

CURRICULUM

Giuseppe Luppino
nato a Napoli il 5/3/1957

Posizione accademica

Professore Ordinario di Fisiologia (BIO/09), Dipartimento di Medicina e Chirurgia, Università di Parma

Titoli di studio

Laurea in Medicina e Chirurgia, Università di Parma, 1982;
Specializzazione in Neurologia, Università di Parma, 1986;
Dottorato di Ricerca in Scienze Neurologiche, Roma, 1988 (Concorso nazionale).

Carriera professionale

Laureato frequentatore, Istituto di Fisiologia Umana, Università di Parma, 1982-1990;
Research Associate, Dept. Psychology, Duke University, Durham, NC, USA, 1985;
Ricercatore Universitario, Istituto di Fisiologia Umana, Università di Parma, 1990-1992;
Visiting Scientist, Dept. Physiology, Nihon University, Tokyo, Giappone, 1992;
Associato di Fisiologia, Facoltà di Medicina e Chirurgia, Università di Parma, 1992-2002;
Ordinario di Fisiologia, Facoltà di Medicina e Chirurgia, Università di Parma, 2003-.

Incarichi istituzionali

Presidente, Corso di Laurea in Fisioterapia, 2005-2012
Direttore, Dipartimento di Neuroscienze (ante applicazione L 240/2010) 2010-2012
Direttore, Dipartimento di Neuroscienze, 2012-2016
Membro Senato Accademico, 2012-2016
Presidente, Corso di Laurea in Fisioterapia, 2019-2021

Editorial Boards

Journal of Comparative Neurology
Frontiers in Neuroanatomy

Affiliazioni a Società Scientifiche

Società Italiana di Fisiologia
Society for Neuroscience (USA)

Dati bibliografici (Fonte Web of Science, luglio 2024)

Numero di lavori: 96
Citazioni totali: 12790
Media di citazioni per articolo: 133
h-index: 49

Principali pubblicazioni dal 2010

1. Borra E, Ballestrazzi G, Biancheri D, Caminiti R, Luppino G. Involvement of the claustrum in the cortico-basal ganglia circuitry: connectional study in the non-human primate. *Brain Struct Funct.* 2024 Jun;229(5):1143-1164. doi: 10.1007/s00429-024-02784-6. Epub 2024 Apr 14. PMID: 38615290; Impact factor: 2.7

2. Borra E, Rizzo M, Luppino G. Gradients of thalamic connectivity in the macaque lateral prefrontal cortex. *Front Integr Neurosci*. 2023 Oct 16;17:1239426. doi: 10.3389/fnint.2023.1239426. PMID: 37908780; Impact factor: 2.6
3. Borra E, Biancheri D, Rizzo M, Leonardi F, Luppino G. Crossed Corticostriatal Projections in the Macaque Brain. *J Neurosci*. 2022 Sep 14;42(37):7060-7076. doi: 10.1523/JNEUROSCI.0071-22.2022. Epub 2022 Aug 11. PMID: 35953294; Impact factor: 5.3
4. Caminiti R, Girard G, Battaglia-Mayer A, Borra E, Schito A, Innocenti GM, Luppino G. The Complex Hodological Architecture of the Macaque Dorsal Intraparietal Areas as Emerging from Neural Tracers and DW-MRI Tractography. *eNeuro*. 2021 Jul 7;8(4):ENEURO.0102-21.2021. doi: 10.1523/ENEURO.0102-21.2021. PMID: 34039649; Impact factor: 4.3
5. Borra E, Luppino G. Comparative anatomy of the macaque and the human frontal oculomotor domain. *Neurosci Biobehav Rev*. 2021 Jul;126:43-56. doi: 10.1016/j.neubiorev.2021.03.013. Epub 2021 Mar 15. Impact factor: 9
6. Borra E, Rizzo M, Gerbella M, Rozzi S, Luppino G. Laminar Origin of Corticostriatal Projections to the Motor Putamen in the Macaque Brain. *J Neurosci*. 2021 41:1455-1469. Impact factor: 5,674
7. Caminiti R, Girard G, Battaglia-Mayer A, Borra E, Schito A, Innocenti GM, Luppino G. The Complex Hodological Architecture of the Macaque Dorsal Intraparietal Areas as Emerging from Neural Tracers and DW-MRI Tractography. *eNeuro*. 2021 May 25:ENEURO.0102-21.2021. doi: 10.1523/ENEURO.0102-21.2021. Impact factor: 5,081
8. Borra E, Luppino G. Comparative anatomy of the macaque and the human frontal oculomotor domain. *Neurosci Biobehav Rev*. 2021. 126:43-56. Impact factor: 8,329
9. Howells H, Simone L, Borra E, Forna L, Cerri G, Luppino G. Reproducing macaque lateral grasping and oculomotor networks using resting state functional connectivity and diffusion tractography. *Brain Struct Funct*. 2020. 225:2533-2551. Impact factor: 3,298
10. Borra E, Luppino G, Gerbella M, Rozzi S, Rockland KS. Projections to the putamen from neurons located in the white matter and the claustrum in the macaque. *J. Comp. Neurol* 2020. 528:453-467. Impact factor: 2,801
11. Borra E, Ferroni CG, Gerbella M, Giorgetti V, Mangiaracina C, Rozzi S, Luppino G. Rostro-caudal Connectional Heterogeneity of the Dorsal Part of the Macaque Prefrontal Area 46. *Cereb Cortex*. 2019. 29:485-504. Impact factor: 5,043
12. Borra E, Luppino G. Large-scale temporo-parieto-frontal networks for motor and cognitive motor functions in the primate brain. *Cortex*. 2018 Oct 11. pii: S0010-9452(18)30328-9. doi: 10.1016/j.cortex.2018.09.024. [Epub ahead of print] Impact factor: 4,907
13. Caminiti R, Borra E, Visco-Comandini F, Battaglia-Mayer A, Averbeck BB, Luppino G. Computational Architecture of the Parieto-Frontal Network Underlying Cognitive-Motor Control in Monkeys. *eNeuro*. 2017 Feb 27;4(1). pii:ENEURO.0306-16.2017. doi: 10.1523/ENEURO.0306-16.2017.
14. Borra E, Gerbella M, Rozzi S, Luppino G. The macaque lateral grasping network: A neural substrate for generating purposeful hand actions. *Neurosci Biobehav Rev*. 2017. 75:65-90. Impact factor: 8,037
15. Borra E, Luppino G. Functional anatomy of the macaque temporo-parieto-frontal connectivity. *Cortex*. 2017. 97:306-326. Impact factor: 4,907
16. Gerbella M, Borra E, Mangiaracina C, Rozzi S, Luppino G. Corticostriate Projections from Areas of the "Lateral Grasping Network": Evidence for Multiple Hand-Related Input Channels. *Cereb Cortex*. 2016. 26(7):3096-115. Impact factor: 8,285
17. Gerbella M, Borra E, Rozzi S, Luppino G. Connections of the macaque Granular Frontal Opercular (GrFO) area: a possible neural substrate for the contribution of limbic inputs for

