

CURRICULUM VITAE

Cognome: Picconi

Nome: Barbara

Luogo e data di nascita: Roma, 3 Marzo 1970

Diploma:	Università	Anno di conferimento
Scienze Biologiche	Università “ <i>La Sapienza</i> ”, Roma	1995
PhD in Neuroscienze	Università di Roma Tor Vergata	2005

Esperienze di ricerca:

1993 – 1995: Attività di tesi sperimentale presso il Laboratorio di Ultrastrutture, Istituto Superiore di Sanità (ISS), Roma, tutor Dr. Fiorella Malchiodi-Albedi.

1996 – 1997: Attività di tirocinio presso il Laboratorio di Farmacologia, Farmacognosia e Tossicologia, Istituto di Farmacologia, Università degli studi “*La Sapienza*”, Roma.

1998 – 2000: Conseguitamento Borsa di studio Fondazione Telethon presso il Dipartimento di Neuroscienze, Università di Roma “*Tor Vergata*”, sotto la supervisione del Prof. Paolo Calabresi.

2001 - 2004: Attività di Dottorato di Ricerca in Neuroscienze, Dipartimento di Neuroscienze, Università di Roma “*Tor Vergata*”, svolto presso il Laboratorio di Neurofisiologia, Fondazione Santa Lucia, Roma, tutor Prof. Paolo Calabresi.

Giugno 2002 a Settembre 2002: Attività di ricerca presso il Laboratorio di Neurobiologia, tutor Prof. M. Angela Cenci, Wallenberg Centre, Università di Lund, Svezia.

2 Febbraio 2005: Conseguitamento del titolo di Dottore in Ricerca in Neuroscienze, Università di Roma “*Tor Vergata*”.

Dal 2005 - 2017: Ricercatore presso il Laboratorio di Neurofisiologia, Fondazione Santa Lucia, Roma, Italia.

16 Marzo 2018: Professore Associato in Fisiologia, Università San Raffaele, Roma, Italia.

Dal Luglio 2018: Responsabile del Laboratorio di Neurofisiologia Sperimentale, IRCCS San Raffaele Roma, Italia.

Dal 10 Luglio 2020 al 2029: Abilitazione Scientifica Nazionale Professore Ordinario in Fisiologia (Area Scientifica Disciplinare 05 / D1, BIO09 Fisiologia).

Premi:

Vincitore della Borsa di studio Marie Curie per studenti di Dottorato presso il Laboratorio di Neurobiologia, tutor Prof. M. Angela Cenci, Wallenberg Centre, Università di Lund, Svezia.

Premio Tesi di Dottorato Fondazione Gino Galletti, Clinica Neurologica - Università di Bologna, Bologna, 30 Gennaio 2007.

Attività Editoriale:

Membro dell'Editorial Board di *Neurodegenerative Disease e Behavioural Neurology*.

Prof Barbara Picconi is the author of 138 papers published on leading International Journals.

