

CURRICULUM VITAE

PERSONAL DATA:

First name: **GIORGIO**

Surname: **TOMMASI**

Date of birth: 09/06/1966

Place of birth: Treviso - Italy

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ACADEMIC QUALIFICATIONS

- 1997: graduated in Medicine at the University of Padua. Title of the thesis: “Prognosis of peripheral facial palsy: clinical and electromyographic evaluation of 301 subjects”. Graduation mark: 106/110. Supervisor of the thesis Prof. P. Negrin.
- 1997 (first session): state examination at the University of Padua;
- from July 1997: regular member of the Medical Association of Treviso (Italy);
- 2004: Specialization in Neurology - resident for 5 years at the Institute of Neurology, Department of Neurological Sciences and Vision, University of Verona Polyclinic. Title of the thesis, based on research conducted at the University of Grenoble (France): “Pyramidal tract side effects induced by deep brain stimulation of the subthalamic nucleus in Parkinson’s disease”. Graduation mark: 50/50 cum laude. Supervisors of the thesis Prof. P. Pollak and Prof. N. Rizzuto.
- 2007: successful applicant for admission to PhD course in Neurosciences, *Scuola di Dottorato di Scienze Ingegneria e Medicina*, University of Verona, as from 1st January 2008. Now, he is enrolled at the 2nd year and the research activities are conducted under the supervision of Prof. A. Fiaschi and Prof. L. Chelazzi.
- 12.02.08: on the agreement for an international joint supervision of a PhD thesis, successful applicant (*avis favorable de la commission des équivalences*) for admission to the *Ecole Doctorale in Chimie et Sciences du Vivant, Spécialité: Neurosciences-Neurobiologie*, at the University Joseph Fourier of Grenoble (France), as from 13th February 2008. Now, he is enrolled at the 2nd year of the Course in Neurosciences-Neurobiologie and the research activities are conducted under the supervision of Prof. P. Pollak.

PROFESSIONAL EXPERIENCE

- July 1997 - April 1998: medical volunteer, Department of Neurology, University of Padua.
- April 1998 - November 1998: medical volunteer, Institute of Neurology, Department of Neurological Sciences and Vision, University of Verona Polyclinic.
- December 1998 - February 2000: admitted to training course for family medical practice Friuli-Venezia Giulia Region Health Authority.
- January 2005 to January 2006: study grant for research on extrapyramidal diseases, Department of Neurosciences, University of Turin.

- 15 January to 15 April 2006: research on the metabolic changes involved in the neurodegenerative process in Parkinson's disease, Department of Neurosciences of the University of Turin.
- 1 February to 31 July 2006: study grant for research on the effects of surgical therapy on cognitive and affective functions in advanced Parkinsonian patients, Department of Neurosciences, University of Turin.
- 1st July 2006 to 31th December 2008, self-employment contract as Neurologist, Neurological Unit, Ospedale Civile Maggiore, Verona.
- from 16th February 2009: permanent employee as Neurologist at the Azienda Ospedaliera of Verona. As from this date on leave for PhD studies.

STAGES

- March 2003 to September 2003 and November 2003 to March 2004: training course in hyperspecialistic education in pharmacological and surgical treatment of movement disorders, Department of Neurology, University of Grenoble (France).
- 2-3 May 2005: training for the treatment of non-parkinsonian tremors by deep brain stimulation, Department of Neurology, Albrechts University, Kiel Germany.
- On the agreement for an international joint supervision of a PhD thesis between the University of Verona and the University of Grenoble, he will spend half time (18 months) of the PhD Course at the Institut des Neurosciences-Equipe 10, of the Centre de Recherche Inserm U.836-UJF-CEA-CHU, UJF of Grenoble, under the supervision of Prof. Pierre Pollak (Unité des Troubles du Mouvement, Pavillon de Neurologie).
- For the PhD research project, a collaboration is already incoming with the Laboratory INSERM UMR-S 975 Hôpital de la Salpêtrière, Paris under the supervision of the Director: Prof. J. Yelnik.

