

Curriculum vitae del Prof Alessandro Stefani

- Nato a Modena il 20 ottobre 1959.
- Maturità classica con 60/60 nel 1978.
- Coniugato con 3 figli.
- Diploma di laurea in Medicina e Chirurgia con 110/110 e lode presso l'Università di Roma "La Sapienza", discutendo la tesi sperimentale "La dopamina riduce l'eccitabilità dei neuroni striatali con meccanismi pre- e post-sinaptici".
- Vincitore del concorso di specializzazione in Neurologia (2° scuola, prof. V. Floris, Università "La Sapienza").
- Vincitore del Dottorato in Neuroscienze presso l'Università di Cagliari (1997).
- Ufficiale medico di complemento (sottotenente medico) presso l'Ospedale militare di Trieste negli anni 1985-86.
- Diploma di specializzazione in Neurologia presso la predetta scuola, con votazione 70/70 e lode, discutendo la tesi "Azioni del Gaba nello striato di ratto".
- Post-assistant Professor presso il "Dept. of Anatomy and Neurobiology" dell'University of Tennessee (dir. S. Kitai), negli anni 1989-1990.
- Vincitore di posto di "tecnico laureato" nel 1991, al rientro in Italia, presso la cattedra di Clinica Neurologica dell'Università degli studi di Tor Vergata.
- Ricercatore Confermato (concorso riservato) dal gennaio 2001 presso il Dipartimento di Neuroscienze/Clinica Neurologica dell'Università di Tor Vergata.
- Nel 2002, vince la procedura di valutazione comparativa per idoneità a professore di seconda fascia per neurologia presso l'Università di Roma Tor Vergata.
- Nel 2002 (1 novembre) viene chiamato dalla Facoltà di Medicina e Chirurgia di Roma Tor Vergata come Professore associato di Neurologia per il corso di laurea in Medicina.
- Dal 1999 al 2005, responsabile del centro UVA del Policlinico Tor Vergata
- Dal 2005, partecipa alla direzione del Centro Parkinson e altre malattie extrapiramidali.
- Dal 2009 Responsabile UOSD Parkinson Fondazione Policlinico Tor Vergata.
- Attualmente Professore Associato Confermato.

- *Born in Modena, 20th October 1959.*
- *Married; 2 sons, 1 daughter; Italian citizen;*
- *Medical Doctor in 1984 (University of Rome La Sapienza); Certified Neurologist in 1988..*
- *PostDoctoral Fellow, University of Tennessee, 1988-89*
- *Assistant Professor, Università La Sapienza, since 1991*
- *Researcher (tenure tract), University Tor vergata since 2001*
- *Associate Professore, since 2002*
- *In charge of Dementia Ambulatori from 1999 to 2005*
- *In charge of Centre for Parkinson and extrapyramidal disorders, Fondazione Policlinico Tor Vergata, since 2009*

Nella scuola di Dottorato in Neuroscienze, il Prof A.Stefani può dirigere due ordini di linee di ricerca clinica: in primis, la valutazione di biomarcatori di malattie degenerative, con particolare interesse per il catabolismo della dopamina; in secondo luogo, il follow-up clinico-funzionale di pazienti sottoposti a neurochirurgia funzionale stereotassica. Inoltre, il

Prof Stefani continua a sviluppare studi sperimentali centrati sui correlati elettrofisiologici della denervazione dopaminergica

Prof Stefani may play a leading role in different neuroscience fields. In particular he will evaluate projects centered on the CSF biomarkers of neurodegenerative CNS diseases and the different facets related to the clinical and functional follow-up of Parkinsonian patients submitted to deep brain stimulation. Further, Prof Stefani's lab maintains active a line of experimental neurology centred on the band frequencies promoted by either standard 6-OHDA dopamine denervation or TTX intoxication.

LAVORI 2008-2013, PROF A. STEFANI

1: Stefani A, Olivola E, Bassi MS, Pisani V, Imbriani P, Pisani A, Pierantozzi M. Strength and Weaknesses of Cerebrospinal Fluid Biomarkers in Alzheimer's Disease and Possible Detection of Overlaps with Frailty Process. *CNS Neurol Disord Drug Targets*. 2013 Apr 4. [Epub ahead of print] PubMed PMID: 23574170.