Official H Index Scopus

Articoli	138
Citazioni	8416
H-index	50

Publicazioni Peer-reviewed

1. Tozzi A, Sciacaluga M, Loffredo V, Megaro A, Ledonne A, Cardinale A, Federici M, Bellingacci L, Paciotti S, Ferrari E, La Rocca A, Martini A, Mercuri NB, Gardoni F, **Picconi B**, Ghiglieri V, De Leonibus E, Calabresi P (2021) Dopamine-dependent early synaptic and motor dysfunctions induced by alpha-synuclein in the nigrostriatal circuit. *Brain*. (IF = **13.5**)
2. Natale G, Pignataro A, Marino G, Campanelli F, Calabrese V, Cardinale A, Pelucchi S, Marcello E, Gardoni F, Viscomi MT, **Picconi B**, Ammassari-Teule M, Calabresi P, Ghiglieri V (2021) Transcranial Magnetic Stimulation Exerts "Rejuvenation" Effects on Corticostriatal Synapses after Partial Dopamine Depletion. *Mov Disord* 36:2254-2263. (IF = **10.34**)
3. Natale G, Calabrese V, Marino G, Campanelli F, Urciuolo F, de Iure A, Ghiglieri V, Calabresi P, Bossola M, **Picconi B** (2021) Effects of uremic toxins on hippocampal synaptic transmission: implication for neurodegeneration in chronic kidney disease. *Cell Death Discov* 7:295. (IF = **5.24**)
4. Crittenden JR et al. (2021) CalDAG-GEFI mediates striatal cholinergic modulation of dendritic excitability, synaptic plasticity and psychomotor behaviors. *Neurobiol Dis* 158:105473. (IF = **5.24**)
5. Campanelli F, Marino G, Barsotti N, Natale G, Calabrese V, Cardinale A, Ghiglieri V, Maddaloni G, Usiello A, Calabresi P, Pasqualetti M, **Picconi B** (2021) Serotonin drives striatal synaptic plasticity in a sex-related manner. *Neurobiol Dis* 158:105448. (IF = **5.24**)
6. Cardinale A, Calabrese V, de Iure A, **Picconi B** (2021) Alpha-Synuclein as a Prominent Actor in the Inflammatory Synaptopathy of Parkinson's Disease. *Int J Mol Sci* 22. (IF = **4.556**)
7. **Picconi B**, Galati S (2021) Progress of clinical neuroscience in movement disorders: Technical and methodological developments. *J Neurosci Methods* 349:109034. (IF = **2.785**)

8. Campanelli F, Laricchiuta D, Natale G, Marino G, Calabrese V, **Picconi B**, Petrosini L, Calabresi P, Ghiglieri V (2021) Long-Term Shaping of Corticostriatal Synaptic Activity by Acute Fasting. *Int J Mol Sci* 22. (IF = 4.556)
9. Marrocco J, Verhaeghe R, Bucci D, Di Menna L, Traficante A, Bouwalerh H, Van Camp G, Ghiglieri V, **Picconi B**, Calabresi P, Ravasi L, Cisani F, Bagheri F, Pittaluga A, Bruno V, Battaglia G, Morley-Fletcher S, Nicoletti F, Maccari S (2020) Maternal stress programs accelerated aging of the basal ganglia motor system in offspring. *Neurobiol Stress* 13:100265. (IF = 5.441)
10. Calabrese V, Di Maio A, Marino G, Cardinale A, Natale G, De Rosa A, Campanelli F, Mancini M, Napolitano F, Avallone L, Calabresi P, Usiello A, Ghiglieri V, **Picconi B** (2020) Rapamycin, by Inhibiting mTORC1 Signaling, Prevents the Loss of Striatal Bidirectional Synaptic Plasticity in a Rat Model of L-DOPA-Induced Dyskinesia. *Front Aging Neurosci* 12:230. (IF = 4.504)
