

CURRICULUM VITAE - LARS ARENDT-NIELSEN

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Professional Background

1987	Ph.D. in Biomedical Sciences, Aalborg University
1994	Dr.Sci. Medicine, Medical Faculty, Aarhus University

Employments/Appointments

1983-1984	Research associate, The National Hospital for Nervous Diseases, London
1984	Founder and director, Bio-medical Consult ApS
1987-1993	Assistant and associate professor, Aalborg University
1992-1996	Board member, The International Society for Electrophysiological Kinesiology
1993-	Professor in Biomedical Sciences, Aalborg University
1993-	Head and principal investigator, SMI
1998-1999	Guest professor, The National Institute for Physiological Sciences, Okasaki, Japan
1997	President "Year of the Brain" for the campaign "The invisible pain"
1997-2007	Founder and chairman of the board, The International Doctoral School for Biomedical Sciences and Engineering, Aalborg University
1999-2008	Chairman of the board, The Doctoral School in Technology and Science, Aalborg University
2000-2005	Board member, The Danish Research Council and The Research Education Council
2000-2004	Founder and board member, NoxiTest AG
2001-2008	Board member, Department of Health Science and Technology, Aalborg University
2002	Fellow, The International Federation for Medical & Biological Engineering (IFMBE)
2004-2008	Board member, Aalborg University
2006-2008	Board member, EPOKA Medic Mission A/S
2006	Honorary professor, Jiaotong University, Medical School, Xi'an, China
2007	Honorary professor, University of Bern, Medical School, Switzerland
2007	Knighted by the Danish Queen (Ridder af Dannebrog)
2008	Visiting professor, University of Boston, Medical School, Boston, USA
2005-2011	Council member The International Association for the Study of Pain (IASP)
2009-2012	Chairman of the board, IASP Grant Committee
2009-	Board member, IASP Press
2009-	Founder and board member, C4Pain, Director R&D
2010	President, Global Year Against Pain
2010	Board member, The International Veterinary Academy of Pain Management
2010-	Chairman of the board, EIR, Research and Business Park within Health Science and Technology, North Denmark
2010-2012	Guest professor, Linköping University, Sweden
2012-2015	Board member, Aalborg University
2013-	Founder and board member, NociTech A/S
2016	President, IASP Global Year Against Joint Pain
2016-	Editor-in-Chief, IASP Press
2016-2018	President-Elect, IASP
2018-2020	President, IASP

2020-2022	Immediate Past President, IASP
2020-	Appointed by the British Medical Research Council as Committee member
2022-	Affiliate Professor, Anaesthesia and Pain Medicine, University of Seattle, USA

Publications

He has published 1,422 peer reviewed journal papers (sum of times cited 55,033, average citations per item 38.7, H-index 111, Web of Science) in the area of pain neurobiology, pain assessment, pain management, musculoskeletal and visceral pain, motor control, bio-markers, itch, profiling of analgesic, and anti-inflammatory compounds. Edited six books and been guest editor for two international journals.

Lectures

Has given more than 485 invited lectures/keynote lectures at international conferences, symposia and meetings.

Ph.D. Education

Has supervised and completed more than 70 Ph.D. students over the last 30 years.

Scientific Commitments

Editorial board member of five international journals and regular reviewer for 19 international journals. Hosted two major international conferences and 11 smaller conferences.

Honours

Received more than 20 national and international honors and awards. Received in 2014 the "Pasteur Prize" for best managed public-private research project in Denmark, The Fibromyalgia Research Award and the Director Ib Henriksen Foundation Research Award. Received in 2015 "Dansk Magisterforenings Forskerpris 2015" (The Research Award of the Danish Association of Masters and PhDs), "The Bagger-Sørensen Research Award 2015" and the honorary award of The Danish Association of Chronic Pain Patients (Foreningen af Kroniske Smertepatienter (FAKS)). Received in 2016 "The Queen Ingrid Research Award" and the "Leadership Award for Northern Denmark". Received in 2025 "The Rynd prize to leaders in Pain Medicine".

Management Experience

Has a long experience in leading national and international research projects and in managing large grants from e.g. The Danish National Research Foundation, Danish Research Council, European Union, NIH, industries, and private agencies. Has been co-responsible for approximately DKK 300m (EUR 35m) over the last 30 years.

Is heading a translational pain research unit, collaborating with institutions in 15 different countries, and approximately 50% of the staff are international researchers. Currently PI at the Center for Neuroplasticity and Pain CNAP.

