

CURRICULUM VITAE

Andrea Truini, MD, PhD

Associate Professor at the University Sapienza, Rome



General Information

Full Name	Andrea Truini
Date of Birth	08/06/1974
Place of Birth	Rome
Citizenship	Italian
Permanent Address	Via Arno 10, 00198 Roma
Mobile Phone Number	+393316138310
E-mail	andrea.truini@uniroma1.it

Current Appointment: Associate Professor, neuromuscular disease unit and neuropathic pain outpatient service at the department of Neurology and Psychiatry, Policlinico Umberto I – Sapienza University, Rome

Education

Type	Year	Institution	Notes
University graduation	1999	University Sapienza, Rome	Degree cum laude in Medicine. Thesis: "Neurophysiological assessment of the nociceptive system"
Specialty	2004	University Sapienza, Rome	Specialty in Neurology cum laude. Thesis: "Clinical, Neurophysiological and neuropathological study of trigeminal neuropathy"
PhD	2008	University Sapienza, Rome	PhD in Neuroscience. Thesis: "Trigeminal function and dysfunction"

Appointments

Academic Appointments

Start	End	Institution	Position
2011	2015	Department of Neurology and Psychiatry, University Sapienza	Assistant Professor
2015	ongoing	Department of Neurology and Psychiatry, University Sapienza	Associate Professor
2014	ongoing	School of Medicine, University Sapienza	Member of the monitoring commission for teaching quality

Previous non-academic appointments

Start	End	Institution	Position
1999	2004	Hospital Policlinico Umberto I, Rome	Resident - Specialist clinical training
2004	2006	Israelite hospital, Rome	Consultant Neurologist
2006	2011	Hospital Policlinico Umberto I, Rome	Clinical fellow

Teaching experience

Start	End	Institution	Lecture/Course/Activity
2009-	ongoing	School of occupational therapy, University Sapienza, Rome	Anatomy and Physiology of the Nervous System
2011-	ongoing	School of Medicine, University Sapienza, Rome	Neurology
2013	ongoing	School for Clinical Neurophysiology Technicians	Tools for investigating the somatosensory system and patients with neuropathic pain
2011	ongoing	Post-graduation school in Neurology, University Sapienza, Rome	Anatomy and Physiology of the Somatosensory System
2011	ongoing	Resident, PhD Student and Postdoctoral fellow supervision	Currently three residents in neurology, two PhD students, and three postdoctoral fellows supervised

Society memberships, Awards and Honours, Funding

Year	Title
2003	Fellowship award from the International Federation of Clinical Neurophysiology (IFCN)
2005	Fellowship award from the International Federation of Clinical Neurophysiology (IFCN)

2008-2014	Chair of the Special Interest Group for Neuropathic Pain of the Italian Neurological Society
2009-2016	Faculty member/Invited speaker of the NeuPSIG (Athens 2009, Toronto 2012, Nice 2015) and IASP congresses (Buenos Aires 2014, Yokhoama 2016)
2008-2015	Obtained about 450.000 euros in clinical research funding
2014-2016	Councillor of the Italian Society of Clinical Neurophysiology
2014-ongoing	Councillor of the Italian Chapter of IASP
2014	Award from the Italian Neurological Society for the best Italian publication in 2013-2014 in Neuromuscular diseases (Reappraising neuropathic pain in humans--how symptoms help disclose mechanisms. Truini A, et al. Nat Rev Neurol. 2013;9:572-82)
2015	Award from the European Federation of IASP chapter (EFIC Grunenthal grant): "Breaking dogmas: a neurophysiological and neuroimaging study showing that non-nociceptive A-beta fibres mediate paroxysmal pain in healthy humans".
2016	Member of the scientific program committee of the 2017 NeuPSIG congress

Research Activities

Research fields

Brief Description

Pain pathways	Development of new tools for investigating the nociceptive system in humans. Our group developed the laser evoked potential technique and helped to establish the clinical usefulness of widely used techniques such as skin biopsy and quantitative sensory testing (QST)
Neuropathic pain	Pathophysiology of neuropathic pain in human patients, as assessed with diagnostic tools such as laser evoked potentials, skin biopsy, QST, neuroimaging techniques
Peripheral nervous system diseases	Investigation into the mechanisms underlying sensory symptoms and their treatment in the most representative peripheral nervous system diseases

