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Areas of Expertise

Professor Edvinsson is leading expert in the field of cerebral circulation. He is world-recognized for his work on vascular innervation and receptor regulation. His extensive research has been a major contributor to what is known about the roles of the cerebral vasculature in health and diseases such as stroke and primary headaches. He has been a pioneer in elucidating the function of neuropeptides in the vascular system and a key player in the research and development of CGRP blockers for treatment of migraine. Professor Edvinsson also has a strong clinical background as a clinical pharmacologist and an MD in internal medicine.

Method Expertise: Immunohistochemistry, qPCR, Western blot, molecular biology of cell signaling, mRNA arrays, proteomics, cell and organ cultures, animal models for acute stroke and acute myocardial infarcts, pharmacology and treatment methods, string myography and perfusion myography for receptor and functional studies of isolated blood vessels.

Education/Training

University of Lund, Sweden
1975 DMSci
1980 M.D.
1985 Specialist in Clinical Pharmacology
1988 Specialist in Internal Medicine

Positions and Employment

University of Copenhagen, Denmark
2007-ongoing Director and founder, Glostrup Research Institute, Copenhagen University Hospital
1997-ongoing Chairman, Dept. Experimental Clinical Research, Glostrup Research Institute
2011-2016 Director, Center of Excellence in Stroke Research (supported by Lundbeck Foundation), Copenhagen University, Glostrup Research Institute
2008-ongoing Professor in Receptor Regulation in Cerebrovascular and Cardiovascular Diseases, Faculty of Health and Medical Sciences
University of Lund, Sweden
2002-ongoing Professor in Internal Medicine, Faculty of Medicine
1985-Director, Experimental Vascular Research Laboratory, Biomedical Center
1988-Specialist in Internal Medicine, Lund University Hospital
2009-ongoing Member, Human Ethics Committee
1996-2002 Associate Professor in Internal Medicine
1988-1996 Lecturer, University of Lund
1983-2003 Vice-Chair, Member, Animal Ethics Committee, Lund University
Adjunct Positions
2004-Adjunct Professor, Basic and Translational Research Institute, Xian University, Xian, China
1990-Adjunct Professor in Pharmacology, Southern Illinois University, Illinois, USA
1990-1995 Professor II in Neuroscience (20%), Trondheim University, Norway

Honors and Awards

2022 Honorary doctorate in France (Paris), Hungary (Szeged) and China (Xian).
2021 Winner of the Brain Prize, largest neuroscience award globally.
2014-2016 Elected Trustee and Director, International Headache Society
2013-Member, Steering Board, European Headache Federation
2012 Lifetime Achievement Award, American Headache Society
2012 Honorary Doctorate, University of Szeged, Hungary
2008-2011 Bland Lane International Distinguished Professor Award, FAMRI, USA
2002-Honorary Fellow, British Pharmacology Society
1985-Honorary Fellow, Stroke Council, American Heart Association

Professional Recognition

Over the last 3 decades, Dr. Edvinsson has been invited yearly to international congresses and meetings as well as to universities worldwide to give lectures and keynote presentations. Most recently, he was recognized by American headache leaders with a Lifetime Achievement Award for Research (Boston, 2012).

Received an Honorary Doctorate from Szeged University, Hungary (2012) and at Xián University, China (2013).

- Over 1095 peer-reviewed research publications.
- 128 book chapters.
- Over 100 international scientific lectures as invited/key-note speaker.
- Member scientific society boards and organizer of symposia and meetings throughout career.

Research Management and Team Leader Experience

I started as a team leader in 1976 with my first PhD students. In 1980 I got my first laboratory at the University Hospital in Lund which was supported by the Swedish Research Council and the Heart and Lung Foundation. This was expanded in 1985 to several laboratories and offices located at the Experimental Department, Lund University. In 1988 the laboratory relocated to Lund University Hospital and then it moved to the Biomedical Center when it opened in 2000; this is my current laboratory in Lund. In parallel I was responsible for organizing and building the Glostrup Research Park in Copenhagen which opened under my leadership in 2007.

