

## CURRICULUM VITAE

*Giuseppe Lauria, MD*

**Date and place of birth:** March 22, 1965 – Belluno, Italy  
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### *Present position*

- Director, Day Hospital Departmental Unit
- Head, Skin biopsy, Peripheral Nerve, and Neuropathic Pain Centre
- Senior Consultant, Neuromuscular Diseases Unit

### *Education*

- 1991 – Degree in Medicine and Surgery at the University of Padua
- 1993-1997 – Residency in Neurology at the University of Ferrara

### *Abroad fellowship*

1997 – Visiting scientist, Department of Neurology, Johns Hopkins University, Baltimore, USA  
2001 – Visiting neurologist, Electromyography and Motor Control Unit, Department of Neurology, University of Barcelona

### *Appointments*

- 2003 to date – Non tenured Professor, Neurological Clinic, University of Brescia
- 2007 to date – Visiting Professor, Neurological Clinic, University of Ferrara
- 2008 to date – Chair of the research line “Neuropathic pain and peripheral neuropathies” at the “Carlo Besta” Neurological Institute
- 2008 to date – Member of the Advisory Board of the Department of Neurodegenerative Diseases at the “Carlo Besta” Neurological Institute
- 2008 to date – Referring neurologist for the Italian Association of ALS Patients at the “Carlo Besta” Neurological Institute

### *Membership*

- Peripheral Nerve Society (*member of the Board of Directors*)
- Italian Peripheral Nervous System Study Group (*member of the Scientific Board*)
- Italian Neurological Society

### *Editorial commitments*

- Member of the Editorial Board of *The Journal of the Peripheral Nervous System*
- Reviewer for several journals, including *Brain*, *Lancet Neurology*, *Muscle & Nerve*, *Neurology*, *Annals of Neurology*, *European Journal of Neurology*, *Journal of Neurology Neurosurgery and Psychiatry*, *Journal of Neurology*, *Neurological Sciences*, *Plos One*

### *Publications*

- Co-author of 101 peer-reviewed publications (h-index: 22)
- Co-author of 10 book chapters
- Co-editor of 2 books.

### *Guidelines in Neurology*

- Chair of the Board for EFNS/PNS guidelines on the use of Skin Biopsy in the Diagnosis of Small Fibre Neuropathy (2010)
- Member of the Board for the revision of the Guidelines for the Diagnosis of Diabetic Neuropathy (NeuroDIAB 2009)
- Member of the Board of the American Academy of Neurology, the American Association of Neuromuscular and Electrodiagnostic Medicine, and the American Academy of Physical Medicine and Rehabilitation for revision of the Practice Parameters for evaluation of distal symmetric polyneuropathy (laboratory and genetic testing, autonomic testing, nerve biopsy, and skin biopsy) (2009)
- Chair of the Board for EFNS guidelines on the use of Skin Biopsy in the Diagnosis of Peripheral Neuropathy (2005)

### **Clinical and Experimental Trials (coordinator)**

- AriSLA 2010 – *ErythroPoietin in ALS: a study of dose-finding and safety*
- IRCCS Fondazione “Carlo Besta” – *Efficacy and safety of erythropoietin in amyotrophic lateral sclerosis – EPOS trial*
- GBS/CIDP Foundation International 2008 *Autonomic failure and pain in Guillain-Barré syndrome (coordinators: PA van Doorn, L. Ruts, G. Lauria)*
- Epitech 2009 – *Efficacy of PEA in the regeneration of human diabetic neuropathy. Pilot study.*
- Ministry of Health – Ricerca Finalizzata 2006-2008: *Endogen and exogen mediators to counteract nerve damage due to antineoplastic drugs*
- Ministry of Health – Ricerca Corrente 2006-2007 – *Efficacy of erythropoietin in neurodegenerative diseases: development of experimental models and clinical trials*
- Ministry of Health– Ricerca Finalizzata 2007-2009: *Evaluation of the diagnostic process for neuromuscular diseases in Italian Neurological Centres (co-coordinator with Graziella Filippini, MD, Istituto Neurologico “Carlo Besta”)*
- Regione Lombardia – Ricerca Finalizzata 2005 (DGR. VII/13235 del 9.6.2003, in attuazione al PSSR 2002-2004) – *A randomized, double blind, placebo-controlled study to assess the efficacy of electroacupuncture in chronic neuropathic pain.*
- Grünenthal-Formenti Independent Research Grant 2005 – *Evaluation of the efficacy of buprenorphine TDS in painful neuropathies*
- Grünenthal-Formenti 2007 (multicentre study, coordinator for the Italian centres) – *Safety and efficacy of lidocaine 5% medicated plaster in comparison with pregabalin in postherpetic neuralgia and diabetic polyneuropathic pain” (KF10004/03)*
- Grünenthal-Formenti 2007 – *Efficacy of buprenorphine in animal models of painful neuropathy (co-coordinator with G. Cavaletti, Università Milano Bicocca)*
- Pfizer Independent Research Grant 2006 – *Evaluation of the analgesic activity of pregabalin in Burning Mouth Syndrome*
- Agave Independent Research Grant 2007 – *Evaluation of neuroprotective effect of alfa-lipoic acid in in vitro models of toxic neuropathy.*
- European Federation of the Neurological Societies 2004 – *Development of guidelines for the use of skin biopsy in the diagnosis of peripheral neuropathies*
- Chiesi Farmaceutici – DEMAND study 2003 -2008 – (coordinator project neuropathy) *A multicenter, randomized, prospective, double-blind study to evaluate the nephroprotective and neuroprotective effect of delapril alone or combined with manidipine in patients with type 2 diabetes.*
- Italian Association of Diabetologists 2000-2001 – *Early diagnosis of diabetic neuropathy with skin biopsy*
- National Council of Researches Short-Term Mobility Program, 2001– *Neurophysiological features in Parkinson disease*
- National Council of Researches, Short-Term Mobility Program 1997 – *Study of skin innervation in peripheral neuropathies.*
- Province of Belluno 1992 – *Epidemiological study on cerebrovascular diseases in the Province of Belluno, Italy*