11. Sciacaluga M, Mazzocchi P, Bastioli G, Ghiglieri V, Cardinale A, Mosci P, Caccia C, Keyword C, Melloni E, Padoani G, Vailati S, **Picconi B**, Calabresi P, Tozzi A (2020) Effects of safinamide on the glutamatergic striatal network in experimental Parkinson's disease. *Neuropharmacology* 170:108024. (IF = 4.431)
12. Ferrari E, Cardinale A, **Picconi B**,* Gardoni F* (2020) From cell lines to pluripotent stem cells for modelling Parkinson's Disease. *J Neurosci Methods* 340:108741. (IF = 2.214)
13. Krashia P, Cordella A, Nobili A, La Barbera L, Federici M, Leuti A, Campanelli F, Natale G, Marino G, Calabrese V, Vedele F, Ghiglieri V, **Picconi B**, Di Lazzaro G, Schirinzi T, Sancesario G, Casadei N, Riess O, Bernardini S, Pisani A, Calabresi P, Viscomi MT, Serhan CN, Chiurchiu V, D'Amelio M, Mercuri NB (2019) Blunting neuroinflammation with resolvin D1 prevents early pathology in a rat model of Parkinson's disease. *Nat Commun* 10:3945. (IF = 11.88)
14. Ghiglieri V, Campanelli F, Marino G, Natale G, **Picconi B**, Calabresi P (2019) Corticostriatal synaptic plasticity alterations in the R6/1 transgenic mouse model of Huntington's disease. *J Neurosci Res.* (IF = 4.139)
15. Tomagra G, Picollo F, Battiato A, **Picconi B**, De Marchis S, Pasquarelli A, Olivero P, Marcantoni A, Calabresi P, Carbone E, Carabelli V. (2019) Quantal release of dopamine and action potential firing detected in midbrain neurons by multifunctional diamond-based microarrays. *Front Neurosci.* 13:288 (IF = 3.882)
16. Iure A, Mazzocchi P, Bastioli G, **Picconi B**, Costa C, Marchionni I, Casari G, Tozzi A, Pietrobon D, Calabresi P (2019) Differential effect of FHM2 mutation on synaptic plasticity in distinct hippocampal regions. *Cephalalgia* 39:1333-1338. (IF = 3.882)
17. Mineo D, Cacace F, Mancini M, Vannelli A, Campanelli F, Natale G, Marino G, Cardinale A, Calabresi P, **Picconi B**, Ghiglieri V (2019) Dopamine drives binge-like consumption of a palatable food in experimental Parkinsonism. *Mov Disord* 34:821-831. (IF = 8.324)
18. Durante V, de Iure A, Loffredo V, Vaikath N, De Risi M, Paciotti S, Quiroga-Varela A, Chiasserini D, Mellone M, Mazzocchi P, Calabrese V, Campanelli F, Mechelli A, Di Filippo M, Ghiglieri V, **Picconi B**, El-Agnaf OM, De Leonibus E, Gardoni F, Tozzi A, and Calabresi P. (2019) Alpha-synuclein targets GluN2A NMDA receptor subunit causing striatal synaptic dysfunction and visuospatial memory alteration. *Brain* 142:1365-1385. (IF = 10.848)
19. de Iure A, Napolitano F, Beck G, Quiroga Varela A, Durante V, Sciacaluga M, Mazzocchi P, Megaro A, Tantucci M, Cardinale A, Punzo D, Mancini A, Costa C, Ghiglieri V, Tozzi A, **Picconi B**, Papa SM, Usiello A, Calabresi P (2019) Striatal spreading depolarization: Possible implication in levodopa-induced dyskinetic-like behavior. *Mov Disord* 34:832-844. (IF = 8.324)
20. Mellone M, Zianni E, Stanic J, Campanelli F, Marino G, Ghiglieri V, Longhi A, Thiolat ML, Li Q, Calabresi P, Bezard E, **Picconi B**, Di Luca M, Gardoni F (2019) NMDA receptor GluN2D subunit participates to levodopa-induced dyskinesia pathophysiology. *Neurobiol Dis* 121:338-349. (IF = 5.32)

