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Employment

Department of Molecular Medicine

5. Feb 2024 → present

Professor

Neurobiology Research Unit

Odense C

5. Feb 2024 → present

CV

Academic qualifications

1995 Dr. med., Aarhus University (AaU)

1988 MD, AaU. Authorization ID: 00BN8

Academic appointments

2000- Professor, Neurobiology, Department of Molecular Medicine (IMM), SDU

1993 Assoc. prof., Anatomy & Cell Biology, IMB, Odense University

1988 Research fellow, Neurobiology, Institute of Anatomy, AaU

Secondments abroad

2009-12 Senior Fellow, Freiburg Institute for Advanced Studies - School of Life Sciences - LIFENET, Freiburg

1998-99 Sabbatical, Laboratory of Developmental Biology (Dr. Alan C. Peterson), Royal Victoria Hospital, McGill University, Montreal

Selected activities

2018- GLIA – Editorial Board Member

2012- Sino-Danish Center for Education and Research, SDC

2011-2016 Outreach Representative SDU, The Brain Prize, The Grete Lundbeck Foundation

Network organization

2013-2018 COPING AD, COLlaborative Project on the Interaction between Neurons and Glia in Alzheimer's Disease, SDU2020

Research focus

- o Microglial immunity in Alzheimer's disease
- o Regulation of remyelination in multiple sclerosis
- o Microglial neuroprotection in stroke

Lab-members

Katrine Tækker Krohn, Leda Abbasowa, Birgitte Villadsen, Line Bandsholm, Cecilie Madsen, Gabriel Jensen, Thea Helena Holbek, Victoria Emilie Neesgaard, Sussanne Petersen.

Guest researchers: Athanasios Metaxas, Gürol Atar, Barbara Blicher Thomsen.

Positions

Bright young people bringing their own salary are always welcome to join our lab.

Funding

Danish Alzheimer Society, Danish Multiple Sclerosis Society, Danish Research Agency.

Scientific contributions

PubMed indexed items: 149 (Entry: Finsen B). H-index: 43 (Scopus).

Research outputs

A comparison of PKD2L1-expressing cerebrospinal fluid contacting neurons in spinal cords of rodents, carnivores, and primates

Liu, X., Rich, K. K., Nasser, S. M., Li, G., Hjørnesen, S., Finsen, B., Scherberger, H., Fex Svenningsen, Å. & Zhang, M., 1. Sept 2023, In: International Journal of Molecular Sciences. 24, 17, 29 p., 13582.

Synaptic vesicle glycoprotein 2A (SV2A) levels in the cerebral cortex in patients with Alzheimer's disease: a radioligand binding study in postmortem brains

Mikkelsen, J. D., Kaad, S., Aripaka, S. S. & Finsen, B., Sept 2023, In: *Neurobiology of Aging*. 129, p. 50-57

Ceruloplasmin-deficient mice show changes in PTM profiles of proteins involved in messenger RNA processing and neuronal projections and synaptic processes

Villadsen, B., Thygesen, C., Grebing, M., Kempf, S. J., Sandberg, M. B., Jensen, P., Kolstrup, S. H., Nielsen, H. H., Larsen, M. R. & Finsen, B., Apr 2023, In: *Journal of Neurochemistry*. 165, 1, p. 76-94

Characterization of the Novel P2X7 Receptor Radioligand [³H]JNJ-64413739 in Human Brain Tissue

Mikkelsen, J. D., Aripaka, S. S., Kaad, S., Pazarlar, B. A., Pinborg, L., Finsen, B., Varrone, A., Bang-Andersen, B. & Bastlund, J. F., 4. Jan 2023, In: *ACS Chemical Neuroscience*. 14, 1, p. 111-118

Efficacy of Chronic Paroxetine Treatment in Mitigating Amyloid Pathology and Microgliosis in APPSWE/PS1ΔE9 Transgenic Mice

Sivasaravanaparan, M., Olesen, L. Ø., Severino, M., von Linstow, C. U., Lambertsen, K. L., Gramsbergen, J. B., Hasselstrøm, J., Metaxas, A., Wiborg, O. & Finsen, B., 2. Mar 2022, In: *Journal of Alzheimer's Disease*. 87, 2, p. 685-699

The Combined Effects of Amyloidosis and Serotonin Deficiency by Tryptophan Hydroxylase-2 Knockout Impacts Viability of the APP/PS1 Mouse Model of Alzheimer's Disease

von Linstow, C. U., Waider, J., Bergh, M. S.-S., Anzalone, M., Madsen, C., Nicolau, A. B., Wirenfeltd, M., Lesch, K.-P. & Finsen, B., 1. Feb 2022, In: *Journal of Alzheimer's disease : JAD*. 85, 3, p. 1283-1300

Mild Microglial Responses in the Cortex and Perivascular Macrophage Infiltration in Subcortical White Matter in Dogs with Age-Related Dementia Modelling Prodromal Alzheimer's Disease

Thomsen, B. B., Madsen, C., Krohn, K. T., Thygesen, C., Schütt, T., Metaxas, A., Darvesh, S., Agerholm, J. S., Wirenfeltd, M., Berendt, M. & Finsen, B., 21. Jul 2021, In: *Journal of Alzheimer's Disease*. 82, 2, p. 575-592 18 p.

Bone Marrow-Derived IL-1Ra Increases TNF Levels Poststroke

von Linstow, C. U., Hindkjær, S. M., Nielsen, P. V., Degn, M., Lambertsen, K. L., Finsen, B. & Clausen, B. H., 20. Apr 2021, In: *Cells*. 10, 4, 20 p., 956.