### **Awards**

- European Neurological Society 2002 – best scientific contribution on “Peripheral neuropathies”
- European Neurological Society 2004 – best scientific contribution on “Peripheral neuropathies”

### **Invited lectures**

- XXth World Congress of Neurology, Marrakesh, Morocco, November 16, 2011 – *Skin Biopsy*
- European Association for the Study of Diabetes, Lisbon, 12 - 16 September 2011 - “*Skin biopsy: research tool or routine diagnostic procedure?*”
- European Neurological Society, Lisbon, 28 May 2011 - *Histopathological landmarks of small fibre neuropathy and how they correlate with other data*
- IV Corso Teorico-Pratico su “la diagnosi del paziente con dolore neuropatico. Il contributo della neurofisiologia clinica” Ferrara, 26 Maggio 2011 - “*Biopsia di cute e dolore neuropatico: update*”
- XLI Meeting of the Italian Neurological Society (SIN), October 25, 2010, Catania – *Peripheral Neuropathy Association – Diabetic Neuropathies*
- Official Satellite Symposium of the 13th World Congress on Pain, Montreal, August 28<sup>th</sup>, 2010 – *Burning Mouth Syndrome: histological features*
- EFNS, Neuromuscular Diseases Teaching Course, Geneva, September 25<sup>th</sup>, 2010 – *Cutaneous biopsy*
- Peripheral Nerve Society, Sidney, July 4, 2010 – *Skin biopsy in immune-mediated neuropathies*
- European Neurological Society, Berlin, June 26, 2010 – *Skin biopsy in the management of peripheral neuropathies*
- Queen’s Square Institute of Neurology, London, April 6, 2010 - *Skin biopsy in peripheral neuropathies*
- 10<sup>th</sup> Course on Therapeutic Frontiers in Neurology, Bergamo, March 13, 2010 - *Neuroprotection of Peripheral Nerves*
- Consensus meeting for the revision of the guidelines for the diagnosis of diabetic neuropathy, Toronto, Oct 13-15, 2009

- XL Meeting of the Italian Neurological Society (SIN), November 21-25, 2009, Padova - Neuroscience and Pain Study Group – *Nerve biopsy and skin biopsy in painful neuropathies*
- Workshop of the Italian ALS study group, November 13-15, Genova – *Neurotrophic factors in ALS*
- VIII Convegno Nazionale Area Culturale Dolore (ACD) SIAARTI, Roma 11-13 Novembre 2009 - *Buprenorfina: dalla farmacologia alla clinica nel paziente con dolore neuropatico*
- European Neurological Society (ENS), Symposium for Neurologists, 25-26 July 2009, Chennai, India – *Neuropathic pain; Clinical, Neurophysiological, and Neuropathological Features of Peripheral Neuropathies*
- XLV Congresso Associazione Italiana Neuropatologia, 3-6 June, 2009, Bologna
- Consensus Conference on Chiari: a Malformation or an Anomaly? – Medical treatment of neuropathic pain, 7-9 May, 2009, Milan
- LXIII Congreso Chileno Neurología Psiquiatría Neurocirugía, Viña Del Mar, Chile, November 2008
  - o *Painful neuropathies: from symptoms to neuropathology*
  - o *Application of skin biopsy in human neuropathies and experimental models*
- Congreso Anual de La Sociedad Española De Neurologia, Barcelona, November 27, 2008, *Diagnostic Criteria For Small Fiber Neuropathy,*
- University of Basel, Continued Medical Education seminars for Neurology, October 2, 2008 - *Skin biopsy for peripheral neuropathies in clinical practise and research*
- European Neurological Society, Nice June 7, 2008 – *Skin biopsies and their use in diagnosing peripheral neuropathies*
- University of Rotterdam, Dpt of Neurology, May 27, 2008 - *Neuropathic Pain and Inflammation Symposium: Skin biopsy and pain*
- 48° Congresso della Società Nazionale di Neurologia, Milano 22 maggio 2008 – *Neuropatie dolorose: dai sintomi alla neuropatologia*
- XXXVIII Congresso della Società Italiana di Neurologia, Firenze Ottobre 2007 – *Utilità della neuropatologia nella neurologia clinica attuale*
- Hôpital de la Pitié Salpêtrière, Paris - Gennaio 2007 - *Controversies on the use of skin biopsy.*
- Universidad de Barcelona - Hopital Clinic, Dpt of Neurology – 12 Feb 2007 – *Skin biopsy in the diagnosis of peripheral neuropathies.*
- Updates in Clinical Neurology - Sezione Lombarda SIN-SNO, Brescia 30 marzo 2007 – *La diagnostica strumentale nelle neuropatie periferiche*
- 30° Congresso dell'Associazione Italiana Studio Dolore, Assisi 25 maggio 2007 – *Trattamento della neuropatia dolorosa*
- XXXVII Congresso della Società Italiana di Neurologia, Bari ottobre 2006 – *Biopsia: oltre il surale*
- 60° Congresso Nazionale SIAARTI, Perugia ottobre 2006 – *Dolore neuropatico refrattario.*
- European Federation of the Neurological Societies – Glasgow Settembre 2006:
  - *Focused workshop: Skin biopsy: a new window into the peripheral nervous system.*
  - *Teaching course: Painful neuropathies.*
- Università di Catania, Dipartimento di Endocrinologia - maggio 2006: *Neuropatia diabetica: patogenesi, diagnosi, terapie*
- Neuroscienze e Dolore - Peschiera Del Garda (VR) 27 ottobre 2006: *La Sindrome delle Gambe Senza Riposo*
- Università di Padova, Clinica Neurologica, Padova 14 febbraio 2005 – *Neuropatie sensitive*
- XXXVI congresso della Società Italiana di Neurologia, Cernobbio Ottobre 2005 – *Clinica e Semiologia delle neuropatie sensitive.*
- Università di Ferrara, maggio 2005 – *La biopsia cutanea nella diagnosi delle neuropatie periferiche.*
- King's College Neuromuscular Disease Annual Symposium, Department of Neurosciences, University of London, Novembre 2003 – *The use of skin biopsy in the diagnosis of peripheral neuropathies.*
- Johns Hopkins University, Dpt of Neuroscience and Neurology, Baltimore – 10 Oct 2003 - *Skin biopsy in Peripheral Neuropathies.*
- Università di Ferrara. Workshop di Neuroimmunologia, settembre 2003 – *Biopsia cutanea: Applicazioni e Prospettive*
- VII congresso del Gruppo Italiano di Studio del Sistema Nervoso Periferico, Ascoli Piceno aprile 2002 – *Biopsia cutanea - Contributo diagnostico nelle neuropatie dolorose.*
- Chiesi Farmaceutici, Parma dicembre 2001 – *Dolore e Neuropatie.*

