

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 Nervouse 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 Honary professor, Jiaotong University, Medical School, Xi'an, China
2007 Honary 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, Lindköping 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
2024-	Guest professor, University of Medicine and Pharmacy, Iai, Romania
2025-	Honorary fellow, Faculty of Pain Medicine, College of Anaesthesiologists of Ireland, 2025

Publications

He has published 1,455 peer reviewed journal papers (sum of times cited 57,661, average citations per item 39.63, H-index 113, 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)

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>

Arendt Nielsen, L., Schepman, P., Hygge Blakeman, K., Wilhelm, S., Robinson, R., Beck, C., Liseth Hansen, J., & Rolfson, O. (2023). Prescription patterns and predictors of unmet pain relief in patients with difficult-to-treat osteoarthritis in the Nordics: analyses from the BISCUIITS study. *Scandinavian Journal of Pain*, 23(1), 149-160. <https://doi.org/10.1515/sjpain-2021-0211>

Arendt-Nielsen, L., Giordano, R., Capriotti, C., Gerra, M. C., Dallabona, C., & Kjær Petersen, K. (2023). Biomarkers profiling in osteoarthritis patients with and without chronic postoperative pain 5 years after total knee replacement. *Annals of the Rheumatic Diseases*, 82(Suppl. 1), Article OP0149. <https://doi.org/10.1136/annrheumdis-2023-eular.3577>

Arendt-Nielsen, L., Ebbesen, B. D., Giordano, R., Valera-Calero, J. A., & Fernández-de-Las-Peñas, C. (2023). Rheumatological pain conditions are not risk factors for the development of widespread post-covid pain in covid-19 survivors. *Annals of the Rheumatic Diseases*, 82(Suppl. 1), Article AB1353. <https://doi.org/10.1136/annrheumdis-2023-eular.4034>

Arendt-Nielsen, L. (2022). *Fra smerteimpuls til smerteoplevelse*. Poster presented at Aalborg Tandlæge Selskab, Aalborg, Denmark.

Arendt-Nielsen, L. (2022). Non-Coding RNA Signature in Painful Knee OA. *Osteoarthritis and Cartilage*, 30(Suppl. 1), S6. <https://doi.org/10.1016/j.joca.2022.02.611>

Arendt-Nielsen, L., Thise Pedersen, J., Høj, A. L., Thomsen, L., Dreier, S., & Keefe, F. J. (2022). *The Evolving Landscape of Publishing in the Field of Pain: A Bibliometric Analysis from 1974-2021*. Poster presented at IASP 2022 World Congress on Pain, Toronto, Canada.

Arendt-Nielsen, L., Carstens, E., Proctor, G., Boucher, Y., Clavé, P., Nielsen, K. A., Nielsen, T. A., & Reeh, P. W. (2022). The Role Of Trp Channels In Nicotinic Provoked Pain And Irritation From The Oral Cavity And Throat: Translating Animal Data To Humans. *Nicotine & Tobacco Research*, 24(12), 1849-1860. <https://doi.org/10.1093/ntr/ntac054>

Arendt-Nielsen, L. (2021). Chronic pain in pre and post total knee arthroplasty. *Osteoarthritis and Cartilage*, 29(Suppl. 1), S7. <https://doi.org/10.1016/j.joca.2021.02.016>

Arendt-Nielsen, L., Larsen, J. B., Rasmussen, S., Krogh, M., Borg, L., & Madeleine, P. (2020). A novel clinical applicable bed-side tool for assessing conditioning pain modulation: proof-of-concept. *Scandinavian Journal of Pain*, 20(4), 801-807. <https://doi.org/10.1515/sjpain-2020-0033>

Arendt-Nielsen, L., Rolfson, O., Hygge Blakeman, K., Wilhelm, S., Robinson, R. L., Beck, C. G., Liseth Hansen, J., & Schepman, P. (2020). Health Care Resource Use and Treatment Patterns in Patients with Difficult-to-Treat Osteoarthritis in Sweden: Analyses from 'BISCUITS', a Large Nordic Observational Cohort Study. *Value in Health*, 23(Suppl. 2), S597. Article PMS28. <https://doi.org/10.1016/j.jval.2020.08.1159>

Arendt-Nielsen, L., Hallberg, S., Beck, C. G., Robinson, R. L., Wilhelm, S., Hygge Blakeman, K., & Schepman, P. (2020). Quality of Life in Patients with Osteoarthritis from Sweden: A Cohort Analysis from the Biscuits Study. *Value in Health*, 23 (Suppl. 2), S598. Article PMS29. <https://doi.org/10.1016/j.jval.2020.08.1160>

Arendt-Nielsen, L. (2019). Mechanistic similarities between fibromyalgia and other chronic pain conditions. *Clinical and Experimental Rheumatology*, 37(1, Suppl. 116), S-121. Article IS-11.