Tumor necrosis factor (Tnf) is required for spatial learning and memory in male mice under physiological, but not im-mune-challenged conditions

Mygind, L., Skov-Skov Bergh, M., Tejsi, V., Vaitheeswaran, R., Lambertsen, K. L., Finsen, B. & Metaxas, A., Mar 2021, In: *Cells*. 10, 3, 19 p., 608.

Characterization of the TNF and IL-1 systems in human brain and blood after ischemic stroke

Clausen, B. H., Nielsen, M. W., Høgedal, S. S., Frich, L. H., Nielsen, H. H., Schrøder, H. D., Østergaard, K., Finsen, B., Kristensen, B. W. & Lambertsen, K. L., 5. Jun 2020, In: *Acta Neuropathologica Communications*. 8, 17 p., 81.

Increased Inflammation and Unchanged Density of Synaptic Vesicle Glycoprotein 2A (SV2A) in the Postmortem Frontal Cortex of Alzheimer's Disease Patients

Metaxas, A., Thygesen, C., Briting, S. R. R., Landau, A. M., Darvesh, S. & Finsen, B., 5. Dec 2019, In: *Frontiers in Cellular Neuroscience*. 13, 8 p., 538.

TNF deficiency causes alterations in the spatial organization of neurogenic zones and alters the number of microglia and neurons in the cerebral cortex

Yli-Karjanmaa, M. L. K., Larsen, K. S., Fenger, C., Kristensen, L. K., Martin, N. A., Jensen, P. T., Breton, A., Nathanson, L., Nielsen, P. V., Lund, M. C., Lindeman Carlsen, S., Gramsbergen, J. B., Finsen, B., Stubbe, J., Frich, L. H., Stolp, H., Brambilla, R., anthony, D., Meyer, M. & Lambertsen, K. L., 1. Nov 2019, In: *Brain, Behavior, and Immunity*. 82, p. 279-297

Ageing and amyloidosis underlie the molecular and pathological alterations of tau in a mouse model of familial Alzheimer's disease

Metaxas, A., Thygesen, C., Kempf, S. J., Anzalone, M., Vaitheeswaran, R., Petersen, S., Landau, A. M., Audrain, H., Teeling, J. L., Darvesh, S., Brooks, D. J., Larsen, M. R. & Finsen, B., 31. Oct 2019, In: *Scientific Reports*. 9, 1, 15 p.,

15758.

Protective effect of ibuprofen in a rat model of chronic oxaliplatin-induced peripheral neuropathy

Krøigård, T., Metaxas, A., Wirenfeldt, M. & Finsen, B., Oct 2019, In: *Experimental Brain Research*. 237, 10, p. 2645-2651

Microglia Express Insulin-Like Growth Factor-1 in the Hippocampus of Aged APP^{swe}/PS1 Δ E9 Transgenic Mice

Myhre, C. L., Thygesen, C., Villadsen, B., Vollerup, J., Ilkjær, L., Krohn, K. T., Grebing, M., Zhao, S., Khan, A. M., Dissing-Olesen, L., Jensen, M. S., Babcock, A. A. & Finsen, B., 30. Jul 2019, In: *Frontiers in Cellular Neuroscience*. 13, 17 p., 308.

Proteomic signatures of neuroinflammation in Alzheimer's disease, multiple sclerosis and ischemic stroke

Thygesen, C., Larsen, M. R. & Finsen, B., Jul 2019, In: *Expert Review of Proteomics*. 16, 7, p. 601-611

Neuroinflammation and amyloid-beta 40 are associated with reduced serotonin transporter (SERT) activity in a transgenic model of familial Alzheimer's disease

Metaxas, A., Anzalone, M., Vaitheeswaran, R., Petersen, S., Landau, A. M. & Finsen, B., 1. May 2019, In: *Alzheimer's Research & Therapy*. 11, 1, 38.

Post-stroke inflammation – target or tool for therapy?

Lambertsen, K. L., Finsen, B. & Clausen, B. H., May 2019, In: *Acta Neuropathologica*. 137, 5, p. 693-714

Antibody-mediated clearance of tau in primary mouse microglial cultures requires Fc γ -receptor binding and functional lysosomes

Andersson, C. R., Falsig, J., Stavenhagen, J. B., Christensen, S., Kartberg, F., Rosenqvist, N., Finsen, B. & Pedersen, J. T., 15. Mar 2019, In: *Scientific Reports*. 9, 1, 12 p., 4658.

Diverse protein profiles in CNS myeloid cells and CNS tissue from lipopolysaccharide- and vehicle-injected APP^{SWE}/PS1 Δ E9 transgenic mice implicate cathepsin Z in alzheimer's disease

Thygesen, C., Ilkjær, L., Kempf, S. J., Hemdrup, A. L., von Linstow, C. U., Babcock, A. A., Darvesh, S., Larsen, M. R. & Finsen, B., Nov 2018, In: *Frontiers in Cellular Neuroscience*. 12, 21 p., 397.