#### **List of Publications**

1. Lauria G. Neuropathic pain and diabetes: focus on mechanisms and potential therapeutic strategies. *Hot Topics in Neurology and Psychiatry, 2011 in press*
2. León L, Casanova-Molla J, Lauria G., Valls-Solé J. The somatosensory blink reflex in upper and lower brainstem lesions. *Muscle Nerve 2011;43(2):196-202.*
3. Rigamonti A, Lauria G., Piamarta F, Fiumani A, Agostoni E. Thymoma-associated myasthenia gravis without acetylcholine receptor antibodies. *J Neurol Sci. 2011 Mar 15;302(1-2):112-3*

4. Rigamonti A, Lauria G, Longoni M, Stanzani L, Agostoni E. Acute isolated ophthalmoplegia with anti-GQ1b antibodies: a case report. *Neurol Sci* 2011 Feb 19. [Epub ahead of print]
5. Lauria G, Bakkers M, Schmitz C, Lombardi R, Penza P, Devigili G, Smith AG, Hsieh ST, Mellgren SI, Umapathi T, Ziegler D, Faber CG, Merkies ISJ. Intraepidermal nerve fiber density at the distal leg: a worldwide normative reference study. *J Periph Nerv Syst*, 2010;15:202-207
6. Dacci P, Dina G, Cerri F, Previtali SC, Lopez ID, Lauria G, Feltri ML, Bolino A, Comi G, Wrabetz L, Quattrini A. Foot pad skin biopsy in mouse models of hereditary neuropathy. *Glia*. 2010 Sep 27. [Epub ahead of print]
7. Bakonja M, Lauria G. Taking a peek into pain, from skin to brain. *Pain*. 2010 Dec;151(3):559-60.
8. Marchesi C, Milani M, Morbin M, Cesani M, Lauria G, Scaioli V, Piccolo G, Fabrizi GM, Cavallaro T, Taroni F, Pareyson D. Four novel cases of periaxin-related neuropathy and review of the literature. *Neurology* 2010, in press
9. Tesfaye S, Boulton AJ, Dyck PJ, Freeman R, Horowitz M, Kempler P, Lauria G, Malik RA, Spallone V, Vinik A, Bernardi L, Valensi P; on behalf of the Toronto Diabetic Neuropathy Expert Group. Diabetic Neuropathies: Update on Definitions, Diagnostic Criteria, Estimation of Severity, and Treatments. *Diabetes Care*. 2010 Oct;33(10):2285-2293
10. Bakkers M, Faber CG, Drent M, Hermans MC, van Nes SI, Lauria G, De Baets M, Merkies IS. Pain and autonomic dysfunction in patients with sarcoidosis and small fibre neuropathy. *J Neurol*. 2010 Jul 20. [Epub ahead of print]
11. Ghezzi P, Bernaudin M, Bianchi R, Blomgren K, Brines M, Campana W, Cavaletti G, Cerami A, Chopp M, Coleman T, Digicaylioglu M, Ehrenreich H, Erbayraktar S, Erbayraktar Z, Gassmann M, Genc S, Gokmen N, Grasso G, Juul S, Lipton SA, Hand CC, Latini R, Lauria G, Leist M, Newton SS, Petit E, Probert L, Sfacteria A, Siren AL, Talan M, Thiemermann C, Westenbrink D, Yaqoob M, Zhu C. Erythropoietin: not just about erythropoiesis. *Lancet*. 2010 Jun 19;375(9732):2142.
12. Lauria G, Hsieh ST, Johansson O, Kennedy WR, Leger JM, Mellgren SI, Nolano M, Merkies ISJ, Polydefkis M, Smith AG, Sommer C, Valls-Solé J. European Federation of Neurological Societies/Peripheral Nerve Society Guideline on the Use of Skin Biopsy in the Diagnosis of Small Fibre Neuropathy. *Eur J Neurol*, 2010 Jul;17(7):903-912;e44-49
13. Lauria G, Hsieh ST, Johansson O, Kennedy WR, Leger JM, Mellgren SI, Nolano M, Merkies ISJ, Polydefkis M, Smith AG, Sommer C, Valls-Solé J. European Federation of Neurological Societies/Peripheral Nerve Society Guideline on the Use of Skin Biopsy in the Diagnosis of Small Fibre Neuropathy. *J Periph Nerv Syst* 2010;15(2):79-92.
14. Penza P, Majorana A, Lombardi R, Camozzi F, Bonadeo S, Sapelli P, Lauria G. "Burning Tongue" and "Burning Tip": The Diagnostic Challenge of Burning Mouth Syndrome. *Clin J Pain*, 2010 Jul-Aug;26(6):528-32.