Co-founder of The Doctoral School in Medicine, Biomedical Science and Technology in 1997 which was also appointed as a Marie Curie Ph.D. Training Site by the EU-commission.

Collaborating with more than 20 international pharmaceutical companies within the area of profiling analgesics and anti-inflammatory compounds.

In 2010, established EIR (Empowering Industry and Research) a Research and Business Park within Health Science and Technology.

List of Publications (sorted by descending publication year and first author)

Aliotta, G. E., Tanaka, R., Batsberg, N. S., Duch-Svensson, S., Fernández, E. S., Hafiz, M. A., Holm, N. T., Ladegaard, K. H., Rajhmohan, M., Lo Vecchio, S., Elberling, J., & Arendt-Nielsen, L. (2025). Spatial and Temporal Summation on Histaminergic and Non-Histaminergic Itch. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 344-345)

Borbjerg, M. K., Wegeberg, A.-M., Nikontovic, A., Mørch, C. D., Arendt-Nielsen, L., Ejskjaer, N., Brock, C., Vestergaard, P., & Røikjer, J. (2025). Understanding the Impact of Diabetic Peripheral Neuropathy and Neuropathic Pain on Quality of Life and Mental Health in 6,960 People With Diabetes. *Diabetes care*, 48(4), 588-595. Article dc242287.
<https://doi.org/10.2337/dc24-2287>

Castaldo, M., Arendt-Nielsen, L., & Di Antonio, S. (2025). A clinical guide for physiotherapists to assess and manage cervical musculoskeletal impairment and pain sensitivity in migraine patients. *The Journal of Manual & Manipulative Therapy*, 1-18. Advance online publication. <https://doi.org/10.1080/10669817.2025.2502804>

Castaldo, M., Arendt-Nielsen, L., Ponzano, M., Bovis, F., Torelli, P., Finocchi, C., & Di Antonio, S. (2025). Cut-Off Values Able to Identify Migraine Patients With Increased Pressure-Pain Sensitivity Independent of the Migraine Cycle Through a Single Assessment: A Secondary Analysis of a Multicentre, Cross-Sectional, Observational Study. *European Journal of Pain*, 29(2), Article e4787. <https://doi.org/10.1002/ejp.4787>

Castaldo, M., Viganò, A., Giordano, R., Ebbesen, B. D., Guidotti, S., Fiduccia, A., Pruneti, C., DI Chiara, M., Caroccia, N., Giannella, M., Pillastrini, P., Ripamonti, A., Fernández DE Las Peñas, C., & Arendt-Nielsen, L. (2025). Persistent pain and associated risk factors in previously hospitalized COVID-19 survivors: data from an Italian cross-sectional study. *Minerva Anestesiologica*. Advance online publication. <https://doi.org/10.23736/S0375-9393.25.18694-X>

Castaldo, M., Di Antonio, S., & Arendt-Nielsen, L. (2025). Phenotyping Interictal Migraine Patients According to Clinical and Psychophysical Characteristics. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 206)

Danielsen, A. V., Andreasen, J. J., Dinesen, B., Hansen, J., Petersen, K. K., Duch, K. S., Simonsen, C., & Arendt-Nielsen, L. (2025). Pain-related impairment in daily activities after lung cancer surgery: A 1-year prospective cohort study. *European Journal of Pain*, 29(3), Article e4749. <https://doi.org/10.1002/ejp.4749>

Demetriou, L., Perro, D., Coxon, L., Krassowski, M., Lunde, C. E., Ferreira-Gomes, J., Charrua, A., Abreu-Mendes, P., Arendt-Nielsen, L., Aziz, Q., Birch, J., Garbutt, K., Horne, A., Hoffman, A., Hummelshøj, L., Meijlink, J., Obendorf, M., Pogatzki-Zahn, E., Sasamoto, N., ... TRIP Consortium (2025). Exploring the value of a well-established conditioned pain modulation paradigm in women: a Translational Research in Pelvic Pain (TRIP) study. *Frontiers in Pain Research*, 6, Article 1439563. <https://doi.org/10.3389/fpain.2025.1439563>

Di Antonio, S., Castaldo, M., & Arendt-Nielsen, L. (2025). Difference in Sensitization Mechanism Across Low-Frequency Episodic, High-Frequency Episodic, and Chronic Migraine. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 152)