Reduced Serotonin Transporter Levels and Inflammation in the Midbrain Raphe of 12 month old APP^{swe}/PSEN1 Δ E9 Mice

Metaxas, A., Vaitheeswaran, R., Jensen, K. T., Thygesen, C., Ilkjaer, L., Darvesh, S. & Finsen, B., 14. Mar 2018, In: *Current Alzheimer Research*. 15, 5, p. 420-428

Characterizing disease-associated changes in post-translational modifications by mass spectrometry

Thygesen, C., Boll, I., Finsen, B., Modzel, M. & Larsen, M. R., Mar 2018, In: *Expert Review of Proteomics*. 15, 3, p. 245-258

Age-Dependent Changes in the Sarkosyl-Insoluble Proteome of APP^{SWE}/PS1 Δ E9 Transgenic Mice Implicate Dysfunctional Mitochondria in the Pathogenesis of Alzheimer's Disease

Thygesen, C., Metaxas, A., Larsen, M. R. & Finsen, B., 1. Jan 2018, In: *Journal of Alzheimer's disease : JAD*. 64, 4, p. 1247-1259

Established amyloid- β pathology is unaffected by chronic treatment with the selective serotonin reuptake inhibitor paroxetine

Severino, M., Sivasaravanaparan, M., Olesen, L. Ø., von Linstow, C. U., Metaxas, A., Bouzinova, E., Khan, A. M., Lambertsen, K. L., Babcock, A., Gramsbergen, J. B., Wiborg, O. & Finsen, B., 1. Jan 2018, In: *Alzheimer's & Dementia: Translational Research & Clinical Interventions*. 4, p. 215-223

Beneficial potential of intravenously administered IL-6 in improving outcome after murine experimental stroke

Grønhøj, M. B., Clausen, B. H., Fenger, C., Lambertsen, K. L. & Finsen, B., Oct 2017, In: *Brain, Behavior, and Immunity*. 65, p. 296-311

Serotonin augmentation therapy by escitalopram has minimal effects on amyloid- β levels in early-stage Alzheimer's-like disease in mice

von Linstow, C. U., Waider, J., Grebing, M., Metaxas, A., Lesch, K. P. & Finsen, B., 12. Sept 2017, In: Alzheimer's Research & Therapy. 9, 12 p., 74.

Fumarate decreases edema volume and improves functional outcome after experimental stroke

Clausen, B. H., Lundberg, L., Yli-Karjanmaa, M. L. K., Martin, N. A., Svensson, M., Zeiler Alfsen, M., Flæng, S. B., Lyngsø, K. S., Boza-Serrano, A., Nielsen, H. H., Hansen, P. B. L., Finsen, B., Deierborg, T., Illés, Z. & Lambertsen, K. L., Sept 2017, In: Experimental Neurology. 295, p. 144–154

Interleukin-6 is increased in plasma and cerebrospinal fluid of community-dwelling domestic dogs with acute ischaemic stroke

Gredal, H., Thomsen, B. B., Boza-Serrano, A., Garosi, L., Rusbridge, C., anthony, D., Møller, A., Finsen, B., Deierborg, T., Lambertsen, K. L. & Berendt, M., 8. Feb 2017, In: NeuroReport. 28, 3, p. 134-140

Spontaneous ischaemic stroke lesions in a dog brain: Neuropathological characterisation and comparison to human ischaemic stroke

Thomsen, B. B., Gredal, H., Nielsen, M. W., Kristensen, B. W., Clausen, B. H., larsen, A. E., Finsen, B., Berendt, M. & Lambertsen, K. L., 13. Jan 2017, In: Acta Veterinaria Scandinavica. 59, 9 p., 7.

Cortical morphogenesis during embryonic development is regulated by miR-34c and miR-204

Venø, M. T., Venø, S. T., Rehberg, K., van Asperen, J. V., Clausen, B. H., Holm, I. E., Pasterkamp, R. J., Finsen, B. & Kjems, J., 2017, In: Frontiers in Molecular Neuroscience. 10, 10 p., 31.

Effect of aging and Alzheimer's disease-like pathology on brain monoamines in mice

Von Linstow, C. U., Severino, M., Metaxas, A., Waider, J., Babcock, A., Lesch, K.-P., Gramsbergen, J. B. & Finsen, B., 2017, In: Neurochemistry International. 108, p. 238-245

Neuron and neuroblast numbers and cytogenesis in the dentate gyrus of aged APP_{swe}/PS1_{dE9} transgenic mice: Effect of long-term treatment with paroxetine

Olesen, L. Ø., Sivasaravanaparan, M., Severino, M., Babcock, A. A., Bouzinova, E. V., West, M. J., Wiborg, O. & Finsen, B., 2017, In: Neurobiology of Disease. 104, p. 50-60

TNF α affects CREB-mediated neuroprotective signaling pathways of synaptic plasticity in neurons as revealed by proteomics and phospho-proteomics

Jensen, P., Myhre, C. L., Lassen, P., Metaxas, A., Khan, A. M., Lambertsen, K. L., Babcock, A., Finsen, B., Larsen, M. R. & Kempf, S., 2017, In: OncoTarget. 8, 36, p. 60223-60242

Genetic ablation of soluble tumor necrosis factor with preservation of membrane tumor necrosis factor is associated with neuroprotection after focal cerebral ischemia

Madsen, P. M., Clausen, B. H., Degn, M., Thyssen, S., Kristensen, L. K., Svensson, M., Ditzel, N., Finsen, B., Deierborg, T., Brambilla, R. & Lambertsen, K. L., 1. Sept 2016, In: Journal of Cerebral Blood Flow and Metabolism. 36, 9, p. 1553-1569

Conditional ablation of myeloid TNF increases lesion volume after experimental stroke in mice, possibly via altered ERK1/2 signaling

Clausen, B. H., Degn, M., Sivasaravanaparan, M., Fogtmann, T., Andersen, M. G., Trojanowsky, M. D., Gao, H., Hvidsten, S., Baun, C., Deierborg, T., Finsen, B., Kristensen, B. W., Bak, S. T., Meyer, M., Lee, J., Nedospasov, S. A., Brambilla, R. & Lambertsen, K. L., 7. Jul 2016, In: Scientific Reports. 6, 16 p., 29291.

