Winnie Jensen
Professor, Leder
Institut for Medicin og Sundhedsteknologi
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Neural Engineering and Neurophysiology
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Forskningsprofil

RESEARCH VISION AND MISSION

I believe in improving quality of life for people with impaired sensory or motor capabilities through development of innovative, implantable technological solutions that are inspired by human biology. I work towards bridging animal and human research to create unique knowledge and novel rehabilitation systems.

RESEARCH STRATEGY AND EXAMPLE RESEARCH PROJECTS

My research was initiated within animal work, and most of my work has been carried out in animal models – however since 2013, my work also taken a translational step towards clinical work. All my work is ultimately dedicated to the development of future clinical sensory and motor rehabilitation devices and therapies for use in human patients.

Example research projects: Animal model of ischemic stroke, Animal models of neuropathic and phantom limb pain, Direct sensory feedback to alleviate phantom limb pain, Invasive brain computer interfacing.

RESEARCH EXPERTISE

Specialist knowledge within the area of neural engineering, including new implantable technologies to assess, understand and modulate neuroplasticity for treatment of diseased or damaged neural system.

Experience with development and test of medical device equipment in collaboration with national and international companies.

Experience with development and test of medical equipment (invasive and non-invasive) at multi-national level (approvals obtained at the national ethical committee systems and national competent authorities for human tests, knowledge of performing animal and human tests to comply with the EU medical device directive).

Broad knowledge of national and international policies, strategies, mega-trends ect. within health.

Ansættelse

Professor, Leder
Professor, Leder
Institut for Medicin og Sundhedsteknologi
Det Sundhedsvidenskabelige Fakultet
Gistrup, Danmark
1 jan. 2000 → 31 dec. 4712

Professor, Leder
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Det Sundhedsvidenskabelige Fakultet
Gistrup, Danmark
1 jan. 2000 → 31 dec. 4712

Neural Engineering and Neurophysiology
Det Sundhedsvidenskabelige Fakultet
Gistrup, Danmark
1 dec. 2015 → present

Professor, Leder
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Neural Engineering and Neurophysiology
Det Sundhedsvidenskabelige Fakultet
Gistrup, Danmark
1 jan. 2000 → 31 dec. 4712

Center for Neuroplasticity and Pain
Det Sundhedsvidenskabelige Fakultet
Aalborg East, Danmark
1 feb. 2015 → present

Undervisnings og forskningsministeriet. Medlem af referencegruppen for SUNDHED (EU cluster 1) (https://ufm.dk/forskning-og-innovation/internationalt-samarbejde/europaeiske-samarbejder/horizon-europe-programmet/medlemmer-af-referencegruppen-for-sundhed)
1 jan. 2022 → present

Medlem af ATV (https://atv.dk/)
1 jan. 2016 → present

Publikationer

High-frequency electrical stimulation increases cortical excitability and mechanical sensitivity in a chronic large animal model
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On determining the mechanical nociceptive threshold in pigs: a reliability study
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Meijs, S., Bjarkam, C. R., Andreis, F. R. & Jensen, W., 24 apr. 2023, *11th International IEEE/EMBS Conference on Neural Engineering, NER 2023 - Proceedings.* IEEE, 10123833. (International IEEE/EMBS Conference on Neural Engineering, NER).

Modulation of Intracortical S1 Responses Following Peripheral Nerve High-Frequency Electrical Stimulation in Danish Landrace Pigs
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Andreis, F. R., Metcalfe, B., Al Muhamadee Janjua, T., Meijs, S., Favretto, M. A., Jensen, W. & Dos Santos Nielsen, T. G. N., jul. 2022, *2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC).* IEEE, Bind 2022. s. 4127-4130 4 s. (I E E E Engineering in Medicine and Biology Society. Conference Proceedings).

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Short-term Suppression of Somatosensory Evoked Potentials and Perceived Sensations in Healthy Subjects Following TENS
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Modulation of Corticospinal Excitability by Two Different Somatosensory Stimulation Patterns: A Pilot Study
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Čvančara, P., Boretius, T., López-Álvarez, V. M., Maciejasz, P., Andreu, D., Raspopovic, S., Petrini, F. M., Micera, S., Granata, G., Fernandez, E., Rossini, P. M., Yoshida, K., Jensen, W., Divoux, J-L., Guiraud, D., Navarro, X. & Stieglitz, T., 8 jul. 2020, I: Journal of Neural Engineering. 17, 4, 1 s., 046006.

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Direct Nerve Stimulation for Induction of Sensation and Treatment of Phantom Limb Pain
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Introduction
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Selectivity of the TIME Implantable Nerve Electrode
Badia, J., Harreby, K. R., Kundu, A., Boretius, T., Stieglitz, T., Jensen, W. & Navarro, X., dec. 2019, *Direct Nerve Stimulation for Induction of Sensation and Treatment of Phantom Limb Pain.* River Publishers, s. 171-191 (River Publishers Series in Biomedical Engineering).