Ebbesen, B. D., Hedegaard, J. N., Grøntved, S., Giordano, R., Fernández-de-Las-Peñas, C., & Arendt-Nielsen, L. (2025). Predictive Ability of Previous Pain and Disease Conditions on the Presentation of Post-COVID Pain in a Danish Cohort of Adult COVID-19 Survivors. *European Journal of Pain*, 29(5), Article e70021. <https://doi.org/10.1002/ejp.70021>

Fernández-de-Las-Peñas, C., Arendt-Nielsen, L., Gil-Crujera, A., Gómez-Sánchez, S. M., & Díaz-Gil, G. (2025). Are ACE2 rs2285666 and TMPRSS2 rs12329760 polymorphisms a risk factor for the development of Post-COVID-19 condition? *European Journal of Internal Medicine*. Advance online publication. <https://doi.org/10.1016/j.ejim.2025.06.030>

Fernández-de-Las-Peñas, C., Díaz-Gil, G., Gil-Crujera, A., Gómez-Sánchez, S. M., Ambite-Quesada, S., Torres-Macho, J., Ryan-Murua, P., Franco-Moreno, A. I., Pellicer-Valero, O. J., Arendt-Nielsen, L., & Giordano, R. (2025). DNA Salivary Methylation Levels of the ACE2 Promoter Are Not Related to ACE2 (rs2285666 and rs2074192), TMPRSS2 (rs12329760 and rs2070788) and ACE1 rs1799752 Polymorphisms in COVID-19 Survivors with Post-COVID-19 Condition. *International Journal of Molecular Sciences*, 26(5), Article 2100. <https://doi.org/10.3390/ijms26052100>

Fernández-de-Las-Peñas, C., Franco-Moreno, A., Ruiz-Ruigómez, M., Arrieta-Ortubay, E., Ryan-Murua, P., Lumbreras-Bermejo, C., Del-Valle-Loarte, P., Pellicer-Valero, O. J., Torres-Macho, J., Giordano, R., & Arendt-Nielsen, L. (2025). Intravenous Administration of Remdesivir at the Acute Phase of SARS-CoV-2 Infection Is Associated with a Lower Prevalence of Post-COVID-19 Pain. *Journal of Clinical Medicine*, 14(9), Article 3156. <https://doi.org/10.3390/jcm14093156>

Fernández-de-las-Peñas, C., Arendt-Nielsen, L., Gil-Crujera, A., Gómez-Sánchez, S. M., Ambite-Quesada, S., Palomar-Gallego, M. A., Pellicer-Valero, O. J., Giordano, R., & Díaz-Gil, G. (2025). ACE1 rs1799752 Polymorphism Is not Associated With the Presence of Post-COVID-19 Condition. *Journal of Medical Virology*, 97(6), Article e70438. <https://doi.org/10.1002/jmv.70438>

Fleagle, T., Ravyts, S., Staguhn, E., Aaron, R. V., Edwards, R., Arendt-Nielsen, L., Campbell, C., & Castillo, R. (2025). The Validity and Usefulness of a Modified Brief Pain Inventory for Individuals with Knee Osteoarthritis. *Journal of Pain*, 29 (Suppl.), 73. Article 105037. <https://doi.org/10.1016/j.jpain.2025.105037>

Gerra, M. C., Dallabona, C., Manfredini, M., Giordano, R., Capriotti, C., González-Villar, A., Triñanes, Y., Arendt-Nielsen, L., & Carrillo-de-la-Peña , M. T. (2025). Analysis of the VAL158MET Polymorphism (COMT Gene) in Fibromyalgia Patients Suggests Implications for Dopamine System Alterations. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 135-136)

Giannotta, A., Nascimento Couto, B. A., Lo Vecchio, S., Rossi, S., Arendt-Nielsen, L., de Andrade, D. C., Graven-Nielsen, T., & De Martino, E. (2025). Investigating Different Neural Responses During Experimental Acute Pain and Itch Using Transcranial Magnetic Stimulation Combined with Electroencephalography. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 341)

Giordano, R., Arendt-Nielsen, L., Hertel, E., Olesen, A. E., & Petersen, K. K.-S. (2025). Diablo Modeling for Efficacy of 3-Week Nonsteroidal Anti-Inflammatory Drugs and Paracetamol in Patients with Painful Knee Osteoarthritis. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 222)