15. Cervellini I, Bello E, Frapolli R, Porretta-Serapiglia C, Oggioni N, Canta A, Lombardi R, Camozzi F, Roglio I, Melcangi RC, D'Incalci M, Lauria G, Ghezzi P, Cavaletti G, Bianchi R. The neuroprotective effect of erythropoietin in docetaxel-induced peripheral neuropathy is exerted with no reduction of antitumour activity in 13762 adenocarcinoma-bearing rats. *Neurotox Res*. 2010; 18(2):151-160
16. Nanetti L, Lauria G, Scaioli V, Marchesi C, Salsano E, Lombardi R, Pareyson D. Slowly progressive sensory hemisindrome: unusual presentation of paraneoplastic sensory neuronopathy *J Periph Nerv Syst*, 2010 Mar;15(1):73-4.
17. Rigamonti A, Lauria G, Basso F, Stanzani L, Agostoni E. Guillain-Barré syndrome mimicking brain death. *J Periph Nerv Syst* 2009;14(4):316-9.
18. van Nes SI, Vanhoutte EK, Faber CG, Garssen M, van Doorn PA, Merkies IS; PeriNomS Study Group (Bennett D, van den Berg LH, Van den Bergh PY, Comblath DR, Dalakas M, Devigili G, van Doorn PA, Faber CG, Gorson KC, Hadden RD, Hahn AF, Hartung HP, Hughes RA, Lauria G, Léger JM, Lewis RA, Lunn MP, Merkies IS, Nobile-Orazio E, Notermans NC, Padua L, Reilly MM, Smith B). Improving fatigue assessment in immune-mediated neuropathies: the modified Rasch-built fatigue severity scale. *J Peripher Nerv Syst*. 2009;14(4):268-78.
19. Remuzzi A, Cornolti R, Bianchi R, Figliuzzi M, Porretta-Serapiglia C, Oggioni N, Carozzi V, Crippa L, Avezza F, Fiordaliso F, Salio M, Lauria G, Lombardi R, Cavaletti G. Regression of diabetic complications by islet transplantation in the rat. *Diabetologia* 2009; 52:2653–2661
20. Giatti S, Pesaresi M, Cavaletti G, Bianchi R, Carozzi V, Lombardi R, Maschi O, Lauria G, Garcia-Segura LM, Caruso D, Melcangi RC, Neuroprotective effects of a ligand of translocator protein-18kda (RO5-4864) in experimental diabetic neuropathy. *Neuroscience* 2009;164(2):520-9.
21. Lauria G, Campanella A, Filippini G, Martini A, Penza P, Maggi L, Antozzi C, Ciano C, Beretta P, Caldiroli D, Ghelma F, Ferrara G, Ghezzi P, Mantegazza R. Erythropoietin in Amyotrophic Lateral Sclerosis: A pilot, randomised, double-blind, placebo-controlled study of safety and tolerability. *Amyotrophic Lat Sclerosis* 2009;10(5-6):410-5
22. Cervellini I, Bello E, Frapolli R, Porretta-Serapiglia C, Oggioni N, Canta A, Lombardi R, Camozzi F, Roglio I, Melcangi RC, D'Incalci M, Lauria G, Ghezzi P, Cavaletti G, Bianchi R. The neuroprotective effect of erythropoietin in docetaxel-induced peripheral neuropathy is exerted with no reduction of antitumour activity in 13762 adenocarcinoma-bearing rats. *Neurotox Res*. 2010; 18(2):151-160
23. Bakkers M, Merkies ISJ, Lauria G, Devigili G, Penza P, Lombardi R, Hermans MCE, van Nes SI, De Baets M, Faber CG. Intra-epidermal nerve fiber density normative values and its application in sarcoidosis. *Neurology* 2009;73:1142–1148
24. Chiorazzi A, Nicolini G, Canta A, Oggioni N, Rigolio R, Cossa G, Lombardi R, Roglio I, Cervellini I, Lauria G, Melcangi RC, Bianchi R, Crippa D, Cavaletti G. Experimental epothilone B neurotoxicity: results of in vitro and in vivo studies. *Neurobiol Dis* 2009;35(2):270-7
25. Canta A, Chiorazzi A, Meregalli C, Carozzi V, Oggioni N, Lauria G, Bianchi R, Nicora MF, Cavaletti G. Continuous buprenorphine delivery effect in streptozotocine-induced painful diabetic neuropathy in rats. *J Pain* 2009;10(9):961-8.

