

Lars Edvinsson
Medicin/akutsjukvård, Lund
Experimentell kärlforskning
LTH profilområde: Avancerade ljuskällor
LU profilområde: Ljus och material
Adresstyp: Besöksadress.
Skånes universitetssjukhus, EA-blocket, plan 2
Rm BMC A1337, A1339
221 85
Lund
Sverige
Adresstyp: Postadress.
Skånes universitetssjukhus, EA-blocket, plan 2
22185
Lund
Sverige
Adresstyp: Besöksadress.
Universitetssjukhuset
Lund
Sverige
Adresstyp: Postadress.
22184
Lund
Sverige
E-post: lars.edvinsson@med.lu.se
Telefon: +4646171484



Forskning

Professor Edvinsson is leading expert in the field of (1) cerebral circulation and (2) migraine. 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 written the major textbook in the field; Cerebral Blood Flow & Metabolism (1993 Raven Press, 2002 Lippincott Williams Wilkins). In the field of headache he is now a president of The International Headache society. Recently, his groundbreaking work on the sensory system has resulted in new medicine being introduced small molecular CGRP-blockers for acute attacks and antibodies towards CGRP or CGRP-receptors as prophylaxis chronic migraine. 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.

Kvalifikationer

Internal Medicine, Specialist, Medicinska fakulteten

... → 1988

Tilldelningsdatum: 1988 jan. 1

Clinical Pharmacology, Specialist, Medicinska fakulteten

... → 1985

Tilldelningsdatum: 1985 jan. 1

Medicine, MD, Medicinska fakulteten

... → 1980

Tilldelningsdatum: 1980 jan. 1

Medicine, DMSGI, Neurogenic mechanisms in cerebrovascular bed, Medicinska fakulteten

... → 1975

Tilldelningsdatum: 1975 jan. 1

Anställning

Handledare, Professor, Principal Investigator

Medicin/akutsjukvård, Lund

Lunds universitet

Lund, Sverige

2016 jan. 27 → present

Projektledare

Experimentell kärlforskning
Lunds universitet
Lund, Sverige
2016 juni 27 → present

Profilområdesmedlem

LTH profilområde: Avancerade ljuskällor
Lunds universitet
Sverige
2022 sep. 14 → present

Profilområdesmedlem

LU profilområde: Ljus och material
Lunds universitet
Sverige
2023 jan. 1 → present

Director, Center of Excellence in Stroke Research

Copenhagen University Hospital
Copenhagen, Danmark
2011 jan. 1 → present

Professor in Receptor Regulation Cerebrovascular and Cardiovascular Diseases

Copenhagen University Hospital
Copenhagen, Danmark
2008 jan. 1 → present

Director and founder, Glostrup Research Institute

Copenhagen University Hospital
Copenhagen, Danmark
2007 jan. 1 → present

Forskningsoutput

Gepants

Edvinsson, L., 2025, *Migraine Pain Management: Current Pharmacological and Non-pharmacological Options*. Elsevier, s. 295-304 10 s.

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

Pellesi, L. & Edvinsson, L., 2025, I: *Journal of Headache and Pain*. 26, 1, 22.

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

Edvinsson, L. & Krause, D. N., 2025, I: *Translational Stroke Research*. 16, s. 952-961

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

Edvinsson, J. C. A., Grubor, I., Maddahi, A. & Edvinsson, L., 2024 dec. 11, I: *Journal of Headache and Pain*. 25, 216.

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

Edvinsson, J. C. A., Ran, C., Olofsgård, F. J., Steinberg, A., Edvinsson, L. & Belin, A. C., 2024 dec., I: *Journal of Headache and Pain*. 25, 1, 85.

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

Maddahi, A., Edvinsson, J. C. A. & Edvinsson, L., 2024 dec., I: *Journal of Headache and Pain*. 25, 1, 193.

Pituitary cyclase-activating polypeptide targeted treatments for the treatment of primary headache disorders

Karsan, N., Edvinsson, L., Vecsei, L. & Goadsby, P. J., 2024 juli, I: *Annals of Clinical and Translational Neurology*. 11, 7, s. 1654-1668 15 s.

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

Bömers, J. P., Holm, A., Kazantzi, S., Edvinsson, L., Mathiesen, T. I. & Haanes, K. A., 2024 juli, I: *Journal of Stroke and Cerebrovascular Diseases*. 33, 7, 107728.

Rimegepant for the acute and preventive treatment of migraine: a narrative review of the evidence

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

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., 2023 dec., I: *Scientific Reports*. 13, 1, 18425.

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

Maddahi, A., Warfvinge, K., Holm, A., Edvinsson, J. C. A., Reducha, P. V., Kazantzi, S., Haanes, K. A. & Edvinsson, L., 2023 dec., I: *Journal of Headache and Pain*. 24, 1, 154.

Amine mechanisms in brain vessels, with particular regard to autonomic innervation and blood-brain barrier

Owman, C., Edvinsson, L., Falck, B. & Nielsen, K. C., 2023, *Pathology of Cerebral Microcirculation*. Mouton de Gruyter, s. 184-200 17 s.

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

Christiansen, I. M., Edvinsson, J. C. A., Reducha, P. V., Edvinsson, L. & Haanes, K. A., 2022 dec., I: *Journal of Headache and Pain*. 23, 30.

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

Mostajeran, M., Edvinsson, L., Ahnstedt, H., Arkelius, K. & Ansar, S., 2022 dec., I: *BMC Neuroscience*. 23, 1, 23.

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

Bömers, J. P., Grell, A. S., Edvinsson, L., Johansson, S. E. & Haanes, K. A., 2022 dec., I: *Pharmaceuticals*. 15, 12, 1446.

Could Experimental Inflammation Provide Better Understanding of Migraines?

Reducha, P. V., Edvinsson, L. & Haanes, K. A., 2022 aug., I: *Cells*. 11, 15, 2444.

Neuropeptides and the Nodes of Ranvier in Cranial Headaches

Edvinsson, J. C. A., Haanes, K. A. & Edvinsson, L., 2022 jan., I: *Frontiers in Physiology*. 12, 820037.

Biological and small molecule strategies in migraine therapy with relation to the CGRP family of peptides

Edvinsson, L., Edvinsson, J. C. A. & Haanes, K. A., 2022, I: *British Journal of Pharmacology*. 179, 3, s. 371-380

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

Erdling, A., Johansson, S. E., Radziwon-Balicka, A., Ansar, S. & Edvinsson, L., 2022, I: *Physiological Reports*. 10, 8, e15283.

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

Edvinsson, J. C. A., Maddahi, A., Christiansen, I. M., Reducha, P. V., Warfvinge, K., Sheykhzade, M., Edvinsson, L. & Haanes, K. A., 2022, I: Journal of Headache and Pain. 23, 1, 26.

Ovariectomy Reduces Vasocontractile Responses of Rat Middle Cerebral Arteries After Focal Cerebral Ischemia

Rehnström, M., Ahnstedt, H., Krause, D. N., Edvinsson, M. L., Haanes, K. A. & Edvinsson, L., 2022, I: Journal of Cardiovascular Pharmacology. 79, 1, s. e122-e128

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

Edvinsson, J. C. A., Reducha, P. V., Sheykhzade, M., Warfvinge, K., Haanes, K. A. & Edvinsson, L., 2021 dec., I: Molecular Pain. 17

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

Krause, D. N., Warfvinge, K., Haanes, K. A. & Edvinsson, L., 2021 okt., I: Nature Reviews Neurology. 17, 10, s. 621-633
13 s.

Pre-chiasmatic, single injection of autologous blood to induce experimental subarachnoid hemorrhage in a rat model

Bömers, J. P., Johansson, S. E., Edvinsson, L., Mathiesen, T. I. & Haanes, K. A., 2021 juni, I: Journal of Visualized Experiments. 2021, 172, e62567.

CGRP and migraine; from bench to bedside

Edvinsson, L., 2021, I: Revue Neurologique. 177, 7, s. 785-790

Identifying New Antimigraine Targets: Lessons from Molecular Biology

Edvinsson, L. & Haanes, K. A., 2021, I: Trends in Pharmacological Sciences. 42, 4, s. 217-225

Oral rimegepant for migraine prevention

Edvinsson, L., 2021, I: The Lancet. 397, 10268, s. 4-5 2 s.

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

Cao, L., Lindstedt, I., Edvinsson, M. L., Ping, N. N., Cao, Y. X. & Edvinsson, L., 2021, I: Scandinavian Cardiovascular Journal. 55, 1, s. 50-55

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., 2021, I: Microvascular Research. 135, 104127.

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

Edvinsson, J. C. A., Grell, A. S., Warfvinge, K., Sheykhzade, M., Edvinsson, L. & Haanes, K. A., 2020 okt. 1, I: Cephalalgia. 40, 12, s. 1296-1309 14 s.

The effects of CGRP in vascular tissue - Classical vasodilation, shadowed effects and systemic dilemmas

Sohn, I., Sheykhzade, M., Edvinsson, L. & Sams, A., 2020 aug. 15, I: European Journal of Pharmacology. 881, 173205.

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

Frederiksen, S. D., Bekker-Nielsen Dunbar, M., Snoer, A. H., Deen, M. & Edvinsson, L., 2020 juni, I: Headache. 60, 6, s. 1132-1164 33 s.

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

Warfvinge, K. & Edvinsson, L., 2020 maj 1, I: Cephalalgia. 40, 6, s. 527-542 16 s.

Understanding side-effects of anti-CGRP and anti-CGRP receptor antibodies

Haanes, K. A., Edvinsson, L. & Sams, A., 2020 mars 16, I: Journal of Headache and Pain. 21, 1, 26.

Calcitonin gene-related peptide (CGRP) and cluster headache

Belin, A. C., Ran, C. & Edvinsson, L., 2020 jan. 6, I: Brain Sciences. 10, 1, 30.

