategies for testing potential neurotoxicity of chemicals, Methods in the use of psychotropic drugs, Drugs in children and the elderly,)
- Business or sector** Research and Education

- 2006 - 2016 **Assistant Professor**
Catholic University Our Lady of Good Counsel, Tirana, Albania
<http://www.unizkm.al/index.php/it/>
Tenure of the course in Toxicology at the Faculty of Pharmacy
Business or sector Education
- 2004 - 2005 **Research Fellow**
Department of Pharmacological and Biomolecular Sciences (DiSFeB) – University of Milan
<http://www.disfeb.unimi.it/ecm/home>
Group leader of the Unit of Neurotoxicology, Lecturer in institutional courses of the Faculty of Pharmacy, University of Milan
Business or sector Research
- 1996 - 2003 **Post-Doc**
Department of Pharmacological Sciences – University of Milan
Development of the project entitled “Role of glia-neurons cross-talk in xenobiotics induced neurodegeneration”. Lecturer in institutional courses of the Faculty of Pharmacy, University of Milan
Business or sector Research

EDUCATION AND TRAINING

- 2015 **EFSA Systematic review training**
Sessions attended: Full process; protocol development; data extraction, heterogeneity, meta-analysis)
European Food Safety Authority Via Carlo Magno 1A, 43126 Parma, Italy
<http://www.efsa.europa.eu/it/>
EFSA Adverse Outcome Pathway Course
European Food Safety Authority Via Carlo Magno 1A, 43126 Parma, Italy
<http://www.efsa.europa.eu/it/>
EFSA Benchmark Dose Modelling
European Food Safety Authority Via Carlo Magno 1A, 43126 Parma, Italy
<http://www.efsa.europa.eu/it/>
- 1994 **PhD in Experimental Medicine, Environmental and Food toxicology**
University of Milan
- 1992- 1994 **PhD student**
Institute of Environmental Medicine- Karolinska Institute
Research topic: neurotoxicity of mercury and organotin compounds, molecular mechanisms ruling calcium homeostasis and apoptosis
Business or sector Research
- 1990- 1992 **PhD student**
Department of Pharmacological Sciences – University of Milan
Research topic: molecular mechanism of skin toxicity, alternative methods to assess skin toxicity
Business or sector Research

1983- 1989 Degree in Biological Sciences
University of Milan

Education in Biological Sciences- 2 years of an experimental thesis on "biochemical correlates of the autonomic enteric neuropathy in the experimental diabetes"