2: Assogna F, Fagioli S, Cravello L, Meco G, Pierantozzi M, Stefani A, Imperiale F, Caltagirone C, Pontieri FE, Spalletta G. Depressive symptoms in Parkinson's disease and in non-neurological medical illnesses. *Neuropsychiatr Dis Treat*. 2013;9:389-96. doi: 10.2147/NDT.S40013. Epub 2013 Mar 21. PubMed PMID: 23569379; PubMed Central PMCID: PMC3615851.

3: Prosperetti C, Di Giovanni G, Stefani A, Möller JC, Galati S. Acute nigro-striatal blockade alters cortico-striatal encoding: An in vivo electrophysiological study. *Exp Neurol*. 2013 Mar 26. doi:pil: S0014-4886(13)00111-8. 10.1016/j.expneurol.2013.03.018. [Epub ahead of print] PubMed PMID: 23537952.

4: Chiaravalloti A, Stefani A, Di Biagio D, Pierantozzi M, Tavolozza M, Di Pietro B, Stanzione P, Schillaci O. Cardiac sympathetic denervation is not related to nigrostriatal degeneration in Parkinson's disease. *Ann Nucl Med*. 2013 Feb 27. [Epub ahead of print] PubMed PMID: 23443954.

5: Fedele E, Stanzione P, Stefani A. Re: Stereotactic microdialysis of the basal ganglia in Parkinson's disease. *J Neurosci Methods*. 2013 Jan 30;212(2):362. doi: 10.1016/j.jneumeth.2013.01.004. PubMed PMID: 23375022.

6: Spalletta G, Fagioli S, Meco G, Pierantozzi M, Stefani A, Pisani V, Caltagirone C, Pontieri FE, Assogna F. Hedonic tone and its mood and cognitive correlates in Parkinson's disease. *Depress Anxiety*. 2013 Jan;30(1):85-91. doi: 10.1002/da.22036. PubMed PMID: 23300113.

7: Gajofatto A, Stefani A, Turatti M, Bianchi MR, Lira MG, Moretto G, Salviati A, Benedetti MD. Prevalence of multiple sclerosis in Verona, Italy: an epidemiological and genetic study. *Eur J Neurol*. 2013 Apr;20(4):697-703. doi: 10.1111/ene.12045. Epub 2012 Dec 24. PubMed PMID: 23279712.

8: Pepe A, Pierantozzi M, Baiamonte V, Moschella V, Caltagirone C, Stanzione P, Stefani A. Deep brain stimulation of pedunculopontine tegmental nucleus: role in sleep modulation in advanced Parkinson disease patients: one-year follow-up. *Sleep*. 2012 Dec 1;35(12):1637-42. doi: 10.5665/sleep.2234. PubMed PMID: 23204606; PubMed Central PMCID: PMC3490356.

9: Chiaravalloti A, Stefani A, Tavolozza M, Pierantozzi M, Di Biagio D, Olivola E, Di Pietro B, Stampanoni M, Danieli R, Simonetti G, Stanzione P, Schillaci O. Different patterns of cardiac sympathetic denervation in tremor-type compared to akinetic-rigid-type Parkinson's disease: molecular imaging with ¹²³I-MIBG. *Mol Med Rep*. 2012 Dec;6(6):1337-42. doi: 10.3892/mmr.2012.1104. Epub 2012 Sep 27. PubMed PMID: 23023866.

10: Rocchi C, Pierantozzi M, Pisani V, Marfia GA, Di Giorgio A, Stanzione P, Bernardi G, Stefani A. The impact of rotigotine on cardiovascular autonomic function in early Parkinson's disease. *Eur Neurol*. 2012;68(3):187-92. Epub 2012 Aug 28. PubMed PMID: 22948481.

11: Liguori C, Sancesario G, Albanese M, Stefani A, Marciani MG, Pierantozzi M. Epstein-Barr virus neuraxis infection as a trigger for central nervous system demyelinating processes: a case report. *Mult Scler*. 2013 Mar;19(3):380-1. doi: 10.1177/1352458512457850. Epub 2012 Aug 16. PubMed PMID: 22898673.