26. Rigamonti A, Lauria G, Balgera R, Agostoni E. Subacute inflammatory polyradiculopathy associated with Sjögren's syndrome. *Muscle Nerve*. 2009 39(6):855-7.
27. CI-PERINOMS Study Group. CI-PERINOMS: chemotherapy-induced peripheral neuropathy outcome measures study. *J Periph Nerv Syst* 2009;14(2):69-71.
28. Roglio I, Bianchi R, Camozzi F, Carozzi V, Cervellini I, Crippa D, Lauria G, Cavaletti G, Melcangi RC. Docetaxel-induced peripheral neuropathy: protective effects of dihydroprogesterone and progesterone in an experimental model. *J Peripher Nerv Syst*. 2009 Mar;14(1):36-44.
29. Penza P, Lombardi R, Camozzi F, Ciano C, Lauria G. Painful neuropathy in subclinical hypothyroidism: clinical and neuropathological recovery after hormone replacement therapy. *Neurol Sci*. 2009 Apr;30(2):149-51.
30. RMC Trial Group. Randomised controlled trial of methotrexate for chronic inflammatory demyelinating polyradiculoneuropathy (RMC trial): a pilot, multicentre study. *Lancet Neurol*. 2009 Feb;8(2):158-64.
31. England JD, Gronseth GS, Franklin G, Carter GT, Kinsella LJ, Cohen JA, Asbury AK, Szigeti K, Lupski JR, Latov N, Lewis RA, Low PA, Fisher MA, Herrmann D, Howard JF, Lauria G, Miller RG, Polydefkis M, Sumner AJ; American Academy of Neurology; American Association of Neuromuscular and Electrodiagnostic Medicine; American Academy of Physical Medicine and Rehabilitation. Evaluation of distal symmetric polyneuropathy: The role of laboratory and genetic testing (an evidence-based review). *Muscle Nerve*. 2009;39(1):116-25
32. England JD, Gronseth GS, Franklin G, Carter GT, Kinsella LJ, Cohen JA, Asbury AK, Szigeti K, Lupski JR, Latov N, Lewis RA, Low PA, Fisher MA, Herrmann D, Howard JF, Lauria G, Miller RG, Polydefkis M, Sumner AJ; American Academy of Neurology; American Association of Neuromuscular and Electrodiagnostic Medicine; American Academy of Physical Medicine and Rehabilitation. Evaluation of distal symmetric polyneuropathy: The role of autonomic testing, nerve biopsy, and skin biopsy (an evidence-based review). *Muscle Nerve*. 2009;39(1):106-15.
33. Lauria G, Lombardi R, Camozzi F, Devigili G. Skin biopsy for the diagnosis of peripheral neuropathy. *Histopathology*. 2009 Feb;54(3):273-85.
34. J.D. England, G.S. Gronseth, G. Franklin, G.T. Carter, L.J. Kinsella, J.A. Cohen, A.K. Asbury, K. Szigeti, J.R. Lupski, N. Latov, R.A. Lewis, P.A. Low, M.A. Fisher, D. Herrmann, J.F. Howard, G. Lauria, M. Polydefkis, A.J. Sumner. Practice Parameter: The evaluation of distal symmetric polyneuropathy: the role of laboratory and genetic testing (an evidence-based review). Report of the American Academy of Neurology, the American Association of Neuromuscular and Electrodiagnostic Medicine, and the American Academy of Physical Medicine and Rehabilitation. *Neurology*. 2009 Jan 13;72(2):185-92.
35. J.D. England, G.S. Gronseth, G. Franklin, G.T. Carter, L.J. Kinsella, J.A. Cohen, A.K. Asbury, K. Szigeti, J.R. Lupski, N. Latov, R.A. Lewis, P.A. Low, M.A. Fisher, D. Herrmann, J.F. Howard, G. Lauria, M. Polydefkis, A.J. Sumner. Practice Parameter: The evaluation of distal symmetric polyneuropathy: the role of autonomic testing, nerve biopsy, and skin biopsy (an evidence-based review) Report of the American Academy of Neurology, the American Association of Neuromuscular and Electrodiagnostic Medicine, and the American Academy of Physical Medicine and Rehabilitation. *Neurology*. 2009 Jan 13;72(2):177-84
36. Penza P, Campanella A, Martini A, Melli G, Lombardi R, Camozzi F, Devigili G, Lauria G. Short and intermediate-term efficacy of buprenorphine TDS in chronic painful neuropathies. *J Periph Nerv System*, 2008;13(4):283-8.
37. Melli G, Taiana M, Camozzi F, Triolo D, Podini P, Quattrini A, Taroni F, Lauria G. Alpha-lipoic acid prevents mitochondrial damage and neurotoxicity in experimental chemotherapy neuropathy. *Exp Neurol*. 2008;214(2):276-84
38. Devigili G, Tugnoli V, Penza P, Camozzi F, Lombardi R, Melli G, Broglio L, Granieri E, Lauria G. The diagnostic criteria for small fibre neuropathy: from symptoms to neuropathology. *Brain* 2008;131(Pt 7):1912-25
39. van Nes SI, Faber CG, Hamers RM, Harschnitz O, Bakkers M, Hermans MC, Meijer RJ, van Doorn PA, Merkies IS; Bennett D, van den Berg LH, Van den Bergh PY, Cornblath DR, Dalaka S M, van Doorn PA, Faber CG, Gorson KC, Hadden RD, Hahn AF, Hughes RA, Lauria G, Léger JM, Lewis RA, Lunn PT, Merkies IS, Nobile-Orazio E, Noterman S NC, Padua L, Reilly MM. Revising two-point discrimination assessment in normal aging and in patients with polyneuropathies. *J Neurol Neurosurg Psychiatry*. 2008 Jul;79(7):832-4.
40. Magnaghi, V, Ballabio M, Camozzi F, Colleoni M, Consoli A, Gassmann M, Lauria G, Motta M, Procacci P, Trovato AE, Bettler B. Altered peripheral myelination and pain perception in mice lacking GABA-b receptors. *Mol Cell Neurosci* 2008;37:599-609
41. Focosi D, Kast RE, Maggi F, Lauria G, Ceccherini-Nelli L, Petrini M. 5-HT2a inhibitors for progressive multifocal leukoencephalopathy: old drugs for an old disease. *J Infect Dis* 2008;197(2):328
42. Solari A, Laurà M, Salsano E, Radice D, Pareyson D, On behalf of the CMT-TRIAAL Study Group. Reliability of clinical outcome measures in Charcot-Marie-Tooth disease. *Neuromuscul Disord*. 2008;18(1):19-26.
43. Roglio I, Giatti S, Pesaresi M, Bianchi R, Cavaletti G, Lauria G, Garcia-Segura LM, Melcangi RC. Neuroactive steroids and peripheral neuropathy. *Brain Res Reviews* 2008;57(2):460-9.
44. Lauria G, Lombardi R. Skin biopsy: a new tool for diagnosing peripheral neuropathy. *Br Med J* 2007;334(7604):1159-1162
45. Lauria G, Devigili G. Skin biopsy as a diagnostic tool in peripheral neuropathies. *Nature Clinical Practice Neurology* 2007, Oct;3(10):546-57.
46. Sommer C, Lauria G. Skin biopsy: a new diagnostic tool for autonomic dysfunctions in Parkinson's disease? *Lancet Neurology* 2007;6:849