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

Le, T. L., Grell, A. S., Sheykhzade, M., Warfvinge, K., Edvinsson, L. & Sams, A., 2020, I: European Journal of Pharmacology. 875, 173033.

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

Warfvinge, K., Krause, D. N., Maddahi, A., Edvinsson, J. C. A., Edvinsson, L. & Haanes, K. A., 2020, I: Journal of Headache and Pain. 21, 1, 131.

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

Sager, R., Lindstedt, I., Edvinsson, L. & Edvinsson, M. L., 2020, I: Journal of Geriatric Cardiology. 17, 6, s. 359-364 6 s.

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

Warfvinge, K., Krause, D. N., Maddahi, A., Grell, A. S., Edvinsson, J. C. A., Haanes, K. A. & Edvinsson, L., 2020, I: Cephalalgia. 40, 12, s. 1283-1295

Smoking and endothelial dysfunction

Golbidi, S., Edvinsson, L. & Laher, I., 2020, I: Current Vascular Pharmacology. 18, 1, s. 1-11 11 s.

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

Rehnström, M., Frederiksen, S. D., Ansar, S. & Edvinsson, L., 2020, I: BMC Genomics. 21, 1, 883.

Vancouver Declaration II on Global Headache Patient Advocacy 2019

Dodick, D. W., Ashina, M., Sakai, F., Grisold, W., Miyake, H., Henscheid-Lorenz, D., Craven, A., Ruiz de la Torre, E., Koh, R., Reznik, N., Bance, L., Leroux, E., Edvinsson, L. & International Headache Society Global Patient Advocacy Coalition, 2020, I: Cephalalgia. 40, 10, s. 1017-1025

C-fibers may modulate adjacent A δ -fibers through axon-axon CGRP signaling at nodes of Ranvier in the trigeminal system

Edvinsson, J. C. A., Warfvinge, K., Krause, D. N., Blixt, F. W., Sheykhzade, M., Edvinsson, L. & Haanes, K. A., 2019 nov. 12, I: Journal of Headache and Pain. 20, 1, 105.

Synergistic effects of a cremophor EL drug delivery system and its U0126 cargo in an ex vivo model

Christensen, S. T., Grell, A. S., Johansson, S. E., Andersson, C. M., Edvinsson, L. & Haanes, K. A., 2019 juli 5, I: Drug delivery. 26, 1, s. 680-688 9 s.

Does inflammation have a role in migraine?

Edvinsson, L., Haanes, K. A. & Warfvinge, K., 2019 juli 1, I: Nature Reviews Neurology.

The changing faces of migraine

Martelletti, P., Ashina, M. & Edvinsson, L., 2019 maj 10, I: Journal of Headache and Pain. 20, 1, 52.

MEK1/2 inhibitor U0126, but not nimodipine, reduces upregulation of cerebrovascular contractile receptors after subarachnoid haemorrhage in rats

Christensen, S. T., Johansson, S. E., Radziwon-Balicka, A., Warfvinge, K., Haanes, K. A. & Edvinsson, L., 2019 apr. 12, I: PLoS ONE. 14, 4, e0215398.

Discovery of CGRP in relation to migraine

Edvinsson, L. & Goadsby, P. J., 2019, I: Cephalalgia. 39, 3, s. 331-332 2 s.

Distribution of CGRP and CGRP receptor components in the rat brain

Warfvinge, K. & Edvinsson, L., 2019, I: Cephalalgia. 39, 3, s. 342-353 12 s.

Dr James Lance, Professor of Neurology in Sydney, Australia, died on 20 February 2019, age 92

Edvinsson, L., Evers, S. & Goadsby, P. J., 2019, I: Cephalalgia. 39, 5, s. 681-682 2 s.

Erenumab (AMG 334), a monoclonal antagonist antibody against the canonical CGRP receptor, does not impair vasodilatory or contractile responses to other vasoactive agents in human isolated cranial arteries

Ohlsson, L., Haanes, K. A., Kronvall, E., Xu, C., Snellman, J. & Edvinsson, L., 2019, I: Cephalalgia. 39, 14, s. 1745-1752

Exploration of Physiological and Pathophysiological Implications of miRNA-143 and miRNA-145 in Cerebral Arteries

Christensen, S. T., Johansson, S. E., Warfvinge, K., Braun, T., Boettger, T., Edvinsson, L. & Haanes, K. A., 2019, I: Journal of Cardiovascular Pharmacology. 74, 5, s. 409-419 11 s.

Exploration of purinergic receptors as potential anti-migraine targets using established pre-clinical migraine models

Haanes, K. A., Labastida-Ramírez, A., Blixt, F. W., Rubio-Beltrán, E., Dirven, C. M., Danser, A. H. J., Edvinsson, L. & MaassenVanDenBrink, A., 2019, I: Cephalalgia. 39, 11, s. 1421-1434

MEK/ERK1/2 sensitive vascular changes coincide with retinal functional deficit, following transient ophthalmic artery occlusion

Blixt, F. W., Haanes, K. A., Ohlsson, L., Dreisig, K., Fedulov, V., Warfvinge, K. & Edvinsson, L., 2019, I: Experimental Eye Research. 179, s. 142-149 8 s.

PAC1 receptor mRNA and protein distribution in rat and human trigeminal and sphenopalatine ganglia, spinal trigeminal nucleus and in dura mater

Hensley, K., Pretorius, J., Chan, B., Page, K., Liu, H., Choi, C., Shi, D., Xu, C., Edvinsson, L. & Miller, S., 2019, I: Cephalalgia. 39, 7, s. 827-840

Perivascular neurotransmitters: Regulation of cerebral blood flow and role in primary headaches

Frederiksen, S. D., Haanes, K. A., Warfvinge, K. & Edvinsson, L., 2019, I: Journal of Cerebral Blood Flow and Metabolism. 39, 4, s. 610-632

Pre-clinical effects of highly potent MEK1/2 inhibitors on rat cerebral vasculature after organ culture and subarachnoid haemorrhage

Christensen, S. T., Haanes, K. A., Spray, S., Grell, A. S., Warfvinge, K., Edvinsson, L. & Johansson, S. E., 2019, I: Clinical Science. 133, 16, s. 1797-1811 15 s.

Rimegepant oral disintegrating tablet for migraine

Edvinsson, L., 2019, I: The Lancet. 394, 10200, s. 711-712 2 s.

Role of cgrp in migraine

Edvinsson, L., 2019, *Handbook of Experimental Pharmacology*. Springer, s. 121-130 10 s. (Handbook of Experimental Pharmacology; vol. 255).

Shaping the future of migraine targeting Calcitonin-Gene-Related-Peptide with the Disease-Modifying Migraine Drugs (DMMDs)

Martelletti, P., Edvinsson, L. & Ashina, M., 2019, I: Journal of Headache and Pain. 20, 1, 60.

Some aspects on the pathophysiology of migraine and a review of device therapies for migraine and cluster headache

Rapoport, A. M. & Edvinsson, L., 2019, I: Neurological Sciences. 40, S1, s. 75-80

The Presence of Calcitonin Gene-Related Peptide and Its Receptors in Rat, Pig and Human Brain: Species Differences in Calcitonin Gene-Related Peptide Pharmacology

Warfvinge, K., Edvinsson, L., Pickering, D. S. & Sheykhzade, M., 2019, I: Pharmacology. 104, 5-6, s. 332-341

Vascular pathology of large cerebral arteries in experimental subarachnoid hemorrhage: Vasoconstriction, functional CGRP depletion and maintained CGRP sensitivity

Johansson, S. E., Abdolalizadeh, B., Sheykhzade, M., Edvinsson, L. & Sams, A., 2019, I: European Journal of Pharmacology. 846, s. 109-118 10 s.

Fremanezumab blocks CGRP induced dilatation in human cerebral, middle meningeal and abdominal arteries

Ohlsson, L., Kronvall, E., Stratton, J. & Edvinsson, L., 2018 aug. 14, I: Journal of Headache and Pain. 19, 1, 66.

PACAP38 and PAC₁ receptor blockade: a new target for headache?

Rubio-Beltrán, E., Correnti, E., Deen, M., Kamm, K., Kelderman, T., Papetti, L., Vigneri, S., MaassenVanDenBrink, A., Edvinsson, L. & European Headache Federation School of Advanced Studies (EHF-SAS), 2018 aug. 7, I: Journal of Headache and Pain. 19, 1, 1 s.

CGRP as the target of new migraine therapies — successful translation from bench to clinic

Edvinsson, L., Haanes, K. A., Warfvinge, K. & Krause, D. N., 2018 juni, I: Nature Reviews Neurology. 14, 6, s. 338-350

The CGRP Pathway in Migraine as a Viable Target for Therapies

Edvinsson, L., 2018 maj 1, I: Headache. 58, s. 33-47 15 s.

PACAP and its role in primary headaches

Edvinsson, L., Tajti, J., Szalárdy, L. & Vécsei, L., 2018 mars 9, I: Journal of Headache and Pain. 19, 1, 7 s., 21.

Headache advances in 2017: a new horizon in migraine therapy

Edvinsson, L., 2018 jan. 1, I: The Lancet Neurology. 17, 1, s. 5-6

Acute mitogen-activated protein kinase 1/2 inhibition improves functional recovery and vascular changes after ischaemic stroke in rat-monitored by 9.4 T magnetic resonance imaging

Mostajeran, M., Wetterling, F., Blixt, F. W., Edvinsson, L. & Ansar, S., 2018, I: Acta Physiologica. 223, 1, e12985.

CGRP Antibodies as Prophylaxis in Migraine

Edvinsson, L., 2018, I: Cell. 175, 7, s. 1719 1 s.