An integrated proteomics approach shows synaptic plasticity changes in an APP/PS1 Alzheimer's mouse model

Kempf, S. J., Metaxas, A., Ibáñez-Vea, M., Darvesh, S., Finsen, B. & Larsen, M. R., 7. Jun 2016, In: Oncotarget. 7, 23, p. 33627-33648

Myelin-specific T cells induce interleukin-1beta expression in lesion-reactive microglial-like cells in zones of axonal degeneration

Grebing, M., Nielsen, H. H., Fenger, C. D., T Jensen, K., von Linstow, C. U., Clausen, B. H., Söderman, A. M., Lambertsen, K. L., Thomassen, M., Kruse, T. A. & Finsen, B., Mar 2016, In: Glia. 64, 3, p. 407-424

Cell therapy centered on IL-1Ra is neuroprotective in experimental stroke

Clausen, B. H., Lambertsen, K. L., Dagnæs-Hansen, F., Babcock, A., von Linstow, C. U., Meldgaard, M., Kristensen, B. W., Deierborg, T. & Finsen, B., 9. Feb 2016, In: *Acta Neuropathologica*. 131, 5, p. 775-791

Functional organization of an Mbp enhancer exposes striking transcriptional regulatory diversity within myelinating glia

Dionne, N., Dib, S., Finsen, B., Denarier, E., Kuhlmann, T., Drouin, R., Kokoeva, M., Hudson, T. J., Siminovitch, K., Friedman, H. C. & Peterson, A. C., Jan 2016, In: *Glia*. 64, 1, p. 175-194

Behavioural Phenotyping of APP^{swe}/PS1^{ΔE9} Mice: Age-Related Changes and Effect of Long-Term Paroxetine Treatment

Olesen, L. Ø., Bouzinova, E. V., Severino, M., Sivasaravanaparan, M., Hasselstrøm, J. B., Finsen, B. & Wiborg, O., 2016, In: *PLOS ONE*. 11, 11, 21 p., e0165144.

Spatio-temporal regulation of circular RNA expression during porcine embryonic brain development

Venø, M. T., Hansen, T. B., Venø, S. T., Clausen, B. H., Grebing, M., Finsen, B., Holm, I. E. & Kjems, J., 5. Nov 2015, In: *Genome Biology*. 16, 17 p., 245.

Cytokine-producing microglia have an altered beta-amyloid load in aged APP/PS1 Tg mice

Babcock, A. A., Ilkjær, L., Clausen, B. H., Villadsen, B., Dissing-Olesen, L., Bendixen, A. T. M., Lyck, L., Lambertsen, K. L. & Finsen, B., Aug 2015, In: *Brain, Behavior, and Immunity*. 48, August, p. 86-101

Telomere dysfunction reduces microglial numbers without fully inducing an aging phenotype.

Khan, A. M., Babcock, A., Saeed, H., Myhre, C. L., Kassem, M. & Finsen, B., Jun 2015, In: *Neurobiology of Aging*. 36, 6, p. 2164-2175 12 p.

Neuroinflammation in Alzheimer's disease

Heneka, M. T., Carson, M. J., Khoury, J. E., Landreth, G. E., Brosseron, F., Feinstein, D. L., Jacobs, A. H., Wyss-Coray, T., Vitorica, J., Ransohoff, R. M., Herrup, K., Frautschy, S. A., Finsen, B., Brown, G. C., Verkhratsky, A., Yamanaka, K., Koistinaho, J., Latz, E., Halle, A. & Petzold, G. C. & 17 others, Town, T., Morgan, D., Shinohara, M. L., Perry, V. H., Holmes, C., Bazan, N. G., Brooks, D. J., Hunot, S., Joseph, B., Deigendesch, N., Garaschuk, O., Boddeke, E., Dinarello, C. A., Breitner, J. C., Cole, G. M., Golenbock, D. T. & Kummer, M. P., 1. Apr 2015, In: *Lancet Neurology*. 14, 4, p. 388-405 18 p.

CD8+ T Cells Complement Antibodies in Protecting against Yellow Fever Virus

Bassi, M. R., Kongsgaard, M., Steffensen, M. A., Fenger, C., Rasmussen, M., Skjødt, K., Finsen, B., Stryhn, A., Buus, S., Christensen, J. P. & Thomsen, A. R., 1. Feb 2015, In: *Journal of Immunology*. 194, 3, p. 1141-1153

Systemically administered anti-TNF therapy ameliorates functional outcomes after focal cerebral ischemia

Clausen, B. H., Degn, M., Martin, N. A., Couch, Y., Karimi, L., Ormhøj, M., Mortensen, M.-L. B., Gredal, H., Gardiner, C., Sargent, I. I. L., Szymkowski, D. E., Petit, G., Deierborg, T., Finsen, B., Anthony, D. & Lambertsen, K. L., 12. Dec 2014, In: *Journal of Neuroinflammation*. 11, 1, 17 p., 203.

Suppressors of cytokine signaling 1 and 3 are upregulated in brain resident cells in response to virus-induced inflammation of the central nervous system via at least two distinctive pathways

Steffensen, M. A., Fenger, C., Christensen, J. E., Jørgensen, C. K., Bassi, M. R., Christensen, J. P., Finsen, B. & Thomsen, A. R., Dec 2014, In: *Journal of Virology*. 88, 24, p. 14090-14104

No effect of ablation of surfactant protein-D on acute cerebral infarction in mice

Lambertsen, K. L., Østergaard, K., Clausen, B. H., Hansen, S., Stenvang, J., Thorsen, S. B., Meldgaard, M., Kristensen, B. W., Hansen, P. B. L., Sørensen, G. L. & Finsen, B., Jul 2014, In: *Journal of Neuroinflammation*. 11, 13 p., 123.

