CURRICULUM VITAE

Nome	Giaccone Giorgio
Data di nascita	5 settembre 1959
Qualifica	Dirigente Medico
Amministrazione	FONDAZIONE IRCCS ISTITUTO NEUROLOGICO CARLO BESTA - MILANO
Incarico attuale	Direttore facente funzioni – UOC Neurologia 5 - Neuropatologia
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TITOLI DI STUDIO E PROFESSIONALI ED ESPERIENZE LAVORATIVE

Titolo di studio	Laurea in Medicina e Chirurgia, con punteggio di 110/110 e lode (luglio 1984)
Altri titoli di studio e professionali	Specializzazione in Neurologia, con punteggio di 70/70 e lode (luglio 1988)
Esperienze professionali (incarichi ricoperti)	Dal 01.01.1986 al 30.03.1991 ha fruito di borse di studio e contratti di ricerca presso la Divisione di Neuropatologia dell'Istituto Neurologico Besta di Milano. Dal 01.04.1991 ad oggi è stato Assistente Neurologo e poi Dirigente Medico a tempo pieno presso la Divisione di Neurologia 5 - Neuropatologia della Fondazione IRCCS Istituto Neurologico Besta di Milano, dal maggio 2002 con incarico di Eccellenza professionale dal titolo "Diagnostica proteinosi cerebrali". Dal 27.04.2016 ad oggi è Direttore facente funzioni dell'UOC Neurologia 5 – Neuropatologia dell'Istituto Besta. La UOC Neurologia 5 - Neuropatologia") dell'Istituto Neurologico Besta è composta da una parte clinica con attività ambulatoriale e di degenza e da una parte di diagnostica di laboratorio con settori diagnostici di neuropatologia oncologica, generale, ultrastrutturale e molecolare. Tale UOC fa parte del Dipartimento di Diagnostica e Tecnologia. Ha svolto attività clinica e diagnostica di laboratorio dal 1991 ad oggi nella UOC Neurologia 5 – Neuropatologia nei seguenti ambiti. 1) Diagnosi e cura delle demenze degenerative: ha

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<table>
<tr><td></td><td>esperienza clinica più che ventennale indirizzata specificamente alla cura ed all'assistenza di pazienti con disturbi cognitivi e comportamentali nell'ambito delle encefalopatie degenerative e da prioni (visite neurologiche specialistiche ambulatoriali, la maggior parte delle quali per pazienti con deterioramento cognitivo, eseguite personalmente negli anni 2010 - 2019 = 6363). E' responsabile dei letti di degenza dell'UOC Neurologia 5 – Neuropatologia dal 26-4-2016 a oggi (numero di ricoveri, anno 2019 = 145);
2) Diagnostica neuropatologica e biochimica su materiale autoptico: ha esperienza più che ventennale nell'ambito della diagnosi neuropatolgica e biochimica nell'ambito della malattia di Alzheimer, altre encefalopatie degenerative e da prioni per la quali la UOC è Centro di Riferimento Regionale (referti di analisi neuropatolgiche/biochimiche per casi con sospetto di malattia di Creutzfedt-Jakob eseguite nel decennio 2010-2019: più di 350);
3) Diagnostica istologica neurooncologica, genetica e biochimica liquorale: ha specifica esperienza maturata presso la UOC Neurologia 5 - Neuropatologia nel campo della neuropatologia oncologica e delle analisi genetiche e liquorali per pazienti con encefalopatie degenerative e da prioni.</td></tr>
<tr><td>Capacità linguistiche</td><td><table>
<tr><th>Lingua</th><th>Livello Parlato</th><th>Livello Scritto</th></tr>
<tr><td>[Inglese]</td><td>fluente</td><td>fluente</td></tr>
<tr><td>[Francese]</td><td>scolastico</td><td>scolastico</td></tr>
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<tr><td>Capacità nell'uso delle tecnologie</td><td>Conoscenze informatiche sufficienti a gestire files di testo, cartelle cliniche in formato elettronico, produrre ed elaborare immagini elettroniche e navigare in Internet</td></tr>
<tr><td>Altro (partecipazione a convegni e seminari, pubblicazioni, collaborazioni a riviste, ecc. e ogni altra informazione che il dirigente ritiene di dover pubblicare)</td><td>Ha partecipato in qualità di relatore ordinario e su invito a numerosi congressi nazionali ed internazionali, ha tenuto numerose lezioni a corsi di specializzazione e di aggiornamento ed è autore di 171 pubblicazioni su riviste internazionali tra cui Science, Cell, Lancet Neurology, Nature Medicine, Proceedings of the National Academy of Sciences USA, Annals of Neurology, Neurology, Archives of Neurology, con un Impact Factor cumulativo superiore a 900 (viene riportato in calce l'elenco delle pubblicazioni di cui è coautore, non di quelle in cui risulta come collaboratore).
Le pubblicazioni in cui è primo, ultimo oppure autore "corresponding" sono in grassetto (n = 35), quelle in cui è secondo autore (n = 23) in corsivo sottolineato.
L' H-index di Giorgio Giaccone è 51 (calcolato con Scopus, il 02-03-2021) con un numero totale di citazioni superiore a 8500.</td></tr>
</table>