Scientific collaborations and international society appointments

Year

Description

2002	Visiting scientist at the Sensory-Motor Integration Department at Aalborg University, Denmark (related publication: Truini et al., Experimental skin pain and muscle pain induce distinct changes in human trigeminal motoneuronal excitability. Exp Brain Res 2006).
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2002-ongoing	Scientific cooperation with Professor M Haanpaa (University of Helsinki) about scientific projects on postherpetic neuralgia. Related publications: Truini et al., Laser-evoked potentials in post-herpetic neuralgia. Clin Neurophysiol 2003; Haanpaa and Truini, Neuropathic facial pain. Suppl Clin Neurophysiol. 2006; Truini et al., Pathophysiology of pain in postherpetic neuralgia: a clinical and neurophysiological study. Pain 2008; Truini et al., Differential myelinated and unmyelinated sensory and autonomic skin nerve fiber involvement in patients with ophthalmic postherpetic neuralgia. Front Neuroanat 2016
2006-ongoing	Scientific cooperation with Professor L Garcia Larrea (Lyon University) about scientific projects investigating the excitability of the pain matrices and mechanisms underlying neuropathic pain. Related publications: Truini et al., Inhibition of cortical responses to Adelta inputs by a preceding C-related response: testing the "first come, first served" hypothesis of cortical laser evoked potentials. Pain 2007; Truini et al., Reappraising neuropathic pain in humans--how symptoms help disclose mechanisms. Nat Rev Neurol 2013
2010-ongoing	Design, leading and analysis of an epidemiological study on neuropathic pain involving 24 Italian Hospitals. This study enrolled about 3000 patients with the most common neuropathic pain conditions. Data analysis not completed. Related publications: Paolucci et al., Prevalence and time course of post-stroke pains: a multicentre prospective hospital-based study. Pain Med 2015; Solaro et al., Depression correlates with disability and disease course in multiple sclerosis patients. PLoS One (submitted); Solaro et al., Prevalence of pain in patients with multiple sclerosis. Multiple Sclerosis (submitted); Ciaramitaro et al., Prevalence of neuropathic pain in patients with traumatic brachial plexus injury: a multicenter prospective hospital-based study. Pain Med (submitted).
2014-2016	Member of the Task force of the European Academy of Neurology for the guidelines on central neurostimulation techniques for chronic pain

Journals' Editorial Board and reviewer activity

Year	Description
2012-ongoing	Visiting Editor Journal Headache and Pain
2014-ongoing	Editorial Board Behavioural Neurology
2008-ongoing	Regular reviewer activity for the following journals: Pain, European Journal of Pain, PLoS One, Neurology, Lancet Neurology, Neurological Science, Brain Stimulation, Clinical Neurophysiology, Journal of Pain, The Journal of Headache and Pain

Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	106	Pubmed	2000	2018
Total Citations (Scopus)	3086			
Hirsch (H) index (Scopus)	33			

Publications

Di Stefano G, Truini A, Cruccu G. Current and Innovative Pharmacological Options to Treat Typical and Atypical Trigeminal Neuralgia. *Drugs*. 2018 Sep;78(14):1433-1442.

Truini A, Spallone V, Morganti R, Tamburin S, Zanette G, Schenone A, De Michelis C, Tugnoli V, Simioni V, Manganelli F, Dubbioso R, Lauria G, Lombardi R, Jann S, De Toni Franceschini L, Tesfaye S, Fiorelli M, Spagnoli A, Cruccu G. A cross-sectional study investigating frequency and features of definitely diagnosed diabetic painful polyneuropathy. *Pain*. 2018 Aug 29.

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.

La Cesa S, Sammartino P, Mollica C, Casciulli G, Cruccu G, Truini A, Framarino-Dei-Malatesta M. A longitudinal study of painless and painful intercostobrachial neuropathy after breast cancer surgery. *Neurol Sci*. 2018 Jul;39(7):1245-1251.

Solaro C, Cella M, Signori A, Martinelli V, Radaelli M, Centonze D, Sica F, Grasso MG, Clemenzi A, Bonavita S, Esposito S, Patti F, D'Amico E, Cruccu G, Truini A; Neuropathic Pain Special Interest Group of the Italian Neurological Society. Identifying neuropathic pain in patients with multiple sclerosis: a cross-sectional multicenter study using highly specific criteria. *J Neurol*. 2018 Apr;265(4):828-835

Cruccu G, Di Stefano G, Fattaposta F, Jann S, Padua L, Schenone A, Truini A. L-Acetyl-carnitine in Patients with Carpal Tunnel Syndrome: Effects on Nerve Protection, Hand Function and Pain. *CNS Drugs*. 2017;31(12):1103-1111.

Cruccu G, Truini A; Neuropathic Pain Special Interest Group of the Italian Society of Neurology (Italian NeuPSIG). Neuropathic Pain: ThScope of the Problem. *Pain Ther*. 2017 Dec;6(Suppl 1):1-3.

Truini A. A Review of Neuropathic Pain: From Diagnostic Tests to Mechanisms. *Pain Ther*. 2017 Dec;6(Suppl 1):5-9. doi: 10.1007/s40122-017-0085-2.

Cruccu G, Truini A. A review of Neuropathic Pain: From Guidelines to Clinical Practice. *Pain Ther*. 2017 Dec;6(Suppl 1):35-42.

