

## **Dr. Eleonora Galosi**

### **Neurologist, MD, PhD Student**

*Current institution:* Sapienza University, Department of Human Neuroscience, Viale dell'Università 30, Rome (RM), 00185, Italy

#### **CURRENT POSITION**

**December 2019 - present. Sapienza University, Rome. PhD student in “Tecnologie innovative nelle malattie dello scheletro, della cute e del distretto oro-facciale” (Human Neuroscience curriculum).**

During my research career I have developed skills in the clinical and neurophysiological assessment of peripheral nervous system diseases and neuropathic pain conditions, by evaluating patients with painful polyneuropathies of diverse etiologies, including diabetic, auto immune, and hereditary neuropathies.

I have acquired a considerable experience in the evaluation of somato-sensory and nociceptive system through diverse neurophysiological tools, like nerve conduction study, quantitative sensory testing, somatosensory evoked potentials, and laser evoked potentials.

I have also acquired a long-standing expertise in the evaluation of intraepidermal and dermal innervation morphometry by skin biopsy in different neuropathic pain conditions. During the last 10 years I have developed robust skills in skin samples immunohistochemical processing and morphometric analysis by traditional and new emerging sensory nerve biomarkers.

**April 2020 - present. Policlinico Casilino. Neurologist consultant.**

Neurological consultations.

Execution and reporting of neurophysiological diagnostic tests, i.e., nerve conduction studies, electromyography, electroencephalography (120 tests/month).

#### **PREVIOUS POSITIONS**

**2015-2021. Neurology teacher for Italian Academy of Resident Physicians (AIMS) (20 hours/month).**

**2017-2019. Substitutions of Emergency Medical Service Consultants (3 months/year).**

#### **EDUCATION AND TRAINING**

**2014-2019. “La Sapienza, University of Rome”. Residency School in Neurology.**

10th of December 2019. Final grade: 70 cum laude. Thesis: “Intraepidermal innervation and neuropathic pain. Learnings from comparison between diabetic neuropathy and transthyretin familial amyloid polyneuropathy”. Rel: Prof. Andrea Truini

**2017. “Neuropathic Pain Center and Skin biopsy Lab of Aarhus University (Denmark)”. Internship.**

**2007-2013. “La Sapienza, University of Rome”. Medical School.**

27th of July 2013. Final grade: 110 cum laude. Thesis master's degree: "Breaking dogmas. Paroxysmal pain is mediated by non-nociceptive myelinated fibers". Rel: Prof. Giorgio Cruccu

**2009-2010. "Universitat de Barcelona, Hospital Clinic, Internal Medicine Department." Erasmus Project.**

**Participation at courses:**

- April 2019: Monographic course on electromyography and evoked potentials. Sorrento, Italy.
- March 2017: Danish Diabetes Academy Winter School.
- November 2015: Monographic course on small-fibre neuropathies. Telesse Terme, BN, Italy.

**RESEARCH ACTIVITY**

**Awards:**

**EGG 2018.** I've been awarded by the European Pain Federation (EFIC) with the Efic-Grünenthal-Grant 2018, with a project entitled "Disclosing pain mechanisms in diabetic neuropathy. A clinical and skin biopsy study with new emerging sensory biomarkers".

**Positions:**

**2021-present. Member of the Italian Study Group on Diabetic Neuropathy of the Italian Society of Diabetes.**

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**Citations: 249**

**Publications:**

1: Di Stefano G, Falco P, Galosi E, Di Pietro G, Leone C, Truini A. A systematic review and metanalysis of neuropathic pain associated with coronavirus disease 2019. *Eur J Pain.* 2022 Nov 11. doi: 10.1002/ejp.2055. Epub ahead of print. PMID: 36367322.

2: Leone C, Galosi E, Esposito N, Falco P, Fasolino A, Di Pietro G, Di Stefano G, Camerota F, Vollert J, Truini A. Small-fibre damage is associated with distinct sensory phenotypes in patients with fibromyalgia and small-fibre neuropathy. *Eur J Pain.* 2022 Oct 31. doi: 10.1002/ejp.2049. Epub ahead of print. PMID: 36314856.

3: Galosi E, Falco P, Di Pietro G, Leone C, Esposito N, De Stefano G, Di Stefano G, Truini A. The diagnostic accuracy of the small fiber neuropathy symptoms inventory questionnaire (SFN-SIQ) for identifying pure small fiber neuropathy. *J Peripher Nerv Syst.* 2022 Sep 29. doi: 10.1111/jns.12513. Epub ahead of print. PMID: 36175394.