Student Mentoring

1978-Supervisor for 52 PhD and 20 Masters Students (graduated) and 8 PhD and 4 Masters Students (in progress) at University of Copenhagen and University of Lund.

Evaluator of over 20 Masters, PhD and DMSci theses in Denmark and internationally

Supervisor for over 25 postdoctoral students from Denmark and recruited internationally (Sweden, England, Scotland, France, Hungary, USA, Canada, Mexico, Chile, Japan, China, Pakistan, India)

Grant Awards

Research projects and student support have been continuously funded since 1975.

Current research and student support at Glostrup Research Institute funded by grants from the Danish Medical Research Council; Danish Agency for Science, Technology and Innovation; The Lundbeck Foundation with two major grants (the LUCENS group 2005-2014; Center of Excellence in Stroke 2011-2016), EU, and the Novo Nordisk Foundation.

Bibliometry

H-index in Web of Science = 94

Citations in total = 43.068 (2025)

Citations latest 10 years per year = 1000/year

Articles in total = 1119

Publications

Switching Off Vascular MAPK Signaling: A Novel Strategy to Prevent Delayed Cerebral Ischemia Following Subarachnoid Hemorrhage

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Revisiting substance P in migraine: a methodological approach inspired by anti-CGRP and anti-PACAP success

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Male-female comparison of vasomotor effects of circulating hormones in human intracranial arteries

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Edvinsson, L., dec. 2024, I: Expert Review of Neurotherapeutics. 24, 12, s. 1141-1155 15 s.

Sex differences in expression of CGRP family of receptors and ligands in the rat trigeminal system

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Pituitary cyclase-activating polypeptide targeted treatments for the treatment of primary headache disorders
Karsan, N., Edvinsson, L., Vecsei, L. & Goadsby, P. J., jul. 2024, I: Annals of Clinical and Translational Neurology. 11, 7, s. 1654-1668 15 s.

The impact of the migraine treatment onabotulinumtoxinA on inflammatory and pain responses: Insights from an animal model

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MERTK in the rat trigeminal system: a potential novel target for cluster headache?

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Protein kinase C-inhibition reduces critical weight loss and improves functional outcome after experimental subarachnoid haemorrhage

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The history and rationale of the development of new drugs for migraine treatment

Kowacs, P. A., Sampaio Rocha-Filho, P. A., Peres, M. F. P. & Edvinsson, L., dec. 2023, I: Arquivos de neuro-psiquiatria. 81, 12, s. 1084-1097 14 s.

Progesterone distribution in the trigeminal system and its role to modulate sensory neurotransmission: influence of sex

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Preliminary evidence that blocking the uptake of placenta-derived preeclamptic extracellular vesicles protects the vascular endothelium and prevents vasoconstriction

Erlandsson, L., Ohlsson, L., Masoumi, Z., Rehnström, M., Cronqvist, T., Edvinsson, L. & Hansson, S. R., 27 okt. 2023, I: Scientific Reports. 13, 1, s. 18425 18425.

Atogepant, the first oral preventive treatment for chronic migraine

Haanes, K. A. & Edvinsson, L., 2 sep. 2023, I: Lancet. 402, 10404, s. 748-749 2 s.

Heterogeneous vasomotor responses in segments from Göttingen Minipigs coronary, cerebral, and mesenteric artery: A comparative study

Sams, A., Haanes, K. A., Holm, A., Kazantzi, S., Mikkelsen, L. F., Edvinsson, L., Brain, S. & Sheykhzade, M., 2023, I: Vascular Pharmacology. 153, 11 s., 107231.

Rodent behavior following a dural inflammation model with anti-CGRP migraine medication treatment

Reducha, P. V., Bömers, J. P., Edvinsson, L. & Haanes, K. A., 2023, I: Frontiers in Neurology. 14, 1082176.