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Waris, M. A., Niazi, I. K., Jamil, M., Englehart, K., Jensen, W. & Kamavuako, E. N., jul. 2019, I: IEEE Journal of Biomedical and Health Informatics. 23, 4, s. 1526-1534 9 s., 8429072.

Introduction
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Latency of ACC and SI processing of noxious and non-noxious electrical stimulation
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Hybrid and fast: A novel in silico approach with reduced computational cost to predict failures of in vivo needle-based implantations
Sergi, P. N., Jensen, W., Yoshida, K. & Micera, S., 1 jan. 2019, *Converging Clinical and Engineering Research on Neurorehabilitation III: Proceedings of the 4th International Conference on NeuroRehabilitation (ICNR2018).* Springer Publishing Company, s. 127-131 5 s. (Biosystems and Biorobotics, Bind 21).

Keep Track of your Publications and Citations (HST): HST and the VBN Team Recommend
Melchiorsen, P. M., Pedersen, D. & Jensen, W., 2019, 1 s.

Modulation of cortical activity by selective steady-state somatosensory stimulation
Zarei, A., Lontis, R. & Jensen, W., 2019, *2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC).* IEEE, s. 421-424 4 s. 8856443. (Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference).

On the robustness of real-time myoelectric control investigations: A multiday Fitts' law approach
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Jensen, W., Sinkjær, T. & Sepulveda, F., 2002, I: IEEE Transactions on Neural Systems and Rehabilitation Engineering. 10, 3, s. 133-139

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Characterization of silicon microelectrodes from the EU VSAMUEL project
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First insights on muscle afferent nerve signals for closed-loop control of FES-generated rabbit ankle movements
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Measurement of intrafascicular insertion force of a tungsten needle into peripheral nerve
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Muscle afferent signals for FES systems
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Neuro-fuzzy extraction of angular information from muscle afferents for ankle control during standing in paraplegic subjects: an animal model
Micera, S., Jensen, W., Sepulveda, F., Riso, R. R. & Sinkjær, T., 2001, I: IEEE Transactions on Biomedical Engineering. 48, 7, s. 787-794

The rabbit model and LIFE as a neural interface
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Using nerve signals from muscle afferent electrodes to control FES-based ankle motion in a rabbit
Sepulveda, F., Jensen, W. & Sinkjær, T., 2001, *23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2001, 25-28 October 2001, Istanbul, Turkey.* Bind 23. s. 1290-1292

Effect of intertrial delay on whole nerve cuff recordings of muscle afferents in rabbits
Jensen, W., Riso, R. R. & Sinkjær, T., 2000, I: Neuromodulation: Technology at the Neural Interface. 3, 1, s. 43-53

Nerve cuff recordings of muscle afferent activity from tibial and peroneal nerves in rabbit during passive ankle motion
Riso, R. R., Mosallaie, F. K., Jensen, W. & Sinkjær, T., 2000, I: IEEE transactions on rehabilitation engineering. 8, 2, s. 244-258

On-line joint angle estimation based on nerve cuff recordings from muscle afferents
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A fuzzy model for extraction of angular position information from whole nerve cuff muscle afferent recordings: preliminary results
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Nerve cuff recordings of muscle afferents during electrical stimulation of agonist-antagonist muscle pain
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Effect of initial position on nerve cuff recordings of muscle afferents during passive rotation of the ankle joint in rabbit
Jensen, W., Riso, R. R. & Sinkjær, T., 1998, *Abstract Book, 4th International Congress, INS/IFESS, 16-20 September 1998, Lucerne, Switzerland.* s. 252, No. PP19

Position information in whole nerve cuff recordings of muscle afferents in a rabbit model of normal and paraplegic standing
Jensen, W., Riso, R. R. & Sinkjær, T., 1998, *Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Vol. 20, No. 5, 29 October-1 November 1998, Hong Kong.* s. 2528-2531

Causal probabilistic network and power spectral estimation used in sleep stage classification
Nielsen, K. D., Kjær, A., Jensen, W., Dyrby, T., Andreasen, L. N. S., Andersen, J. & Andreassen, S., 1997, I: Methods of Information in Medicine. 36, s. 345-348

Nerve cuff recordings of muscle afferent activity during passive joint motion in a rabbit
Sinkjær, T., Riso, R. R., Mosallaie, F., Jensen, W. & Lawrence, S., 1997, *IFESS 97, Proceedings of the 2nd Annual Conference, International Functional Electrical Stimulation Society and the 5th Triennial Conference: Neural Prostheses Motor Systems (NP 97), 16-21 August 1997, Burnaby, Canada.* s. 219-220