Contractile Responses in Spontaneously Hypertensive Rats after Transient Middle Cerebral Artery Occlusion

Grell, A. S., Mostajeran, M., Edvinsson, L. & Ansar, S., 2018, I: Pharmacology. 101, s. 120-132

Expression of Pituitary Adenylate Cyclase-activating Peptide, Calcitonin Gene-related Peptide and Headache Targets in the Trigeminal Ganglia of Rats and Humans

Frederiksen, S. D., Warfvinge, K., Ohlsson, L. & Edvinsson, L., 2018, I: Neuroscience. 393, s. 319-332 14 s.

Increased endothelin-1-mediated vasoconstriction after organ culture in rat and pig ocular arteries can be suppressed with MEK/ERK1/2 inhibitors

W Blixt, F., Kristian Haanes, A., Ohlsson, L., Tolstrup Christiansen, A., Warfvinge, K. & Edvinsson, L., 2018, I: Acta Ophthalmologica. 96, 5, s. e619-e625

Cerebrovascular Gene Expression in Spontaneously Hypertensive Rats After Transient Middle Cerebral Artery Occlusion
Grell, A. S., Mostajeran, M., Frederiksen, S. D., Edvinsson, L. & Ansar, S., 2017 dec. 26, I: *Neuroscience*. 367, s. 219-232
14 s.

Blocking CGRP in migraine patients – a review of pros and cons

Deen, M., Correnti, E., Kamm, K., Kelderman, T., Papetti, L., Rubio-Beltrán, E., Vigneri, S., Edvinsson, L. & Maassen Van Den Brink, A., 2017 dec. 1, I: *Journal of Headache and Pain*. 18, s. 1-9 96.

Differential inhibitory response to telcagepant on α CGRP induced vasorelaxation and intracellular Ca^{2+} levels in the perfused and non-perfused isolated rat middle cerebral artery

Erdling, A., Sheykhzade, M. & Edvinsson, L., 2017 dec. 1, I: *Journal of Headache and Pain*. 18, 1, s. 1-9 61.

Topical dura mater application of CFA induces enhanced expression of c-fos and glutamate in rat trigeminal nucleus caudalis: attenuated by KYNA derivate (SZR72)

Lukács, M., Warfvinge, K., Tajti, J., Fülöp, F., Toldi, J., Vécsei, L. & Edvinsson, L., 2017 dec. 1, I: *Journal of Headache and Pain*. 18, 1, 39.

A novel multicolor flow-cytometry application for quantitative detection of receptors on vascular smooth muscle cells

Radziwon-Balicka, A., Degn, M., Johansson, S. E., Warfvinge, K. & Edvinsson, L., 2017 okt. 1, I: *PLoS ONE*. 12, 10, e0186504.

Cerebrovascular gene expression in spontaneously hypertensive rats

Grell, A.-S., Frederiksen, S. D., Edvinsson, L. & Ansar, S., 2017 sep. 1, I: *PLoS ONE*. 12, 9, e0184233.

Distribution of CGRP and its receptor components CLR and RAMP1 in the rat retina

Blixt, F. W., Radziwon-Balicka, A., Edvinsson, L. & Warfvinge, K., 2017 aug. 1, I: *Experimental Eye Research*. 161, s. 124-131 8 s.

Migraine associated with altitude: results from a population-based study in Nepal

Linde, M., Edvinsson, L., Manandhar, K., Risal, A. & Steiner, T. J., 2017 aug. 1, I: *European Journal of Neurology*. 24, 8, s. 1055-1061 7 s.

The Trigeminovascular Pathway: Role of CGRP and CGRP Receptors in Migraine

Edvinsson, L., 2017 maj 1, I: *Headache*. 57, s. 47-55 9 s.

Perivascular Neurotransmitter Regulation of Cerebral Blood Flow

Edvinsson, L., 2017 mars 7, *Primer on Cerebrovascular Diseases: Second Edition*. Elsevier, s. 70-74 5 s.

Myocardial ischemia-reperfusion enhances transcriptional expression of endothelin-1 and vasoconstrictor ET_B receptors via the protein kinase MEK-ERK1/2 signaling pathway in rat

Skovsted, G. F., Kruse, L. S., Berchtold, L. A., Grell, A.-S., Warfvinge, K. & Edvinsson, L., 2017 mars 1, I: *PLoS ONE*. 12, 3, e0174119.

Alterations in the Cerebral Microvascular Proteome Expression Profile After Transient Global Cerebral Ischemia in Rat

Spray, S., Johansson, S. E., Edwards, A. V. G., Larsen, M. R., Radziwon-Balicka, A., Povlsen, G. K. & Edvinsson, L., 2017, I: *Journal of Molecular Neuroscience*. 61, 3, s. 396-411

Downregulation of Thromboxane A_2 Receptor Occurs Mainly via Nuclear Factor-KappaB Signaling Pathway in Rat Renal Artery

Zhang, Y., Mi, M.-T., Xie, Y.-H., Wang, S.-W., Edvinsson, L. & Xu, C. B., 2017, I: *Advances in Pharmacological Sciences*. 2017, 6507048.

Enhanced contractility of intraparenchymal arterioles after global cerebral ischaemia in rat - new insights into the development of delayed cerebral hypoperfusion

Spray, S., Johansson, S. E., Radziwon-Balicka, A., Haanes, K. A., Warfvinge, K., Povlsen, G. K., Kelly, P. A. T. & Edvinsson, L., 2017, I: *Acta Physiologica*. 220, 4, s. 417-431

Proteomic Expression Changes in Large Cerebral Arteries After Experimental Subarachnoid Hemorrhage in Rat Are Regulated by the MEK-ERK1/2 Pathway

Müller, A. H., Edwards, A. V. G., Larsen, M. R., Nielsen, J., Warfvinge, K., Povlsen, G. K. & Edvinsson, L., 2017, I: *Journal of Molecular Neuroscience*. 62, 3-4, s. 380-394

Expression of messenger molecules and receptors in rat and human sphenopalatine ganglion indicating therapeutic targets

Steinberg, A., Frederiksen, S. D., Blixt, F. W., Warfvinge, K. & Edvinsson, L., 2016 dec. 1, I: *Journal of Headache and Pain*. 17, 1, 78.

KYNA analogue SZR72 modifies CFA-induced dural inflammation- regarding expression of pERK1/2 and IL-1 β in the rat trigeminal ganglion

Lukács, M., Warfvinge, K., Kruse, L. S., Tajti, J., Fülöp, F., Toldi, J., Vécsei, L. & Edvinsson, L., 2016 dec. 1, I: *Journal of Headache and Pain*. 17, 1, 64.

Peripheral sensory neurons expressing melanopsin respond to light

Matynia, A., Nguyen, E., Sun, X., Blixt, F. W., Parikh, S., Kessler, J., de Sevilla Müller, L. P., Habib, S., Kim, P., Wang, Z. Z., Rodriguez, A., Charles, A., Nusinowitz, S., Edvinsson, L., Barnes, S., Brecha, N. C. & Gorin, M. B., 2016 aug. 10, I: *Frontiers in Neural Circuits*. 10, AUG, 60.

Characterization of Relaxant Responses to Natriuretic Peptides in the Human Microcirculation In Vitro and In Vivo

Edvinsson, M.-L., Ahnstedt, H., Edvinsson, L. & Andersson, S. E., 2016 aug. 1, I: *Microcirculation*. 23, 6, s. 438-446 9 s.

The effects of MEK1/2 inhibition on cigarette smoke exposure-induced ET receptor upregulation in rat cerebral arteries

Cao, L., Ping, N. N., Cao, Y. X., Li, W., Cai, Y., Warfvinge, K. & Edvinsson, L., 2016 aug. 1, I: *Toxicology and Applied Pharmacology*. 304, s. 70-78 9 s.

Immunohistochemical localization of the calcitonin gene-related peptide binding site in the primate trigeminovascular system using functional antagonist antibodies

Miller, S., Liu, H., Warfvinge, K., Shi, L., Dovlatyan, M., Xu, C. & Edvinsson, L., 2016 juli 22, I: *Neuroscience*. 328, s. 165-183 19 s.

Enhanced endothelin-1 mediated vasoconstriction of the ophthalmic artery may exacerbate retinal damage after transient global cerebral ischemia in rat

Blixt, F. W., Johansson, S. E., Johnson, L., Haanes, K. A., Warfvinge, K. & Edvinsson, L., 2016 juni 1, I: *PLoS ONE*. 11, 6, e0157669.

Mapping the calcitonin receptor in human brain stem

Bower, R. L., Eftekhari, S., Waldvogel, H. J., Faull, R. L. M., Tajti, J., Edvinsson, L., Hay, D. L. & Walker, C. S., 2016 maj 1, I: *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*. 310, 9, s. R788-R793

Reduced Mechanical Stretch Induces Enhanced Endothelin B Receptor-mediated Contractility via Activation of Focal Adhesion Kinase and Extra Cellular-regulated Kinase 1/2 in Cerebral Arteries from Rat.

Spray, S., Rasmussen, M. N. P., Skovsted, G. F., Warfvinge, K., Sheykhzade, M. & Edvinsson, L., 2016, I: *Basic & Clinical Pharmacology & Toxicology*. 119, 1, s. 68-77

Release of PACAP-38 in episodic cluster headache patients - An exploratory study

Tuka, B., Szabó, N., Tóth, E., Kincses, Z. T., Párdutz, Á., Szok, D., Körtési, T., Bagoly, T., Helyes, Z., Edvinsson, L., Vécsei, L. & Tajti, J., 2016, I: *Journal of Headache and Pain*. 17, 1, 69.

A second trigeminal CGRP receptor: function and expression of the AMY1 receptor.