21. **Picconi B**, Hernandez LF, Obeso JA, Calabresi P (2018) Motor complications in Parkinson's disease: Striatal molecular and electrophysiological mechanisms of dyskinesias. *Mov Disord* 33:867-876. **(IF = 7.07)**
22. Espay AJ, Morgante F, Merola A, Fasano A, Marsili L, Fox SH, Bezard E, **Picconi B**, Calabresi P, Lang AE (2018) Levodopa-induced dyskinesia in Parkinson disease: Current and evolving concepts. *Ann Neurol* 84:797-811. **(IF = 10.25)**
23. Giordano N, Iemolo A, Mancini M, Cacace F, De Risi M, Latagliata EC, Ghiglieri V, Bellenchi GC, Puglisi-Allegra S, Calabresi P, **Picconi B**, De Leonibus E (2018) Motor learning and metaplasticity in striatal neurons: relevance for Parkinson's disease. *Brain* 141:505-520. **(IF = 10.29)**
24. **Picconi B**, De Leonibus E, Calabresi P (2018) Synaptic plasticity and levodopa-induced dyskinesia: electrophysiological and structural abnormalities. *J Neural Transm (Vienna)* 125:1263-1271. **(IF = 2.39)**
25. Cacace F, Mineo D, Viscomi MT, Latagliata EC, Mancini M, Sasso V, Vannelli A, Pascucci T, Pendolino V, Marcello E, Pelucchi S, Puglisi-Allegra S, Molinari M, **Picconi B**, Calabresi P, Ghiglieri V (2017) Intermittent theta-burst stimulation rescues dopamine-dependent corticostriatal synaptic plasticity and motor behavior in experimental parkinsonism: Possible role of glial activity. *Mov Disord* 32:1035-1046. **(IF = 7.07)**
26. Stanic J, Mellone M, Napolitano F, Racca C, Zianni E, Minocci D, Ghiglieri V, Thiolat ML, Li Q, Longhi A, De Rosa A, **Picconi B**, Bezard E, Calabresi P, Di Luca M, Usiello A, Gardoni F (2017) Rabphilin 3A: A novel target for the treatment of levodopa-induced dyskinesias. *Neurobiol Dis* 108:54-64. **(IF = 5.02)**
27. **Picconi B**, Calabresi P (2017) Switching on the lights of dyskinesia: Perspectives and limits of the optogenetic approaches. *Mov Disord* 32:485-486. **(IF = 7.07)**.
28. Calabresi P, Pisani A, Rothwell J, Ghiglieri V, Obeso JA, **Picconi B** (2016) Hyperkinetic disorders and loss of synaptic downscaling. *Nat Neurosci* 19:868-875. **(IF = 16.72)**.
29. Schirinzi T, Madeo G, Martella G, Maltese M, **Picconi B**, Calabresi P, Pisani A (2016) Early synaptic dysfunction in Parkinson's disease: Insights from animal models. *Mov Disord* 31:802-813. **(IF = 5.68)**
30. Calabresi P, **Picconi B**, Tozzi A, Ghiglieri V (2016) Interaction between basal ganglia and limbic circuits in learning and memory processes. *Parkinsonism Relat Disord* 22 Suppl 1:S65-68. **(IF = 3.97)**
31. Mancini M, Ghiglieri V, Bagetta V, Pendolino V, Vannelli A, Cacace F, Mineo D, Calabresi P, **Picconi B** (2016) Memantine alters striatal plasticity inducing a shift of synaptic responses toward long-term depression. *Neuropharmacology* 101:341-350. **(IF = 5.106)**
32. Tozzi A, de Iure A, Bagetta V, Tantucci M, Durante V, Quiroga-Varela A, Costa C, Di Filippo M, Ghiglieri V, Latagliata EC, Wegrzynowicz M, Decressac M, Giampà C, Dalley JW, Xia J, Gardoni F, Mellone M, El-Agnaf OM, Ardah MT, Puglisi-Allegra S, Björklund A, Spillantini MG, **Picconi B**, Calabresi P (2016) Alpha-Synuclein Produces Early Behavioral Alterations Via Striatal Cholinergic Synaptic Dysfunction by Interacting with GluN2D N-Methyl-D-Aspartate Receptor Subunit. *Biol Psychiatry* 79:402-414. **(IF = 10.255)**
33. 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** (2016) Modulation of serotonergic transmission by eltoprazine in L-DOPA-induced dyskinesia: Behavioral, molecular, and synaptic mechanisms. *Neurobiol Dis* 86:140-153. **(IF = 5.078)**
34. Mellone M, Stanic J, Hernandez LF, Iglesias E, Zianni E, Longhi A, Prigent A, **Picconi B**, Calabresi P, Hirsch EC, Obeso JA, Di Luca M, Gardoni F (2015) NMDA receptor GluN2A/GluN2B subunit ratio as synaptic trait of levodopa-induced dyskinesias: from experimental models to patients. *Front Cell Neurosci* 9:245. **(IF = 4.28)**
35. Bastide MF, Meissner WG, **Picconi B**, Fasano S, Fernagut PO, Feyder M, Francardo V, Alcacer C, Ding Y, Brambilla R, Fisone G, Stoessl AJ, Bourdenx M, Engeln M, Navailles S,