Ha svolto attività di revisore per diverse riviste internazionali tra cui: *New England Journal of Medicine, Brain, Journal of Neurology Neurosurgery and Psychiatry, Journal of Alzheimer Disease, Neurobiology of Disease, Acta Neuropathologica, Neuroscience Letters, PLOS One*.

Ha partecipato e collaborato attivamente allo svolgimento di diversi progetti di ricerca finanziati da Telethon Italia, dal Ministero della Salute e dalla Comunità Europea:
- Telethon Italia, (1996-1998) "Familial Alzheimer disease: effects of mutations of the ßPP gene on the chemicophysical properties and tau-binding ability of ßPP peptides", responsabile progetto;
- Ministero della Salute, (ricerca finalizzata, 2001-2004) "Terapia genica e terapia cellulare con cellule staminali per la cura del morbo di Alzheimer", responsabile unità;
- Ministero della Salute, (ricerca finalizzata, 2006-2008) "Individuazione di profili di espressione di geni codificanti per proteine mitocondriali in pazienti affetti da malattia di Parkinson: studio mediante cDNA microarray di fibroblasti, mioblasti e tessuto nervoso", responsabile unità;
- Ministero della Salute, (ricerca finalizzata, 2006-2008) "Studio integrato dei meccanismi neuropatogenetici della patologia neurodegenerativa: analisi dei processi infiammatori e immunitari per l'identificazione di nuovi target terapeutici", responsabile unità;
- Comunità Europea, (2006-2011) "Brain Net Europe II" (LSHM-CT-2004-503039), responsabile unità;
- Ministero della Salute, (ricerca finalizzata, 2015-2017) "Detection of pathological prion protein in cerebrospinal fluid by real time quaking induced conversion (QuIC)", responsabile unità;
- Comunità Europea (JPND) (2016-2019) "Alzheimer's disease pathology within the ageing physiology", responsabile unità.

Ha ottenuto con il bando dell'anno 2012 l'abilitazione a Professore Universitario, seconda fascia, settore 06/D6, Neurologia.

E' stato Presidente della Associazione Italiana di Neuropatologia e Neurobiologia Clinica (AINPeNC) dal maggio 2017 al maggio 2019 (attualmente ricopre la carica di Past-President).

Riguardo all'aggiornamento professionale certificato ha partecipato a eventi formativi per i quali gli sono stati attribuiti i seguenti crediti ECM.