Walker, C. S., Eftekhari, S., Bower, R. L., Wilderman, A., Insel, P. A., Edvinsson, L., Waldvogel, H. J., Jamaluddin, M. A., Russo, A. F. & Hay, D. L., 2015, I: *Annals of Clinical and Translational Neurology*. 2, 6, s. 595-608

Cerebrovascular endothelin-1 hyper-reactivity is associated with transient receptor potential canonical channels 1 and 6 activation and delayed cerebral hypoperfusion after forebrain ischaemia in rats

Johansson, S. E., Andersen, X. E. D. R., Hansen, R. H., Povlsen, G. K. & Edvinsson, L., 2015, I: *Acta Physiologica*. 214, 3, s. 376-389

CGRP receptor antagonists and antibodies against CGRP and its receptor in migraine treatment.

Edvinsson, L., 2015, I: *British Journal of Clinical Pharmacology*. 80, 2, s. 193-199

Dural administration of inflammatory soup or Complete Freund's Adjuvant induces activation and inflammatory response in the rat trigeminal ganglion.

Lukács, M., Haanes, K. A., Majláth, Z., Tajti, J., Vécsei, L., Warfvinge, K. & Edvinsson, L., 2015, I: *Journal of Headache and Pain*. 16, 79.

Endothelin-1 and Endothelin-3 Regulate Endothelin Receptor Expression in Rat Coronary Arteries

Skovsted, G. F., Kilic, S. & Edvinsson, L., 2015, I: *Basic & Clinical Pharmacology & Toxicology*. 117, 5, s. 297-305

Experimental inflammation following dural application of complete Freund's adjuvant or inflammatory soup does not alter brain and trigeminal microvascular passage.

Lundblad, C., Haanes, K. A., Grände, G. & Edvinsson, L., 2015, I: *Journal of Headache and Pain*. 16, 91.

Inhibition of mitogen-activated protein kinase 1/2 in the acute phase of stroke improves long-term neurological outcome and promotes recovery processes in rats.

Mostajeran, M., Edvinsson, L., Warfvinge, K., Singh, R. & Ansar, S., 2015, I: *Acta Physiologica*.

Kynurenic acid modulates experimentally induced inflammation in the trigeminal ganglion.

Csáti, A., Edvinsson, L., Vécsei, L., Toldi, J., Fülöp, F., Tajti, J. & Warfvinge, K., 2015, I: *Journal of Headache and Pain*. 16, 99, 99.

Localization of CGRP, CGRP receptor, PACAP and glutamate in trigeminal ganglion. Relation to the blood-brain barrier.

Eftekhari, S., Salvatore, C. A., Johansson, S., Chen, T.-B., Zeng, Z. & Edvinsson, L., 2015, I: *Brain Research*. 1600, Nov 20, s. 93-109

MEK1/2 inhibitor U0126 but not endothelin receptor antagonist clazosentan reduces upregulation of cerebrovascular contractile receptors and delayed cerebral ischemia, and improves outcome after subarachnoid hemorrhage in rats.

Povlsen, G. K. & Edvinsson, L., 2015, I: *Journal of Cerebral Blood Flow and Metabolism*. 35, 2, s. 329-337

Modulation of inflammatory mediators in the trigeminal ganglion by botulinum neurotoxin type A: an organ culture study.

Edvinsson, J., Warfvinge, K. & Edvinsson, L., 2015, I: *Journal of Headache and Pain*. 16, 73.

PACAP and its receptors in migraine pathophysiology.

Edvinsson, L., 2015, I: *British Journal of Pharmacology*. 172, 19, s. 4782-4784

Safety, tolerability, and efficacy of TEV-48125 for preventive treatment of chronic migraine: a multicentre, randomised, double-blind, placebo-controlled, phase 2b study.

Bigal, M. E., Edvinsson, L., Rapoport, A. M., Lipton, R. B., Spierings, E. L. H., Diener, H.-C., Burstein, R., Loupe, P. S., Ma, Y., Yang, R. & Silberstein, S. D., 2015, I: *Lancet Neurology*. 14, 11, s. 1091-1100

The Journey to Establish CGRP as a Migraine Target: A Retrospective View.

Edvinsson, L., 2015, I: *Headache*. 55, 9, s. 1249-1255

U0126 attenuates cerebral vasoconstriction and improves long-term neurologic outcome after stroke in female rats.

Ahnstedt, H., Mostajeran, M., Blixt, F., Warfvinge, K., Ansar, S., Krause, D. N. & Edvinsson, L., 2015, I: Journal of Cerebral Blood Flow and Metabolism. 35, 3, s. 454-460

Apolipoprotein B of low-density lipoprotein impairs nitric oxide-mediated endothelium-dependent relaxation in rat mesenteric arteries

Zhang, Y., Zhang, W., Edvinsson, L. & Xu, C.-B., 2014, I: European Journal of Pharmacology. 725, Jan 18, s. 10-17

Brain natriuretic peptide is a potent vasodilator in aged human microcirculation and shows a blunted response in heart failure patients.

Edvinsson, M., Uddman, E., Edvinsson, L. & Andersson, S., 2014, I: Journal of geriatric cardiology : JGC. 11, 1, s. 50-56

CaMKII and MEK1/2 inhibition time-dependently modify inflammatory signaling in rat cerebral arteries during organ culture.

Waldsee, R., Eftekhari, S., Ahnstedt, H., Johnson, L. & Edvinsson, L., 2014, I: Journal of Neuroinflammation. 11, 1, 90.

CaMKII inhibition with KN93 attenuates endothelin and serotonin receptor-mediated vasoconstriction and prevents subarachnoid hemorrhage-induced deficits in sensorimotor function.

Edvinsson, L., Povlsen, G. K., Ahnstedt, H. & Waldsee, R., 2014, I: Journal of Neuroinflammation. 11, 207.

Comparison of the vasodilator responses of isolated human and rat middle meningeal arteries to migraine related compounds

Grände, G., Labrujere, S., Haanes, K. A., MaassenVanDenBrink, A. & Edvinsson, L., 2014, I: Journal of Headache and Pain. 15, 22.

Differential localization and characterization of functional calcitonin gene-related peptide receptors in human subcutaneous arteries.

Edvinsson, L., Ahnstedt, H., Larsen, R. & Sheykhzade, M., 2014, I: Acta Physiologica. 210, 4, s. 811-822

Early MEK1/2 Inhibition after Global Cerebral Ischemia in Rats Reduces Brain Damage and Improves Outcome by Preventing Delayed Vasoconstrictor Receptor Upregulation.

Johansson, S. E., Larsen, S. S., Povlsen, G. K. & Edvinsson, L., 2014, I: PLoS ONE. 9, 3, e92417.

Low density lipoprotein induces upregulation of vasoconstrictive endothelin type B receptor expression.

Xu, C.-B., Zheng, J., Zhang, W., Liu, E., Edvinsson, L. & Zhang, Y., 2014, I: Vascular Pharmacology. 60, 1, s. 42-48

Pituitary adenylate cyclase activating polypeptide and migraine.

Zagami, A. S., Edvinsson, L. & Goadsby, P. J., 2014, I: Annals of Clinical and Translational Neurology. 1, 12, s. 1036-1040

Plasticity of Cerebrovascular Smooth Muscle Cells After Subarachnoid Hemorrhage

Edvinsson, L., Larsen, S. S., Maddahi, A. & Nielsen, J., 2014, I: Translational Stroke Research. 5, 3, s. 365-376

Randomized controlled trial of the CGRP receptor antagonist telcagepant for migraine prevention.

Ho, T. W., Connor, K. M., Zhang, Y., Pearlman, E., Koppenhaver, J., Fan, X., Lines, C., Edvinsson, L., Goadsby, P. J. & Michelson, D., 2014, I: Neurology. 83, 11, s. 958-966

Refractory chronic cluster headache: a consensus statement on clinical definition from the European Headache Federation

Mitsikostas, D. D., Edvinsson, L., Jensen, R. H., Katsarava, Z., Lampl, C., Negro, A., Osipova, V., Paemeleire, K., Siva, A., Valade, D. & Martelletti, P., 2014, I: Journal of Headache and Pain. 15, 79.

Regulatory mechanism of endothelin receptor B in the cerebral arteries after focal cerebral ischemia.

Grell, A.-S., Thigarajah, R., Edvinsson, L. & Samraj, A. K., 2014, I: PLoS ONE. 9, 12, e113624.

Role of unphosphorylated transcription factor STAT3 in late cerebral ischemia after subarachnoid hemorrhage.

Samraj, A. K., Müller, A. H., Grell, A.-S. & Edvinsson, L., 2014, I: Journal of Cerebral Blood Flow and Metabolism. 34, 5, s. 759-763

Topical non-peptide antagonists of sensory neurotransmitters substance P and CGRP do not modify patch test and prick test reactions: a vehicle-controlled, double-blind pilot study.

Wallengren, J. & Edvinsson, L., 2014, I: Archives of Dermatological Research. 306, 5, s. 505-509

Topical non-peptide receptor antagonists; aprepitant and telcagepant in contact dermatitis. An experimental study and review of literature

Wallengren, J. & Edvinsson, L., 2013 aug. 18, s. 80. 1 s.

Altered endothelin receptor expression and affinity in spontaneously hypertensive rat cerebral and coronary arteries.

Cao, L., Cao, Y.-X., Xu, C.-B. & Edvinsson, L., 2013, I: PLoS ONE. 8, 9, e73761.

CGRP Receptor Antagonism and Migraine Therapy.

Edvinsson, L. & Warfvinge, K., 2013, I: Current Protein and Peptide Science. 14, 5, s. 386-392

Differentiation of Nerve Fibers Storing CGRP and CGRP Receptors in the Peripheral Trigeminovascular System.