Di Stefano G, Tinelli E, Truini A. An Unusual Case of Simultaneous Bilateral Trigeminal Neuralgia Due to Multiple Sclerosis. *J Oral Facial Pain Headache*. 2017 Fall;31(4):e4-e6.

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.

Di Stefano G, Truini A. Pharmacological treatment of trigeminal neuralgia. *Expert Rev Neurother*. 2017 Oct;17(10):1003-1011.

Di Stefano G, Maarbjerg S, Nurmikko T, Truini A, Cruccu G. Triggering trigeminal neuralgia. *Cephalalgia*. 2018 May;38(6):1049-1056.

Suppa A, Leone C, Di Stasio F, Marsili L, Di Santo A, Biasiotta A, La Cesa S, Truini A, Cruccu G, Berardelli A. Pain-motor integration in the primary motor cortex in Parkinson's disease. *Brain Stimul*. 2017 Jul - Aug;10(4):806-816.

Di Stefano G, Limbucci N, Cruccu G, Renieri L, Truini A, Mangiafico S. Trigeminal Neuralgia Completely Relieved After Stent-Assisted Coiling of a Superior Cerebellar Artery Aneurysm. *World Neurosurg.* 2017 May;101:812.e5-812.e9.

Ciaramitaro P, Padua L, Devigili G, Rota E, Tamburin S, Eleopra R, Cruccu G, Truini A; Neuropathic pain special interest group of the Italian Neurological Society. Prevalence of Neuropathic Pain in Patients with Traumatic Brachial Plexus Injury: A Multicenter Prospective Hospital-Based Study. *Pain Med.* 2017 Dec 1;18(12):2428-2432.

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.

Colloca L, Ludman T, Bouhassira D, Baron R, Dickenson AH, Yarnitsky D, Freeman R, Truini A, Attal N, Finnerup NB, Eccleston C, Kalso E, Bennett DL, Dworkin RH, Raja SN. Neuropathic pain. *Nat Rev Dis Primers.* 2017 Feb 16;3:17002.

Solaro C, Trabucco E, Signori A, Martinelli V, Radaelli M, Centonze D, Rossi S, Grasso MG, Clemenzi A, Bonavita S, D'Ambrosio A, Patti F, D'Amico E, Cruccu G, Truini A. Depressive Symptoms Correlate with Disability and Disease Course in Multiple Sclerosis Patients: An Italian Multi-Center Study Using the Beck Depression Inventory. *PLoS One.* 2016 Sep 15;11(9):e0160261.

Minichino A, Delle Chiaie R, Cruccu G, Piroso S, Di Stefano G, Francesconi M, Bersani FS, Biondi M, Truini A. Pain-processing abnormalities in bipolar I disorder, bipolar II disorder, and schizophrenia: A novel trait marker for psychosis proneness and functional outcome? *Bipolar Disord.* 2016;18(7):591-601.

Porro CA, Sandrini G, Truini A, Tugnoli V, Alfonsi E, Berliocchi L, Cacciatori C, La Cesa S, Magrinelli F, Sacerdote P, Valeriani M, Tamburin S. Diagnosing and assessing pain in neurorehabilitation: from translational research to the clinical setting. Evidence and recommendations from the Italian Consensus Conference on Pain in Neurorehabilitation. *Eur J Phys Rehabil Med.* 2016;52(5):717-729.

Cruccu G, Garcia-Larrea L, Hansson P, Keindl M, Lefaucheur JP, Paulus W, Taylor R, Tronnier V, Truini A, Attal N. EAN guidelines on central neurostimulation therapy in chronic pain conditions. *Eur J Neurol.* 2016;23(10):1489-99.

Sandrini G, Tamburin S, Paolucci S, Boldrini P, Saraceni VM, Smania N; Italian Consensus Conference on Pain in Neurorehabilitation (ICCPN). Time for a Consensus Conference on pain in neurorehabilitation. *Eur J Phys Rehabil Med.* 2016;52(5):714-716.

Truini A, Prosperini L, Calistri V, Fiorelli M, Pozzilli C, Millefiorini E, Frontoni M, Cortese A, Caramia F, Cruccu G. A dual concurrent mechanism explains trigeminal neuralgia in patients with multiple sclerosis. *Neurology* 2016;86(22):2094-9.

Truini A, Tinelli E, Gerardi MC, Calistri V, Iannuccelli C, La Cesa S, Tarsitani L, Mainero C, Sarzi-Puttini P, Cruccu G, Caramia F, Di Franco M. Abnormal resting state functional connectivity of the periaqueductal grey in patients with fibromyalgia. *Clin Exp Rheumatol.* 2016;34(2 Suppl 96):129-33.

Leone C, Federico V, La Cesa S, Russo E, Di Stefano G, Finsinger P, Labriola R, Cruccu G, Petrucci MT, Truini A. An observational study assessing peripheral neuropathy related to multiple myeloma. *Neurol Sci.* 2016 Mar 9.