Triennio 2002-2004	50
Triennio 2005-2007	76
Triennio 2008-2010	182,25
Triennio 2011-2013	111,5 (richiesti 105)

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	Triennio 2014-16 Triennio 2017-19 Anno 2020	112,8 (richiesti 105) 132,9 (richiesti 105) 34
Elenco pubblicazioni di cui è autore	1. Mauro A, Bertolotto A, Germano I, Giaccone G, Giordana MT, Migheli A, Schiffer D. Collagenase in the immunohistochemical demonstration of laminin, fibronectin and factor VIII/RAg in nervous tissue after fixation. *Histochemistry*, 80(1984)157-163 2. Giordana MT, Germano I, Giaccone G, Mauro A, Migheli A, Schiffer D. The distribution of laminin in human brain tumors: an immunohistochemical study. *Acta Neuropathologica*, 67(1985)51-57 3. Mauro A, Germano I, Giaccone G, Giordana MT, Schiffer D. 1-naphthol-basic dye (1-NBD). An alternative to diaminobenzidine (DAB) in immunoperoxidase techniques. *Histochemistry*, 83(1985)97-102 **4. Schiffer D, Giordana MT, Mauro A, Migheli A, Germano I, Giaccone G. Immunohistochemical demonstration of vimentin in human cerebral tumors. *Acta Neuropathologica*, 70(1986)209-219** 5. Schiffer D, Giordana MT, Migheli A, Giaccone G, Pezzotta S, Mauro A. Glial fibrillary acidic protein and vimentin in the experimental glial reaction of the rat brain. *Brain Research*, 374(1986)110-118 6. Mauro A, Bulfone A, Giaccone G, Schiffer D. Simultaneous and successive localization of two antigens in the same tissue section using 3-3'-diaminobenzidine and 1-naphthol-basic dye. *Histochemistry*, 86(1986)123-126 **7. Giaccone G, Tagliavini F, Street JS, Ghetti B, Bugiani O. Progressive supranuclear palsy with hypertrophy of the olives. An immunocytochemical study of the cytoskeketon of argyrophilic neurons. *Acta Neuropathologica*, 77(1988)14-20** *8. Tagliavini F, Giaccone G, Frangione B, Bugiani O. Preamyloid deposits in the cerebral cortex of patients with Alzheimer's disease and nondemented individuals. Neuroscience Letters, 93(1988)191-196* **9. Giaccone G, Tagliavini F, Linoli G, Bouras C, Frigerio L, Frangione B, Bugiani O. Down patients: extracellular**	

preamyloid deposits precede neuritic degeneration and senile plaques. *Neuroscience Letters*, 97(1989)232-238

10. Bugiani O, Giaccone G, Frangione B, Ghetti B, Tagliavini F. Alzheimer patients: preamyloid deposits are more widely distributed than senile plaques throughout the central nervous system. Neuroscience Letters, 103(1989)263-268

11. Verga L, Frangione B, Tagliavini F, Giaccone G, Migheli A, Bugiani O. Alzheimer patients and Down patients: cerebral preamyloid deposits differ ultrastructurally and histochemically from the amyloid of senile plaques. *Neuroscience Letters*, 105(1989)294-299

12. Ghetti B, Tagliavini F, Masters CL, Beyreuther K, Giaccone G, Verga L, Farlow MR, Conneally PM, Dlouhy SR, Azzarelli B, Bugiani O. Plaques with PrP-amyloid and neurofibrillary tangles coesist in a family of Gerstmann-Straussler-Scheinker disease. *Neurology*, 39(1989)1453-1461

13. Giaccone G, Verga L, Finazzi M, Pollo B, Tagliavini F, Frangione B, Bugiani O. Cerebral preamyloid deposits and congophilic angiopathy in aged dogs. *Neuroscience Letters*, 114(1990)178-183

14. Tagliavini F, Ghiso J, Timmers WF, Giaccone G, Bugiani O, Frangione B. Coexistence of Alzheimer's amyloid precursor protein and amyloid protein in cerebral vessel walls. *Laboratory Investigation*, 62(1990)761-767

15. Giaccone G, Tagliavini F, Verga L, Frangione B, Farlow MR, Bugiani O, Ghetti B. Neurofibrillary tangles of the Indiana kindred of Gerstmann-Straeussler-Scheinker disease share antigenic determinants with those of Alzheimer disease. *Brain Research*, 530(1990)325-329

16. Bugiani O, Giaccone G, Verga L, Pollo B, Ghetti B, Frangione B, Tagliavini F. Alzheimer patients and Down patients: abnormal presynaptic terminals are related to cerebral preamyloid deposits. Neuroscience Letters, 119(1990)56-59

