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## Kvalifikationer

Neuroscience, PhD, Amyloid toxicity in Alzheimer's disease, École Polytechnique Fédérale de Lausanne

1 jul. 2006 → 29 jul. 2010

Dimissionsdato: 29 jul. 2010

Clinical Medicine, MBBS

30 sep. 2001 → 31 okt. 2004

Dimissionsdato: 1 feb. 2005

## Ansættelse

**AC-TAP**

Institut for Molekylærbiologi og Genetik - Cellulær sundhed, intervention og ernæring

Aarhus Universitet

Aarhus C, Danmark

2 okt. 2024 → present

## Publikationer

**A beginner's guide into curated analyses of open access datasets for biomarker discovery in neurodegeneration**

Gomes Moreira, D. & Jan, A., jul. 2023, I: Scientific Data. 10, 1, 12 s., 432.

**GLP-1-Receptor Agonists in Neurodegeneration: Neurovascular Unit in the Spotlight**

Monti, G., Gomes Moreira, D., Richner, M., Mutsaers, H. A. M., Ferreira, N. & Jan, A., jul. 2022, I: Cells. 11, 13, 2023.

**Recombinant adeno-associated virus mediated gene delivery in the extracranial nervous system of adult mice by direct nerve immersion**

Richner, M., Gonçalves, N. P., Jensen, P. H., Nyengaard, J. R., Vægter, C. B. & Jan, A., mar. 2022, I: STAR Protocols. 3, 1, 15 s., 101181.

**The Prion-Like Spreading of Alpha-Synuclein in Parkinson's Disease: Update on Models and Hypotheses**

Jan, A., Gonçalves, N. P., Vaegter, C. B., Jensen, P. H. & Ferreira, N., aug. 2021, I: International Journal of Molecular Sciences. 22, 15, 23 s., 8338.

**$\alpha$ -Synuclein pathology in Parkinson disease activates homeostatic NRF2 anti-oxidant response**

Delaidelli, A., Richner, M., Jiang, L., van der Laan, A., Bergholdt Jul Christiansen, I., Ferreira, N., Nyengaard, J. R., Vægter, C. B., Jensen, P. H., Mackenzie, I. R., Sorensen, P. H. & Jan, A., jun. 2021, I: Acta Neuropathologica Communications. 9, 1, 16 s., 105.

**Prodromal neuroinvasion of pathological  $\alpha$ -synuclein in brainstem reticular nuclei and white matter lesions in a model of  $\alpha$ -synucleinopathy**

Ferreira, N., Richner, M., van der Laan, A., Bergholdt Jul Christiansen, I., Vægter, C. B., Nyengaard, J. R., Halliday, G. M., Weiss, J., Giasson, B. I., Mackenzie, I. R., Jensen, P. H. & Jan, A., maj 2021, I: Brain Communications. 3, 2, 17 s., fcab104.

**Trans-synaptic spreading of alpha-synuclein pathology through sensory afferents leads to sensory nerve degeneration and neuropathic pain**

Ferreira, N., Gonçalves, N. P., Jan, A., Jensen, N. M., van der Laan, A., Mohseni, S., Vægter, C. B. & Jensen, P. H., feb. 2021, I: *Acta Neuropathologica Communications*. 9, 1, 31.

**Gene Transfer in Rodent Nervous Tissue Following Hindlimb Intramuscular Delivery of Recombinant Adeno-Associated Virus Serotypes AAV2/6, AAV2/8, and AAV2/9**

Asad, J., Richner, M., Vægter, C. B., Nyengaard, J. R. & Jensen, P. H., nov. 2019, I: *Neuroscience Insights*. 14, November-December, s. 1-12

**Translational control in brain pathologies: biological significance and therapeutic opportunities**

Delaidelli, A., Jan, A., Herms, J. & Sorensen, P. H., apr. 2019, I: *Acta Neuropathologica*. 137, 4, s. 535-555 21 s.