- Di Stefano G, Celletti C, Baron R, Castori M, Di Franco M, La Cesa S, Leone C, Pepe A, Cruccu G, Truini A, Camerota F. Central sensitization as the mechanism underlying pain in joint hypermobility syndrome/Ehlers-Danlos syndrome, hypermobility type. *Eur J Pain*. 2016 Feb 26.
- Paolucci S, Iosa M, Toni D, Barbanti P, Bovi P, Cavallini A, Candeloro E, Mancini A, Mancuso M, Monaco S, Pieroni A, Recchia S, Sessa M, Strambo D, Tinazzi M, Cruccu G, Truini A; Neuropathic pain special interest group of the Italian Neurological Society. Prevalence and Time Course of Post-Stroke Pain: A Multicenter Prospective Hospital-Based Study. *Pain Med*. 2016;17(5):924-30.
- Truini A, Cruccu G. How diagnostic tests help to disentangle the mechanisms underlying neuropathic pain symptoms in painful neuropathies. *Pain*. 2016;157 Suppl 1:S53-9.
- La Cesa S, Tamburin S, Tugnoli V, Sandrini G, Paolucci S, Lacerenza M, Marchettini P, Cruccu G, Truini A. How to diagnose neuropathic pain? The contribution from clinical examination, pain questionnaires and diagnostic tests. *Neurol Sci*. 2015;36(12):2169-75.
- Nolano M, Biasiotta A, Lombardi R, Provitera V, Stancanelli A, Caporaso G, Santoro L, Merkies IS, Truini A, Porretta-Serapiglia C, Cazzato D, Dacci P, Vitale DF, Lauria G. Epidermal innervation morphometry by immunofluorescence and bright-field microscopy. *J Peripher Nerv Syst*. 2015;20(4):387-91.
- Truini A, Haanpaa M, Provitera V, Biasiotta A, Stancanelli A, Caporaso G, Santoro L, Cruccu G, Nolano M. Differential myelinated and unmyelinated sensory and autonomic skin nerve fiber involvement in patients with ophthalmic postherpetic neuralgia. *Front Neuroanat*. 2015;9:105.
- Truini A, Piroso S, Pasquale E, Notartomaso S, Di Stefano G, Lattanzi R, Battaglia G, Nicoletti F, Cruccu G. N-acetyl-cysteine, a drug that enhances the endogenous activation of group-II metabotropic glutamate receptors, inhibits nociceptive transmission in humans. *Mol Pain*. 2015;11:14.
- Truini A, Colonnese C, Manfredi M. Glossopharyngeal nerve contrast enhancement in recent-onset glossopharyngeal neuralgia. *Neurology*. 2015;84(12):1283.
- Truini A, Gerardi MC, Di Stefano G, La Cesa S, Iannucelli C, Pepe A, Sarzi-Puttini P, Cruccu G, Di Franco M. Hyperexcitability in pain matrices in patients with fibromyalgia. *Clin Exp Rheumatol*. 2015;33(Suppl 88):S68-72.
- Truini A, Biasiotta A, Onesti E, Di Stefano G, Ceccanti M, La Cesa S, Pepe A, Giordano C, Cruccu G, Inghilleri M. Small-fibre neuropathy related to bulbar and spinal-onset in patients with ALS. *J Neurol*. 2015;262(4):1014-8.
- Truini A, Provitera V, Biasiotta A, Stancanelli A, Antonini G, Santoro L, Cruccu G, Nolano M. Differential trigeminal myelinated and unmyelinated nerve fiber involvement in FOSMN syndrome. *Neurology*. 2015;84(5):540-2.
- Cruccu G, Pennisi EM, Antonini G, Biasiotta A, Di Stefano G, La Cesa S, Leone C, Raffa S, Sommer C, Truini A. Trigeminal isolated sensory neuropathy (TISN) and FOSMN syndrome: despite a dissimilar disease course do they share common pathophysiological mechanisms? *BMC Neurol*. 2014;14:248.
- Ruoppolo G, Schettino I, Biasiotta A, Roma R, Greco A, Soldo P, Marcotullio D, Patella A, Onesti E, Ceccanti M, Albino F, Giordano C, Truini A, De Vincentiis M, Inghilleri M. Afferent nerve ending density in the human laryngeal mucosa: potential implications on endoscopic evaluation of laryngeal sensitivity. *Dysphagia*. 2015;30(2):139-44.

Di Stefano G, La Cesa S, Truini A, Cruccu G. Natural history and outcome of 200 outpatients with classical trigeminal neuralgia treated with carbamazepine or oxcarbazepine in a tertiary centre for neuropathic pain. *J Headache Pain*. 2014;15:34.