Eftekhari, S., Warfvinge, K., Blixt, F. & Edvinsson, L., 2013, I: Journal of Pain. 14, 11, s. 1289-1303

Framing education on headache disorders into the Global Burden of Disease Study 2010. The European Headache Federation stands ready

Martelletti, P., Mitsikostas, D.-D., Lampl, C., Katsarava, Z., Osipova, V., Paemeleire, K., Edvinsson, L., Siva, A., Valade, D., Steiner, T. J. & Jensen, R. H., 2013, I: Journal of Headache and Pain. 14, 41.

Increased endothelin 1 type B receptors in nasal lesions of patients with granulomatosis with polyangiitis.

Dimitrijevic, I. & Edvinsson, L., 2013, I: American Journal of Rhinology & Allergy. 27, 6, s. 444-450

Is CGRP a marker for chronic migraine?

Silberstein, S. D. & Edvinsson, L., 2013, I: Neurology.

Localization of CGRP Receptor Components, CGRP, and Receptor Binding Sites in Human and Rhesus Cerebellar Cortex.

Eftekhari, S., Salvatore, C. A., Gaspar, R. C., Roberts, R., O'Malley, S., Zeng, Z. & Edvinsson, L., 2013, I: Cerebellum. 12, 6, s. 937-949

Male-female differences in upregulation of vasoconstrictor responses in human cerebral arteries.

Ahnstedt, H., Cao, L., Krause, D. N., Warfvinge, K., Säveland, H., Nilsson, O. & Edvinsson, L., 2013, I: PLoS ONE. 8, 4, e62698.

MAPK/NF-kappa B-dependent upregulation of kinin receptors mediates airway hyperreactivity: A new perspective for the treatment

Zhang, Y., Cardell, L.-O., Edvinsson, L. & Xu, C.-B., 2013, I: Pharmacological Research. 71, s. 9-18

MAPK signaling pathway regulates cerebrovascular receptor expression in human cerebral arteries

Ansar, S., Eftekhari, S., Waldsee, R., Nilsson, E., Nilsson, O., Säveland, H. & Edvinsson, L., 2013, I: BMC Neuroscience. 14, 12.

Nuclear Factor-kappaB-Mediated Endothelin Receptor Up-Regulation Increases Renal Artery Contractility in Rats

Xie, Y.-H., Wang, S.-W., Zhang, Y., Edvinsson, L. & Xu, C.-B., 2013, I: Basic & Clinical Pharmacology & Toxicology. 113, 6, s. 401-410

Pearls and pitfalls in neural CGRP immunohistochemistry

Warfvinge, K. & Edvinsson, L., 2013, I: Cephalalgia. 33, 8, s. 593-603

Permanent Distal Occlusion of Middle Cerebral Artery in Rat Causes Local Increased ETB, 5-HT_{1B} and AT₁ Receptor-Mediated Contractility Downstream of Occlusion

Rasmussen, M. N. P., Hornbak, M., Larsen, S. S., Sheykhzade, M. & Edvinsson, L., 2013, I: Journal of Vascular Research. 50, 5, s. 396-409

Role of VIP/PACAP in primary headaches.

Edvinsson, L., 2013, I: Cephalalgia. 33, 13, s. 1070-1072

Secondhand cigarette smoke exposure causes upregulation of cerebrovascular 5-HT_{1B} receptors via the Raf/ERK/MAPK pathway in rats.

Cao, L., Xu, C.-B., Zhang, Y., Cao, Y. X. & Edvinsson, L., 2013, I: Acta Physiologica. 207, 1, s. 183-193

Signal transduction in cerebral arteries after subarachnoid hemorrhage—a phosphoproteomic approach

Parker, B. L., Larsen, M. R., Edvinsson, L. & Povlsen, G. K., 2013, I: Journal of Cerebral Blood Flow and Metabolism. 33, 8, s. 1259-1269

VIP/PACAP receptors in cerebral arteries of rat: Characterization, localization and relation to intracellular calcium.

Erdling, A., Sheykhzade, M., Maddahi, A., Bari, F. & Edvinsson, L., 2013, I: Neuropeptides. 47, 2, s. 85-92

Basic mechanisms of migraine and its acute treatment.

Edvinsson, L., Villalón, C. M. & Maassenvandenbrink, A., 2012, I: Pharmacology and Therapeutics. 136, 3, s. 319-333

Calcitonin gene-related peptide and its receptor components in the human sphenopalatine ganglion - Interaction with the sensory system.

Csati, A., Tajti, J., Tuka, B., Edvinsson, L. & Warfvinge, K., 2012, I: Brain Research. 1435, s. 29-39

Cigarette smoke and platelet-activating factor receptor dependent adhesion of Streptococcus pneumoniae to lower airway cells

Grigg, J., Walters, H., Sohal, S. S., Wood-Baker, R., Reid, D. W., Xu, C.-B., Edvinsson, L., Morissette, M. C., Staempfli, M. R., Kirwan, M., Koh, L., Suri, R. & Mushtaq, N., 2012, I: Thorax. 67, 10, s. 908-913

Cigarette smoke upregulates rat coronary artery endothelin receptors in vivo.

Cao, L., Zhang, Y., Cao, Y.-X., Edvinsson, L. & Xu, C.-B., 2012, I: PLoS ONE. 7, 3, e33008.

Comparison of responses to vasoactive drugs in human and rat cerebral arteries using myography and pressurized cerebral artery method.

Grände, G., Nilsson, E. & Edvinsson, L., 2012, I: Cephalalgia.

Cytokines and growth factors modify the upregulation of contractile endothelin ET(A) and ET(B) receptors in rat cerebral arteries after organ culture.

Ahnstedt, H., Stenman, E., Cao, L., Henriksson, M. & Edvinsson, L., 2012, I: Acta Physiologica. 205, 2, s. 266-278

Differential vasoactive effects of sildenafil and tadalafil on cerebral arteries

Kruuse, C., Gupta, S., Nilsson, E., Kruse, L. & Edvinsson, L., 2012, I: European Journal of Pharmacology. 674, 2-3, s. 345-351

Distribution of vasoactive intestinal peptide, pituitary adenylate cyclase-activating peptide, nitric oxide synthase, and their receptors in human and rat sphenopalatine ganglion.

Csati, A., Tajti, J., Kuris, A., Tuka, B., Edvinsson, L. & Warfvinge, K., 2012, I: Neuroscience. 202, s. 158-168

Expressional Changes in Cerebrovascular Receptors after Experimental Transient Forebrain Ischemia
Johansson, S., Povlsen, G. K. & Edvinsson, L., 2012, I: PLoS ONE. 7, 7

Regulation of enhanced cerebrovascular expression of proinflammatory mediators in experimental subarachnoid hemorrhage via the mitogen-activated protein kinase kinase/extracellular signal-regulated kinase pathway
Maddahi, A., Povlsen, G. K. & Edvinsson, L., 2012, I: Journal of Neuroinflammation. 9

Secondhand Smoke Exposure Causes Bronchial Hyperreactivity via Transcriptionally Upregulated Endothelin and 5-hydroxytryptamine 2A Receptors.
Cao, L., Zhang, Y., Cao, Y.-X., Edvinsson, L. & Xu, C.-B., 2012, I: PLoS ONE. 7, 8, e44170.

Alteration in contractile G-protein coupled receptor expression by moist snus and nicotine in rat cerebral arteries
Sandhu, H., Xu, C.-B. & Edvinsson, L., 2011, I: Toxicology and Applied Pharmacology. 252, 2, s. 138-149

Blockade of the MEK/ERK pathway with a raf inhibitor prevents activation of pro-inflammatory mediators in cerebral arteries and reduction in cerebral blood flow after subarachnoid hemorrhage in a rat model.
Maddahi, A., Ansar, S., Chen, Q. & Edvinsson, L., 2011, I: Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism. May 4, s. 144-154

Calcitonin gene-related peptide (CGRP) and its receptor components in human and rat spinal trigeminal nucleus and spinal cord at C1-level
Eftekhari, S. & Edvinsson, L., 2011, I: BMC Neuroscience. 12

Cerebellar distribution of calcitonin gene-related peptide (CGRP) and its receptor components calcitonin receptor-like receptor (CLR) and receptor activity modifying protein 1 (RAMP1) in rat.
Edvinsson, L., Eftekhari, S., Salvatore, C. A. & Warfvinge, K., 2011, I: Molecular and Cellular Neuroscience. 46, 1, s. 333-339

Enhanced airway smooth muscle cell thromboxane receptor signaling via activation of JNK MAPK and extracellular calcium influx.
Lei, Y., Cao, Y., Zhang, Y., Edvinsson, L. & Xu, C.-B., 2011, I: European Journal of Pharmacology. 650, 2-3, s. 629-638

Hospital utilization and costs for spinal cord stimulation compared with enhanced external counterpulsation for refractory angina pectoris.
Bondesson, S., Jakobsson, U., Edvinsson, L. & Rahm Hallberg, I., 2011, I: Journal of Evaluation in Clinical Practice.

Human cerebrovascular contractile receptors are upregulated via a B-Raf/MEK/ERK-sensitive signaling pathway.
Ahmstedt, H., Säveland, H., Nilsson, O. & Edvinsson, L., 2011, I: BMC Neuroscience. 12, 5.

Inhibition of cerebrovascular raf activation attenuates cerebral blood flow and prevents upregulation of contractile receptors after subarachnoid hemorrhage
Ansar, S., Maddahi, A. & Edvinsson, L., 2011, I: BMC Neuroscience. 12

Late cerebral ischaemia after subarachnoid haemorrhage: Is cerebrovascular receptor upregulation the mechanism behind?
Edvinsson, L. & Povlsen, G. K., 2011, I: Acta Physiologica. 203, 1, s. 209-224

Organ culture of the trigeminal ganglion induces enhanced expression of calcitonin gene-related peptide via activation of extracellular signal-regulated protein kinase 1/2.
Tajti, J., Kuris, A. K., Vécsei, L., Xu, C.-B. & Edvinsson, L., 2011, I: Cephalalgia. Okt, s. 95-105

Pharmacological characterization and expression of VIP and PACAP receptors in isolated cranial arteries of the rat
Baun, M., Hay-Schmidt, A., Edvinsson, L., Olesen, J. & Jansen-Olesen, I., 2011, I: European Journal of Pharmacology. 670, 1, s. 186-194

Reduced expression of angiotensin II and angiotensin receptor type 1 and type 2 in resistance arteries from nasal lesions in granulomatosis with polyangiitis (Wegener's granulomatosis).