Business or sector Research

ADDITIONAL INFORMATION

Publications

1. M. Marinovich, **B. Viviani**, C.L. Galli. **Reversibility of tributyltin-chloride-induced protein synthesis inhibition after ATP recovery in HEL/30 cells.** *Toxicology Letters*, 1990, 52, 311-317. ISSN:0378-4274
2. C.L.Galli, **B. Viviani**, G. Casartelli, M. Marinovich. **ATP and protein synthesis-assay to evaluate the toxicities of preservatives in vitro.** *ATLA-Alternatives to laboratory animals*,1991, 19, 60-67. ISSN:0261-1929
3. **B. Viviani**, M. Marinovich, C.L. Galli. **Photoprotection exerted by sunscreens in a human cell line after UV damage.** *ATLA--Alternatives to laboratory animals*, 1992, vol 20, 108-115. ISSN: 0261-1929
4. C.L. Galli, **B. Viviani**, M. Marinovich. **Cell cultures: a tool for the study of mechanisms of toxicity.** *Toxicol. in Vitro*, 1993, 7, 559-568. ISSN:0887-2333
5. M. Marinovich, **B. Viviani**, C.L. Galli. **The predominant role of surfactants in the modulation of toxicity of detergent products. An "in vitro" analysis of shampoos.** *Toxicol. in Vitro*,1994, 8, 91-98. ISSN:0887-2333
6. **B. Viviani**, A.D. Rossi, S.C. Chow and P. Nicotera. **Organotin compounds induce calcium overload and apoptosis in PC12 cells.** *Neurotoxicology*, 1995, 16, 19-26. ISSN: 0161-813X
7. M. Marinovich, **B. Viviani**, E. Corsini, F. Ghilardi, C.L. Galli. **NF-kB activation by triphenyltin triggers apoptosis in HL 60 cells.** *Exp. Cell. Res.*1996, 226, 98-104. ISSN: 0014-4827
8. **B. Viviani**, C.L. Galli, M. Marinovich. **Is actin polymerization relevant to neurosecretion? A study on neuroblastoma cells.** *BBRC*, 1996, 223, 712-717. ISSN: 0006-291X
9. **B. Viviani**, A.D. Rossi, S.C. Chow, P. Nicotera. **Triethyltin interferes with Ca²⁺ signaling and potentiates norepinephrine release in PC12 cells.** *Toxicol. Appl. Pharmacol.* 1996, 140, 289-295. ISSN: 0041-008X
10. A.D. Rossi, **B. Viviani**, B. Zhivotovsky, L. Manzo, S. Orrenius, M. Vahter, P. Nicotera. **Inorganic mercury modifies Ca²⁺ signals, triggers apoptosis and potentiates NMDA toxicity in cerebellar granular neurons.** *Cell death and Differentiation*, 1997, 4, 317-324. ISSN: 1350 – 9047
11. E. Corsini, **B. Viviani**, M. Marinovich, C.L. Galli. **Role of mitochondria and calcium ions in tributyltin-induced gene regulatory pathways.** *Toxicol. and Appl. Pharmacol.*, 1997, 145, 74-81. ISSN: 0041-008X
12. M. Marinovich, M. Guizzetti, F. Ghilardi, **B. Viviani**, E. Corsini, C.L. Galli. **Thyroid peroxidase as toxicity target for dithiocarbamates.** *Arch. of Toxicol.*, 1997, 71, 508-512. ISSN: 0340-5761
13. M. Marinovich, **B. Viviani**, C.L. Galli. **Actin modifications and calcium homeostasis in neurotoxicity. The case of organotin salts.** *Toxicol. in vitro*, 1997, 11, 499-503. ISSN:0887-2333
14. E. Corsini, **B. Viviani**, M. Marinovich, C.L. Galli. **Primary role of mitochondria and calcium ions in the induction of reactive oxygen species by external stimuli such as triorganotins.** *Toxicol. in Vitro*, 1998, 12, 551-556. ISSN:0887-2333
15. **B. Viviani**, E. Corsini, C.L. Galli, M. Marinovich. **Glia increase degeneration of hippocampal neurons through release of tumor necrosis factor- α .** *Toxicol and Appl. Pharmacol.* 1998, 150, 271-276. ISSN: 0041-008X
16. **B. Viviani**, M. Marinovich. **Neurotoxicity: an active role for glia?** *Neurosci. Res. Comm.*, 1998, 23, 1-12. ISSN:0893-6609
17. **B. Viviani**, C.L. Galli, M. Marinovich. **Trimethyltin but not triethyltin induces specific neural cell death through the protein stannin.** *Neurosci. Res. Comm.* 1998, 23, 139-149. ISSN:0893-6609
18. E. Corsini, L. Asti, **B. Viviani**, M. Marinovich, C.L. Galli. **Sodium arsenate induces overproduction of interleukin 1 α in murine keratinocytes: role of mitochondria.** *J. of Invest. Dermatol.* 1999, 113, 760-765
19. **B. Viviani**, E. Corsini, C.L. Galli, A. Padovani, E. Ciusani, M. Marinovich. **Dying neural cells activate glia through the release of a protease product.** *Glia*, 2000, 32, 84-90. ISSN: 0894-1491
20. A. Gennari, **B. Viviani**, C.L. Galli, M. Marinovich, R. Pieters, E Corsini. **Organotins induce apoptosis by disturbance of [Ca²⁺]_i and mitochondrial activity, causing oxidative stress and activation of caspases in rat thymocytes.** *Toxicol. Appl. Pharmacol.* 2000, 169, 185-190. ISSN: 0041-008X
21. E. Vegeto, C. Bonincontro, G. Pollio, A. Sala, S. Viappiani, F. Nardi, A. Brusadelli, **B. Viviani**, P. Ciana, A. Maggi. **Estrogen prevents the lipopolysaccharide-induced inflammatory response in**