Antonini G, Di Pasquale A, Cruccu G, Truini A, Morino S, Saltelli G, Romano A, Trasimeni G, Vanacore N, Bozzao A. Magnetic resonance imaging contribution for diagnosing symptomatic neurovascular contact in classical trigeminal neuralgia: a blinded case-control study and meta-analysis. *Pain*. 2014;155(8):1464-71.

Truini A, Biasiotta A, Cruccu G. Response to letter to the Editor. *Pain*. 2014;155(6):1179-80.

Biasiotta A, Casato M, La Cesa S, Colantuono S, Di Stefano G, Leone C, Carlesimo M, Piroso S, Cruccu G, Truini A. Clinical, neurophysiological, and skin biopsy findings in peripheral neuropathy associated with hepatitis C virus-related cryoglobulinemia. *J Neurol*. 2014;261(4):725-31.

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;155(4):828-32.

La Cesa S, Tinelli E, Toschi N, Di Stefano G, Collorone S, Aceti A, Francia A, Cruccu G, Truini A, Caramia F. fMRI pain activation in the periaqueductal gray in healthy volunteers during the cold pressor test. *Magn Reson Imaging*. 2014;32(3):236-40.

Truini A, Garcia-Larrea L, Cruccu G. Reappraising neuropathic pain in humans--how symptoms help disclose mechanisms. *Nat Rev Neurol*. 2013;9(10):572-82.

Hadjikhani N, Ward N, Boshyan J, Napadow V, Maeda Y, Truini A, Caramia F, Tinelli E, Mainero C. The missing link: enhanced functional connectivity between amygdala and viscerosensitive cortex in migraine. *Cephalalgia*. 2013;33(15):1264-8.

Onesti E, Gabriele M, Cambieri C, Ceccanti M, Raccach R, Di Stefano G, Biasiotta A, Truini A, Zangen A, Inghilleri M. H-coil repetitive transcranial magnetic stimulation for pain relief in patients with diabetic neuropathy. *Eur J Pain*. 2013;17(9):1347-56.

Di Clemente L, Puledra F, Biasiotta A, Viganò A, Vicenzini E, Truini A, Cruccu G, Di Piero V. Topiramate modulates habituation in migraine: evidences from nociceptive responses elicited by laser evoked potentials. *J Headache Pain*. 2013;14:25.

Pacchiarotti A, Milazzo GN, Biasiotta A, Truini A, Antonini G, Frati P, Gentile V, Caserta D, Moscarini M. Pain in the upper anterior-lateral part of the thigh in women affected by endometriosis: study of sensitive neuropathy. *Fertil Steril*. 2013;100(1):122-6.

Cruccu G, Truini A. Refractory trigeminal neuralgia. Non-surgical treatment options. *CNS Drugs*. 2013;27(2):91-6.

Truini A, Frontoni M, Cruccu G. Parkinson's disease related pain: a review of recent findings. *J Neurol*. 2013;260(1):330-4.

Nolano M, Provitera V, Caporaso G, Stancanelli A, Leandri M, Biasiotta A, Cruccu G, Santoro L, Truini A. Cutaneous innervation of the human face as assessed by skin biopsy. *J Anat*. 2013;222(2):161-9.

Truini A, Biasiotta A, Di Stefano G, La Cesa S, Leone C, Cartoni C, Leonetti F, Casato M, Pergolini M, Petrucci MT, Cruccu G. Peripheral nociceptor sensitization mediates allodynia in patients with distal symmetric polyneuropathy. *J Neurol*. 2013;260(3):761-6.

Valeriani M, Pazzaglia C, Cruccu G, Truini A. Clinical usefulness of laser evoked potentials. *Neurophysiol Clin.* 2012;42(5):345-53

Truini A, Galeotti F, La Cesa S, Di Rezze S, Biasiotta A, Di Stefano G, Tinelli E, Millefiorini E, Gatti A, Cruccu G. Mechanisms of pain in multiple sclerosis: a combined clinical and neurophysiological study. *Pain.* 2012;153(10):2048-54.

Truini A, Barbanti P, Pozzilli C, Cruccu G. A mechanism-based classification of pain in multiple sclerosis. *J Neurol.* 2013 Feb;260(2):351-67.

Suppa A, Biasiotta A, Belvisi D, Marsili L, La Cesa S, Truini A, Cruccu G, Berardelli A. Heat-evoked experimental pain induces long-term potentiation-like plasticity in human primary motor cortex. *Cereb Cortex.* 2013;23(8):1942-51.

Cartoni C, Brunetti GA, Federico V, Efficace F, Grammatico S, Tendas A, Scaramucci L, Cupelli L, D'Elia GM, Truini A, Niscola P, Petrucci MT. Controlled-release oxycodone for the treatment of bortezomib-induced neuropathic pain in patients with multiple myeloma. *Support Care Cancer.* 2012;20(10):2621-6.