Dimitrijevic, I., Rissler, P., Luts, L. & Edvinsson, L., 2011, I: Scandinavian Journal of Rheumatology. 40, s. 448-452

Reduced peripheral vascular reactivity in refractory angina pectoris: Effect of enhanced external counterpulsation

Bondesson, S., Edvinsson, M.-L., Pettersson, T. & Edvinsson, L., 2011, I: Journal of geriatric cardiology : JGC. 8, 4, s. 215-223

Secondhand smoke exposure induces Raf/ERK/MAPK-mediated upregulation of cerebrovascular endothelin ETA receptors.

Cao, L., Xu, C.-B., Zhang, Y., Cao, Y.-X. & Edvinsson, L., 2011, I: BMC Neuroscience. 12, 109.

The role of tumor necrosis factor-alpha and TNF-alpha receptors in cerebral arteries following cerebral ischemia in rat

Maddahi, A., Kruse, L. S., Chen, Q.-W. & Edvinsson, L., 2011, I: Journal of Neuroinflammation. 8

Tracing neural connections to pain pathways with relevance to primary headaches.

Edvinsson, L., 2011, I: Cephalalgia. 31, s. 737-747

Vascular plasticity in cerebrovascular disorders.

Edvinsson, L. & Povlsen, G. K., 2011, I: Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism. 31, s. 1554-1571

A relationship between migraine and biliary tract disorders: findings in two Swedish samples of elderly twins

Nilsson, S., Edvinsson, L., Malmberg, B., Johansson, B. & Linde, M., 2010, I: Acta Neurologica Scandinavica. 122, 4, s. 286-294

Calcitonin gene-related peptide (CGRP) levels during glyceryl trinitrate (GTN)-induced headache in healthy volunteers

Kruuse, C., Iversen, H. K., Jansen-Olesen, I., Edvinsson, L. & Olesen, J., 2010, I: Cephalalgia. 30, 4, s. 467-474

Cardiovascular risk factors regulate the expression of vascular endothelin receptors.

Xu, C.-B., Sun, Y. & Edvinsson, L., 2010, I: Pharmacology and Therapeutics. Jul 1, s. 148-155

Cerebral ischemia induces microvascular pro-inflammatory cytokine expression via the MEK/ERK pathway.

Maddahi, A. & Edvinsson, L., 2010, I: Journal of Neuroinflammation. 7, 14.

CGRP and its receptors provide new insights into migraine pathophysiology

Ho, T. W., Edvinsson, L. & Goadsby, P. J., 2010, I: Nature Reviews Neurology. 6, 10, s. 573-582

CGRP receptor antagonism and migraine.

Edvinsson, L. & Ho, T. W., 2010, I: Neurotherapeutics. 7, 2, s. 164-175

Characterization of the Calcitonin Gene-Related Peptide Receptor Antagonist Telcagepant (MK-0974) in Human Isolated Coronary Arteries

Chan, K. Y., Edvinsson, L., Eftekhari, S., Kimblad, P. O., Kane, S. A., Lynch, J., Hargreaves, R. J., de Vries, R., Garrelds, I. M., van den Bogaardt, A. J., Danser, A. H. J. & MaassenVanDenBrink, A., 2010, I: Journal of Pharmacology and Experimental Therapeutics. 334, 3, s. 746-752

Cigarette smoke extract promotes human vascular smooth muscle cell proliferation and survival through ERK1/2- and NF- κ B-dependent pathways.

Chen, Q., Edvinsson, L. & Xu, C.-B., 2010, I: The Scientific World Journal. 10, s. 2139-2156

Cigarette Smoke Extracts Promote Vascular Smooth Muscle Cell Proliferation and Enhances Contractile Responses in the Vasculature and Airway.

Xu, C.-B., Lei, Y., Chen, Q., Pehrson, C., Larsson, L. & Edvinsson, L., 2010, I: Basic & Clinical Pharmacology & Toxicology. 107, s. 940-948

Comparison of MEK/ERK pathway inhibitors on the upregulation of vascular G-protein coupled receptors in rat cerebral arteries

Sandhu, H., Ansar, S. & Edvinsson, L., 2010, I: European Journal of Pharmacology. 644, 1-3, s. 128-137

Comparison of the Vasoconstrictor Effects of the Calcitonin Gene-Related Peptide (CGRP) Receptor Antagonist Telcagepant (MK-0974) and Zolmitriptan in Human Isolated Coronary Arteries.

Lynch, J. J., Regan, C. P., Edvinsson, L., Hargreaves, R. J. & Kane, S. A., 2010, I: Journal of Cardiovascular Pharmacology. 55, 5, s. 518-521

Differential distribution of calcitonin gene-related peptide (CGRP) and CGRP receptor components (CLR and RAMP1) in the human trigeminal ganglion.

Eftekhari, S., Salvatore, C. A., Calamari, A., Kane, S. A., Tajti, J. & Edvinsson, L., 2010, I: Neuroscience. 169, 2, s. 683-696

Effect of Medication on Microvascular Vasodilatation in Patients with Systemic Lupus Erythematosus

Bengtsson, C., Andersson, S., Edvinsson, L., Edvinsson, M.-L., Sturfelt, G. & Nived, O., 2010, I: Basic & Clinical Pharmacology & Toxicology. 107, 6, s. 919-924

Effect of the calcitonin gene-related peptide (CGRP) receptor antagonist telcagepant in human cranial arteries.

Edvinsson, L., Chan, K. Y., Eftekhari, S., Nilsson, E., de Vries, R., Säveland, H., Dirven, C. M. F., Danser, A. H. J. & MaassenVanDenBrink, A., 2010, I: Cephalalgia. 30, 10, s. 1233-1240

Effects on blood pressure in patients with refractory angina pectoris after enhanced external counterpulsation

Bondesson, S., Pettersson, T., Ohlsson, O., Rahm Hallberg, I., Wackenfors, A. & Edvinsson, L., 2010, I: Blood Pressure. 19, 5, s. 287-294

Expressional Changes In Cerebrovascular Receptors After Global Cerebral Ischemia

Johansson, S., Klitgaard-Povlsen, G. & Edvinsson, L., 2010, I: Hypertension. 56, 6, s. 1170-1170

Increased Tissue Endothelin-1 and Endothelin-B Receptor Expression in Temporal Arteries from Patients with Giant Cell Arteritis.

Dimitrijevic, I., Andersson, C., Rissler, P. & Edvinsson, L., 2010, I: Ophthalmology. 117, s. 628-636

Involvement of calcium-calmodulin-dependent protein kinase II in endothelin receptor expression in rat cerebral arteries

Waldsee, R., Ahnstedt, H., Eftekhari, S. & Edvinsson, L., 2010, I: American Journal of Physiology: Heart and Circulatory Physiology. 298, 3, s. H823-H832

Kalcitoningenrelaterad peptid och migrän. Okad förståelse av patofysiologin kan leda till ny läkemedelsbehandling.

Edvinsson, L., 2010, I: Läkartidningen. 107, 50, s. 3208-11

LDL INCREASES VASCULAR ETB2 RECEPTOR EXPRESSION VIA ACTIVATION OF ERK1/2 AND P38 MAPK PATHWAYS

Zhang, Y., Zheng, J., Zhang, W., Edvinsson, L. & Xu, C.-B., 2010, I: Atherosclerosis Supplements. 11, 2, s. P367

Local Enhanced Contractile Response Of Etb, 5-Ht1B And At1 Receptors Following Distal Focal Permanent Occlusion

Rasmussen, M. N. P., Hornbak, M., Edvinsson, L. & Sheykhzade, M., 2010, I: Hypertension. 56, 6, s. 1170-1170

Measurement of vasoactive neuropeptides in biological materials: Problems and pitfalls from 30 years of experience and novel future approaches

Edvinsson, L., Ekman, R. & Goadsby, P. J., 2010, I: Cephalalgia. 30, 6, s. 761-766

New drugs in migraine treatment and prophylaxis: telcagepant and topiramate.

Edvinsson, L. & Linde, M., 2010, I: The Lancet. May 4, s. 645-655

NF-kappaB signaling mediates vascular smooth muscle endothelin type B receptor expression in resistance arteries.

Zheng, J.-P., Zhang, Y., Edvinsson, L., Hjalt, T. & Xu, C.-B., 2010, I: European Journal of Pharmacology. Mar 4, s. 148-154

Possible sites of action of the new calcitonin gene-related peptide receptor antagonists.

Eftekhari, S. & Edvinsson, L., 2010, I: Therapeutic Advances in Neurological Disorders. 3, 6, s. 369-378

Subarachnoid Hemorrhage Induces Enhanced Expression of Thromboxane A(2) Receptors in Rat Cerebral Arteries.

Ansar, S., Larsen, C., Maddahi, A. & Edvinsson, L., 2010, I: Brain Research. 1316, s. 163-172

Up-regulation of bradykinin receptors in rat bronchia via IkappaB kinase-mediated inflammatory signaling pathway.