47. Sommer C, Lauria G. The use of skin biopsy in the management of peripheral neuropathy. *Lancet Neurology* 2007; 6:632-642.
48. Lauria G. Recent developments in the management of peripheral neuropathy using skin biopsy. *Rev Neurologique* 2007;163:1266-1270
49. Marucci G, Morandi L, Bartolomei I, Salvi F, Pession A, Righi A, Lauria G, Foschini MP. Amyotrophic lateral sclerosis with mutation of the Cu/Zn superoxide dismutase gene (SOD1) in a patient with Down syndrome. *Neuromuscul Disord.* 2007;17(9-10):673-6.
50. Rigamonti A, Magi S, Venturini E, Morandi L, Ciano C, Lauria G. Celiac disease presenting with motor neuropathy: effect of gluten free-diet. *Muscle Nerve* 2007;35(5):675-677
51. Roglio I, Bianchi R, Giatti S, Cavaletti G, Caruso D, Scurati S, Crippa D, Garcia-Segura LM, Camozzi F, Lauria G, Melcangi RC. Testosterone derivatives are neuroprotective agents in experimental diabetic neuropathy. *Cell Mol Life Sci* 2007;64(9):1158-68.
52. Bianchi R, Giardini A, Rodriguez-Menendez V, Oggioni N, Canta A, Colombo T, De Michele G, Martone S, Sfacteria A, Piedemonte G, Grasso G, Beccaglia P, Ghezzi P, D'Incalci M, Lauria G, Cavaletti G. Cisplatin-induced peripheral neuropathy: neuroprotection by erythropoietin without affecting tumour growth. *Eur J Cancer* 2007;43:710-717.
53. Leonelli E, Bianchi R, Cavaletti G, Caruso D, Crippa D, Garcia-Segura LM, Lauria G, Magnaghi V, Roglio I, Melcangi RC. Progesterone and its derivatives are neuroprotective agents in experimental diabetic neuropathy: biochemical and functional analyses. *Neuroscience* 2007;144:1293-1304.
54. Restivo DA, Marchese-Ragona R, Lauria G, Squatrito S, Gullo D, Vigneri R. Botulinum toxin treatment for oropharyngeal dysphagia associated with diabetic neuropathy. *Diabetes Care* 2006;29:2650-2653.
55. Lauria G, Morbin M, Lombardi R, Capobianco R, Camozzi F, Pareyson D, Manconi M, Geppetti P. Expression of capsaicin receptor immunoreactivity in human peripheral nervous system and in painful neuropathies. *J Periph Nerv Syst* 2006;11:262-271
56. Bianchi R, Brines M, Lauria G, Savino C, Giardini A, Nicolini G, Rodriguez-Menendez V, Oggioni N, Canta A, Penza P, Lombardi R, Minoia C, Ronchi A, Cerami A, Ghezzi P, Cavaletti G. Protective effect of erythropoietin and of its carbamylated derivative in experimental cisplatin peripheral neurotoxicity. *Clin Cancer Res* 2006;12:2607-2612.
57. Merkies IS, Lauria G. 131st ENMC international workshop: selection of outcome measures for peripheral neuropathy clinical trials 10-12 December 2004, Naarden, The Netherlands. *Neuromuscul Disord.* 2006;16:149-156.
58. Sghirlanzoni A, Pareyson D, Lauria G. Sensory neuron diseases. *Lancet Neurology* 2005;4:349-361
59. Lombardi R, Erne B, Lauria G, Pareyson D, Borgna M, Morbin M, Arnold A, Czaplinski A, Fuhr P, Schaeren-Wiemers N, Steck AJ. IgM deposits on skin nerves in anti-myelin-associated glycoprotein neuropathy. *Ann Neurol* 2005; 57:180-187
60. Lauria G, Majorana A, Borgna M, Lombardi R, Penza P, Padovani A, Sapelli P. Trigeminal small-fiber sensory neuropathy causes burning mouth syndrome. *Pain* 2005;115:332-337.
61. Lauria G. Skin biopsy in the diagnosis of peripheral neuropathies. *Practical Neurology* 2005;5:92-99.
62. Lauria G, Cornblath DR, Johansson O, McArthur, S.I. Mellgren, M. Nolano, N. Rosenberg, C. Sommer. EFNS Guidelines on the use of skin biopsy in the diagnosis of peripheral neuropathy. *Eur J Neurol* 2005;12: 747-758
63. Lauria G, Lombardi R, Borgna M, Penza P, Bianchi R, Savino C, Canta A, Nicolini G, Marmiroli P, Cavaletti G. Intraepidermal nerve fiber density in rat footpad: neuropathologic - neurophysiologic correlation. *J Periph Nerv Syst* 2005;10:199-205.
64. Lauria G. Small fibre neuropathy. *Curr Opin Neurol* 2005;18:591-597
65. Broglio L, Lauria G. Worsening after rituximab treatment in anti-MAG neuropathy. *Muscle Nerve* 2005; 32:378-9
66. Lauria G. Semeiologia e clinica delle neuropatie sensitive. *Neurol Sci* 2005;26:S301-S304.
67. Lauria G, Borgna M, Morbin M, Lombardi R, Mazzoleni G, Sghirlanzoni A, Pareyson D. Tubule and neurofilament immunoreactivity in human hairy skin: markers for intraepidermal nerve fibers. *Muscle Nerve* 2004;30:310-316.
68. Bianchi R, Buyukakilli B, Brines M, Savino C, Cavaletti G, Oggioni N, Lauria G, Borgna M, Lombardi R, Cimen B, Comelekoglu U, Kanik A, Tataroglu C, Cerami A, Ghezzi P. Erythropoietin both protects from and reverses experimental diabetic neuropathy. *Proc Natl Acad Sci U S A* 2004;10:823-828
69. Lauria G, Lombardi R, Borgna M. L'innervazione della cute nell'uomo: da Paul Langerhans alle attuali procedure diagnostiche. *Neurol Sci* 2004; 25:S419-S422.
70. Lauria G, Morbin M, Lombardi R, Borgna M, Mazzoleni G, Sghirlanzoni A, Pareyson D. Axonal swellings predict the degeneration of epidermal nerve fibers in painful neuropathies. *Neurology* 2003;61:631-636
71. Lauria G, Pareyson D, Pitzolu MG, Bazzigaluppi E. Excellent response to steroid treatment in anti-GAD cerebellar ataxia. *Lancet Neurology* 2003;2:634-635
72. Lauria G, Pareyson D, Sghirlanzoni A. Neurophysiological diagnosis of acquired sensory ganglionopathy. *Eur Neurol* 2003;50:146-152
73. Pareyson D, Testa D, Morbin M, Erbetta A, Ciano C, Lauria G, Milani M, Taroni F. Does CMT1A homozygosity cause more severe disease with root hypertrophy and higher CSF proteins? *Neurology* 2003;60:1721-1722.
74. Pareyson D, Sghirlanzoni A, Lauria G. Algoritmo diagnostico: dal sintomo alla causa. Polineuropatie sensitive. *Neurol Sci* 2003;24:S677-S680.
75. Pareyson D, Scaioli V, Ciano C, Lauria G, Sghirlanzoni A, Taroni F. Neuropatie di Charcot-Marie-Tooth: rivisitazione della neurofisiopatologia nell'era della genetica molecolare. *Neurol Sci* 2002;23:S461-S466