Accelerated microglial pathology is associated with A β plaques in mouse models of Alzheimer's disease

Baron, R., Babcock, A. A., Nemirovsky, A., Finsen, B. & Monsonego, A., 2014, In: *Aging Cell*. 13, 4, p. 584-595

Inflammatory responses and plaque deposition in early stage Alzheimer's pathology in mice

Ilkjaer, L., Babcock, A., Myhre, C. L. & Finsen, B., 2014, In: Journal of Neuroimmunology. 275, 1-2, p. 154-155 2 p.

Myelin specific T cells induce inflammasome activation in microglia in zones of axonal degeneration

Grebing, M. M., Nielsen, H. H., Fenger, C., Clausen, B. H., von Linstow, C. U., Jensen, K. T., Soderman, M., Lambertsen, K. L., Thomassen, M., Kruse, T. A. & Finsen, B., 2014, In: Journal of Neuroimmunology. 275, 1-2, p. 151-151

Alternative polyadenylation and miR-34 family members regulate tau expression

Dickson, J. R., Kruse, C., Montagna, D. R., Finsen, B. & Wolfe, M. S., Dec 2013, In: Journal of Neurochemistry. 127, 6, p. 739-749

Oral treatment with the NADPH oxidase antagonist apocynin mitigates clinical and pathological features of parkinsonism in the MPTP marmoset model

Philippens, I. H. C. H. M., Wubben, J. A., Finsen, B. & 't Hart, B. A., Jun 2013, In: Journal of Neuroimmune Pharmacology. 8, 3, p. 715-726 12 p.

Natural RNA circles function as efficient microRNA sponges

Hansen, T. B., Jensen, T. I., Clausen, B. H., Bramsen, J. B., Finsen, B., Damgaard, C. K. & Kjems, J., 21. Mar 2013, In: Nature. 495, 7441, p. 384-388

In situ hybridization of cytokine mRNA using alkaline phosphatase-labelled oligodeoxynucleotide probes

Clausen, B. H., Fenger, C. & Finsen, B., 2013, In: Methods in Molecular Biology. 1041, p. 83-91

Quantification of microglial proliferation and apoptosis by flow cytometry

Babcock, A. A., Wirenfeldt, M. & Finsen, B., 2013, In: Methods in Molecular Biology. 1041, p. 129-145 17 p.

Differential impact of interferon regulatory factor 7 in initiation of the type I interferon response in the lymphocytic choriomeningitis virus-infected central nervous system versus the periphery

Christensen, J. E., Fenger, C., Issazadeh-Navikas, S., Krug, A., Liljestrøm, P., Goriely, S., Paludan, S. R., Finsen, B., Christensen, J. P. & Thomsen, A. R., 2012, In: Journal of Virology. 86, 13, p. 7384-92 9 p.

Inflammatory cytokines in experimental and human stroke

Lambertsen, K. L., Biber, K. & Finsen, B., 2012, In: Journal of Cerebral Blood Flow and Metabolism. 32, 9, p. 1677-1698

The acyl-CoA binding protein is required for normal epidermal barrier function in mice

Bloksgaard, M., Bek, S., Marcher, A.-B., Neess, D., Brewer, J., Hannibal-Bach, H. K., Helledie, T., Fenger, C., Due, M., Berzina, Z., Neubert, R., Chemnitz, J., Finsen, B., Clemmensen, A., Wilbertz, J., Saxtorph, H., Knudsen, J., Bagatolli, L. & Mandrup, S., 2012, In: Journal of Lipid Research. 53, 10, p. 2162-74 13 p.

Differences in origin of reactive microglia in bone marrow chimeric mouse and rat after transient global ischemia

Lambertsen, K. L., Deierborg, T., Gregersen, R., Clausen, B. H., Wirenfeldt, M., Nielsen, H. H., Dalmau, I., Diemer, N. H., Dagnaes-Hansen, F., Johansen, F. F., Keating, A. & Finsen, B., Jun 2011, In: Journal of Neuropathology & Experimental Neurology. 70, 6, p. 481-94 14 p.

Disruption of the acyl-coa binding protein gene delays hepatic adaptation to metabolic changes at weaning

Neess, D., Bloksgaard, M., Sørensen, S. B., Marcher, A.-B., Elle, I. C., Helledie, T., Due, M., Pagmantidis, V., Finsen, B., Wilbertz, J., Kruhoeffter, M., Faergeman, N. & Mandrup, S., 2011, In: Journal of Biological Chemistry. 286, p. 3460-3472

Innate immune responses in central nervous system inflammation

Finsen, B. & Owens, T., 2011, In: FEBS Letters. 585, 23, p. 3606-3612

Stimulation of adult oligodendrogenesis by myelin-specific T cells

Hvilsted Nielsen, H., Toft-Hansen, H., Lambertsen, K. L., Owens, T. & Finsen, B., 2011, In: The American Journal of Pathology. 179, 4, p. 2028-41 14 p.

CSF transthyretin neuroprotection in a mouse model of brain ischemia

Santos, S. D., Lambertsen, K. L., Clausen, B. H., Akinc, A., Alvarez, R., Finsen, B. & Saraiva, M. J., 1. Dec 2010, In: *Journal of Neurochemistry*. 115, 6, p. 1434-44 11 p.

Axonal plasticity elicits long-term changes in oligodendroglia and myelinated fibers

Drøjdahl, N., Nielsen, H. H., Gardi, J. E., Wree, A., Peterson, A. C., Nyengaard, J. R., Eyer, J. & Finsen, B., 1. Jan 2010, In: *Glia*. 58, 1, p. 29-42 13 p.