Giordano, R., Arendt-Nielsen, L., Gerra, M. C., Kappel, A., Østergaard, S. E., Capriotti, C., Dallabona, C., & Petersen, K. K.-S. (2025). Pain mechanistic networks: the development using supervised multivariate data analysis and implications for chronic pain. *Pain*, 166(4), 847-857. Article 3410. <https://doi.org/10.1097/j.pain.0000000000003410>

Graversen, A. H., Bobo Larsen, A., Hertel, E., Arendt-Nielsen, L., & Petersen, K. K.-S. (2025). Impact of Sleep Disruption on Experimental Shoulder Pain and Quantitative Sensory Testing in Healthy Participants: A Novel Experimental Model. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 115-116)

Hertel, E., Martínez-Echevarría, D., Simonsen, M. B., Andersen, M. S., Arendt-Nielsen, L., & Petersen, K. K.-S. (2025). Characterization of Experimental Knee Pain in Healthy Subjects. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 343-344)

Kubota, G. T., Hviid, C. V. B., Olsen, D. A., Ebbesen, B. D., Giordano, R., Chaves Soares, F. H., Dos Santos Rosa, T., da Fonseca, A. S., Faria, V. G., Gouveia, G. R., Fernández-de-Las-Peñas, C., de Andrade, D. C., & Arendt-Nielsen, L. (2025). Serum Light Chain Neurofilament in New-Onset Post-COVID-19 Chronic Pain: A Controlled Cross-Sectional Study . In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 196)

Larsen, J. B., Skou, S. T., Laursen, M., Bruun, N. H., Madeleine, P., & Arendt-Nielsen, L. (2025). Effects of Exercise and Pain Neuroscience Education on Sensitization in Patients with Chronic Pain after Total Knee Arthroplasty. Secondary Analysis from Randomized Controlled Trial. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 81)

Larsen, J. B., Skou, S. T., Laursen, M., Bruun, N. H., Madeleine, P., & Arendt-Nielsen, L. (2025). Pain Mechanisms and Psychosocial Variables in Patients With Chronic Pain After Total Knee Arthroplasty: Secondary Analysis From a Randomised Controlled Trial. *European Journal of Pain*, 29(6), Article e70064. <https://doi.org/10.1002/ejp.70064>

Liao, S., Arendt-Nielsen, L., Wang, K., & Hirata, R. P. (2025). Effect of Experimental Pain and Visual Feedback on the Accuracy and Precision of Knee Joint Position Sense. *Pain Research & Management*, 2025(1), Article 9328803. <https://doi.org/10.1155/prm/9328803>

Oono, Y., Kono, R., Takagi, S., Nagasaka, H., Mieda, T., Arendt-Nielsen, L., & Kohase, H. (2025). Effects of Duloxetine Hydrochloride on Conditioned Pain Modulation, Temporal Summation of Pain, and Offset Analgesia in Healthy Volunteers . In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 339)

Perreault, T., Dommerholt, J., Fernandez-de-las-Peñas, C., Arendt-Nielsen, L., Cagnie, B., Di Antonio, S., & Castaldo, M. (2025). Expert Consensus on Dry Needling Practices for Headache: An International Delphi Study Protocol. *Journal of Clinical Medicine*, 14(5), Article 1740. <https://doi.org/10.3390/jcm14051740>

Petersen, K. KS., O'Neill, S., Blichfeldt-Eckhardt, M. R., Nim, C., Arendt-Nielsen, L., & Vægter, H. B. (2025). Pain profiles and variability in temporal summation of pain and conditioned pain modulation in pain-free individuals and patients with low back pain, osteoarthritis, and fibromyalgia. *European Journal of Pain*, 29(3), Article e4741. <https://doi.org/10.1002/ejp.4741>

Pradier, B., Segelcke, D., Arendt-Nielsen, L., Bannister, K., Bouhassira, D., Crombez, G., Diatchenko, L., Ehmke, L., Fullen, B. M., Kosek, E., Lavand'homme, P., Miro, J., Malliou, N., Petersen, K. K.-S., Jutila, L., Rohde, I., Price, T., Rice, A. S. C., Starowicz, K., ... Pogatzki-Zahn, E. (2025). Recommendations for Development, Implementation and Reporting of Translational Chronic Pain Trials: A Multidisciplinary, International Delphi-Consensus Process from the It-Pain Consortium. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 405-406)