- controlling hand and face/mouth actions. *Brain Struct Funct.* 2016. 221(1):59-78. Impact factor: 5,811
18. Borra E, Gerbella M, Rozzi S, Luppino G. Projections from caudal ventrolateral prefrontal areas to brainstem preoculomotor structures and to Basal Ganglia and cerebellar oculomotor loops in the macaque. *Cereb Cortex.* 2015. 25(3):748-64. Impact factor: 8,285
 19. Gerbella M, Baccarini M, Borra E, Rozzi S, Luppino G. Amygdalar connections of the macaque areas 45A and 45B. *Brain Struct Funct.* 2014. 219(3):831-42. Impact factor: 5,618
 20. Borra E, Gerbella M, Rozzi S, Tonelli S, Luppino G. Projections to the superior colliculus from inferior parietal, ventral premotor, and ventrolateral prefrontal areas involved in controlling goal-directed hand actions in the macaque. *Cereb Cortex.* 2014. 24(4):1054-65. Impact factor: 8,665
 21. Gerbella M, Borra E, Tonelli S, Rozzi S, Luppino G. Connectional heterogeneity of the ventral part of the macaque area 46. *Cereb Cortex.* 2013. 23(4):967-87. Impact factor: 8,305
 22. Borra E, Gerbella M, Rozzi S, Luppino G. Anatomical evidence for the involvement of the macaque ventrolateral prefrontal area 12r in controlling goal-directed actions. *J Neurosci.* 2011. 24;31(34):12351-63. Impact factor: 7,115
 23. Nelissen K, Borra E, Gerbella M, Rozzi S, Luppino G, Vanduffel W, Rizzolatti G, Orban GA. Action observation circuits in the macaque monkey cortex. *J Neurosci.* 2011. 9;31(10):3743-56. Impact factor: 7,115
 24. Gerbella M, Belmalih A, Borra E, Rozzi S, Luppino G. Cortical connections of the anterior (F5a) subdivision of the macaque ventral premotor area F5. *Brain Struct Funct.* 2011. 216(1):43-65. Impact factor: 5,628
 25. Contini M, Baccarini M, Borra E, Gerbella M, Rozzi S, Luppino G. Thalamic projections to the macaque caudal ventrolateral prefrontal areas 45A and 45B. *Eur J Neurosci.* 2010. 32(8):1337-53. Impact factor: 3.658
 26. Borra E, Belmalih A, Gerbella M, Rozzi S, Luppino G. Projections of the hand field of the macaque ventral premotor area F5 to the brainstem and spinal cord. *J Comp Neurol.* 2010. 518(13):2570-91. Impact factor: 3.774
 27. Gerbella M, Belmalih A, Borra E, Rozzi S, Luppino G. Cortical connections of the macaque caudal ventrolateral prefrontal areas 45A and 45B. *Cereb Cortex.* 2010. 20(1):141-68. Impact factor: 6.844