The postischemic environment differentially impacts teratoma or tumor formation after transplantation of human embryonic stem cell-derived neural progenitors

Seminatore, C., Polentes, J., Ellman, D., Kozubenko, N., Itier, V., Tine, S., Tritschler, L., Brenot, M., Guidou, E., Blondeau, J., Lhuillier, M., Bugi, A., Aubry, L., Jendelova, P., Sykova, E., Perrier, A. L., Finsen, B. & Onteniente, B., 1. Jan 2010, In: *Stroke*. 41, 1, p. 153-9 7 p.

Expression and role of CXCL10 during the encephalitic stage of experimental and clinical African trypanosomiasis

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An empirical analysis of the precision of estimating the numbers of neurons and glia in human neocortex using a fractionator-design with sub-sampling

Lyck, L., Santamaria, I. D., Pakkenberg, B., Chemnitz, J., Schrøder, H. D., Finsen, B. & Gundersen, H. J. G., 15. Sept 2009, In: *Journal of Neuroscience Methods*. 182, 2, p. 143-56 13 p.

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PET Centre and Centre for Functionally Integrative Neuroscience, Aarhus University

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A specific and sensitive method for visualization of tumor necrosis factor in the murine central nervous system

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Gregersen, R., Christensen, T., Lehrmann, E., Diemer, N. H. & Finsen, B., 2001, In: Experimental Brain Research. 138, p. 384-392

Increased synthesis of heparin affin regulatory peptide in the perforant path lesioned mouse hippocampal formation
Poulsen, F. R., Lagord, C., Courty, J., Pedersen, E. B., Barritault, D. & Finsen, B., Dec 2000, In: Experimental Brain Research. 135, 3, p. 319-30 12 p.

IFN γ enhances microglial reactions to hippocampal axonal degeneration.

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Microglia and macrophages are the major source of tumor necrosis factor in permanent middle cerebral artery occlusion in mice

Gregersen, R., Lambertsen, K. & Finsen, B., 2000, In: Journal of Cerebral Blood Flow and Metabolism. 20, p. 53-65

No changes in dopamine D1 receptor mRNA expressing neurons in the dorsal striatum of rat with oral movements induced by long-term haloperidol administration

Petersen, R., Finsen, B., Andreassen, O. A., Zimmer, J. & Jørgensen, H. A., 2000, In: Brain Research. 859, p. 394-397

Reduced number of striatal neurons expressing preprosomatostatin mRNA in rats with oral dyskinesias after long-term haloperidol administration

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Association between haloperidol-induced oral dyskinesia and reduced number of striatal neurons expressing enkephalin mRNA in rats

Andreassen, O. A., Finsen, B., Østergaard, K., Sørensen, J. C. & Jørgensen, H., 1999, In: Neuroscience. 1, p. 27-35

Axotomy-induced Glial Reactions in Normal and Cytokine Transgenic Mice: The Function of Glial Cells in Health and Disease: Dialogue between Glia and Neurons

Finsen, B., Jensen, M. B., Lomholt, N. D., Hegelund, I. V., Rom Poulsen, F. & Owens, T., 1999, In: Advances in Experimental Medicine and Biology. 468, p. 157-71 14 p.

Lack of effect of short-term depletion of plasma complement C3 on the survival of syngeneic dopaminergic neurons following grafting into the intact rat striatum

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μ FKBP38: A novel murine immunophilin homolog differentially expressed in malignant schwannoma cells and central nervous system neurons in vivo

Pedersen, M. K., Finsen, B., Celis, J. E. & Jensen, N. A., 1999, In: Electrophoresis. 20, p. 249-255

In situ hybridization for somatostatin mRNA in the adult rat: cingulate, insular, prepiriform, perirhinal, entorhinal, and retrosplenial cortical regions

Finsen, B., Garrett, B. & Wree, A., Apr 1996, In: Brain Structure & Function. 193, 4, p. 387-395

Organotypic slice cultures of the rat striatum: an immunocytochemical, histochemical and in situ hybridization study of somatostatin, neuropeptide Y, nicotinamide adenine dinucleotide phosphate-diaphorase, and enkephalin

Rasmussen, J. Z., Finsen, B. & Østergaard, K., 1. Jan 1995, In: Experimental Brain Research. 103, 1, p. 70-84

Prevention of mouse-rat brain xenograft rejection by a combination therapy of cyclosporin A, prednisolone and azathioprine

Pedersen, E. B., Poulsen, F. R., Zimmer, J. & Finsen, B., 1995, In: Experimental Brain Research. 106, 2, p. 181-6 6 p.

Activities

Innate microglia in Alzheimer's disease

Finsen, B. (Keynote speaker)

15. Nov 2019

Lecture on 'Neurobiology of AD'

Finsen, B. (Guest lecturer)

29. Aug 2019

Posterpresentation

Finsen, B. (Other)

10. Jul 2019 → 13. Jul 2019

1st Immunology and inflammation Conference

Finsen, B. (Keynote speaker)

24. Mar 2019 → 26. Mar 2019

Perspektivering af artiklen: 'Nøglen til at fremme myelindannelse er fundet'

Finsen, B. (Lecturer)

30. Jan 2019

Cold Spring Harbor Asia Conference

Finsen, B. (Keynote speaker)

3. Dec 2018 → 7. Dec 2018

Foredrag

Finsen, B. (Keynote speaker)

26. Sept 2018

Seminar

Finsen, B. (Lecturer)