Ravyts, S. G., Fleagle, T. R., Staguhn, E., Scharfstein, D., Aaron, R. V., Cohen, S. P., Hurley, R. W., Raja, S. N., Haythornthwaite, J., Allen, L., Edwards, R. R., Arendt-Nielsen, L., Campbell, C. M., & Castillo, R. (2025). Psychometric Properties of the Knee Osteoarthritis Pain Index. *Pain Medicine*. Advance online publication. <https://doi.org/10.1093/pain/pnaf067>

Tanaka, R., Hennings, K., Aliotta, G. E., Elberling, J., Arendt-Nielsen, L., & Lo Vecchio, S. (2025). Antipruritic and Anti-Inflammatory Effect of Topical Ketamine, Amitriptyline and their Combination on Histaminergic and Non-Histaminergic Itch . In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 314-315)

Winther, B., Graugaard, J. B., Grønlund Jespersen, H., Arendt-Nielsen, L., De Martino, E., & Lo Vecchio, S. (2025). Investigating Corticospinal Excitability in Response to Experimentally Induced Acute Pain and Itch. In *Abstract Book 14th Congress of The European Pain Federation EFIC : Comorbidity of Chronic Pain and Mental Health Disorders: Breaking the Cycle* (pp. 341)

Arendt-Nielsen, L., Thise Pedersen, J., Dreier, S., Nielsen, T. A., Høj, A. L., & Thomsen, L. (2024). The evolving landscape of publishing in the field of pain: An automated bibliometric analysis from 1975 to 2020. *European Journal of Pain*, 28(5), 729-740. <https://doi.org/10.1002/ejp.2213>

Bentin, J. M., Miller, C. P., Mondragon, A. C., Adrian, I. S., Arendt-Nielsen, L., Alexandersen, P., & Bihlet, A. R. (2024). Higher pain variation during the screening phase is associated with a larger placebo response – post-hoc analysis of a phase 2b knee osteoarthritis trial. *Osteoarthritis and Cartilage*, 32(Suppl. 1), Article 045. <https://doi.org/10.1016/j.joca.2024.02.056>

Bentin, J. M., Arendt-Nielsen, L., & Bihlet, A. R. (2024). Placeboeffekt i klinisk praksis. *Ugeskrift for Læger*, 186(34), Article V02240121. <https://doi.org/10.61409/V02240121>

Carrillo-de-la-Peña, M. T., Fernandes, C., Castro, C., PAINLESS Consortium, Rubal, L., Samartin-Veiga, N., Yarnitzsky, D., Arendt-Nielsen, L., Dahl, C., & Medeiros, R. (2024). Validity of central pain processing biomarkers for predicting the occurrence of oncological chronic pain: a study protocol. *BMC Cancer*, 24(1), Article 705. <https://doi.org/10.1186/s12885-024-12455-8>

Castaldo, M., Arendt-Nielsen, L., Torelli, P., Finocchi, C., & Di Antonio, S. (2024). Differences in clinical characteristics, musculoskeletal impairments, signs of sensitization, and psychological burden between migraine patients with and without neck pain. *Journal of Headache and Pain*, 25(Suppl. 1), Article P208.

Chiu, A. P.-T., Gowda, G. A. N., Zhu, W., Arendt-Nielsen, L., Raftery, D., & Curatolo, M. (2024). Cerebrospinal Fluid Metabolomics of Pain in Patients with Spinal Muscle Atrophy. *Pain Medicine*, Article pnae129. Advance online publication. <https://doi.org/10.1093/pain/pnae129>

Coxon, L., Lugt, C., Horne, A. W., Evans, E., Abreu-Mendes, P., Arendt-Nielsen, L., Aziz, Q., Becker, C. M., Birch, J., Charrua, A., Demetriou, L., Ferreira-Gomes, J., Hoffman, A., Hummelshøj, L., Krassowski, M., Lunde, C. E., Meijlink, J., Missmer, S. A., Perro, D., ... Vincent, K. (2024). Symptom flares in women with chronic pelvic pain: Questionnaire study within a cohort study (translational research in pelvic pain (TRIPP)). *BJOG: An International Journal of Obstetrics and Gynaecology*, 131(13), 1832-1840. <https://doi.org/10.1111/1471-0528.17915>

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Di Antonio, S., Arendt-Nielsen, L., Finocchi, C., Torelli, P., & Castaldo, M. (2024). Phenotyping migraine patients according to clinical and psychophysical characteristics: a cluster analysis approach (Part 1). *Journal of Headache and Pain*, 25(Suppl. 1), Article P205.

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