Causal probabilistic network and power spectral estimation used for sleep classification
Nielsen, K. D., Andersen, J. M., Andreasen, L. N. S., Dyrby, T., Jensen, W., Kjær, A. G. & Andreassen, S., 1996, *Proceedings of the 2nd IFMBE-IMIA International Workshop on Biosignal Interpretation, International Federation for Medical and Biomedical Engineering (IFMBE), 1996.* s. 211-214

Identification of the relationship between center of pressure and ankle angle during standing of normal subjects
Jensen, W., Struijk, L. N. S. A., Veltink, P. H. & Mayagoïtia, R., 1996, *Proceedings of the 18th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 31 October-3 November 1996, Amsterdam, the Netherlands.* Bind 2. s. 575-576

Natural sensory feedback for control of standing
Struijk, L. N. S. A., Jensen, W., Veltink, P. H. & Struijk, J. J., 1996, *Proceedings of the 18th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 31 October-3 November 1996, Amsterdam, the Netherlands.* Bind 1. s. 441-442

Aktiviteter

Udvalget til konstruktion af forskningsindikator på AAU (Begivenhed)
Jakob Stoustrup (Forperson), Winnie Jensen (Medlem), Torsten Nygård Kristensen (Medlem), Birger Larsen (Medlem), Jørgen Albretsen (Medlem), Christian Müller (Medlem), Tommy Nielsen (Medlem), Kathrine Bjerg Bennike (Medlem), Poul Meier Melchiorsen (Medlem) & Gunnar Sivertsen (Medlem)
sep. 2022 → feb. 2023

Opponent on Ph.D-defense (Ekstern organisation)
Winnie Jensen (Medlem)
30 mar. 2012

Priser

3rd Best Paper Award
Rettore Andreis, Felipe (Modtager), Jensen, Winnie (Modtager), Janjua, Taha (Modtager), Meijs, Suzan (Modtager) & Nielsen, Thomas Gomes Nørgaard dos Santos (Modtager), okt. 2023

Vanførefondens forskningspris
Jensen, Winnie (Modtager), 2016

Presse/medie

10 teknologiske tendenser, du bør kende: #4. Trådløse signaler mellem hjerne og muskel erstatter ødelagt rygmarv
Winnie Jensen
03/05/2017
1 element af Mediedækning

Banebrydende metode kan hjælpe amputerede
Winnie Jensen & Preben Sørensen
23/02/2016
1 element af Mediedækning

Behandling af fantomsmerter hos amputerede
Romulus Lontis & Winnie Jensen
20/02/2024
1 element af Mediedækning

Bionisk protese
Winnie Jensen
26/02/2015
1 element af Mediedækning

Commentary: Geometric Characterisation of Local Changes in Tungsten Microneedle Tips after In-Vivo Insertion into Peripheral Nerves
Winnie Jensen
06/09/2022
1 element af Mediedækning

Danske forsøgspersoner skal have elektroder opereret ind i nerverne
Winnie Jensen
25/03/2014
6 elementer af Mediedækning

Dansker med fingerprotese føler teksturer for første gang i verden
Winnie Jensen
09/03/2016
1 element af Mediedækning

Det hele kommer fra hjernen af
Winnie Jensen
30/11/2013
1 element af Mediedækning

Elektroniske nerver
Winnie Jensen
12/12/2008
1 element af Mediedækning

En robotarm og to bioniske øjne, tak!
Winnie Jensen
18/10/2015
1 element af Mediedækning

En robotarm og to bioniske øjne, tak!
Winnie Jensen
19/10/2015
2 elementer af Mediedækning

En underlig "kriblen-krablen"
Winnie Jensen
01/11/2008
1 element af Mediedækning

Forskere vil manipulere med fantomsmerter
Winnie Jensen
22/02/2008
1 element af Mediedækning

Forskere vil snyde kroppens fantomsmerter
Winnie Jensen
13/12/2013
50 elementer af Mediedækning

Forskning i fantomsmerter
Winnie Jensen
22/02/2008
1 element af Mediedækning

Forskning i fantomsmerter
Winnie Jensen
22/02/2008
2 elementer af Mediedækning

Forskning i neuroteknologi giver store muligheder
Johannes Struijk, Nico Rijkhoff, Winnie Jensen & Thomas Sinkjær
12/12/2008
1 element af Mediedækning

Forsøgsdyr i forskningens tjeneste
Winnie Jensen
01/12/2007
1 element af Mediedækning

Fremtidens menneske kan trække på to typer reservedele
Winnie Jensen
10/04/2015
2 elementer af Mediedækning