4: Galosi E, Leonardi L, Falco P, Di Pietro G, Fasolino A, Esposito N, Leone C, Di Stefano G, Inghilleri M, Luigetti M, Giovanni A, Truini A. Functional and morphometric assessment of small-fibre damage in late-onset hereditary transthyretin amyloidosis with polyneuropathy: the controversial relation between small-fibre-related symptoms and diagnostic test findings. *Amyloid.* 2022 Sep 12:1-8. doi: 10.1080/13506129.2022.2120799. Epub ahead of print. PMID: 36094793.

5: De Stefano G, Leone C, Di Pietro G, Esposito N, Falco P, Galosi E, Litewczuk D, Mollica C, Truini A, Di Stefano G. Unravelling the role of unmyelinated nerve fibres in trigeminal neuralgia with concomitant continuous

pain. *Clin Neurophysiol.* 2022 Oct;142:52-58. doi: 10.1016/j.clinph.2022.07.502. Epub 2022 Aug 5. PMID: 35970059.

6: Galosi E, Truini A, Di Stefano G. A Systematic Review and Meta-Analysis of the Prevalence of Small Fibre Impairment in Patients with Fibromyalgia. *Diagnostics (Basel).* 2022 May 3;12(5):1135. doi: 10.3390/diagnostics12051135. PMID: 35626288; PMCID: PMC9139885.

7: Leonardi L, Di Pietro G, Di Pasquale A, Vanoli F, Fionda L, Garibaldi M, Galosi E, Alfieri G, Lauletta A, Morino S, Salvetti M, Truini A, Antonini G. High-resolution ultrasound of peripheral nerves in late-onset hereditary transthyretin amyloidosis with polyneuropathy: similarities and differences with CIDP. *Neurol Sci.* 2022 May;43(5):3387-3394. doi: 10.1007/s10072-021-05749-3. Epub 2021 Nov 21. PMID: 34802089.

8: Galosi E, Hu X, Michael N, Nyengaard JR, Truini A, Karlsson P. Redefining distal symmetrical polyneuropathy features in type 1 diabetes: a systematic review. *Acta Diabetol.* 2022 Jan;59(1):1-19. doi: 10.1007/s00592-021-01767-x. Epub 2021 Jul 2. PMID: 34213655; PMCID: PMC8758619.

9: Leonardi L, Galosi E, Vanoli F, Fasolino A, Di Pietro G, Luigetti M, Sabatelli M, Fionda L, Garibaldi M, Alfieri G, Lauletta A, Morino S, Salvetti M, Truini A, Antonini G. Skin biopsy and quantitative sensory assessment in an Italian cohort of ATTRv patients with polyneuropathy and asymptomatic carriers: possible evidence of early non-length dependent denervation. *Neurol Sci.* 2022 Feb;43(2):1359-1364. doi: 10.1007/s10072-021-05434-5. Epub 2021 Jun 29. PMID: 34189665.

10: Galosi E, Di Pietro G, La Cesa S, Di Stefano G, Leone C, Fasolino A, Di Lionardo A, Leonetti F, Buzzetti R, Mollica C, Cruccu G, Truini A. Differential involvement of myelinated and unmyelinated nerve fibers in painful diabetic polyneuropathy. *Muscle Nerve.* 2021 Jan;63(1):68-74. doi: 10.1002/mus.27080. Epub 2020 Oct 31. PMID: 32996600.

11: Fasolino A, Di Stefano G, Leone C, Galosi E, Gioia C, Lucchino B, Terracciano A, Di Franco M, Cruccu G, Truini A. Small-fibre pathology has no impact on somatosensory system function in patients with fibromyalgia. *Pain.* 2020 Oct;161(10):2385-2393. doi: 10.1097/j.pain.0000000000001920. PMID: 32897040.

12: Di Stefano G, Di Lionardo A, La Cesa S, Di Pietro G, Fasolino A, Galosi E, Leone C, Cruccu G, Marinelli L, Leandri M, Truini A. The new micropatterned interdigitated electrode for selective assessment of the nociceptive system. *Eur J Pain.* 2020 May;24(5):956-966. doi: 10.1002/ejp.1545. Epub 2020 Feb 27. PMID: 32064700.