AREAS OF INTEREST

For the past nine years, he has been interested in the study of the physiology of normal human voluntary movement and the mechanisms underlying plastic changes in the human nervous control system. He has participated in a number of experimental protocols using transcranial magnetic stimulation in healthy volunteers performing different motor tasks.

He is also interested in the clinical aspects and pathophysiology of movement disorders and their surgical treatment by deep brain stimulation. To date, he has performed:

- 148 bilateral implantations of the subthalamic nucleus in Parkinson's disease patients,
- 10 bilateral implantations of the GPi in dystonic patients,
- 7 bilateral implantations of the VIM for essential tremor and multiple sclerosis,
- 2 bilateral implantations of the pedunculopontine nucleus in Parkinson's disease patients with freezing of gait and gait disorders no-responsive to subthalamic nucleus stimulation,
- 3 bilateral implantations of the limbic part of the subthalamic nucleus for obsessive-compulsive disorder,
- 2 bilateral implantation of the C25 area of the cerebral cortex for major depressive disorder.

PUBLICATIONS

ARTICLES

- Bartolomei L, Piacentino M, Causin F, Sgaramella T, Cavedon C, Tommasi G. *DBS: ruolo del monitoraggio intraoperatorio*. Neurol Sci 2003; 24 (Suppl): S518-S520.
- Tommasi G, Lopiano L. *Neurochirurgia nella malattia di Parkinson*. Journal Neurodegenerative Disorders 2005;1: 7-9.
- Tommasi G, Lopiano L. *Risultati clinici: dieci anni di esperienza internazionale* in Atti del II° corso di perfezionamento residenziale post-universitario in: metodica di stimolazione cerebrale profonda nel trattamento della malattia di Parkinson e Distonia, Dipartimento di Neuroscienze, Università degli Studi di Milano, 2006: 112-119.
- Tommasi G, Lopiano L, Zibetti M, Cinquepalmi A, Fronda C, Bergamasco B, Ducati A, Lanotte M. *Freezing and hypokinesia of gait induced by stimulation of the subthalamic region*. J Neurol Sci 2007;258(1-2):99-103.
- Tommasi G, Krack P, Fraix V, LeBas JF, Chabardes S, Benabid AL, Pollak P. *Pyramidal tract side effects induced by deep brain stimulation of the subthalamic nucleus*. Journal of Neurology, Neurosurgery, and Psychiatry, J Neurol Neurosurg Psychiatry, 2008, 79(7): 813-9.
- Deluca C, Tommasi G, Moretto G, Fiaschi A, Tinazzi M. *Focal motor seizures mimicking hemifacial spasm*. Parkinsonism Relat Disord, 14(8):649-51.
- Tommasi G, Lanotte M, Albert U, Zibetti M, Castelli L, Maina G, Lopiano L. *Transient acute depressive state induced by subthalamic region stimulation*. J Neurol Sci, 2008; 273(1-2):135-8.
- Tommasi G. *Freezing e disturbi della marcia nella malattia di Parkinson*. Notiziario UP 2008: 6-10.