Grise hjælper forskere med at bekæmpe fantomsmerter
Winnie Jensen
17/03/2016
2 elementer af Mediedækning

Hjerne-Madsen underholder fuld AAU-sal
Hans Hüttel, Kim Toft Hansen & Winnie Jensen
04/11/2014
2 elementer af Mediedækning

Implantat i hjernen viser vej til helbredelse
Winnie Jensen
16/06/2011
1 element af Mediedækning

Jagten på supermennesket
Winnie Jensen & Klavs Birkholm
06/02/2015
4 elementer af Mediedækning

Lam teenager i robotdragt skal sparke VM i gang
Winnie Jensen
12/06/2014
1 element af Mediedækning

Medicinske muligheder
Winnie Jensen
25/08/2015
1 element af Mediedækning

Moderne mirakler
Lotte N. S. Andreasen Struijk, Bo Bentsen, Winnie Jensen & Eugen Romulus Lontis
27/03/2017
1 Mediebidrag

Navnenyt
Thomas Graven-Nielsen, Lars Arendt-Nielsen, Ole Kæseler Andersen & Winnie Jensen
21/10/2014
1 element af Mediedækning

Nye medlemmer af ATV
Winnie Jensen & Anne Marie Kanstrup
07/05/2014
5 elementer af Mediedækning

Nye medlemmer af ATV
Anne Marie Kanstrup & Winnie Jensen
28/05/2014
1 element af Mediedækning

Nyt forskningsprojekt skal komme fantomsmerter til livs
Winnie Jensen
13/12/2013
1 element af Mediedækning

Nyt forskningsprojekt skal komme fantomsmerter til livs
Winnie Jensen
25/03/2014
1 element af Mediedækning

Ny viden om nerverne kan genskabe organer og sanser
Nico Rijkhoff, Johannes Struijk, Winnie Jensen & Thomas Sinkjær
13/12/2008
2 elementer af Mediedækning

Når de lamme skal gå
Winnie Jensen
24/06/2014
1 element af Mediedækning

Robotteknologi: Dansker føler med kunstig hånd
Winnie Jensen
05/02/2014
13 elementer af Mediedækning

Rotter skal løse blodprop-gåde
Winnie Jensen
16/06/2011
2 elementer af Mediedækning

Spørg Scientariet: Hvor meget elektricitet kan menneskekroppen holde til?
Winnie Jensen
06/05/2017
1 element af Mediedækning

Stor bevilling skal mindske antallet af invalide efter slagtilfælde
Ole Kæseler Andersen & Winnie Jensen
24/06/2014
10 elementer af Mediedækning

Sundhedsteknologi: Så tæt er vi på at være cyborgs
Winnie Jensen
16/10/2012
2 elementer af Mediedækning

Supermennesker
Winnie Jensen
24/10/2014
1 element af Mediedækning

Vanførefondens Forskerpris til AAU forsker
Winnie Jensen
15/06/2016
3 elementer af Mediedækning

Vanførefondens Forskerpris til AAU-professor
Winnie Jensen
24/05/2016
12 elementer af Mediedækning

Winnie Jensen
Winnie Jensen
05/10/2011
2 elementer af Mediedækning

Winnie Jensen - returned associate professor at Aalborg University
Winnie Jensen
05/02/2009
1 element af Mediedækning

Aalborg-forskere fjerner fantomsmerter med strøm
Winnie Jensen
14/11/2016
2 elementer af Mediedækning

Aalborg Universitet vil behandle fantomsmerter
Winnie Jensen
01/02/2016
2 elementer af Mediedækning

Projekter

Advancing Peripheral Nerve Interfaces in a Large Animal Model
Rettore Andreis, F., Jensen, W. & Nielsen, T. G. N. D. S.
01/04/2019 → 01/07/2022

Bevica Center for NeuroEngineering Solutions in Stroke Rehabilitation
Andersen, O. K., Jensen, W., Jørgensen, H. R. M., Moeslund, T. B., Mrachacz-Kersting, N., Nielsen, J. F., Petrini, L., Spaich, E. G., Modrau, B., Svaneborg, N., Larsen, B. & Knudsen, G. H.
01/09/2014 → 31/08/2019

Konstruktion af forskningsindikator til AAU
Stoustrup, J., Jensen, W., Kristensen, T. N., Larsen, B., Müller, C., Nielsen, T., Albretsen, J., Bjerg Bennike, K., Melchiorsen, P. M. & Sivertsen, G.
Aalborg University
14/09/2022 → 31/12/2023

TIME: Transverse, Intrafasicular Multichannel Electrode system for Induction of sensation and treatment of phantom limb pain in amputees
Jensen, W.
01/05/2008 → 30/04/2012

TEST

TEXT SECTION can be added.