13: Di Stefano G, Di Lionardo A, Galosi E, Truini A, Cruccu G. Acetyl-L-carnitine in painful peripheral neuropathy: a systematic review. *J Pain Res.* 2019 Apr 26;12:1341-1351. doi: 10.2147/JPR.S190231. PMID: 31118753; PMCID: PMC6498091.

14: Leone C, Dufour A, Di Stefano G, Fasolino A, Di Lionardo A, La Cesa S, Galosi E, Valeriani M, Nolano M, Cruccu G, Truini A. Cooling the skin for assessing small-fibre function. *Pain.* 2019 Sep;160(9):1967-1975. doi: 10.1097/j.pain.0000000000001584. PMID: 30985621.

15: Galosi E, La Cesa S, Di Stefano G, Karlsson P, Fasolino A, Leone C, Biasiotta A, Cruccu G, Truini A. A pain in the skin. Regenerating nerve sprouts are distinctly associated with ongoing burning pain in patients with diabetes. *Eur J Pain.* 2018 Nov;22(10):1727-1734. doi: 10.1002/ejp.1259. Epub 2018 Jul 9. PMID: 29885017.

16: La Cesa S, Di Stefano G, Leone C, Pepe A, Galosi E, Alu F, Fasolino A, Cruccu G, Valeriani M, Truini A. Skin denervation does not alter cortical potentials to surface concentric electrode stimulation: A comparison with laser evoked potentials and contact heat evoked potentials. *Eur J Pain.* 2018 Jan;22(1):161-169. doi: 10.1002/ejp.1112. Epub 2017 Sep 12. PMID: 28898491.

17: Di Stefano G, La Cesa S, Leone C, Pepe A, Galosi E, Fiorelli M, Valeriani M, Lacerenza M, Pergolini M, Biasiotta A, Cruccu G, Truini A. Diagnostic accuracy of laser-evoked potentials in diabetic neuropathy. *Pain*. 2017 Jun;158(6):1100-1107. doi: 10.1097/j.pain.0000000000000889. PMID: 28267059.

18: Truini A, Biasiotta A, Di Stefano G, Leone C, La Cesa S, Galosi E, Piroso S, Pepe A, Giordano C, Cruccu G. Does the epidermal nerve fibre density measured by skin biopsy in patients with peripheral neuropathies correlate with neuropathic pain? *Pain*. 2014 Apr;155(4):828-832. doi: 10.1016/j.pain.2014.01.022. Epub 2014 Jan 31. PMID: 24486884.

#### **Conference presentations as an invited speaker:**

- *September 2022: IASP (international Association for the Study of Pain) international Congress, Toronto.* Workshop presentation: "How to stain and analyze skin biopsy with traditional and unconventional biomarkers".
- *May 2022: Neurocardiology Network National Congress, Rome.* Oral presentation: "POTS, fatigue, and small-fibre neuropathy".
- *April 2022: European Pain federation (EFIC) international Congress, Dublin.* Workshop presentation: "Quantitative sensory testing and skin biopsy findings in patients with painful diabetic neuropathy".
- *March 2022: Podcast Presentation for the Italian Society of Neurology (SIN), available on Spotify and Youtube.* Podcast presentation: "Neuropod: Beyond pain in diabetic neuropathy".
- *November 2020: Advanced training course on "Redefining mechanical compressive neuropathies", University of Torino, Online event.* Oral presentation: "Small-fibre damage in compressive neuropathies".
- *September 2019: EFIC international Congress, Valencia.* Workshop presentation: "Light microscopy investigation of skin biopsies of healthy humans and patients suffering from painful neuropathies".

#### **Conference presentations:**

- *October 2019: SIN 2019 Annual Symposium, Bologna.* Oral presentation: "Intraepidermal innervation and neuropathic pain. Learnings from comparison between diabetic neuropathy and transthyretin familial amyloid polyneuropathy".
- *October 2017: SIN 2017 Annual Symposium, Naples.* Oral presentation: "A pain in the skin. Mechanisms of burning pain in diabetic neuropathy".
- *October 2016: SIN 2016 Annual Symposium, Venice.* Oral presentation: "Diagnostic accuracy of laser evoked potentials in diabetic neuropathy."
- *May 2016: Italian Association for Pain Study (AISD) Annual Symposium, Rome.* Oral presentation: "A practical guide to skin biopsy."

#### **LANGUAGES**

English: fluent, excellent working knowledge

Spanish: fluent, excellent working knowledge

Italian: native speaker

Rome, 16/11/22