Arendt-Nielsen, L., Simonsen, O., Laursen, M. B., Roos, E. M., Rathleff, M. S., Rasmussen, S., & Skou, S. T. (2018). Pain and sensitization after total knee replacement or nonsurgical treatment in patients with knee osteoarthritis: Identifying potential predictors of outcome at 12 months. *European Journal of Pain*, 22(6), 1088-1102. <https://doi.org/10.1002/ejp.1193>

Arendt-Nielsen, L., Jiang, G.-L., DeGryse, R., & Turkel, C. C. (2017). Intra-articular onabotulinumtoxinA in osteoarthritis knee pain: effect on human mechanistic pain biomarkers and clinical pain. *Scandinavian Journal of Rheumatology*, 46(4), 303-316. <https://doi.org/10.1080/03009742.2016.1203988>

Arendt-Nielsen, L. (2017). Joint pain: more to it than just structural damage? *Pain*, 158(Suppl. 1), S66-S73. <https://doi.org/10.1097/j.pain.0000000000000812>

Arendt-Nielsen, L. (2017). Mechanistic similarities between fibromyalgia and other chronic pain conditions. *Pain Reports*, 2(1), 3. Article e582. <https://doi.org/10.1097/PR9.0000000000000582>

Arendt-Nielsen, L., Harris, S., Whiteside, G. T., Hummel, M., Knappenberger, T., O'Keefe, S., Kapil, R., & Kyle, D. (2016). A randomized, double-blind, positive-controlled, 3-way cross-over human experimental pain study of a TRPV1 antagonist (V116517) in healthy volunteers and comparison with preclinical profile. *Pain*, 157(9), 2057-2067. <https://doi.org/10.1097/j.pain.0000000000000610>

Arendt-Nielsen, L., Egsgaard, L. L., & Petersen, K. K. (2016). Evidence for a central mode of action for etoricoxib (COX-2 Inhibitor) in patients with painful knee osteoarthritis. *Pain*, 157(8), 1634-1644. <https://doi.org/10.1097/j.pain.0000000000000562>

Arendt-Nielsen, L., & Petersen, K. K. (2016). Hvorfor er der ikke sammenhæng mellem skadens størrelse og smertens intensitet? *BestPractice. Reumatologi : faglig dialog mellem specialister*, 9(35), 15-19. http://www.epaper.dk/bpreum/bestpractice/reuma-35-dk-pdf_web/

Arendt-Nielsen, L., & Petersen, K. K. (2016). Perifer og central sensibilisering hos patienter med smertefuld artrose. *BestPractice. Reumatologi : faglig dialog mellem specialister*, 9(34), 28-33. http://www.epaper.dk/bpreum/bestpractice/reuma-34-dk_aug_2016/

Arendt-Nielsen, L. (2016). Peripheral and central pain sensitivity in osteoarthritis. *Annals of the Rheumatic Diseases*, 75(Suppl. 2), 5. Article SP0014. http://ard.bmj.com/content/75/Suppl_2/5.3.abstract?sid=74017717-56df-45d7-bfba-0f28ef0a4dd5

Arendt-Nielsen, L., Egsgaard, L. L., Petersen, K. K., Eskehave, T. N., Graven-Nielsen, T., Hoeck, H. C., & Simonsen, O. (2015). A mechanism-based pain sensitivity index to characterize knee osteoarthritis patients with different disease stages and pain levels. *European Journal of Pain*, 19(10), 1406-1417. <https://doi.org/10.1002/ejp.651>

Arendt-Nielsen, L., Jiang, G.-L., DeGryse, R., & Turkel, C. C. (2015). An exploratory, single-center, double-blind, randomized, placebo-controlled, parallel-group, 16-week study of the efficacy and safety of intra-articular onabotulinumtoxinA (OnabotA, 200 U) as treatment for osteoarthritis knee pain: results from experimental pain models. *Toxicon*, 93(Suppl.), S4. <https://doi.org/10.1016/j.toxicon.2014.11.011>