Di Stefano G, La Cesa S, Biasiotta A, Leone C, Pepe A, Cruccu G, Truini A. Laboratory tools for assessing neuropathic pain. *Neurol Sci.* 2012;33 Suppl 1:S5-7.

Falla M, Biasiotta A, Fabbrini G, Cruccu G, Truini A. Cutaneous innervation and trigeminal pathway function in a patient with facial pain associated with Parry-Romberg syndrome. *J Headache Pain.* 2012;13(6):497-9.

Padua L, Briani C, Truini A, Aprile I, Bouhassirà D, Cruccu G, Jann S, Nobile-Orazio E, Pazzaglia C, Morini A, Mondelli M, Ciaramitaro P, Cavaletti G, Cocito D, Fazio R, Santoro L, Galeotti F, Carpo M, Plasmati R, Benedetti L, Schenone A. Consistence and discrepancy of neuropathic pain screening tools DN4 and ID-Pain. *Neurol Sci.* 2013;34(3):373-7.

Russo A, Tessitore A, Esposito F, Marcuccio L, Giordano A, Conforti R, Truini A, Paccone A, d'Onofrio F, Tedeschi G. Pain processing in patients with migraine: an event-related fMRI study during trigeminal nociceptive stimulation. *J Neurol.* 2012;259(9):1903-12.

Truini A, Biasiotta A, Di Stefano G, La Cesa S, Leone C, Cartoni C, Federico V, Petrucci MT, Cruccu G. Palmitoylethanolamide restores myelinated-fibre function in patients with chemotherapy-induced painful neuropathy. *CNS Neurol Disord Drug Targets.* 2011;10(8):916-20.

Truini A, Galeotti F, Cruccu G. Treating pain in multiple sclerosis. *Expert Opin Pharmacother.* 2011;12(15):2355-68.

Biasiotta A, Cascone P, Cecchi R, Cruccu G, Iannetti G, Mariani A, Spota A, Truini A. Iatrogenic damage to the mandibular nerves as assessed by the masseter inhibitory reflex. *J Headache Pain.* 2011;12(4):485-8.

Truini A, Vergari M, Biasiotta A, La Cesa S, Gabriele M, Di Stefano G, Cambieri C, Cruccu G, Inghilleri M, Priori A. Transcutaneous spinal direct current stimulation inhibits nociceptive spinal pathway conduction and increases pain tolerance in humans. *Eur J Pain.* 2011;15(10):1023-7.

Truini A, Leone C, Di Stefano G, Biasiotta A, La Cesa S, Teofoli P, Padua L, Cruccu G. Topographical distribution of warmth, burning and itch sensations in healthy humans. *Neurosci Lett.* 2011;494(2):165-8.

- Truini A, Biasiotta A, La Cesa S, Di Stefano G, Galeotti F, Petrucci MT, Inghilleri M, Cartoni C, Pergolini M, Cruccu G. Mechanisms of pain in distal symmetric polyneuropathy: a combined clinical and neurophysiological study. *Pain*. 2010;150(3):516-21.
- Cruccu G, Truini A. Neuropathic pain and its assessment. *Surg Oncol*. 2010;19(3):149-54.
- Cruccu G, Truini A. Neurostimulation therapy (acupuncture-like) and long-term depression: a challenge for the clinical neurophysiologist. *Clin Neurophysiol*. 2009;120(12):2004-5.
- Cruccu G, Truini A. Sensory profiles: A new strategy for selecting patients in treatment trials for neuropathic pain. *Pain*. 2009;146(1-2):5-6.
- Truini A, Padua L, Biasiotta A, Caliandro P, Pazzaglia C, Galeotti F, Inghilleri M, Cruccu G. Differential involvement of A-delta and A-beta fibres in neuropathic pain related to carpal tunnel syndrome. *Pain*. 2009;145(1-2):105-9.
- Truini A, Panuccio G, Galeotti F, Maluccio MR, Sartucci F, Avoli M, Cruccu G. Laser-evoked potentials as a tool for assessing the efficacy of antinociceptive drugs. *Eur J Pain*. 2010;14(2):222-5.
- Cruccu G, Biasiotta A, Di Rezze S, Fiorelli M, Galeotti F, Innocenti P, Mameli S, Millefiorini E, Truini A. Trigeminal neuralgia and pain related to multiple sclerosis. *Pain*. 2009;143(3):186-91.
- Valeriani M, Truini A, Le Pera D, Insola A, Galeotti F, Petrachi C, Mazzone P, Cruccu G. Laser evoked potential recording from intracerebral deep electrodes. *Clin Neurophysiol*. 2009;120(4):790-5.
- Cruccu G, Truini A. Tools for assessing neuropathic pain. *PLoS Med*. 2009;6(4):e1000045.
- Truini A, Galeotti F, Biasiotta A, Gabriele M, Inghilleri M, Petrucci MT, Cruccu G. Dissociation between cutaneous silent period and laser evoked potentials in assessing neuropathic pain. *Muscle Nerve*. 2009;39(3):369-73.
- Truini A, Galeotti F, Haanpaa M, Zucchi R, Albanesi A, Biasiotta A, Gatti A, Cruccu G. Pathophysiology of pain in postherpetic neuralgia: a clinical and neurophysiological study. *Pain*. 2008;140(3):405-10.
- Cruccu G, Iannetti GD, Truini A. Chapter 28 Brainstem reflexes and their relevance to pain. *Handb Clin Neurol*. 2006;81:411-IX.
- Truini A, Cruccu G. Laser evoked potentials in patients with trigeminal disease: the absence of Adelta potentials does not unmask C-fibre potentials. *Clin Neurophysiol*. 2008;119(8):1905-8.
- Marx JJ, Iannetti GD, Thömke F, Fitzek S, Galeotti F, Truini A, Stoeter P, Dieterich M, Hopf HC, Cruccu G. Topodiagnostic implications of hemiataxia: an MRI-based brainstem mapping analysis. *Neuroimage*. 2008;39(4):1625-32.
- Truini A, Galeotti F, Cruccu G, Garcia-Larrea L. Inhibition of cortical responses to Adelta inputs by a preceding C-related response: testing the "first come, first served" hypothesis of cortical laser evoked potentials. *Pain*. 2007;131(3):341-7.
- Curra A, Pierelli F, Coppola G, Barbanti P, Buzzi MG, Galeotti F, Serrao M, Truini A, Casali C, Pauri F, Cruccu G. Shortened cortical silent period in facial muscles of patients with migraine. *Pain*. 2007;132(1-2):124-31.