12: Pisani V, Stefani A, Pierantozzi M, Natoli S, Stanzione P, Franciotta D, Pisani A. Increased blood-cerebrospinal fluid transfer of albumin in advanced Parkinson's disease. *J Neuroinflammation*. 2012 Aug 8;9:188. doi: 10.1186/1742-2094-9-188. PubMed PMID: 22870899; PubMed Central PMCID: PMC3441323.

13: Stefani A, Brusa L, Olivola E, Pierantozzi M, Martorana A. CSF and clinical hallmarks of subcortical dementias: focus on DLB and PDD. *J Neural Transm*. 2012 Jul;119(7):861-75. doi: 10.1007/s00702-012-0820-0. Epub 2012 May 24. Review. PubMed PMID: 22622365.

14: Pontieri FE, Assogna F, Stefani A, Pierantozzi M, Meco G, Benincasa D,

Colosimo C, Caltagirone C, Spalletta G. Sad and happy facial emotion recognition impairment in progressive supranuclear palsy in comparison with Parkinson's disease. *Parkinsonism Relat Disord.* 2012 Aug;18(7):871-5. doi: 10.1016/j.parkreldis.2012.04.023. Epub 2012 May 15. PubMed PMID: 22595619.

15: Antonini A, Vitale C, Barone P, Cilia R, Righini A, Bonuccelli U, Abbruzzese G, Ramat S, Petrone A, Quatrone R, Marconi R, Ceravolo R, Stefani A, Lopiano L, Zappia M, Capus L, Morgante L, Tamma F, Tinazzi M, Colosimo C, Guerra UP. The relationship between cerebral vascular disease and parkinsonism: The VADO study. *Parkinsonism Relat Disord.* 2012 Jul;18(6):775-80. doi: 10.1016/j.parkreldis.2012.03.017. Epub 2012 Apr 22. PubMed PMID: 22531611.

16: Schillaci O, Chiaravalloti A, Pietro BD, Stefani A. Thalamic ¹²³I FP-CIT uptake in a patient with clinical diagnosis of Parkinson's disease and depression. *Hell J Nucl Med.* 2012 Jan-Apr;15(1):74-5. PubMed PMID: 22413122.

17: Stefani A, Marzetti F, Pierantozzi M, Petrucci S, Olivola E, Galati S, Bassi MS, Imbriani P, Valente EM, Pastore FS. Successful subthalamic stimulation, but levodopa-induced dystonia, in a genetic Parkinson's disease. *Neurol Sci.* 2013 Mar;34(3):383-6. doi: 10.1007/s10072-012-1014-0. Epub 2012 Mar 22. PubMed PMID: 22437494.

18: Assogna F, Palmer K, Pontieri FE, Pierantozzi M, Stefani A, Gianni W, Caltagirone C, Spalletta G. Alexithymia is a non-motor symptom of Parkinson disease. *Am J Geriatr Psychiatry.* 2012 Feb;20(2):133-41. doi: 10.1097/JGP.0b013e318209de07. PubMed PMID: 22273734.

19: Schillaci O, Chiaravalloti A, Pierantozzi M, Di Pietro B, Koch G, Bruni C, Stanzione P, Stefani A. Different patterns of nigrostriatal degeneration in tremor type versus the akinetic-rigid and mixed types of Parkinson's disease at the early stages: molecular imaging with ¹²³I-FP-CIT SPECT. *Int J Mol Med.* 2011 Nov;28(5):881-6. doi: 10.3892/ijmm.2011.764. Epub 2011 Aug 2. PubMed PMID: 21811760.

20: Mattsson N, Andreasson U, Persson S, Arai H, Batish SD, Bernardini S, Bocchio-Chiavetto L, Blankenstein MA, Carrillo MC, Chalbot S, Coart E, Chiasserini D, Cutler N, Dahlfors G, Duller S, Fagan AM, Forlenza O, Frisoni GB, Galasko D, Galimberti D, Hampel H, Handberg A, Heneka MT, Herskovits AZ, Herukka SK, Holtzman DM, Humpel C, Hyman BT, Iqbal K, Jucker M, Kaeser SA, Kaiser E, Kapaki E, Kidd D, Klivenyi P, Knudsen CS, Kummer MP, Lui J, Lladó A, Lewczuk P, Li QX, Martins R, Masters C, McAuliffe J, Mercken M, Moghekar A, Molinuevo JL, Montine TJ, Nowatzke W, O'Brien R, Otto M, Paraskevas GP, Parnetti L, Petersen

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21: Stefani A, Fedele E, Vitek J, Pierantozzi M, Galati S, Marzetti F, Peppe A, Bassi MS, Bernardi G, Stanzione P. The clinical efficacy of L-DOPA and STN-DBS share a common marker: reduced GABA content in the motor thalamus. *Cell Death Dis.* 2011 May 5;2:e154. doi: 10.1038/cddis.2011.35. PubMed PMID: 21544093; PubMed Central PMCID: PMC3122115.