ABSTRACTS

- Baracchini C, Tommasi G, Dam M. *Creutzfeldt-Jakob disease presenting with apperceptive visual agnosia*. Abstract of the Meeting of the European Federation of Neurological Societies. Seville, Spain, September 19-25,1998. Eur J Neurol 1998; 5 (3 Suppl) : S38-S39.
- Zanette G, Tommasi G, Manganotti P, Tinazzi M, Polo A, Fiaschi A, Rizzuto N. *Time course of excitability of ipsilateral motor cortex in unimanual movements*. Abstract del Congresso Nazionale della Società Italiana di Neurofisiologia Clinica. Portoferraio, 14-17 June 1999. Clin Neurophysiol 2000;111(13):2297.
- Zanette G, Tommasi G, Tinazzi M, Manganotti P, Polo A, Fiaschi A, Rizzuto N. *Modulation of excitability of ipsilateral motor cortex during unimanual movements*. Abstract of the XXXI National Congress of the Italian Neurological Society. Verona, October 2-6, 1999. Ital J Neurol Sci 1999;20(4 Suppl):S142-S143.
- Zanette G, Refatti N, Manganotti P, Polo A, Tommasi G, Fiaschi A, Rizzuto N. *Modificazioni della eccitabilità corticale nella sclerosi laterale amiotrofica: monitoraggio mediante stimolazione magnetica transcranica*. Abstract del Congresso Nazionale della Società Italiana di Neurofisiologia Clinica. Bergamo, 31 May - 3 June 2000. Publication in the abstract book.
- Tommasi G, Manganotti P, Refatti N, Rizzuto N, Fiaschi A, Zanette G. *Facilitazione dei potenziali evocati motori durante la contrazione muscolare unimanuale e bimanuale*. Abstract del Congresso Nazionale della Società Italiana di Neurofisiologia Clinica. Bergamo, 31 May - 3 June 2000.

Publication in the abstract book.

- Zanette G, Refatti N, Forgione A, Manganotti P, Tommasi G, Tamburin S, Fiaschi A, Rizzuto N. *Changes in motorcorticoneuron excitability with amyotrophic lateral sclerosis*. Abstract of the XV International Congress of Clinical Neurophysiology. Buenos Aires, May 16-20, 2001. Clin Neurophysiol 2001;112(1 Suppl): S90.
- Zanette G, Forgione A, Tamburin S, Manganotti P, Tommasi G, Rizzuto N. *Neurophysiological contribution to the diagnosis of upper motor neuron involvement in amyotrophic lateral sclerosis*. Abstract of the XXXII Congress of the Italian Neurological Society. Rimini, September 29-October 3, 2001. Neurol Sci 2001;22 (Suppl): S126.
- Tommasi G, Manganotti P, Patuzzo S, Zanette G, Fiaschi A. *Differenti modalità di attivazione della corteccia motoria ipsilaterale e controlaterale durante la contrazione unilaterale di distinti muscoli dell'arto superiore*. Abstracts of the Congresso Nazionale della Società Italiana di Neurofisiologia Clinica. Bologna, 5-7 June 2002. Publication in the abstract book.
- Tommasi G, Manganotti P, Patuzzo S, Zanette G, Fiaschi A, Rizzuto N. *Effect of isometric contraction of distinct upper limb muscles on the excitability of ipsilateral and contralateral motor cortex*. Abstract of the XXXIII Congress of the Italian Neurological Society. Napoli, September 14-18, 2002. Neurol Sci 2002; 23 (Suppl): S138-S139.
- Tommasi G, Fraix V, Krack P, Le Bas J F, Benabid AL, Pollak P. *Pyramidal tract side effects induced by deep brain stimulation of the subthalamic nucleus*. Abstract of the XXXV Congress of the Italian Neurological Society: Genova, September 25-29, 2004. Neurol Sci 2004;25 (Suppl): S17.
- Tommasi G, Krack P, Fraix V, Pollak P. *Study of pyramidal tract anatomical aspects using stimulation of the subthalamic nucleus*. Abstract of the XXXV Congress of the Italian Neurological Society: Genova, September 25-29, 2004. Neurol Sci 2004; 25 (Suppl): S147.
- Tommasi G, Krack P, Fraix V, Benabid AL, Le Bas J F, Pollak P. *Pyramidal tract side effects induced by deep brain stimulation of the subthalamic nucleus*. Abstracts of the Movement Disorder Society's ninth International Congress of Parkinson's Disease and Movement Disorders: New Orleans, Louisiana, USA, March 5-8, 2005. Mov Disord 2005; 20 (Suppl 10): S154.
- Tommasi G, Krack P, Fraix V, Batir A, Benabid AL, Pollak P. *Subthalamic nucleus stimulation and apraxia of eyelid opening in patients with Parkinson's disease*. Abstracts of the Movement Disorder Society's ninth International Congress of Parkinson's Disease and Movement Disorders: New Orleans, Louisiana, USA, March 5-8, 2005. Mov Disord 2005; 20 (Suppl 10): S154.
- Tommasi G, Krack P, Fraix V, Batir A, Benabid AL, Pollak P. *Is apraxia of eyelid opening exclusively a side effect specific of the subthalamic nucleus in stimulated Parkinson's disease patients?* Abstract of the XXXVI Congress of the Italian Neurological Society: Cernobbio, October 8-12, 2005. Neurol Sci 2005; 26 (Suppl): S88.
- Zibetti M, Tommasi G, Torre E, Pesare M, Rosso M, Ascione S, Bergamasco B, Lanotte M, Lopiano L. *Long term effects of bilateral subthalamic nucleus stimulation on axial symptoms in patients with Parkinson's disease*. Abstract of the XXXVI Congress of the Italian Neurological Society: Cernobbio, October 8-12, 2005. Neurol Sci 2005; 26 (Suppl): S87.
- Pesare M, Cinquepalmi A, Zibetti M, Rosso M, Torre E, Tommasi G, Bergamasco B, Lopiano L. *Psychotropic drug's modifications after deep brain stimulation of the subthalamic nucleus in Parkinson's disease: a long-term follow-up*. Abstract of the XXXVI Congress of the Italian Neurological Society: Cernobbio, October 8-12, 2005. Neurol Sci 2005; 26 (Suppl): S241.