Expression of vasopressin and its receptors in migraine-related regions in CNS and the trigeminal system: influence of sex

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The MEK Inhibitor Trametinib Improves Outcomes following Subarachnoid Haemorrhage in Female Rats

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Calcitonin gene-related peptide (CGRP) is a key molecule released in acute migraine attacks- successful translation of basic science to clinical practice

Edvinsson, L., okt. 2022, I: Journal of Internal Medicine. 292, 4, s. 575-586 12 s.

Myocardial perfusion recovery induced by an α -calcitonin gene-related peptide analogue

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Could Experimental Inflammation Provide Better Understanding of Migraines?

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Identifying molecular targets in trigeminal nociception

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Repair-related molecular changes during recovery phase of ischemic stroke in female rats

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Changes in P2Y6 receptor-mediated vasoreactivity following focal and global ischemia

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Dual action of the cannabinoid receptor 1 ligand arachidonyl-2'-chloroethylamide on calcitonin gene-related peptide release

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Lasmiditan and 5-Hydroxytryptamine in the rat trigeminal system; expression, release and interactions with 5-HT1 receptors

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Advances in migraine and headache therapy (BJP 75th anniversary)

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Ovariectomy reduces vasocontractile responses of rat middle cerebral arteries after focal cerebral ischemia

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Molecular and Cellular Mechanisms of CGRP Antagonists

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Neuropeptides and the Nodes of Ranvier in Cranial Headaches

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Update on Old and Current Targets for Antimigraine Therapies

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Neurokinins and their receptors in the rat trigeminal system: Differential localization and release with implications for migraine pain

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Burden and attitude to resistant and refractory migraine: a survey from the European Headache Federation with the endorsement of the European Migraine & Headache Alliance

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Hormonal influences in migraine - interactions of oestrogen, oxytocin and CGRP

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CGRP and migraine; from bench to bedside

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Pre-Chiasmatic, Single Injection of Autologous Blood to Induce Experimental Subarachnoid Hemorrhage in a Rat Model

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Subacute phase of subarachnoid haemorrhage in female rats: Increased intracranial pressure, vascular changes and impaired sensorimotor function

Spray, S., Haanes, K. A., Edvinsson, L. & Johansson, S. E., maj 2021, I: Microvascular Research. 135, s. 104127 12 s., 104127.

Identifying New Antimigraine Targets: Lessons from Molecular Biology

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Secondhand cigarette smoke induces increased expression of contractile endothelin receptors in rat coronary arteries via a MEK1/2 sensitive mechanism

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Oral rimegepant for migraine prevention

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Native CGRP Neuropeptide and Its Stable Analogue SAX, But Not CGRP Peptide Fragments, Inhibit Mucosal HIV-1 Transmission

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Transcriptome profiling revealed early vascular smooth muscle cell gene activation following focal ischemic stroke in female rats - comparisons with males

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Estrogen receptors α , β and GPER in the CNS and trigeminal system - molecular and functional aspects

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Differences in pituitary adenylate cyclase-activating peptide and calcitonin gene-related peptide release in the trigeminovascular system

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Oxytocin as a regulatory neuropeptide in the trigeminovascular system: Localization, expression and function of oxytocin and oxytocin receptors

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Expression of the CGRP Family of Neuropeptides and their Receptors in the Trigeminal Ganglion

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Serotonin and Neuropeptides in Blood From Episodic and Chronic Migraine and Cluster Headache Patients in Case-Control and Case-Crossover Settings: A Systematic Review and Meta-Analysis

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CGRP in rat mesenteric artery and vein - receptor expression, CGRP presence and potential roles

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Cellular distribution of PACAP-38 and PACAP receptors in the rat brain: Relation to migraine activated regions

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Increased mortality in elderly heart failure patients receiving infusion of furosemide compared to elderly heart failure patients receiving bolus injection

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