- microglia. *J. Neurosci.* 2001, 21, 1809-1818. ISSN: 0270-6474
22. **B. Viviani**, E. Corsini, M. Pesenti, C.L. Galli, M. Marinovich. **Trimethyltin-activated cyclooxygenase stimulates tumor necrosis factor- α release from glial cells through reactive oxygen species.** *Toxicol. Appl. Pharmacol.* 2001, 172, 93-97. ISSN: 0041-008X
23. E. Corsini, **B. Viviani**, L. Lucchi, M. Marinovich, M. Racchi and C.L. Galli. Ontogenesis of protein kinase C β II and its anchoring protein RACK1 in the maturation of alveolar macrophage functional responses. *Immunology letters*, 2001, 76, 89-93. ISSN: 0165-2478
24. E. Corsini, L. Lucchi, M. Binaglia, **B. Viviani**, C. Bevilacqua, G. Monastra, M. Marinovich and C.L. Galli. Cloricromene, a semi-synthetic coumarin derivative, inhibits tumor necrosis factor- α production at a pre-transcriptional level. *Eur J. Pharmacol.* 2001, 418, 231-237. ISSN:0014-2999
25. **B. Viviani**, E. Corsini, M. Binaglia, C.L. Galli, M. Marinovich. **Reactive oxygen species generated by glia are responsible for neuron death induced by human immunodeficiency virus-glycoprotein 120 in vitro.** *Neuroscience*, 2001, 107, 51-58. ISSN:0306-4522
26. G. Stacey and **B. Viviani**. **Cell culture Models for Neurotoxicology.** *Cell Biol. Toxicol.* 2001, 17, 319-334. ISSN: 0742-2091
27. E. Corsini, **B. Viviani**, M. Marinovich, C.L. Galli. Cyclosporin A exacerbates skin irritation induced by tributyltin by increasing nuclear factor kB activation. *J. Invest. Dermatol.* 2001, 117, 1627-1634. ISSN: 0022-202X
28. A. Gennari, R. Bleumink, **B. Viviani**, C.L. Galli, M. Marinovich, R. Pieters and E. Corsini. Identification by DNA microarray of nur77 as a gene induced by Di-n-butyltin dichloride: its role in organotin-induced apoptosis. *Toxicol. Appl. Pharmacol.* 2002, 181, 27-31. ISSN: 0041-008X
29. M. Marinovich, **B. Viviani**, V. Capra, E. Corsini, L. Anselmi, G.D'Agostino, A. Di Nucci, M. Binaglia, M. Tonini, C.L. Galli. **Facilitation of acetylcholine signaling by the dithiocarbamate fungicide propineb.** *Chem. Res. Toxicol.* 2002, 15, 26-32. ISSN:0893-228X
30. E. Corsini, L. Lucchi, M. Meroni, M. Racchi, B. Solerte, M. Fioravanti, **B. Viviani**, M. Marinovich, S. Govoni, C.L. Galli. In vivo dehydroepiandrosterone restores age-associated defects in the protein kinase C signal transduction pathway and related functional responses. *J. Immunol.* 2002, 168, 1753-1758. ISSN:0022-1767
31. F. Gardoni, C. Bellone, **B. Viviani**, M. Marinovich, E. Meli, D.E. Pellegrini-Giampietro, F. Cattabeni, M. Di Luca. Lack of PSD-95 drives hippocampal neuronal cell death through activation of an α CaMKII transduction pathway. *Eur. J. Neurosci.* 2002, 16, 777-786. ISSN: 0953-816X
32. **B. Viviani**, E. Corsini, M. Binaglia, L. Lucchi, C.L. Galli, M. Marinovich. The anti-inflammatory activity of estrogen in glial cells is regulated by the PKC-anchoring protein RACK-1. *J. Neurochem.* 2002, 83, 1180-1187. ISSN: 0022-3042
33. E. Corsini, **B. Viviani**, O. Zancanella, L. Lucchi, F. Visioli, G. Serrero, S. Bartesaghi, C.L. Galli and M. Marinovich. Induction of adipose differentiation related protein and neutral lipid droplet accumulation in keratinocytes by skin irritants. *Journal of Investigative Dermatology*, 2003, 121, 337-344. ISSN: 0022-202X
34. **B. Viviani**, S. Bartesaghi, F. Gardoni, A. Vezzani, M.M. Behrens, T. Bartfai, M. Binaglia, E. Corsini, M. Di Luca, C.L. Galli, M. Marinovich. **Interleukin-1 α enhances NMDA receptor-mediated intracellular calcium increase through activation of the Src family of kinases.** *J. Neurosci.* 2003, 23, 8692-8700. ISSN: 0270-6474
35. P. Villa, P. Bigini, T. Mennini, D. Agnello, T. Laragione, A. Cagnotto, **B. Viviani**, M. Marinovich, A. Cerami, T.R. Coleman, M. Brines, P. Ghezzi. Erythropoietin selectively attenuates cytokine production and inflammation in cerebral ischemia by targeting neuronal apoptosis. *J. Exp. Med.* 2003, 198, 971-975. ISSN: 0022-1007
36. E. Corsini, A. Giani, L. Lucchi, S. Peano, **B. Viviani**, C.L. Galli, M. Marinovich. Resistance to acute silicosis in senescent rats: role of alveolar macrophages. *Chem. Res. Toxicol.* 2003, 16, 1520-1527. ISSN: 0893-228X
37. **B. Viviani**, S. Bartesaghi, E. Corsini, C.L. Galli, M. Marinovich. **Cytokines role in neurodegenerative events.** *Toxicol. Lett.* 2004, 149, 85-89. ISSN:0378-4274
38. E. Corsini, M. Racchi, E. Sinforiani, L. Lucchi, **B. Viviani**, G.E. Rovati, S. Govoni, C.L. Galli, M. Marinovich. Age-related decline in RACK-1 expression in human leukocytes is correlated to plasma levels of dehydroepiandrosterone. *J. Leukocyte Biol.* 2005, 77, 247-256. ISSN: 0741-5400
39. **B. Viviani**, S. Bartesaghi, E. Corsini, P. Villa, P. Ghezzi, A. Garau, C.L. Galli, M. Marinovich. **Erythropoietin protects primary hippocampal neurons increasing the expression of brain-derived neurotrophic factor.** *J. Neurochem.* 2005, 93, 412-421. ISSN:0022-3042
40. E. Corsini, R. Di Paola, **B. Viviani**, T. Genovese, E. Mazzon, L. Lucchi, M. Marinovich, C.L. Galli, S. Cuzzocrea. Increased carrageenan-induced acute lung inflammation in old rats. *Immunology*, 2005, 115, 253-261. ISSN: 0019-2805
41. S. Bartesaghi, M. Marinovich, E. Corsini, C.L. Galli, **B. Viviani**. Erythropoietin: a novel neuroprotective cytokine. *Neurotoxicology*, 2005, 26, 923-928. ISSN: 0161-813X
42. E. Corsini, **B. Viviani**, S. Birindelli, F. Gilardi, A. Torri, I. Codecà, L. Lucchi, S. Bartesaghi, C.L. Galli, M. Marinovich, C. Colosio. **Molecular mechanisms underlying mancozeb-induced**