6. Sept 2018

Systemic Inflammation induces Changes in Microglial Disease Associated Proteins and Mitigates Amyloid Pathology in APP/PS1 Transgenic Mice

Finsen, B. (Participant)

28. Aug 2018

Undervisning på SDC

Finsen, B. (Guest lecturer)
3. Jun 2018

10th Translational Research Meeting on Neurological Diseases

Finsen, B. (Participant)
25. May 2018

Inflammatory cytokines, metabolism and neurodegenerative disorders, Annual Meeting

Finsen, B. (Participant)
14. May 2018 → 15. May 2018

Scleroseforeningens Fondsdeltagermøde

Finsen, B. (Participant)
3. May 2018

Scleroseforeningens Fondsdeltagermøde

Finsen, B. (Participant)
25. Apr 2018

Effect of paroxetine treatment on established amyloid pathology in the APP^{swe}/PS1 Δ E9 mouse model of Alzheimer's disease

Finsen, B. (Other), Sivasaravanaparan, M. (Other), Severino, M. (Other), Olesen, L. Ø. (Other), Metaxas, A. (Other), Bouzinova, E. (Other), Babcock, A. (Other), Hasselstrøm, J. (Other), Gramsbergen, J. B. (Other) & Wiborg, O. (Other)
11. Nov 2017

Modeling progressive cognitive impairment in APP^{swe}/PS1 Δ E9 mice by using the Barnes maze test

Metaxas, A. (Speaker), Vaitheeswaran, R. (Other), Li, S. (Other), Lambertsen, K. L. (Other) & Finsen, B. (Other)
11. Nov 2017

XIII European Meeting on Glial Cells in Health and Disease

Finsen, B. (Participant)
8. Jul 2017 → 11. Jul 2017

Neuroimmunology Workshop

Finsen, B. (Organizer)
30. May 2017

post-transkriptionel regulering af tumor nekrose faktor og ander mikroglia-producerede cytokiner

Finsen, B. (Guest lecturer)
8. May 2017

Post-transkriptionel regulering af tumor nekrose faktor og andre mikroglia-producerede cytokiner'.

Finsen, B. (Guest lecturer)
8. May 2017

MSc course in Neuroimmunology & Inflammation

Finsen, B. (Organizer)
3. May 2017

10th FENS Forum of Neuroscience

Finsen, B. (Participant)
2. Jul 2016 → 6. Jul 2016

Danish-Israeli Ressearch Network on Neuroimmunologi

Finsen, B. (Participant)

9. Dec 2015

Neurobiology of AD

Finsen, B. (Participant)

26. Aug 2015

ADEX (External organisation)

Finsen, B. (Member)

10. Jun 2015

Finnish Neuroimmunological Society

Finsen, B. (Participant)

4. Jun 2015 → 5. Jun 2015

DAREMUS, Dansk Selskab for Forskning i Multipel Sklerose

Finsen, B. (Participant)

27. May 2015

Ukendt (External organisation)

Finsen, B. (Participant)

23. Mar 2015

Understanding the brain through the hippocampus

Finsen, B. (Participant)

5. Dec 2014

12th International Congress of Neuroimmunology, Mainz, Germany.

Finsen, B. (Participant)

9. Nov 2014 → 13. Nov 2014

Brain Research towards Medhanisms and Treatments of Neurodegenerative Diseases

Finsen, B. (Participant)

19. May 2014

XXVIII Sandbjerg Symposium

Finsen, B. (Participant)

4. May 2014 → 6. May 2014

SDC Life Sciences

Finsen, B. (Participant)

26. Feb 2014

MS Symposium 2014

Finsen, B. (Participant)

16. Jan 2014

Cell biology of remyelination

Finsen, B. (Lecturer)

3. Oct 2013

Ukendt (External organisation)

Finsen, B. (Participant)

11. Sept 2013 → 27. Sept 2013

Ukendt (External organisation)

Finsen, B. (Participant)

11. Sept 2013 → 27. Sept 2013

University of Southern Denmark (External organisation)

Finsen, B. (Member)

11. Sept 2013 → 27. Sept 2013

Research in Alzheimer's disease and other neurodegenerative dementias: Neurobiology of AD I and Neurobiology AD II

Finsen, B. (Participant)

27. Aug 2013 → 30. Aug 2013

XI European Meeting on Glial Cells in Health and Disease (GLIA 2013) July 3 – 6 2013, Berlin, Germany

Finsen, B. (Participant)

3. Jun 2013 → 6. Jun 2013

Multiple Sclerosis Meeting 2013

Finsen, B. (Speaker)

16. May 2013

3rd Venusberg Meeting on Neuroinflammation, Mechanisms, Clinics

Finsen, B. (Participant)

28. Feb 2013 → 2. Mar 2013

Stimulation of adult oligodendrogenesis by myelin-specific T cells

Finsen, B. (Lecturer)

17. Jan 2013

Alzheimers - når hjernen falder fra hinanden: Hvorfor hjernen falder fra hinanden

Finsen, B. (Lecturer)

12. Nov 2012

Danish Scientific Advisory Board (External organisation)

Finsen, B. (Member)

29. Aug 2012

menneskets hjernebark - fra struktur til funktion.