- Leandri M, Saturno M, Spadavecchia L, Iannetti GD, Cruccu G, Truini A. Measurement of skin temperature after infrared laser stimulation. *Neurophysiol Clin.* 2006;36(4):207-18.
- Truini A, Galeotti F, Pennisi E, Casa F, Biasiotta A, Cruccu G. Trigeminal small-fibre function assessed with contact heat evoked potentials in humans. *Pain.* 2007;132(1-2):102-7.
- Truini A, Barbanti P, Galeotti F, Leandri M, Cruccu G. Trigeminal sensory pathway function in patients with SUNCT. *Clin Neurophysiol.* 2006;117(8):1821-5.
- Truini A, Romaniello A, Svensson P, Galeotti F, Graven-Nielsen T, Wang K, Cruccu G, Arendt-Nielsen L. Experimental skin pain and muscle pain induce distinct changes in human trigeminal motoneuronal excitability. *Exp Brain Res.* 2006;174(4):622-9.
- Truini A, Cruccu G. Pathophysiological mechanisms of neuropathic pain. *Neurol Sci.* 2006;27 Suppl 2:S179-82.
- Cruccu G, Biasiotta A, Galeotti F, Iannetti GD, Innocenti P, Romaniello A, Truini A. Diagnosis of trigeminal neuralgia: a new appraisal based on clinical and neurophysiological findings. *Suppl Clin Neurophysiol.* 2006;58:171-86.
- Galeotti F, Truini A, Cruccu G. Neurophysiological assessment of craniofacial pain. *J Headache Pain.* 2006;7(2):61-9.
- Haanpää M, Truini A. Neuropathic facial pain. *Suppl Clin Neurophysiol.* 2006;58:153-70.
- Cruccu G, Biasiotta A, Galeotti F, Iannetti GD, Truini A, Gronseth G. Diagnostic accuracy of trigeminal reflex testing in trigeminal neuralgia. *Neurology.* 2006;66(1):139-41.
- Truini A, Galeotti F, Cruccu G. New insight into trigeminal neuralgia. *J Headache Pain.* 2005;6(4):237-9.
- Galeotti F, Truini A, Iannetti GD, Romaniello A, Biasiotta A, Mascia A, Virtuoso M, Cruccu G. Laser evoked potentials and carbamazepine in epileptic patients. *Neurophysiol Clin.* 2005;35(2-3):93-6.
- Truini A, Galeotti F, Romaniello A, Virtuoso M, Iannetti GD, Cruccu G. Laser-evoked potentials: normative values. *Clin Neurophysiol.* 2005;116(4):821-6.
- Cruccu G, Iannetti GD, Marx JJ, Thoemke F, Truini A, Fitzek S, Galeotti F, Urban PP, Romaniello A, Stoeter P, Manfredi M, Hopf HC. Brainstem reflex circuits revisited. *Brain.* 2005;128(Pt 2):386-94.
- Iannetti GD, Leandri M, Truini A, Zambreanu L, Cruccu G, Tracey I. Delta nociceptor response to laser stimuli: selective effect of stimulus duration on skin temperature, brain potentials and pain perception. *Clin Neurophysiol.* 2004;115(11):2629-37.
- Truini A, Barbanti P. Impairment of trigeminal sensory pathways in cluster headache. *Cephalalgia.* 2004;24(10):910.
- Romaniello A, Truini A, Galeotti F, De Lena C, Willer JC, Cruccu G. Cutaneous silent period in hand muscle is evoked by laser stimulation of the palm, but not the hand dorsum. *Muscle Nerve.* 2004;29(6):870-2.
- Truini A, Romaniello A, Galeotti F, Iannetti GD, Cruccu G. Laser evoked potentials for assessing sensory neuropathy in human patients. *Neurosci Lett.* 2004;361(1-3):25-8.