- De Deurwaerdere P, Ko WK, Simola N, Morelli M, Groc L, Rodriguez MC, Gurevich EV, Quik M, Morari M, Mellone M, Gardoni F, Tronci E, Guehl D, Tison F, Crossman AR, Kang UJ, Steece-Collier K, Fox S, Carta M, Cenci MA, Bezard E (2015) Pathophysiology of L-dopa-induced motor and non-motor complications in Parkinson's disease. *Prog Neurobiol* 132:96-168. (IF = 9.99)
36. Ghiglieri V, Napolitano F, Pelosi B, Schepisi C, Migliarini S, Di Maio A, Pendolino V, Mancini M, Sciamanna G, Vitucci D, Maddaloni G, Giampa C, Errico F, Nistico R, Pasqualetti M, **Picconi B**, Usiello A (2015) Rhes influences striatal cAMP/PKA-dependent signaling and synaptic plasticity in a gender-sensitive fashion. *Sci Rep* 5:10933. (IF = 5.57)
 37. Calabresi P, Ghiglieri V, Mazzocchetti P, Corbelli I, **Picconi B** (2015) Levodopa-induced plasticity: a double-edged sword in Parkinson's disease? *Philos Trans R Soc Lond B Biol Sci* 370. (IF = 7.05)
 38. Calabresi P, **Picconi B**, Tozzi A, Ghiglieri V, Di Filippo M (2014) Direct and indirect pathways of basal ganglia: a critical reappraisal. *Nat Neurosci* 17:1022-1030. (IF = 16.09)
 39. Cerovic M, Bagetta V, Pendolino V, Ghiglieri V, Fasano S, Morella I, Hardingham N, Heuer A, Papale A, Marchisella F, Giampa C, Calabresi P, **Picconi B**, Brambilla R (2015) Derangement of Ras-Guanine Nucleotide-Releasing Factor 1 (Ras-GRF1) and Extracellular Signal-Regulated Kinase (ERK) Dependent Striatal Plasticity in L-DOPA-Induced Dyskinesia. *Biol Psychiatry* 77:106-115. (IF = 10.25)
 40. Morelli E, Ghiglieri V, Pendolino V, Bagetta V, Pignataro A, Fejtova A, Costa C, Ammassari-Teule M, Gundelfinger ED, **Picconi B**, Calabresi P (2014) Environmental enrichment restores CA1 hippocampal LTP and reduces severity of seizures in epileptic mice. *Exp Neurol* 261C:320-327. (IF = 4.64)
 41. Pendolino V, Bagetta V, Ghiglieri V, Sgobio C, Morelli E, Poggini S, Branchi I, Latagliata EC, Pascucci T, Puglisi-Allegra S, Calabresi P, **Picconi B** (2014) l-DOPA reverses the impairment of Dentate Gyrus LTD in experimental parkinsonism via beta-adrenergic receptors. *Exp Neurol* 261:377-385. (IF = 4.64)
 42. **Picconi B**, Calabresi P (2014) Targeting metabotropic glutamate receptors as a new strategy against levodopa-induced dyskinesia in Parkinson's disease? *Mov Disord* 29:715-719. (IF = 4.505)
 43. Rylander D, Bagetta V, Pendolino V, Zianni E, Grealish S, Gardoni F, Di Luca M, Calabresi P, Cenci MA, **Picconi B** (2013) Region-specific restoration of striatal synaptic plasticity by dopamine grafts in experimental parkinsonism. *Proc Natl Acad Sci U S A* 110:E4375-4384. (IF = 9.68)
 44. Besusso D, Geibel M, Kramer D, Schneider T, Pendolino V, **Picconi B**, Calabresi P, Bannerman DM, Minichiello L (2013) BDNF-TrkB signaling in striatopallidal neurons controls inhibition of locomotor behavior. *Nat Commun* 4:2031. (IF = 7.396)
 45. Calabresi P, Castrioto A, Di Filippo M, **Picconi B** (2013) New experimental and clinical links between the hippocampus and the dopaminergic system in Parkinson's disease. *Lancet Neurol* 12(8):811-821. (IF = 23.46)
 46. Arcangeli S, Tozzi A, Tantucci M, Spaccatini C, de Iure A, Costa C, Di Filippo M, **Picconi B**, Giampa C, Fusco FR, Amoroso S, Calabresi P (2013) Ischemic-LTP in striatal spiny neurons of both direct and indirect pathway requires the activation of D1-like receptors and NO/soluble guanylate cyclase/cGMP transmission. *J Cereb Blood Flow Metab* 33:278-286. (IF = 5.00)
 47. Calabresi P, Di Filippo M, Gallina A, Wang Y, Stankowski JN, **Picconi B**, Dawson VL, Dawson TM (2013) New synaptic and molecular targets for neuroprotection in Parkinson's disease. *Mov Disord* 28:51-60. (IF = 4.505)
 48. Tozzi A, de Iure A, Di Filippo M, Costa C, Caproni S, Pisani A, Bonsi P, **Picconi B**, Cupini LM, Materazzi S, Geppetti P, Sarchielli P, Calabresi P (2012) Critical role of calcitonin gene-related peptide receptors in cortical spreading depression. *Proc Natl Acad Sci U S A* 109:18985-18990. (IF = 9.68)

