

Asad Jan  
Assistant Professor  
Department of Biomedicine - Forskning og uddannelse, Skou-bygningen  
**Type of address: Postal address.**  
Høegh-Guldbergs Gade 10  
1116  
8000  
Aarhus C  
Denmark  
**Email:** ajan@biomed.au.dk



## Qualifications

Neuroscience, PhD, Amyloid toxicity in Alzheimer's disease, Laboratory of Integrative and Systems Physiology, School of Life Sciences, École Polytechnique Fédérale, 1015 Lausanne, Switzerland.

1 Jul 2006 → 29 Jul 2010

Award Date: 29 Jul 2010

Clinical Medicine, MBBS

30 Sept 2001 → 31 Oct 2004

Award Date: 1 Feb 2005

## Employment

### Assistant Professor

Department of Biomedicine - Forskning og uddannelse, Skou-bygningen

Aarhus University

Aarhus C, Denmark

2 Jan 2022 → present

## Publications

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

Gomes Moreira, D. & Jan, A., Jul 2023, In: Scientific Data. 10, 1, 12 p., 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, In: 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, In: STAR Protocols. 3, 1, 15 p., 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, In: International Journal of Molecular Sciences. 22, 15, 23 p., 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, In: Acta Neuropathologica Communications. 9, 1, 16 p., 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., May 2021, In: Brain Communications. 3, 2, 17 p., 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, In: 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, In: Neuroscience Insights. 14, November-December, p. 1-12

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

Delaidelli, A., Jan, A., Herms, J. & Sorensen, P. H., Apr 2019, In: Acta Neuropathologica. 137, 4, p. 535-555 21 p.

**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, In: Acta Neuropathologica Communications. 6, 1, 17 p., 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., Sept 2017, In: Cell Death and Differentiation. 24, 9, p. 1564-1576 13 p.

**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, In: Acta Neuropathologica. 133, 1, p. 101-119 19 p.

**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, In: Neuroscience Letters. 598, p. 66-72 7 p.

**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, In: Journal of Biological Chemistry. 287, 41, p. 34786-800 15 p.

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

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

**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, In: Journal of Biological Chemistry. 286, 10, p. 8585-96 12 p.

**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, In: Nature Protocols (Print). 5, 6, p. 1186-209 24 p.

**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, In: Journal of Biological Chemistry. 283, 42, p. 28176-89 14 p.

## Press / Media

**"Jekyll and Hyde" enzyme has potential for countering cancer and Alzheimer's**

Asad Jan

24/10/2016

1 Media contribution