- inhibition of TNF-alpha production. Toxicol. Appl. Pharmacol.** 2006, 212, 89-98. ISSN: 0041-008X
43. S Ravasi, S Citro, **B Viviani**, V Capra, GE Rovati. CysLT1 receptor-induced human airway smooth muscle cells proliferation requires ROS generation, EGF receptor transactivation and ERK1/2 phosphorylation. *Respir Res.* 2006,7, 42. ISSN:1465-9921
44. E Corsini, L Vismara, L Lucchi, **B Viviani**, S Govoni, CL Galli, M Marinovich, M Racchi. High interleukin-10 production is associated with low antibody response to influenza vaccination in the elderly. *J Leukoc Biol.* 2006, 80, 376-382. ISSN: 0741-5400
45. T. Mennini, M. De Paola, P. Bigini, C. Mastrotto, E. Fumagalli, S. Barbera, M. Mengozzi, **B. Viviani**, E. Corsini, M. Marinovich, L. Torup, J. Van Beek, M. Leist, M.I Brines, A.Cerami, P. Ghezzi. **Non-hematopoietic erythropoietin derivatives prevent motoneuron degeneration in vitro and in vivo.** *Mol. Medicine*, 2006, 12, 153-160. ISSN: 1076-1551
46. **B. Viviani**, F.Gardoni, S. Bartesaghi, E. Corsini, A. Facchi, CL Galli, M. DiLuca, M. Marinovich **IL-1 β released by gp120 drives neural death through tyrosine phosphorylation and trafficking of NMDA receptors.** *J. Biol. Chem.* 2006, 281: 30212-30222. ISSN: 0021-9258
47. E Corsini, I Codeca, S Mangiaratti, S Birindelli, C Minoia, R Turci, **B Viviani**, A Facchi, N Vitelli, L Lucchi, CL Galli, M Marinovich, C Colosio. **Immunomodulatory effects of the herbicide propanil on cytokine production in humans: In vivo and in vitro exposure.** *Toxicol Appl Pharmacol.* 2007, 222: 202-210. ISSN: 0041-008X
48. **B. Viviani**, F. Gardoni, M. Marinovich. **Cytokines and neuronal ion channels in health and disease.** *Int. Rev. Neurobiol.* 2007, 82: 247-63. ISSN:0074-7742
49. M. Mitjans, B. Viviani, L. Lucchi, CL. Galli, M. Marinovich, E. Corsini. Role of P38 MAPK in the selective release of IL-8 induced by chemical allergen in naive THP-1 cells. *Toxicology in vitro*, 2008, 22, 386-395. ISSN: 0887-2333
50. M. Mengozzi, I. Cervellini, P. Bigini, S. Martone, A. Biondi, R. Pedotti, B. Gallo, S. Barbera, T. Mennini, MS Boraso, M. Marinovich, E. Petit, M. Bernaudin, R. Bianchi, **B. Viviani**, and P. Ghezzi. Endogenous Erythropoietin as Part of the Cytokine Network in the Pathogenesis of Experimental Autoimmune Encephalomyelitis. *Molecular Medicine*, 2008, 14, 682-688. ISSN: 0268-2680
51. **B. Viviani**, S. Bartesaghi, M. Binaglia, E. Corsini, MS Boraso, E. Grazi, CL. Galli, M. Marinovich. **Dithiocarbamate Propineb induces acetylcholine release through cytoskeletal actin depolymerization in PC12 cells.** *Toxicology Letters*, 2008, 182, 63-68 SSN: 0378-4274