Arendt-Nielsen, L., Harris, S., O'Keefe, S., Kapil, R., & Kyle, D. (2015). A randomized, double blind, positive-controlled, three-way cross-over human experimental biomarker study of a TRPV1-antagonist in healthy volunteers. In *Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria* (pp. PO05 No. 053; EFIC5-0440). European Pain Federation EFIC. http://efic.kenes.com/PublishingImages/scientific-information/efic-2015-abstracts/EFIC2015_Poster%20abstracts.pdf

Arendt-Nielsen, L. (2015). Headache: muscle tension, trigger points and referred pain. *International Journal of Clinical Practice*, 69(Suppl. 182), 8-12. <https://doi.org/10.1111/ijcp.12651>

Arendt-Nielsen, L. (2015). Reliability of pressure pain threshold testing (PPT) in healthy pain free young adults. *Scandinavian Journal of Pain*, 9, 28-29. <https://doi.org/10.1016/j.sjpain.2015.06.002>

Arendt-Nielsen, L. (2015). Smertesystemets omkodning og modulation ved kroniske smerter. *Dansk Sportsmedicin*, 19(3), 9-11. <http://www.dansksportsmedicin.dk/arkiv.asp?m=35&id=20153>

Arendt-Nielsen, L., & Petersen, K. K. (2014). A randomized, double-blind, placebo-controlled 2-way crossover clinical experimental study to investigate the mechanism of action of the COX-II inhibitor etoricoxib in patients with knee osteoarthritis pain. In *15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina* Article PF363 IASP Press. <http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=31e783c1-a5ec-4f59-bb50-493f3ac275bb&cKey=5b90c484-b916-4e77-bc4e-f7f9cce5d0ce&mKey={83F2864E-03E9-4E87-8194-727D1D8F65E0}>

Arendt-Nielsen, L., Jiang, G.-L., DeGryse, R., & Turkel, C. C. (2014). A single center, double-blind, randomized, placebo-controlled, parallel-group study of the efficacy and safety of intra-articular onabotulinumtoxin A as treatment for osteoarthritis knee pain: results from the experimental pain models. *Osteoarthritis and Cartilage*, 22(Suppl. S), S26, No. 38. <https://doi.org/10.1016/j.joca.2014.02.071>

Arendt-Nielsen, L., Eskehave, T. N., Egsgaard, L. L., Petersen, K. K., Graven-Nielsen, T., Hoeck, H. C., Simonsen, O., Siebuhr, A. S., Karsdal, M., & Bay-Jensen, A. C. (2014). Association between experimental pain biomarkers and serologic markers in patients with different degrees of painful knee osteoarthritis. *Arthritis & Rheumatology*, 66(12), 3317–3326. <https://doi.org/10.1002/art.38856>

Arendt-Nielsen, L. (2014). Invited speaker, topical workshop: myofascial pain and fibromyalgia : one and the same? In *15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina* (pp. No. TW054). IASP Press. <http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=e4ead43a-7efe-48a5-bdbd-b8f5a4c6b5d7&cKey=fa8a2511-b54f-436c-9e1e-d8a51b5cbad0&mKey={83F2864E-03E9-4E87-8194-727D1D8F65E0}>

Arendt-Nielsen, L. (2014). Mechanistic pain biomarkers for profiling chronic visceral pain: topical workshop : mechanistic features of pain processing across neuropathic, musculoskeletal and visceral pain syndromes. In *15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina* (pp. No. TW050). IASP Press. <http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=54a776ca-0097-48a6-9234-d380651070a4&cKey=eea6c791-6d5d-4c63-877c-a999fd4d5a30&mKey={83F2864E-03E9-4E87-8194-727D1D8F65E0}>

Arendt-Nielsen, L., & Cairns, B. E. (2014). Pain: What poisons are revealing about its mechanisms. *Lancet Neurology*, 13(1), 22–23. [https://doi.org/10.1016/S1474-4422\(13\)70289-8](https://doi.org/10.1016/S1474-4422(13)70289-8)

Arendt-Nielsen, L., Madsen, H., Jarrell, J., Gregersen, H., & Drewes, A. (2014). Pain evoked by distension of the uterine cervix in women with dysmenorrhea: Evidence for central sensitization. *Acta Obstetrica et Gynecologica Scandinavica*, 93(8), 741–748. <https://doi.org/10.1111/aogs.12403>