22: Stefani A, Fedele E, Pierantozzi M, Galati S, Marzetti F, Peppe A, Pastore FS, Bernardi G, Stanzione P. Reduced GABA Content in the Motor Thalamus during Effective Deep Brain Stimulation of the Subthalamic Nucleus. *Front Syst Neurosci.* 2011 Apr 5;5:17. doi: 10.3389/fnsys.2011.00017. PubMed PMID: 21519387; PubMed Central PMCID: PMC3078559.

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26: Péran P, Cherubini A, Assogna F, Piras F, Quattrocchi C, Peppe A, Celsis P, Rascol O, Démonet JF, Stefani A, Pierantozzi M, Pontieri FE, Caltagirone C, Spalletta G, Sabatini U. Magnetic resonance imaging markers of Parkinson's

disease nigrostriatal signature. *Brain*. 2010 Nov;133(11):3423-33. doi: 10.1093/brain/awq212. Epub 2010 Aug 23. PubMed PMID: 20736190.

27: *Peppe A, Pierantozzi M, Chiavalon C, Marchetti F, Caltagirone C, Musicco M, Stanzione P, Stefani A. Deep brain stimulation of the pedunculo-pontine tegmentum and subthalamic nucleus: effects on gait in Parkinson's disease. Gait Posture. 2010 Oct;32(4):512-8. doi: 10.1016/j.gaitpost.2010.07.012. Epub 2010 Aug 19. PubMed PMID: 20727761.*

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29: *Galati S, D'Angelo V, Olivola E, Marzetti F, Di Giovanni G, Stanzione P, Stefani A. Acute inactivation of the medial forebrain bundle imposes oscillations in the SNr: a challenge for the 6-OHDA model? Exp Neurol. 2010 Oct;225(2):294-301. doi: 10.1016/j.expneurol.2010.06.020. Epub 2010 Jul 13. PubMed PMID: 20615405.*

30: *Stefani A, Pierantozzi M, Ceravolo R, Brusa L, Galati S, Stanzione P. Deep brain stimulation of pedunculo-pontine tegmental nucleus (PPTg) promotes cognitive and metabolic changes: a target-specific effect or response to a low-frequency pattern of stimulation? Clin EEG Neurosci. 2010 Apr;41(2):82-6. PubMed PMID: 20521490.*

31: *Marceglia S, Mrakic-Sposta S, Tommasi G, Bartolomei L, Foresti C, Valzania F, Galati S, Stefani A, Tamma F, Priori A; DBS Study Group of The Italian Neurological Society. Multicenter study report: electrophysiological monitoring procedures for subthalamic deep brain stimulation surgery in Parkinson's disease. Neurol Sci. 2010 Aug;31(4):449-57. doi: 10.1007/s10072-010-0254-0. Epub 2010 Apr 23. PubMed PMID: 20414706.*

32: *Stefani A, Galati S, Brusa L, Pierantozzi M, Peppe A, Stanzione P. Pathological gambling from dopamine agonist and deep brain stimulation of the nucleus tegmenti pedunculo-pontine. BMJ Case Rep. 2010 Nov 18;2010. doi:pil:bcr0220102774. 10.1136/bcr.02.2010.2774. PubMed PMID: 22798481; PubMed Central PMCID: PMC3027559.*

33: *Moreau C, Defebvre L, Devos D, Marchetti F, Destée A, Stefani A, Peppe A. STN*

versus PPN-DBS for alleviating freezing of gait: toward a frequency modulation approach? *Mov Disord.* 2009 Oct 30;24(14):2164-6. doi: 10.1002/mds.22743. PubMed PMID: 19705483.

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