52. E Corsini, Racchi M, Lucchi L, Donetti E, Bedoni M, **Viviani B**, Galli CL, Marinovich M. Skin immunosenescence: decreased receptor for activated C kinase-1 expression correlates with defective tumour necrosis factor-alpha production in epidermal cells. *Br J Dermatol.* 2009, 160, 16-25 . ISSN: 0007-0963
53. F Gilardi, **Viviani B**, Galmozzi A, Boraso M, Bartesaghi S, Torri A, Caruso D, Crestani M, Marinovich M, De Fabiani E. Expression of sterol 27-hydroxylase in glial cells and its regulation by liver-x receptor signaling. *Neuroscience*, 2009, 164, 530-540. ISSN: 0306-4522
54. M Mitjans, Galbiati V, Lucchi L, **Viviani B**, Marinovich M, Galli CL, Corsini E. Use of IL-8 release and p38 MAPK activation in THP-1 cells to identify allergens and to assess their potency in vitro. *Toxicol In Vitro*, 2010, 24,1803-1809. ISSN:0887-2333
55. **V Galbiati**, Mitjans M, Lucchi L, **Viviani B**, Galli CL, Marinovich M, Corsini E. **Further development of the NCTC 2544 IL-18 assay to identify in vitro contact allergens.** *Toxicol In Vitro*, 2011, 25, 724-732. ISSN:0887-2333
56. F. Gardoni, M. Boraso, E. Zianni, E. Corsini, C.L. Galli, F. Cattabeni, M. Marinovich, M. Di Luca and **B. Viviani**. Distribution of interleukin-1 receptor complex at the synaptic membrane driven by interleukin-1 β and NMDA stimulation. *J. Neuroinflammation*, 2011, 8, 14. ISSN: 1742-2094
57. B. Viviani, MS. Boraso. Cytokines and neuronal channels: a molecular basis for age-related decline of neuronal function? *Exp. Gerontol.*, 2011, 46,199-206. ISSN: 0531-5565
58. E Corsini, Sangiovanni E, Avogadro A, Galbiati V, **Viviani B**, Marinovich M, Galli CL, Dell'agli M, Germolec DR. **In vitro characterization of the immunotoxic potential of several perfluorinated compounds (PFCs).** *Toxicol. Appl. Pharmacol.* 2012, 258, 248-255. ISSN: 0041-008X
59. S Giatti, Caruso D, Boraso M, Abbiati F, Ballarini E, Calabrese D, Pesaresi M, Rigolio R, Santos-Galindo M, **Viviani B**, Cavaletti G, Garcia-Segura L.M, Melcangi R.C. Neuroprotective effects of progesterone in chronic experimental autoimmune encephalomyelitis. *J. Neuroendocrinol.* 2012, 24, 851-861. ISSN: 0953-8194
60. G. Tundo; C. Ciaccio; D. Sbardella; MS. Boraso; **B. Viviani**; M. Coletta and S. Marini. Somatostatin modulates insulin-degrading-enzyme metabolism: implications for the regulation of microglia activity in AD *Plos One*. 2012, 7, e34376-e34376. ISSN: 1932-6203
61. S Giatti, Boraso MS, Melcangi RC, **Viviani B**. Neuroactive steroids, their metabolites and neuroinflammation. *J. Mol. Endocrinol.* 2012, 49, R125-134. ISSN: 0952-5041
62. M. Di Filippo, D. Chiasserini; F. Gardoni; **B. Viviani**; A. Tozzi; C. Giampà; C. Costa; M. Tantucci; E. Zianni; MS. Boraso; S. Siliquini; A. De Iure; V. Ghiglieri; E. Colcelli; D. Baker; P. Sarchielli; FR. Fusco; M. Di Luca; P. Calabresi. Effects of central and peripheral inflammation on hippocampal synaptic