Finsen, B. (Lecturer)

29. Aug 2012

Neurobiology of Alzheimer's disease

Finsen, B. (Lecturer)

29. Aug 2012

Neuroinflammation in Alzheimers Disease

Finsen, B. (Lecturer)

29. Aug 2012

Innate immunity in Alzheimer's and depression. Psykiatrisk Videncenter, Århus Universitetshospital

Finsen, B. (Lecturer)

16. May 2012

XXVI Sandbjerg Symposium

Finsen, B. (Participant)

7. May 2012 → 8. May 2012

Understanding the brain through the hippocampus: Microglia - biology and disease involvement

Finsen, B. (Other)

8. Dec 2011

Ph.D. Bedømmelsesudvalg (External organisation)

Finsen, B. (Member)

23. Aug 2011

Alzheimer's Association International Conference 2011

Finsen, B. (Participant)

16. Jul 2011 → 21. Jul 2011

Alzheimer's Association International Conference 2011

Finsen, B. (Participant)

16. Jul 2011 → 21. Jul 2011

Expression of IL-1b and TNF in Alzheimer's Pathology in Mice

Finsen, B. (Lecturer)

16. Jul 2011 → 21. Jul 2011

Postgraduate course, Aarhus University

Finsen, B. (Participant)

15. Jun 2011

Københavns Universitet (External organisation)

Finsen, B. (Member)

29. Oct 2010

Press/Media

7,5 millioner til forskning i sclerose

Finsen, B.

31/05/2023

1 Media contribution

Bente Finsen: Jeg håber på at kunne bidrage med at udvælge den forskning, der er bedst og har de største perspektiver indenfor sclerose

Finsen, B.

16/04/2021

1 Media contribution

Berømt Alzheimer-forskning anklaget for manipulation - skal vi omskrive lærebøgerne om sygdommen?

Finsen, B.

31/08/2022

1 Media contribution

Das Immunsystem im Fokus

Finsen, B.

25/02/2019

1 Media contribution

Das Immunsystem im Fokus

Finsen, B.

25/02/2019

1 Media contribution

I MORGEN

Finsen, B.

16/03/2021

1 Media contribution

På kostskolen fandt hun en familie Prinsesse Benedikte uddeler forskerpriser

Finsen, B.

25/09/2020

1 Media contribution

PRM / 7,5 millioner til forskning i sclerose

Finsen, B.

31/05/2023

1 Media contribution

PRM / 7,5 millioner til forskning i sclerose

Finsen, B.

31/05/2023

1 Media contribution

Prominent Alzheimers-forskning anklaget for fusk

Finsen, B.

31/08/2022

1 Media contribution

Prominent Alzheimers-forskning anklaget for fusk

Finsen, B.

31/08/2022

1 Media contribution

RUNDE FØDSELSDAGE ONSDAG DEN 17. MARTS

Finsen, B.

17/03/2021

1 Media contribution

Scleroseforeningen uddeler 7,5 mio. til 20 forskningsprojekter

Finsen, B.

25/10/2021

1 Media contribution

SDU giver millioner til egen forskning

Bozhevolnyi, S. I., Vaupel, J. W., Stentoft, J., Albæk, E., Mai, A.-M., Andersen, L. B., Ulven, T., Finsen, B., Hallam, J., Mollenhauer, J., Kroløkke, C., Mandrup, S., Østerdal, L. P. R. & Kjelstrup-Hansen, J.

05/07/2013

1 item of Media coverage

Virker diætbehandling mod multipel sklerose?

Finsen, B.

13/06/2016

1 item of Media coverage

Teaching and supervision

Association between microglial markers of neuroinflammation and the translocator protein TSPO in neocortical tissue of patients with Alzheimer's disease (AD).

Metaxas, A. & Finsen, B.
01/02/2017 → 24/06/2017

Barnes maze assessment of spatial learning and memory in ageing APP^{swe}/PS1 Δ E9 mice: Association with β -amyloid, tau, and synaptic pathology

Metaxas, A. & Finsen, B.
01/09/2017 → 01/06/2018

Co-localization of the translocator protein TSPO with markers of microglial cells, proinflammatory cytokines, and Alzheimer's disease (AD) pathology in human brain tissue.

Metaxas, A. & Finsen, B.
01/09/2017 → 29/12/2017

Evolution of neurofibrillary pathology in the brain of APP swe PS1 Δ E9 mice

Metaxas, A. & Finsen, B.
01/02/2016 → 31/07/2016

Examination of Amyloid beta plaques, microglia and SERT in the brain stem of APP swe PS1 Δ E9 mice

Metaxas, A. & Finsen, B.
01/09/2015 → 04/01/2016

Expression of the 5-Hydroxytryptamine receptor 2B (5-HTR2B) by microglia in Alzheimer's disease

Metaxas, A. & Finsen, B.
01/02/2019 → 01/01/2020

Modulation of learning and memory by TNF-dependent mechanisms

Metaxas, A. & Finsen, B.
01/09/2017 → 01/06/2018

Modul B9: Hjerne og Sanser

Metaxas, A. & Finsen, B.
28/01/2019 → 21/03/2019

Modul B9: Hjerne og Sanser

Metaxas, A. & Finsen, B.
02/09/2019 → 29/10/2019

Radioligand binding studies of 5-hydroxytryptamine (5-HT) 2B receptors in porcine forebrain tissue, and microglial cells

Metaxas, A. & Finsen, B.
01/02/2019 → 31/07/2019

Role of pro-inflammatory cytokines in regulating the anti-amyloid efficacy of Selective Serotonin Reuptake Inhibitors (SSRIs)

Metaxas, A. & Finsen, B.
01/02/2016 → 31/07/2016

Role of pro-inflammatory cytokines in regulating the anti-amyloid efficacy of Selective Serotonin Reuptake Inhibitors (SSRIs)

Metaxas, A. & Finsen, B.
01/06/2017 → 29/12/2017

The Barnes maze test reveals spatial memory deficits in 12-months old APP/PS1 mice

Metaxas, A. & Finsen, B.
01/03/2016 → 30/04/2016