76. Lauria G, Pareyson D, Sghirlanzoni A. Sensory ganglionopathies: causes and neuroradiological findings. *N Engl J Med* 2002;346:1029-1030.
77. Lauria G, Sghirlanzoni A, Lombardi R, Pareyson D. Epidermal innervation in sensory ganglionopathies – Clinical and neurophysiological correlations. *Muscle Nerve* 2001;24:1034-1039.
78. Lauria G, Erbetta A, Pareyson D, Sghirlanzoni A. Parenchymatous neurosyphilis. *Neurol Sci* 2001;22:281-282.
79. Pareyson D, Lauria G, Sghirlanzoni A. La terapia con immunoglobuline (IVIg) nelle neuropatie disimmuni. *Neurol Sci* 2001;22:S431-S435.
80. Lauria G, Chiapparini L, Pareyson D, Sghirlanzoni A. Spinal cord lesion due to epidural anesthesia. *Neurol Sci* 2000;21:411-412.
81. Lauria G, Pareyson D, Grisoli M, Sghirlanzoni A. Clinical and MRI findings in chronic sensory ganglionopathies. *Ann Neurol* 2000;47:104-109.
82. Lauria G, Pareyson D, Sghirlanzoni A. Chronic cryptogenic sensory polyneuropathy. *Arch Neurol* 2000;57:759-760.
83. Pareyson D, Taroni F, Botti S, Morbin M, Baratta S, Lauria G, Ciano C, Sghirlanzoni A. Cranial nerve involvement in CMT disease type 1 due to early growth response gene mutation. *Neurology* 2000;54:1696-1698.
84. Sghirlanzoni A, Lauria G, Lombardi R, Pareyson D. Diagnostica differenziale delle ganglionopatie paraneoplastiche. *Neurol Sci* 2000;21:S273-S275.
85. Lauria G, Holland N, Hauer PE, Cornblath DR, Griffin JW, McArthur JC. Epidermal innervation: changes with aging, topographic location, and sensory neuropathy. *J Neurol Sci* 1999;164:172-178.
86. Lauria G. Innervation of the human epidermis. A historical review. *Ital J Neurol Sci* 1999;20:63-70.
87. Casetta I, Granieri E, Gilli G, Lauria G, Tola MR, Paolino E. Temporal trend and factors associated with delayed hospital admission of stroke patients. *Neuroepidemiology* 1999;18:255-264
88. Lauria G, McArthur JC, Hauer PE, Griffin JW, Cornblath DR. Neuropathological alterations in diabetic truncal neuropathy: evaluation by skin biopsy. *J Neurol Neurosurg Psychiatry* 1998;65:762-766.
89. Flanigan KM, Lauria G, Griffin JW, Kuncel RW. Age related biology and diseases of muscle and nerves. *Neurologic Clinics* 1998:659-669.
90. Lauria G, Gentile M, Fassetta G, et al. Transient global amnesia and transient ischemic attack: a community-based case-control study. *Acta Neurol Scand* 1998;97:381-385.
91. Casetta I, Granieri E, Marchi D, Murgia SB, Tola MR, Ticca A, Lauria G, Govoni V, Murgia B, Pugliatti M. An epidemiologic study of multiple sclerosis in central Sardinia, Italy. *Acta Neurol Scand* 1998;98:391-394.
92. Lauria G, Gentile M, Fassetta G, et al. Incidence of transient global amnesia in the Belluno province, Italy: 1985 through 1995. Results of a community-based study. *Acta Neurol Scand* 1997;95:303-310.
93. Barrella M, Lauria G, Quatralo R, Paolino E. Hypokaliemic rhabdomyolysis associated with liquorice ingestion: report of an atypical case. *Ital J Neurol Sci* 1997;18:217-220.
94. Lauria G, Gentile M, Fassetta G, et al. Incidence of transient ischemic attacks in the Belluno province, Italy. First-year results of a community-based study. *Acta Neurol Scand* 1996;93:291-296.
95. Granieri E, Tamburin S, Lauria G, et al. Attualità sulla malattia di Creutzfeldt-Jakob e sindromi correlate. Sorveglianza epidemiologica nell'Italia settentrionale e in Sardegna. *L'Arcispedale S. Anna* 1996;46:151-199.
96. Lauria G, Gentile M, Fassetta G, et al. Incidence and prognosis of stroke in the Belluno province, Italy. First-year results of a community-based study. *Stroke* 1995;26:1787-1793.
97. Zanchin G, De Boni A, Lauria G, Maggioni F, Rossi P, Villacara A. Synaptosomal glutamate uptake in a model of experimental cerebral ischemia. *Neurochem Research* 1995;20:195-199.
98. Gentile M, Lauria G. Cephalic tetanus presenting with incomplete Bell's palsy. *Ital J Neurol Sci* 1994;15:111-113
99. Villacara A, Lauria G, Maggioni F, et al. Alterazioni neurotrasmettitoriali in corso di ischemia cerebrale sperimentale. In: *Neuroranimazione e Neuroprotezione in Rianimazione e Terapia Intensiva - Attualità e prospettive*. San Marco, ed., Padova, 1994;27-32.
100. Gentile M, Lauria G, Perelli P, Martinelli F. La diaschisi cerebellare crociata: diagnosi differenziale fra TIA e stroke mediante HM-PAO SPECT. *Neurologia Ospedaliera Italiana* 1994;3:69-74.
101. Villacara A, Garbin L, Lauria G, Zanchin G, Galzigna L. Substrate-stimulated oxygen consumption by isolated rat brain microvessels in the presence and absence of ATP. *Neurochem Research* 1993;18:1113-1116.