- plasticity. *Neurobiol. Dis.* 2013, 52, 229-236. ISSN: 0969-9961
63. S Giatti, Boraso MS, Abbiati F., Ballarini E., Calabrese D., Santos-Galindo M., Rigolio R., Pesaresi M., Caruso D., **Viviani B.**, Cavalletti G., Segura LM, Melcangi RC. Multimodal analysis in acute and chronic experimental autoimmune encephalomyelitis. *J. Neuroimmune Pharmacol.* 2013, 8, 238-250. ISSN: 1557-1890
64. RC Melcangi, Giatti S., Calabrese D., Pesaresi M., Cermentati G., Mitro N., Viviani B., Garcia-Segura L.M., Caruso D. Levels and actions of progesterone and its metabolites in the central nervous system during physiological and pathological conditions. *Prog. Neurobiol.* 2014, 113, 56-69. ISSN: 0301-0082
65. **B Viviani**, Boraso M., Valero M, Gardoni F, Marco EM, Llorente R, Corsini E, Galli CL, Di Luca M, Marinovich M, López-Gallardo M, Viveros MP. Early maternal deprivation immunologically primes hippocampal synapses by redistributing interleukin-1 receptor type I in a sex dependent manner. *Brain. Behav. Immun.* 2014, 35, 135-143. ISSN: 0889-1591
66. D Calabrese, Giatti S, Romano S, Porretta C, Bianchi R, Milanese M, Bonanno G, Caruso D, **Viviani B**, Gardoni F, Garcia-Segura LM, Melcangi RC. Diabetic neuropathic pain: a role for testosterone metabolites. *J Endocrinol.* 2014, 221, 1-13. ISSN: 0022-0795
67. E. Corsini, A Pinto, V Galbiati, **B Viviani**, CL Galli, M Marinovich, M Racchi. Corticosteroids modulate the expression of the PKC-anchoring protein RACK1 and cytokine release in THP-1 cells. *Pharmacol Res.* 2014, 81, 10-16. ISSN: 1043-6618
68. F. Selmin, C.G.M. Gennari, P. Minghetti, L.A. Marotta, **B. Viviani**, P. Vagdama, L. Montanari, F. Cilurzo. Enhanced hydration stability of Bombyx mori silk fibroin/PEG 600 composites scaffolds for tissue engineering. *Polymers for Advanced Technologies*, 2014, 25, 532-538. ISSN: 1042-7
69. **B. Viviani**, M Boraso, N. Marchetti, M. Marinovich. **Perspectives on neuroinflammation and excitotoxicity: a neurotoxic conspiracy?** *Neurotoxicology*, 2014, 43, 10-20. ISSN: 0161-813X
70. A. Vezzani, **B. Viviani**. Neuromodulatory properties of inflammatory cytokines and their impact on neuronal excitability. *Neuropharmacology*, 2015, 96, 70-82
71. Giatti S, Rigolio R, Romano S, Mitro N, **Viviani B**, Cavaletti G, Caruso D, Garcia-Segura LM, Melcangi RC. Dihydrotestosterone as a Protective Agent in Chronic Experimental Autoimmune Encephalomyelitis. *Neuroendocrinology*, 2015, 101, 296-308
72. EFSA Panel CONTAM et al.- Acute health risks related to the presence of cyanogenic glycosides in raw apricot kernels and products derived from raw apricot kernels. *EFSA Journal*, 2016, 14, 4421
73. Ockleford et al. Investigation into experimental toxicological properties of plant protection products having potential link to Parkinson's disease and childhood leukemia. *EFSA Journal*, 2017, 15 (3):4691
74. Pelkonen O., Terron A, Hernandez AF, Mendez P, Bennekou SH, EFSA WG EPI1 and its other members. Chemical exposure and infant leukemia: development of an adverse outcome pathway (AOP) for aetiology and risk assessment research. *Arch. Toxicol.* 2017, 91, 2763-2780
75. Knutsen et al. Risk for public health related to the presence of tetrodotoxin (TTX) and TTX analogues in marine bivalves and gastropods. *EFSA Journal*, 2017, 15 (4): 4752.
76. Terron A., Bal-Price A., Paini A, Monnet-Tschudi F, Bennekou SH; EFSA WG EPI1 Members (Angeli K, Fritsche E., Mantovani A. Viviani B), Leist M, Schildknecht S. An adverse outcome pathway for Parkinsonian motor deficits associated with mitochondrial complex I inhibition. *Arch. Toxicol.* 2018, 92, 41-82
77. Bal-Price et al. Recommendation on test readiness criteria for new approach methods in toxicology: exemplified for developmental toxicity. *ALTEX*, 2018, 35 (3): 306-352
78. Giatti, S., Diviccaro, S., Serafini, M.M., Caruso, D., Garcia-Segura, L.M., Viviani, B., Melcangi, R.C. Sex differences in steroid levels and steroidogenesis in the nervous system: Physiopathological role. *Frontiers in Neuroendocrinology*, 2020, 56, 100804
76. Tartaglione, A.M., Serafini, M.M., Raggi, A., Iacoponi, F., Zianni, E., Scalfari, A., Minghetti, L., Ricceri, L., Cubadda, F., Calamandrei, G., Viviani, B. Sex-dependent effects of developmental lead exposure in Wistar rats: Evidence from behavioral and molecular correlates. *International Journal of Molecular*, 2020, 21, 2664