- Priori A., Bartolomei L., Foresti C., Stefani A., Tommasi G., Valzania F., Cogiamanian F., Galati S., Marceglia S., Mrakic-Sposta S., Rossi L., Eleopra R., Lopiano L. *Proposta di un consensus per il monitoraggio elettrofisiologico intraoperatorio per la chirurgia stereotassica del nucleo subtalamico nella malattia di Parkinson*. Atti del Congresso Nazionale della Società Italiana di Neurofisiologia Clinica. Torino, 11-13 maggio 2006: p.24.
- Tommasi G, Zibetti M, Cinquepalmi A, Pesare M, Rosso M, Lanotte M, Bergamasco B, Lopiano L. *Role of levodopa and bilateral subthalamic stimulation on axial and cardinal symptoms in Parkinson's disease patients*. Abstract of the XXXVII Congress of the Italian Neurological Society: Bari, October 14-18, 2006. Neurol Sci 2006; 27 (Suppl): S48.
- Tommasi G, Lopiano L, Zibetti M, Cinquepalmi A, Bergamasco B, Fronda C, Ducati A, Lanotte M. *Freezing e bradicinesia della marcia indotti dalla stimolazione della regione subtalamica*. Atti del 55° Congresso Nazionale della Società Italiana di Neurochirurgia, Sorrento 19-22 Novembre 2006: p. 105.
- Tommasi G, Lopiano L, Albert U, Zibetti M, Maina G, Bergamasco B, Ducati A, Lanotte M. *Depressione acuta transitoria indotta dalla stimolazione della regione subtalamica*. Atti del 55° Congresso Nazionale della Società Italiana di Neurochirurgia, Sorrento 19-22 Novembre 2006: p. 176.
- Tommasi G, Lanotte M, Fincati E, Zibetti M, Moretto G, Lopiano L. *Gait disturbances induced by stimulation of the subthalamic region in Parkinson's patients*. Abstracts of the Movement Disorder Society's. Eleventh International Congress of Parkinson's Disease and Movement Disorders. Istanbul, Turkey, June 3-7, 2007. Mov Disord 2007; 22 (Suppl 16): S51.
- Tommasi G, Lopiano L, Fincati E, Zibetti M, Moretto G, Lanotte M. *Effects of high frequency stimulation of pallidal projections to pedunculopontine nucleus on Parkinson's patients gait*. Atti del 56° Congresso Nazionale della Società Italiana di Neurochirurgia, Roma 24-26 June 2007: p. 183.
- Deluca C, Recchia S, Tommasi G, Zanoni T, Moretto G, Darra F, Manganotti P, Fiaschi A, Tinazzi M. *Motor seizure mimicking hemifacial spasm?* Abstract of the XXXVIII Congress of the Italian Neurological Society: Firenze, October 13-17, 2007. Neurol Sci 2007; 28 (Suppl): S133.
- Tommasi G, Gambarin M, Deluca C, Ricciardi G, Moretto G, Fiaschi A, Tinazzi M. *Transient hemichorea secondary to aneurysm of the carotid artery*. Abstract of the XXXVIII Congress of the Italian Neurological Society: Firenze, October 13-17, 2007. Neurol Sci 2007; 28 (Suppl): S134.
- Priori A., Bartolomei L., Foresti C., Stefani A., Tommasi G., Valzania F., Cogiamanian F., Galati S., Marceglia S., Mrakic-Sposta S., Rossi L., Eleopra R., Lopiano L. *Proposta di un consensus per il monitoraggio elettrofisiologico intraoperatorio per la chirurgia stereotassica del nucleo subtalamico nella malattia di Parkinson*. Atti del convegno: 4a Riunione Annuale del Gruppo di Studio S.I.N. sulla "Neurostimolazione. Cerebrale Profonda". Venezia, 13-14 dicembre 2007.
- Tommasi G, Ottaviani S, Fincati E. *Effects of subthalamic region stimulation at different frequencies on parkinson's gait*. Abstract of the XXXVIII Congress of the Italian Neurological Society, Firenze, October 13-17, 2007. Neurol Sci 2007; 28 (Suppl): S352.
- Longhi M, Ricciardi G, Tommasi G, Nicolato A, Lupidi F, Foroni R, Ganau M, Fincati E, Ottaviani S, Bertolasi L, Beltramello A, Tinazzi M, Moretto G, Gerosa M. *Localizzazione del nucleo subtalamico mediante utilizzo della RM 3 Tesla: l'esperienza preliminare del gruppo DBS di Verona*. Abstracts del XLVIII Congresso Nazionale della Società dei Neurologi, Neurochirurghi e Neuroradiologi Ospedalieri (SNO), Milano, 21-24 maggio 2008. Riv. It. di Neurobiologia, Suppl. 1, 2008: 364.
- G.K. Ricciardi, M. Longhi, G. Tommasi, E. Fincati, L. Bertolasi, A. Nicolato,