17. Tagliavini F, Giaccone G, Verga L, Ghiso J, Frangione B, Bugiani O. Alzheimer patients: preamyloid deposits are immunoreactive with antibodies to extracellular domain of the amyloid precursor protein. Neuroscience Letters, 128(1991)117-120

	18. El Hachimi KH, Verga L, Giaccone G, Tagliavini F, Frangione B, Bugiani O, Foncin JF. Relationship between non-fibrillary amyloid precursors and cell processes in the cortical neuropil of Alzheimer patients. *Neuroscience Letters* 129(1991)119-122 **19. Giaccone G, Verga L, Bugiani O, Frangione B, Serban D, Prusiner SB, Farlow MR, Ghetti B, Tagliavini F. Prion protein preamyloid and amyloid deposits in Gerstmann-Sträussler-Scheinker disease, Indiana kindred. *Proceedings of the National Academy of Sciences USA*, 89(1992)9349-9353** *20. Bugiani O, Giaccone G, Verga L, Pollo B, Frangione B, Farlow MR, Tagliavini F, Ghetti B. Gerstmann-Sträussler-Scheinker disease, Indiana kindred: ßPP partecipates in the morphogenesis of PrP-amyloid plaques, Journal of Neuropathology and Experimental Neurology 52(1993)64-70* *21. Tagliavini F, Giaccone G, Bugiani O, Frangione B. Ubiquitinated neurites are associated with cerebral amyloid ß deposits in patients with hereditary cerebral hemorrhage with amyloidosis - Dutch type. Acta Neuropathologica 85(1993)267-271* *22. Tagliavini F, Giaccone G, Prelli F, Verga L, Porro M, Trojanowski JQ, Farlow MR, Frangione B, Ghetti B, Bugiani O. A68 is a component of paired helical filaments of Gerstmann-Sträussler-Scheinker disease, Indiana kindred. Brain Research 616(1993)325-328* 23. Tagliavini F, Prelli F, Verga L, Giaccone G, Sarma R, Gorevic P, Ghetti B, Passerini F, Ghibaudi E, Forloni G, Salmona M, Bugiani O, Frangione B. Synthetic peptides homologous to prion protein residues 106-147 form amyloid-like fibrils in vitro. *Proceedings of the National Academy of Sciences USA*, 90(1993)9678-9682 24. Ghetti B, Tagliavini F, Giaccone G, Bugiani O, Frangione B, Farlow MR, Dlouhy SR. Familial Gerstmann-Sträussler-Scheinker disease with neurofibrillary tangles. *Molecular Neurobiology*, 8(1994)41-48 25. Farlow M, Ghetti B, Dlouhy S, Giaccone G, Bugiani O, Tagliavini F, Wagner S. Cerebrospinal fluid levels of amyloid ß-protein precursor are low in Gerstmann-Sträussler-Scheinker disease, Indiana kindred. *Neurology*, 44(1994)1508-1510 26. Forloni G, DelBo R, Angeretti N, Chiesa R, Smiroldo S, Doni R,

Ghibaudi E, Salmona M, Porro M, Verga L, Giaccone G, Bugiani O, Tagliavini F. A neurotoxic prion protein fragment induces astroglial proliferation and hypertrophy. *European Journal Neuroscience*, 6(1994)1414-1422

27. Tagliavini F, Prelli F, Porro M, Rossi G, Giaccone G, Farlow MR, Dlouhy SP, Ghetti B, Bugiani O, Frangione B. Amyloid fibrils in Gerstmann-Straussler-Scheinker disease (Indiana and Swedish kindreds) express only PrP peptides encoded by the mutant allele. *Cell*, 79(1994)695-703

28. Bugiani O, Tagliavini F, Giaccone G, Verga L, el-Hachimi K, Foncin J-F, Frangione B. Diffuse senile plaques: amorphous or fibrous? *American Journal of Pathology* 146(1995)777-778

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encephalopathy. *American Journal of Pathology,* 152(1998)1415-1420