Selected Book Chapter

- B. Viviani. Co-culturing of neurons and glial cells. Current Protocols in Toxicology**, Ed. M.D. Maines, L.G. Costa, E: Hodgson, D.J.Reed, I.G.Sipes, John Wiley & Sons, 2003, 12.10.1-18
- B. Viviani and M. Marinovich. Cytokines in neuronal-glia interaction. The role of glia in Neurotoxicity**, Second Edition. Eds M. Aschner and L.G. Costa. CRC Press, 2005, pp. 125-140
- B. Viviani. Preparation and co-cultures of neuron and glial cells. Current Protocols in Cell Biology**, Ed. Joe B. Harford, John Wiley & Sons, 2006, 2.7.1-21
- M.S Boraso and **B. Viviani. Glia-Neuron Sandwich co-cultures: an in vitro approach to evaluate cell-to-cell communication in neuroinflammation and neurotoxicity.** In vitro Neurotoxicology, methods and protocols. Eds.L.G. Costa, G. Giordano, M. Guizzetti, Humana Press, 2011, 758, 135-152

Presentations

Selected Oral Presentation

Invited Speaker

- .Neuron-glia connection in neurodegeneration. Lundbeck, 15 July 2002, Copenhagen, Denmark
- .Histone deacetylase inhibitors in therapy: an advantage for the central nervous system? Italfarmaco, 5 May, 2009, Milan, Italy
- .Cytokines, ion channels and neurotoxicity: the importance of intracellular targeting. International Research Training Group (IRTG 1331), 8-11 May, 2009, Wildhaus, Germany
- .Cytokines and neuronal channels: A molecular basis for neuronal function declining? Cajal Institute, 17 June, 2011, Madrid, Spain
- . Pro-inflammatory cytokines in the nervous system: beyond the control of the immune response. Centre of Integrative Genomic, University of Lausanne, 25 September 2015, Switzerland