**Activity of translation regulator eukaryotic elongation factor-2 kinase is increased in Parkinson disease brain and its inhibition reduces alpha synuclein toxicity**

Jan, A., Jansonius, B., Delaidelli, A., Bhanshali, F., An, Y. A., Ferreira, N., Smits, L. M., Negri, G. L., Schwamborn, J. C., Jensen, P. H., Mackenzie, I. R., Taubert, S. & Sorensen, P. H., 2018, I: *Acta Neuropathologica Communications*. 6, 1, 17 s., 54.

**MYCN amplified neuroblastoma requires the mRNA translation regulator eEF2 kinase to adapt to nutrient deprivation**

Delaidelli, A., Negri, G. L., Jan, A., Jansonius, B., El-Naggar, A., Lim, J. K. M., Khan, D., Zarni Oo, H., Carnie, C. J., Remke, M., Maris, J. M., Leprivier, G. & Sorensen, P. H., sep. 2017, I: *Cell Death and Differentiation*. 24, 9, s. 1564-1576 13 s.

**eEF2K inhibition blocks A $\beta$ 42 neurotoxicity by promoting an NRF2 antioxidant response**

Jan, A., Jansonius, B., Delaidelli, A., Somasekharan, S. P., Bhanshali, F., Vandal, M., Negri, G. L., Moerman, D., MacKenzie, I., Calon, F., Hayden, M. R., Taubert, S. & Sorensen, P. H., jan. 2017, I: *Acta Neuropathologica*. 133, 1, s. 101-119 19 s.

**Direct intracerebral delivery of a miR-33 antisense oligonucleotide into mouse brain increases brain ABCA1 expression. [Corrected]**

Jan, A., Karasinska, J. M., Kang, M. H., de Haan, W., Ruddle, P., Kaur, A., Connolly, C., Leavitt, B. R., Sorensen, P. H. & Hayden, M. R., 26 jun. 2015, I: *Neuroscience Letters*. 598, s. 66-72 7 s.

**Discovery and structure activity relationship of small molecule inhibitors of toxic  $\beta$ -amyloid-42 fibril formation**

Kroth, H., Ansaloni, A., Varisco, Y., Jan, A., Sreenivasachary, N., Rezaei-Ghaleh, N., Giriens, V., Lohmann, S., López-Deber, M. P., Adolfsson, O., Pihlgren, M., Paganetti, P., Froestl, W., Nagel-Steger, L., Willbold, D., Schrader, T., Zweckstetter, M., Pfeifer, A., Lashuel, H. A. & Muhs, A., 2012, I: *Journal of Biological Chemistry*. 287, 41, s. 34786-800 15 s.

**Establishing the links between A $\beta$  aggregation and cytotoxicity in vitro using biophysical approaches**

Jan, A. & Lashuel, H. A., 2012, I: *Methods in molecular biology (Clifton, N.J.)*. 849, s. 227-43 17 s.

**Abeta42 neurotoxicity is mediated by ongoing nucleated polymerization process rather than by discrete Abeta42 species**

Jan, A., Adolfsson, O., Allaman, I., Buccarello, A.-L., Magistretti, P. J., Pfeifer, A., Muhs, A. & Lashuel, H. A., 11 mar. 2011, I: *Journal of Biological Chemistry*. 286, 10, s. 8585-96 12 s.

**Preparation and characterization of toxic Abeta aggregates for structural and functional studies in Alzheimer's disease research**

Jan, A., Hartley, D. M. & Lashuel, H. A., jun. 2010, I: *Nature Protocols (Print)*. 5, 6, s. 1186-209 24 s.

**The ratio of monomeric to aggregated forms of Abeta40 and Abeta42 is an important determinant of amyloid-beta aggregation, fibrillogenesis, and toxicity**

Jan, A., Gokce, O., Luthi-Carter, R. & Lashuel, H. A., 2008, I: *Journal of Biological Chemistry*. 283, 42, s. 28176-89 14 s.

## Presse/medie

**“Jekyll and Hyde” enzyme has potential for countering cancer and Alzheimer’s**

Jan, A.

24/10/2016

1 Mediebidrag