Lei, Y., Zhang, Y., Cao, Y., Edvinsson, L. & Xu, C.-B., 2010, I: European Journal of Pharmacology. 634, 1-3, s. 149-161

Upregulation Of Contractile Endothelin Type B2 Receptors By Lipid-Soluble Cigarette Smoking Particles In Rat Cerebral Arteries Via Activation Of Mapk

Sandhu, H. S., Xu, C. B. & Edvinsson, L., 2010, I: Hypertension. 56, 6, s. 1170-1170

Upregulation of contractile endothelin type B receptors by lipid-soluble cigarette smoking particles in rat cerebral arteries via activation of MAPK

Sandhu, H., Xu, C.-B. & Edvinsson, L., 2010, I: Toxicology and Applied Pharmacology. 249, 1, s. 25-32

Up-regulation of endothelin receptors induced by cigarette smoke--involvement of MAPK in vascular and airway hyper-reactivity.

Zhang, Y., Edvinsson, L. & Xu, C.-B., 2010, I: The Scientific World Journal. 10, s. 2157-2166

Up-Regulation of G-Protein-Coupled Receptors for Endothelin and Thromboxane by Lipid-Soluble Smoke Particles in Renal Artery of Rat

Xie, Y.-H., Wang, S.-W., Zhang, Y., Edvinsson, L. & Xu, C.-B., 2010, I: Basic & Clinical Pharmacology & Toxicology. 107, 4, s. 803-812

Brainstem and thalamic projections from a craniovascular sensory nervous center in the rostral cervical spinal dorsal horn of rats

Edvinsson, L., Liu, Y., Zhang, M. & Broman, J., 2009, I: Cephalalgia. 29, s. 114-115

Brainstem and thalamic projections from a craniovascular sensory nervous centre in the rostral cervical spinal dorsal horn of rats.

Liu, Y., Broman, J., Zhang, M. & Edvinsson, L., 2009, I: Cephalalgia. 29, s. 935-948

Calcitonin gene-related peptide (CGRP) levels during glyceryl trinitrate (GTN)-induced headache in healthy volunteers

Kruuse, C., Iversen, H. K., Jansen-Olesen, I., Edvinsson, L. & Olesen, J., 2009, I: European Journal of Neurology. 16, s. 44-44

Cerebral ischemia enhances vascular thromboxane receptor expressions

Ansar, S., Larsen, C. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S307-S307

Cerebrovascular endothelin receptor upregulation in cerebral ischemia.

Edvinsson, L., 2009, I: Current Vascular Pharmacology. 7, 1, s. 26-33

Cerebrovascular gene regulation in brain diseases

Edvinsson, L., 2009, I: Journal of the Neurological Sciences. 283, 1-2, s. 246-246

CGRP and CGRP receptor distribution in the human trigeminal ganglion

Eftekhari, S., Tajti, J. & Edvinsson, L., 2009, I: Cephalalgia. 29, s. 113-113

Characterization of the CGRP receptor antagonist telcagepant in human isolated cerebral and meningeal arteries

Chan, K. Y., Edvinsson, L., Eftekhari, S., Nilsson, E., de Vries, R., Danser, J. A. H. & MaassenVanDenBrink, A., 2009, I: Cephalalgia. 29, s. 131-131

Characterization of the CGRP receptor antagonist telcagepant in human isolated coronary artery of different caliber

Chan, K. Y., Edvinsson, L., Eftekhari, S., de Vries, R., Kane, S. A., Hargreaves, R. J., Danser, A. H. J. & MaassenVanDenBrink, A., 2009, I: Cephalalgia. 29, 12, s. 1358-1359

Enhanced cerebrovascular expression of matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 via the MEK/ERK pathway during cerebral ischemia in the rat.

Maddahi, A., Chen, Q. & Edvinsson, L., 2009, I: BMC Neuroscience. 10, Jun 4, 56.

Enhanced contractile response of vascular contractile receptors following distal focal permanent occlusion

Rasmussen, M. N. P., Hornbak, M. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S170-S171

Equal contribution of increased intracranial pressure and subarachnoid blood to cerebral blood flow reduction and receptor upregulation after subarachnoid hemorrhage.

Ansar, S. & Edvinsson, L., 2009, I: Journal of Neurosurgery. 111, s. 978-987

Impact of cytokines and growth factors on contractile endothelin receptors in rat cerebral arteries

Stenman, E., Ahnstedt, H., Henriksson, M. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S116-S117

Increased angiotensin II type 1 receptor expression in temporal arteries from patients with giant cell arteritis.

Dimitrijevic, I., Malmsjö, M., Andersson, C., Rissler, P. & Edvinsson, L., 2009, I: Ophthalmology. 116, 5, s. 990-996

Increased expression of endothelin ETB and angiotensin AT(1) receptors in peripheral resistance arteries of patients with suspected acute coronary syndrome

Dimitrijevic, I., Ekelund, U., Edvinsson, M. & Edvinsson, L., 2009, I: Heart and Vessels. 24, 6, s. 393-398

Increased expression of vascular endothelin type B and angiotensin type 1 receptors in patients with ischemic heart disease

Dimitrijevic, I., Edvinsson, M.-L., Chen, Q., Malmsjö, M., Kimblad, P. O. & Edvinsson, L., 2009, I: BMC Cardiovascular Disorders. 9

Increased perfusion pressure enhances the expression of endothelin (ETB) and angiotensin II (AT1, AT2) receptors in rat mesenteric artery smooth muscle cells.

Lindstedt, I., Xu, C.-B., Zhang, Y. & Edvinsson, L., 2009, I: Blood Pressure. 18, 1, s. 78-85

Interaction Of Cytokines And Growth Factors On Contractile Endothelin Receptors In Rat Cerebral Arteries

Ahnstedt, H., Stenman, E., Henriksson, M. & Edvinsson, L., 2009, I: Hypertension. 54, 5, s. 1176-1176

Intracellular calcium levels and vasoconstriction induced by 5-CT and s6c in rat after cerebral ischemia

Ahnstedt, H., Waldsee, R. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S214-S215

Involvement of calcium-calmodulin dependent protein kinase II on endothelin receptor expression in cerebral arteries of rat

Waldsee, R., Eftekhari, S. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S123-S123

Lipid-soluble cigarette smoke particles upregulate contractile endothelin type B and thromboxane A2 receptors of rat middle cerebral arteries

Sandhu, H., Xu, C.-B. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S114-S115

Lipid-soluble cigarette smoking particles induce expression of inflammatory and extracellular-matrix-related genes in rat cerebral arteries.

Vikman, P., Xu, C.-B. & Edvinsson, L., 2009, I: Vascular Health and Risk Management. 5, 1, s. 333-341

MAPK signalling pathway regulate cerebrovascular receptor expression in human cerebral arteries

Ansar, S., Nilsson, E., Nilsson, O., Säveland, H. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S495-S496

RAF inhibition prevents activation of pro-inflammatory mediators in cerebral arteries after subarachnoid hemorrhage

Maddahi, A., Ansar, S. & Edvinsson, L., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S305-S305

Role of ERK/MAPK in endothelin receptor signaling in human aortic smooth muscle cells.

Chen, Q.-W., Edvinsson, L. & Xu, C.-B., 2009, I: BMC Cell Biology. 10, Jul 3, 52.

Telcagepant provides new hope for people with migraine

Edvinsson, L., 2009, I: Nature Reviews Neurology. 5, 5, s. 240-242

Transcriptional Down-Regulation of Thromboxane A(2) Receptor Expression via Activation of MAPK ERK1/2, p38/NF-kappa B Pathways

Zhang, W., Zhang, Y., Edvinsson, L. & Xu, C.-B., 2009, I: Journal of Vascular Research. 46, 2, s. 162-174

Attenuation of endothelium-dependent relaxation in rat mesenteric arteries by ApoB protein of low density lipoprotein, but not cholesterol

Zhang, Y., Zhang, W., Edvinsson, L. & Xu, C.-B., 2008, I: Hypertension. 52, 4, s. 768-768

Central projections of the sensory innervation of the rat middle meningeal artery.

Liu, Y., Broman, J. & Edvinsson, L., 2008, I: Brain Research. 1208, s. 103-110

Cerebral vasoconstriction after subarachnoid hemorrhage - Role of changes in vascular receptor phenotype

Hansen-Schwartz, J., Ansar, S. & Edvinsson, L., 2008, I: Frontiers in Bioscience. 13, s. 2160-2164

Cerebrovascular Angiotensin AT(1) Receptor Regulation in Cerebral Ischemia.

Edvinsson, L., 2008, I: Trends in Cardiovascular Medicine. 18, 3, s. 98-103

CGRP blockers in migraine therapy: where do they act?

Edvinsson, L., 2008, I: British Journal of Pharmacology. 155, s. 967-969

CGRP-receptor antagonism in migraine treatment.

Edvinsson, L., 2008, I: The Lancet. 372, 9656, s. 2089-2090

Changes in perfusion pressure alter vascular GPCR expression in rat mesenteric artery

Lindstedt, I., Nilsson, E., Xu, C.-B., Zhang, Y. & Edvinsson, L., 2008, I: Journal of Hypertension. 26, Suppl. 1, s. S309-S309

Cigarette smoking leads to reduced relaxant responses of the cutaneous microcirculation.