Simposia – International Congresses

1. Differential effect of triorganotins on Ca²⁺ signaling in PC12 cells. NATO Advanced Study Institute, Modulation of cellular responses in toxicity. January 24-February 3, 1994, Ponte di Legno
2. In vitro techniques for the assessment of neurotoxicity. Cell cultures models in toxicology - International Course, 26 – 31 October 1997, Brescia, Italy
3. Glia increases trimethyltin cytotoxicity in hippocampal cells through TNF- α release.- Eurotox 96, September 22-25, 1996, Alicante
4. A protease substrate triggers glial activation during neural cell death. EURESCO Conference on Mechanisms in Toxicity. April 7-12, 2000, San Felieus de Guixol. Spain
5. Glia role in HIV-gp 120 neurotoxicity. 8th Meeting of the International Neurotoxicology Association. 17-22 June, 2001, Estoril
6. Cytokines role in neurodegenerative events. 41st Congress of the European Societies of Toxicology EUROTOX 2003, 28 September- 1 October 2003, Florence, Italy
7. Cytokines and neuronal channels in disease. IX Workshop on apoptosis in biology and medicine, 13 September 2006, Parghelia, Italy
8. Role of cytokines in glutamate receptors localization at synapses. 9th International Neuroscience Winter Conference, 24-29 Marzo 2007, Solden, Austria
9. Proinflammatory cytokines, glutamatergic system and neurotoxicity. XII International Congress of Toxicology (IUTOX 2010), 19-23 July, 2010, Barcellona, Spain
10. Cytokines and neuronal ion channels: a molecular basis for age-related decline of neuronal function? Neurobiology and Neuroendocrinology of Aging, 25-30 July, 2010, Bregenz, Austria
11. The role of pro-inflammatory cytokines and the glutamatergic system in the progression of neurodegenerative diseases. Clinical and Diagnostic Topics on CNS and Inflammation, 12 October, 2010, Milan, Italy
12. Interleukin-1 β , NMDA receptors and neurotoxicity. Neurocon 2011, 29-31 January, 2011, Kolkata, India
13. Differenze sessuali di vulnerabilità allo stress durante lo sviluppo: ruolo della neuroinfiammazione e implicazioni nella psicopatologia/ Sex differences in stress vulnerability along development: role of neuroinflammation and psychopathological implications Percorsi Internazionali di Studio in Psichiatria. 15-17 November, 2012, Rome
14. Early life stress immunologically primes the synaptic spine for late-onset degeneration: relevance for neurotoxicity. Neurodevelopmental basis of health and disease. 14 Meeting of the International Neurotoxicology Association. 9-13 June, 2013, Egmond an Zee, Holland
15. How neurons adapt to sense glial response: the role of Interleukin-1 receptor type I. XI European Meeting on Glial Cells in Health and Disease, 3-6 July, 2013, Berlino, Germany
16. Correlati biochimici della vulnerabilità allo stress durante lo sviluppo: ruolo della risposta neuroinfiammatoria e implicazioni nella psicopatologia/Biochemical correlates to stress along development: role of the neuroinflammatory response and relevance in psychopathology 18^o Congresso della Società Italiana di Psicopatologia (SOPSI). 12-15 February, 2014, Turin
17. How neurons adapt to sense inflammation: focus on IL-1 signaling. An In Vivo perspective. International Conference on "Development, Degeneration and Regeneration of Neurons : Neurochemistry to Clinical Neurology". 7-10 January 2015, Haldia, India
18. AOP: Possible pathways of toxicity induced by exposure to paraquat that cause symptoms of Parkinson disease. XIV International Congress of Toxicology. 2-6 Ottobre 2016, Merida, Mexico.
19. Neuroinflammation as a biological process connecting early life exposure to toxicants and later cognitive outcomes. 53rd Congress of the European Societies of Toxicology (EUROTOX 2017). Bratislava, Slovakia, 10-13 Settembre 2017
20. Infiammazione perinatale e ricaduta sullo sviluppo neuronale: possibili meccanismi molecolari coinvolti/ Perinatal inflammation and impact on neurodevelopment: molecular mechanisms. 22^o Congresso della Società Italiana di Psicopatologia (SOPSI). 21-24 February, 2018, Rome

Projects

Selected

JPI “A Healthy Diet for a Healthy Life – Joint Action Nutrition and Cognitive Functions – 2015
SELENIUS- Selenium in early life to enhance neurodevelopment in unfavourable settings - 36 months

European Food Safety Authority – Tender OC/EFSA/PRAS/2015/07 - 2016
Literature review and appraisal on alternative Neurotoxicity testing methods – 19 months

Fondazione Italiana Sclerosi Multipla – Bandi FISM 2010
Valutazione degli effetti protettivi degli steroidi neuroattivi nel modello della encefalomielite autoimmune sperimentale - 12 months

Ricerca Indipendente-Regione Lombardia - Bando 2009
Understanding the interaction between inflammatory/protective factors profile in stroke patients to design a novel therapeutic and prognostic approach - 24 months

EU-Specific Target Research Project- SOUTH/LSHM-CT-2006-037498
Application-oriented studies on regulatory networks involved in lipid homeostasis and atherosclerosis - 36 months

CNR-FISR CU.03.00176 e 04.00172

“Physiopathology of the nervous system: biomedical and biotechnological aspects” - 22 months

Programma FIRB-RBAU01AR5J - 2003-2005

Neuro-immune mediators in the rising and propagation of neural damage - 24 months

COFIN- 2003

Identification and functional significance of genes modulated by different histone deacetylase in mouse embryos -24 m

CNR-CT98-00779.CT13.115.34191

Characterization and modulation of cytotoxicity of environmental contaminants 12 months

CEE Environment Programme EV5V-CT94-0508 – 1994- 1996

Development of new sensitive end-points to assess cytotoxicity and genotoxicity of environmental pollutants in the nervous system - 24 mesi

Honours and awards

2004 – 2005: Fellowship from the Nutrition Foundation of Italy for a study on molecular mechanisms of neuroinflammation, impact on neuronal survival

1999 – 2004: Fellowship from the Italian Ministry of University and Research-University of Milan for a project entitled: “ Role of glia-neurons cross-talk in xenobiotics induced neurodegeneration”

1996 – 1998: Postdoctoral fellowship from the University of Milan

1993-1994 :Fellowship from the Karolinska Instituted of Stockholm for studies on the molecular mechanism of apoptosis

1992 – 1993: Fellowship from the European Science Foundation to join the Karolinska Instituted of Stockholm

1989 -1994: PhD training fellowship from the University of Milan

Membership

Italian Society of Toxicology (SITOX)