- Truini A, Rossi P, Galeotti F, Romaniello A, Virtuoso M, De Lena C, Leandri M, Cruccu G. Excitability of the Adelta nociceptive pathways as assessed by the recovery cycle of laser evoked potentials in humans. *Exp Brain Res.* 2004;155(1):120-3.
- Romaniello A, Iannetti GD, Truini A, Cruccu G. Trigeminal responses to laser stimuli. *Neurophysiol Clin.* 2003;33(6):315-24.
- Valeriani M, de Tommaso M, Restuccia D, Le Pera D, Guido M, Iannetti GD, Libro G, Truini A, Di Trapani G, Puca F, Tonali P, Cruccu G. Reduced habituation to experimental pain in migraine patients: a CO(2) laser evoked potential study. *Pain.* 2003;105(1-2):57-64.
- Truini A, Cruccu G, Garcia-Larrea L. Painful sensory neuropathy. *N Engl J Med.* 2003;349(3):306-7; author reply 306-7.
- Cruccu G, Pennisi E, Truini A, Iannetti GD, Romaniello A, Le Pera D, De Armas L, Leandri M, Manfredi M, Valeriani M. Unmyelinated trigeminal pathways as assessed by laser stimuli in humans. *Brain.* 2003;126(Pt 10):2246-56.
- Truini A, Haanpää M, Zucchi R, Galeotti F, Iannetti GD, Romaniello A, Cruccu G. Laser-evoked potentials in post-herpetic neuralgia. *Clin Neurophysiol.* 2003;114(4):702-9.
- Rossi P, Truini A, Serrao M, Iannetti GD, Parisi L, Pozzessere G, Cruccu G. Sympathetic skin response evoked by laser skin stimulation. *Funct Neurol.* 2002;17(3):129-32.
- Iannetti GD, Truini A, Romaniello A, Galeotti F, Rizzo C, Manfredi M, Cruccu G. Evidence of a specific spinal pathway for the sense of warmth in humans. *J Neurophysiol.* 2003;89(1):562-70.
- Romaniello A, Valls-Solé J, Iannetti GD, Truini A, Manfredi M, Cruccu G. Nociceptive quality of the laser-evoked blink reflex in humans. *J Neurophysiol.* 2002;87(3):1386-94.
- Iannetti GD, Truini A, Galeotti F, Romaniello A, Manfredi M, Cruccu G. Usefulness of dorsal laser evoked potentials in patients with spinal cord damage: report of two cases. *J Neurol Neurosurg Psychiatry.* 2001;71(6):792-4.
- Cruccu G, Galeotti F, Iannetti GD, Romaniello A, Truini A, Manfredi M. Trigeminal neuralgia: update on reflex and evoked potential studies. *Mov Disord.* 2002;17 Suppl 2:S37-40.
- Cruccu G, Leandri M, Iannetti GD, Mascia A, Romaniello A, Truini A, Galeotti F, Manfredi M. Small-fiber dysfunction in trigeminal neuralgia: carbamazepine effect on laser-evoked potentials. *Neurology.* 2001;56(12):1722-6.
- Cruccu G, Truini A, Priori A. Excitability of the human trigeminal motoneuronal pool and interactions with other brainstem reflex pathways. *J Physiol.* 2001;531(Pt 2):559-71.
- Agostino R, Cruccu G, Iannetti GD, Innocenti P, Romaniello A, Truini A, Manfredi M. Trigeminal small-fibre dysfunction in patients with diabetes mellitus: a study with laser evoked potentials and corneal reflex. *Clin Neurophysiol.* 2000;111(12):2264-7.
- Cruccu G, Iannetti GD, Agostino R, Romaniello A, Truini A, Manfredi M. Conduction velocity of the human spinothalamic tract as assessed by laser evoked potentials. *Neuroreport.* 2000;11(13):3029-32.
- Agostino R, Cruccu G, Iannetti G, Romaniello A, Truini A, Manfredi M. Topographical distribution of pinprick and warmth thresholds to CO2 laser stimulation on the human skin. *Neurosci Lett.* 2000;285(2):115-8.