Arendt-Nielsen, L., Eskehave, T. N., Karsdal, M. A., Petersen, K. K., Simonsen, O., Siebuhr, A. S., & Bay-Jensen, A. C. (2013). Association between pain and serological biomarkers in patients with different degrees of knee osteoarthritis. In *Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy* (pp. No. 177). European Pain Federation EFIC. <http://www2.kenes.com/efic2013/scientific/Documents/FinalAbstractbookVersion5.pdf>

Arendt-Nielsen, L. (2013). Effect of botulinum toxin on pain transduction and transmission. *Toxicon*, 68, 64. <https://doi.org/10.1016/j.toxicon.2012.07.028>

Arendt-Nielsen, L., Andresen, T., Malver, L. P., Oksche, A., Mansikka, H., & Drewes, A. M. (2012). A double-blind, placebo-controlled study on the effect of buprenorphine and fentanyl on descending pain modulation: a human experimental study. *The Clinical Journal of Pain*, 28(7), 623–627. <https://doi.org/10.1097/AJP.0b013e31823e15cb>

Arendt-Nielsen, L. (2012). Perifere og centrale smertemekanismer. *BestPractice. Reumatologi : faglig dialog mellem specialister*, 5(16), 26-28. <http://www.swiflet.com/bpreum/bestpractice/18/1/>

Arendt-Nielsen, L., Eskehave, T. N., Karsdal, M. A., Bay-Jensen, A. C., Hoeck, H. C., & Simonsen, O. (2012). Peripheral and central sensitization in patients with different degree of knee osteoarthritis. *Arthritis & Rheumatism*, 64(10, Suppl. S), S101, No. 235. <https://doi.org/10.1002/art.37735>

Arendt-Nielsen, L. (2012). The use of human experimental pain models to investigate the transition from localised pain to generalised sensitisation. In *Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy* (pp. No. TW 33). IASP Press. <http://www.abstracts2view.com/iasp/view.php?nu=83&type=lecture&terms=aalborg>

- Arendt-Nielsen, L., Mansikka, H., Staahl, C., Rees, H., Tan, K., Smart, T. S., Monhemius, R., Suzuki, R., & Drewes, A. M. (2011). A Translational Study of the Effects of Ketamine and Pregabalin on Temporal Summation of Experimental Pain. *Regional Anesthesia and Pain Medicine*, 36(6), 585-591. <https://doi.org/10.1097/AAP.0b013e31822b0db0>
- Arendt-Nielsen, L., Fernandez-de-las-Penas, C., & Graven-Nielsen, T. (2011). Basic aspects of musculoskeletal pain: from acute to chronic pain. *Journal of Manual & Manipulative Therapy*, 19(4), 186-193. <https://doi.org/10.1179/106698111X13129729551903>
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- Arendt-Nielsen, L., & Graven-Nielsen, T. (2011). Method and device for evoking temporal pain summation. (Patent No. WO2011103880). http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=7&ND=3&adjacent=true&local=en_EP&FT=D&date=20110901&CC=WO&NR=2011103880A1&KC=A1
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- Arendt-Nielsen, L. (2011). Perifere og centrale smertemekanismer. *BestPractice. Smertesmerter : faglig dialog mellem læger*, 5 (12), 20-22. <http://www.swiflet.com/ndm/smerte/9/1/>
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- Arendt-Nielsen, L. (2011). Psychophysics of pain perception differences between males and females. *Archives Italiennes de Biologie*, 149(3(S)), S8-S9, No. 17. <http://www.architalbiol.org/aib/article/view/1393>
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- Arendt-Nielsen, L., & Gazerani, P. (2010). A device for controlling subcutaneous blood flow. (Patent No. WO2010088914). <http://www.wipo.int/pctdb/en/wo.jsp?WO=2010088914>
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- Arendt-Nielsen, L. (2010). Presenting musculoskeletal pain: beware of red flags. *PainEurope*, 2010(1), 6.
- Arendt-Nielsen, L., Nie, H., Laursen, M. B., Laursen, B. S., Madeleine, P., Simonsen, O. H., & Graven-Nielsen, T. (2010). Sensitization in patients with painful knee osteoarthritis. *Pain*, 149(3), 573-581. <https://doi.org/10.1016/j.pain.2010.04.003>
- Arendt-Nielsen, L. (2010). Translational human pain biomarkers in drug development. *Basic & Clinical Pharmacology & Toxicology*, 107(Suppl. 1), 89, No. W12.2. https://doi.org/10.1111/j.1742-7843.2010.00598_4.x

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