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44. Spreafico R, Arcelli P, Frassoni C, Canetti P, Giaccone G, Rizzuti T, Mastrangelo M, Bentivoglio M. Development of layer I of the human cerebral cortex after midgestation: architectonic findings, immunocytochemical identification of neurons and glia, and in situ labeling of apoptotic cells. *Journal of Comparative Neurology* 410 (1999) 126-142

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48. Rossi G, Giaccone G, Gianpaolo L, Iussich S, Puoti G, Frigo M, Cavaletti G, Frattola L, Bugiani O, Tagliavini F. Creutzfeldt-Jakob disease with a novel four extra-repeat insertional mutation in the PrP gene. Neurology 55 (2000) 405-410

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50. Puoti G, Rossi G, Giaccone G, Awan T, Lievens PM-J, Defanti CA, Tagliavini F, Bugiani O. Polymorphism at codon 129 of PRNP affects the phenotypic expression of Creutzfeldt-Jakob disease linked to E200K mutation. *Annals of Neurology* 48 (2000) 269-270

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53. Forloni G, Iussich S, Awan T, Colombo L, Angeretti N, Girola L, Bertani I, Poli G, Caramelli M, Grazia Bruzzone M, Farina L, Limido L, Rossi G, Giaccone G, Ironside JW, Bugiani O, Salmona M, Tagliavini F. Tetracyclines affect prion infectivity *Proceedings of the National Academy of Sciences USA* 99(2002)10849-110854

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	phenotype of an Italian Alzheimer family with M239V mutation of presenilin 2 gene Journal Neuropathology Experimental Neurology 63(2004)199-209 *57. Rossi G, Giaccone G, Maletta R, Morbin M, Capobianco R, Mangieri M, Giovagnoli AR, Bizzi A, Tomaino C, Perri M, Di Natale M, Tagliavini F, Bugiani O, Bruni AC. A family with Alzheimer's disease and strokes associated with A713T mutation of the APP gene. Neurology 63(2004)910-912* 58. Visani E, Agazzi P, Scaioli V, Giaccone G, Binelli S, Canafoglia L, Panzica F, Tagliavini F, Bugiani O, Avanzini G, Franceschetti S. FVEPs in Creutzfeldt-Jacob disease: waveforms and interaction with the periodic EEG pattern assessed by single sweep analysis. *Clinical Neurophysiology* 116(2005)895-904 59. Salmona M, Capobianco R, Colombo L, De Luigi A, Rossi G, Mangieri M, Giaccone G, Quaglio E, Chiesa R, Donati MB, Tagliavini F, Forloni G. Role of plasminogen in propagation of scrapie. *Journal of Virology* 79(2005)11225-11230. *60. Puoti G, Giaccone G, Mangieri M, Limido L, Fociani P, Zerbi P, Suardi S, Rossi G, Iussich S, Capobianco R, Di Fede G, Marcon G, Filippini G, Bugiani O, Tagliavini F. Sporadic Creutzfeldt-Jakob disease: the extent of microglia activation is dependent upon the biochemical type of PrP^{Sc}. Journal Neuropathology Experimental Neurology, 64(2005)902-909.* **61. Giaccone G, Rossi G, Farina L, Marcon G, Di Fede G, Catania M, Morbin M, Sacco L, Bugiani O, Tagliavini F. Familial frontotemporal dementia associated with the novel MAPT polymorphism T427M. *Journal of Neurology* 252(2005)1543-1545** 62. Rossi D, Brambilla L, Valori CF, Crugnola A, Giaccone G, Capobianco R, Mangieri M, Kingston AE, Bloc A, Bezzi P, Volterra A. Defective TNFα-dependent conrol of astrocyte glutamate release in a transgenic mouse model of Alzheimer's disease. *Journal of Biological Chemistry* 2005(280)42088-42096 63. Binelli S, Agazzi P, Giaccone G, Will RG, Bugiani O, Franceschetti S, Tagliavini F. Periodic EEG Complexes in a Patient with Variant Creutzfeldt-Jakob disease. *Annals of Neurology* 2006; 59: 423-427

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