#### **Book chapters**

1. Malattie neurologiche degli organi di senso. G. Lauria, P. Penza. In: *Manuale di Neurologia*. GianCamillo Manzoni & Paola Torelli (eds). Esculapio, Bologna, 2011
2. Lauria G, Hsieh ST, Johansson O, Kennedy WR, Leger JM, Mellgren SI, Nolano M, Merkies ISJ, Polydefkis M, Smith AG, Sommer C, Valls-Solé J. European Federation of Neurological Societies/Peripheral Nerve Society Guideline on the Use of Skin Biopsy in the Diagnosis of Small Fibre Neuropathy. *Handbook of Clinical Neurology*, PJ Vinken & GW Bruyn (eds), 2010
3. Sommer C., Lauria G. Painful small fiber sensory neuropathies. In: *Handbook of Clinical Neurology*, PJ Vinken & GW Bruyn (eds), 2005
4. Lauria G. La gestione della cervicobrachialgia. In: *Neuropatie periferiche: casi clinici*. SEEd srl, Torino, Giugno 2007
5. Lauria G, Nolano M. La biopsia cutanea nella pratica clinica. In: *Trattato di Neuropatologia*. G.L. Mancardi, F. Tagliavini, G. Vita (eds), Elsevier: Amstredam, New York, 2005

6. Sghirlanzoni A, Lauria G, Pareyson D. Malattie del sistema nervoso periferico. In: *Terapia delle malattie neurologiche con principi di diagnosi*. A. Sghirlanzoni, G. Lauria, D. Pareyson, N. Nardocci (eds). Edi-Ermes: Milano, 2004
7. Lauria G. Spasticità. In: *Terapia delle malattie neurologiche con principi di diagnosi*. A. Sghirlanzoni, G. Lauria, D. Pareyson, N. Nardocci (eds). Edi-Ermes: Milano, 2004
8. Sghirlanzoni A, Lauria G. Complicazioni della Chemioterapia. In *Le Complicazioni Neurologiche in Oncologia* Caraceni A, Sghirlanzoni A, Simonetti F (Eds). Springer, Milano, 2006
9. Sghirlanzoni A, Lauria G. Complicazioni della Radioterapia. In *Le Complicazioni Neurologiche in Oncologia* Caraceni A, Sghirlanzoni A, Simonetti F (Eds). Springer, Milano, 2006
10. Sghirlanzoni A, Lauria G. Principali Complicazioni Neurologiche della Chirurgia Oncologica. In *Le Complicazioni Neurologiche in Oncologia* Caraceni A, Sghirlanzoni A, Simonetti F (Eds). Springer, Milano, 2006

**Books**

1. *Terapia delle malattie neurologiche con principi di diagnosi*. A. Sghirlanzoni, G. Lauria, D. Pareyson, N. Nardocci (eds). Edi-Ermes: Milano, 2004
2. Sghirlanzoni, G. Lauria, D. Pareyson (eds). *Localizzazione delle lesioni nel Sistema Nervoso Periferico*. I&V Publisher, Milano, 2001.

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