R.I. Foroni, S. Ottaviani, M. Tinazzi, G. Moretto, M. Gerosa, A. Beltramello.
Use of 3 Tesla MRI for direct localization of subthalamic nucleus: Preliminary experience and comparison with conventional targeting.
Abstracts of the Movement Disorder Society's. Thirteenth International Congress of Parkinson's Disease and Movement Disorders. Paris, France June 7-11, 2009. Mov Disord 2009; 24 (Suppl 1): S472.

CONGRESSES

Participation as:

- speaker in 10 congresses,
- with oral communications in 13 congresses,
- with poster presentations in 11 congresses,
- as listener in approximately 60 congresses.

SCIENTIFIC ACTIVITIES

- Member of the national research group for the drafting of the national guidelines on deep brain stimulation.
- Member of the national research group for 2 protocol studies on: "Deep brain stimulation (DBS) in epilepsy".
- Research activities with the Department of Neurosciences of the University of Grenoble, with the Laboratory INSERM UMR-S 975 Hôpital de la Salpêtrière, Paris, and the Department of Neurosciences of the University of Verona.
- Principal Investigator in a bi-centric protocol study (University of Grenoble/Verone) on the cognitive functions related to dopaminergic and subthalamic nucleus stimulation in Parkinson's disease patients.

Verona, 27th July 2009

Giorgio Tommasi