49. Bagetta V, Sgobio C, Pendolino V, Del Papa G, Tozzi A, Ghiglieri V, Giampà C, Zianni E, Gardoni F, Calabresi P, **Picconi B** (2012) Rebalance of striatal NMDA-AMPA receptor ratio underlies the reduced emergence of dyskinesia during D2-like dopamine agonist treatment in experimental Parkinson's disease. *J Neurosci* 32(49):17921-17931. (IF = 7.12)
50. Ghiglieri V, Bagetta V, Pendolino V, **Picconi B**, Calabresi P (2012) Corticostriatal Plastic Changes in Experimental L-DOPA-Induced Dyskinesia. *Parkinsons Dis* 2012:358176.
51. **Picconi B**, Calabresi P (2012) Rhes-mTORC1 interaction: a new possible therapeutic target in Parkinson's disease and L-dopa-induced dyskinesia? *Mov Disord* 27:815. (IF = 4.505)
52. Tozzi A, de Iure A, Marsili V, Romano R, Tantucci M, Di Filippo M, Costa C, Napolitano F, Mercuri NB, Borsini F, Giampa C, Fusco FR, **Picconi B**, Usiello A, Calabresi P (2012) A2A Adenosine Receptor Antagonism Enhances Synaptic and Motor Effects of Cocaine via CB1 Cannabinoid Receptor Activation. *PLoS One* 7:e38312. (IF = 4.09)
53. Costa C, Sgobio C, Siliquini S, Tozzi A, Tantucci M, Ghiglieri V, Di Filippo M, Pendolino V, de Iure A, Marti M, Morari M, Spillantini MG, Latagliata EC, Pascucci T, Puglisi-Allegra S, Gardoni F, Di Luca M, **Picconi B**, Calabresi P (2012) Mechanisms underlying the impairment of hippocampal long-term potentiation and memory in experimental Parkinson's disease. *Brain* 135(Pt 6):1884-99. (IF = 9.23)
54. Ghiglieri V, Pendolino V, Sgobio C, Bagetta V, **Picconi B**, Calabresi P (2012) Theta-burst stimulation and striatal plasticity in experimental parkinsonism. *Exp Neurol* 236:395-398. (IF = 4.43)
55. Ghiglieri V, **Picconi B**, Calabresi P (2012) Prenatal stress and hippocampal BDNF expression: a fading imperative. *J Physiol* 590:1309-1310. (IF = 5.139)
56. **Picconi B**, Piccoli G, Calabresi P (2012) Synaptic dysfunction in Parkinson's disease. (2012) *Adv Exp Med Biol* 970:553-572. (IF = 1.379)
57. Vastagh C, Gardoni F, Bagetta V, Stanic J, Zianni E, Giampa C, **Picconi B**, Calabresi P, Di Luca M (2012) N-Methyl-D-aspartate (NMDA) Receptor Composition Modulates Dendritic Spine Morphology in Striatal Medium Spiny Neurons. *J Biol Chem* 287:18103-18114. (IF = 5.328)
58. Gardoni F, Sgobio C, Pendolino V, Calabresi P, Di Luca M, **Picconi B**. (2012) Targeting NR2A-containing NMDA receptors reduces L-DOPA-induced dyskinesias. *Neurobiol Aging* 33:2138-44. (IF = 5.96)
59. Ghiglieri V, Bagetta V, Calabresi P, **Picconi B**. (2012) Functional interactions within striatal microcircuit in animal models of huntington's disease. *Neuroscience*. 211:165-84. (IF = 3.56)
60. Tozzi A, Costa C, Siliquini S, Tantucci M, **Picconi B**, Kurz A, Gispert S, Auburger G, Calabresi P (2011) Mechanisms underlying altered striatal synaptic plasticity in old A53T-alpha synuclein overexpressing mice. *Neurobiol Aging* 33:1792-1799. (IF = 5.96)
61. Errico F, Bonito-Oliva A, Bagetta V, Vitucci D, Romano R, Zianni E, Napolitano F, Marinucci S, Di Luca M, Calabresi P, Fisone G, Carta M, **Picconi B**, Gardoni F, Usiello A (2011) Higher free d-aspartate and N-methyl-d-aspartate levels prevent striatal depotentiation and anticipate l-DOPA-induced dyskinesia. *Exp Neurol* 232:240-50. (IF = 3.97)
62. Bagetta V, **Picconi B**, Marinucci S, Sgobio C, Pendolino V, Ghiglieri V, Fusco FR, Giampà C, Calabresi P (2011) Dopamine-dependent long-term depression is expressed in striatal spiny neurons of both direct and indirect pathways: implications for Parkinson's disease. *J Neurosci* 31:12513-22. (IF = 7.45)
63. Ghiglieri V, Sgobio C, Costa C, **Picconi B**, Calabresi P. (2011) Striatum-hippocampus balance: from physiological behavior to interneuronal pathology. *Prog Neurobiol* 94:102-14. (IF = 9.13)
64. Tozzi A, de Iure A, Di Filippo M, Tantucci M, Costa C, Borsini F, Ghiglieri V, Giampa C, Fusco FR, **Picconi B**, Calabresi P (2011) The distinct role of medium spiny neurons and cholinergic interneurons in the D2/A2A receptor interaction in the striatum: implications for Parkinson's disease. *J Neurosci* 31:1850-62. (IF = 7.45)

65. **Picconi B**, Bagetta V, Ghiglieri V, Paille V, Di Filippo M, Pendolino V, Tozzi A, Giampa C, Fusco FR, Sgobio C, Calabresi P (2011) Inhibition of phosphodiesterases rescues striatal long-term depression and reduces levodopa-induced dyskinesia. *Brain* 134:375-87. **(IF = 9.6)**
66. Calabresi P, Filippo MD, Ghiglieri V, Tambasco N, **Picconi B**. (2010) Levodopa-induced dyskinesias in patients with Parkinson's disease: filling the bench-to-bedside gap. *Lancet Neurol* 9:1106-1117. **(IF = 14.27)**
67. Ghiglieri V, Pendolino V, Bagetta V, Sgobio C, Calabresi P, **Picconi B**. (2010) mTOR inhibitor rapamycin suppresses striatal post-ischemic LTP. *Exp Neurol* 226:328-331. **(IF = 3.97)**
68. **Picconi B**, Ghiglieri V, Calabresi P. (2010) L-3,4-dihydroxyphenylalanine-induced sprouting of serotonin axon terminals: A useful biomarker for dyskinesias? *Ann Neurol* 68:578-580. **(IF = 9.93)**
69. Paillé V, **Picconi B**, Bagetta V, Ghiglieri V, Sgobio C, Di Filippo M, Viscomi MT, Giampà C, Fusco FR, Gardoni F, Bernardi G, Greengard P, Di Luca M, Calabresi P. (2010) Distinct levels of dopamine denervation differentially alter striatal synaptic plasticity and NMDA receptor subunit composition. *J Neurosci* 30:14182-14193. **(IF = 7.49)**
70. Ghiglieri V, **Picconi B**, Calabresi P (2010) Direct and indirect pathways in levodopa-induced dyskinesia: A more complex matter than a network imbalance. *Mov Disord* 25:1527-1529. **(IF = 3.89)**
71. Di Filippo M, Chiasserini D, Tozzi A, **Picconi B**, Calabresi P (2010) Mitochondria and the link between neuroinflammation and neurodegeneration. *J Alzheimers Dis* 20 Suppl 2:S369-379. **(IF = 5.1)**
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