Edvinsson, M., Andersson, S., Xu, C.-B. & Edvinsson, L., 2008, I: Vascular Health and Risk Management. 4, 3, s. 699-704

Commentary on Viewpoint: The human cutaneous circulation as a model of generalized microvascular function.
Edvinsson, L. & Andersson, S., 2008, I: *Journal of Applied Physiology*. 105, 1, s. 381-381

Comments on Point:Counterpoint: Sympathetic activity does/does not influence cerebral blood flow. Sympathetic nerves influence the cerebral circulation.
Edvinsson, L., 2008, I: *Journal of Applied Physiology*. 105, 4, s. 1370-1371

Comparison of CGRP and NO responses in the human peripheral microcirculation of migraine and control subjects.
Edvinsson, M.-L. & Edvinsson, L., 2008, I: *Cephalalgia*. 28, 5, s. 563-566

Comparison of patients undergoing enhanced external counterpulsation and spinal cord stimulation for refractory angina pectoris.
Bondesson, S., Pettersson, T., Erdling, A., Rahm Hallberg, I., Wackenfors, A. & Edvinsson, L., 2008, I: *Coronary Artery Disease*. 19, 8, s. 627-634

Elevated intracranial pressure or subarachnoid blood responsible for reduction in cerebral blood flow after SAH
Ansar, S. & Edvinsson, L., 2008, *Cerebral Vasospasm: New Strategies in Research and Treatment*. Springer, Vol. 104. s. 231-233

Endothelin receptor-mediated vasodilatation: Effects of organ culture.
Nilsson, D., Wackenfors, A., Gustafsson, L., Ugander, M., Paulsson, P., Ingemansson, R., Edvinsson, L. & Malmsjö, M., 2008, I: *European Journal of Pharmacology*. 579, 1-3, s. 233-240

Enhanced expression of contractile endothelin ET(B) receptors in rat coronary artery after organ culture.
Johnsson, E., Maddahi, A., Wackenfors, A. & Edvinsson, L., 2008, I: *European Journal of Pharmacology*. 582, 1-3, s. 94-101

Enhanced expressions of microvascular smooth muscle receptors after focal cerebral ischemia occur via the MAPK MEK/ERK pathway.
Maddahi, A. & Edvinsson, L., 2008, I: *BMC Neuroscience*. 9, 85.

Enhanced external counter pulsation in treatment of refractory angina pectoris: two year outcome and baseline factors associated with treatment failure
Erdling, A., Bondesson, S., Pettersson, T. & Edvinsson, L., 2008, I: *BMC Cardiovascular Disorders*. 8, 39

High NT-proBNP Is a Strong Predictor of Outcome in Elderly Heart Failure Patients.
Andersson, S. E., Edvinsson, M.-L., Björk, J. & Edvinsson, L., 2008, I: *American Journal of Geriatric Cardiology*. 17, 1, s. 13-20

Increased ET(A) and ET(B) receptor contraction in the left internal mammary artery from patients with hypertension.
Nilsson, D., Wackenfors, A., Gustafsson, L., Edvinsson, L., Paulsson, P., Ingemansson, R. & Malmsjö, M., 2008, I: *Journal of Human Hypertension*. 22, 3, s. 226-229

Lipid soluble smoke particles up-regulate vascular smooth muscle ETB receptors via activation of mitogen activating protein kinases and NF-kappaB pathways.
Xu, C.-B., Zheng, J., Zhang, W., Zhang, Y. & Edvinsson, L., 2008, I: *Toxicological Sciences*. 106, 2, s. 546-555

PKC and MAPK signalling pathways regulate vascular endothelin receptor expression
Nilsson, D., Wackenfors, A., Gustafsson, L., Ugander, M., Ingemansson, R., Edvinsson, L. & Malmsjö, M., 2008, I: *European Journal of Pharmacology*. 580, 1-2, s. 190-200

Subarachnoid hemorrhage induces upregulation of vascular receptors and reduction in rCBF via an ERK1/2 mechanism
Ansar, S., Lundager Hansen, J. & Edvinsson, L., 2008, *Cerebral Vasospasm: New Strategies in Research and Treatment*. Springer, Vol. 104. s. 65-67

Subtype activation and interaction of protein kinase C and mitogen-activated protein kinase controlling receptor expression in cerebral arteries and microvessels after subarachnoid hemorrhage

Ansar, S. & Edvinsson, L., 2008, I: Stroke: a journal of cerebral circulation. 39, 1, s. 185-190

The blood-brain barrier in migraine treatment.

Edvinsson, L. & Tfelt-Hansen, P., 2008, I: Cephalalgia. 28, s. 1245-1258

The cardiovascular risk factor DMSO-soluble smoke particles enhance transcription and translation of endothelin type A receptors via activation of PKC epsilon and ERK1/2 pathways in vascular smooth muscle cells

Xu, C.-B., Zhang, Y., Zhang, W. & Edvinsson, L., 2008, I: Hypertension. 52, 4, s. 770-770

Transcriptional down-regulation of thromboxane A2 receptor expression via activation of intracellular MAPK ERK1/2 and p38/NF-kappa B inflammatory signal

Zhang, Y., Zhang, W., Edvinsson, L. & Xu, C.-B., 2008, I: Journal of Hypertension. 26, Suppl. 1, s. S24-S25

Treatment of migraine attacks based on the interaction with the trigemino-cerebrovascular system.

Link, A., Kuris, A. & Edvinsson, L., 2008, I: Journal of Headache and Pain. 9, 41406.

Up-regulation of endothelin type B receptors in the human internal mammary artery in culture is dependent on protein kinase C and mitogen-activated kinase signaling pathways.

Nilsson, D., Gustafsson, L., Wackenfors, A., Gesslein, B., Edvinsson, L., Paulsson, P., Ingemansson, R. & Malmjö, M., 2008, I: BMC Cardiovascular Disorders. 8, 21.

Up-regulation of thromboxane A(2) receptor expression by lipid soluble smoking particles through post-transcriptional mechanisms.

Zhang, W., Zhang, Y., Edvinsson, L. & Xu, C.-B., 2008, I: Atherosclerosis. 196, 2, s. 608-616

Vascular endothelin type B receptor upregulation correlates with activation of inflammatory transcriptional factor NF-kappaB

Zheng, J., Zhang, Y., Edvinsson, L. & Xu, C.-B., 2008, I: Journal of Hypertension. 26, Suppl. 1, s. S24-S24

Cerebral ischemia induces transcription of inflammatory and extracellular-matrix-related genes in rat cerebral arteries.

Vikman, P., Ansar, S., Henriksson, M., Stenman, E. & Edvinsson, L., 2007, I: Experimental Brain Research. 183, 4, s. 499-510

Cerebrovascular ETB, 5-HT1B and AT1 Receptor Upregulation Correlates with Reduction in Regional CBF after Subarachnoid Hemorrhage.

Ansar, S., Vikman, P., Nielsen, M. & Edvinsson, L., 2007, I: American Journal of Physiology: Heart and Circulatory Physiology. 293, 6, s. H3750-H3758

CGRP-Receptor Antagonism in Migraine Treatment.

Edvinsson, L. & Ahrend Petersen, K., 2007, I: CNS and Neurological Disorders - Drug Targets. 6, 4, s. 240-246

Cooperative effect of angiotensin AT1 and endothelin ETA receptor antagonism limits the brain damage after ischemic stroke in rat

Stenman, E., Waldsee, R., Henriksson, M., Maddahi, A. & Edvinsson, L., 2007, I: European Journal of Pharmacology. 570, 1-3, s. 142-148

Effect of two novel CGRP-binding compounds in a closed cranial window rat model

Juhl, L., Edvinsson, L., Olesen, J. & Jansen-Olesen, I., 2007, I: European Journal of Pharmacology. 567, 1-2, s. 117-124

Enhanced expression of CGRP in rat trigeminal ganglion neurons during cell and organ culture

Kuris, A., Xu, C.-B., Zhou, M. F., Tajti, J., Uddman, R. & Edvinsson, L., 2007, I: Brain Research. 1173, s. 6-13

Inhibitory effect of BIBN4096BS, CGRP(8-37), a CGRP antibody and an RNA-Spiegelmer on CGRP induced vasodilatation in the perfused and non-perfused rat middle cerebral artery.

Edvinsson, L., Nilsson, E. & Jansen-Olesen, I., 2007, I: British Journal of Pharmacology. 150, 5, s. 633-640

MEK1/2 inhibition attenuates vascular ET(A) and ET (B) receptor alterations after cerebral ischaemia.

Henriksson, M., Stenman, E., Vikman, P. & Edvinsson, L., 2007, I: Experimental Brain Research. 178, 4, s. 470-476

Neurokinin-1 receptor antagonism in a rat model of subarachnoid hemorrhage: prevention of upregulation of contractile ETB and 5-HT1B receptors and cerebral blood flow reduction

Ansar, S., Svendgaard, N.-A. & Edvinsson, L., 2007, I: Journal of Neurosurgery. 106, 5, s. 881-886

Novel migraine therapy with calcitonin gene-regulated peptide receptor antagonists

Edvinsson, L., 2007, I: Expert Opinion on Therapeutic Targets. 11, 9, s. 1179-1188

Pharmacokinetic and pharmacodynamic variability as possible causes for different drug responses in migraine. A comment

Tfelt-Hansen, P. & Edvinsson, L., 2007, I: Cephalalgia. 27, 10, s. 1091-1093

Protein kinase C inhibition attenuates vascular ETB receptor upregulation and decreases brain damage after cerebral ischemia in rat.

Henriksson, M., Stenman, E., Vikman, P. & Edvinsson, L., 2007, I: BMC Neuroscience. 8, s. 7-7

Protein kinase C inhibition prevents upregulation of vascular ET(B) and 5-HT(1B) receptors and reverses cerebral blood flow reduction after subarachnoid haemorrhage in rats.

Ansar, S., Hansen-Schwartz, J. A., Vikman, P., Xu, C.-B. & Edvinsson, L., 2007, I: Journal of Cerebral Blood Flow and Metabolism. 27, 1, s. 21-32

Transcriptional regulation of inflammatory and extracellular matrix-regulating genes in experimental subarachnoid cerebral arteries following hemorrhage in rats

Vikman, P., Ansar, S. & Edvinsson, L., 2007, I: Journal of Neurosurgery. 107, 5, s. 1015-1022

Vasospasm - Response

Ansar, S. & Edvinsson, L., 2007, I: Journal of Neurosurgery. 106, 5, s. 880-880

Angiotensin II-induced vasodilatation in cerebral arteries is mediated by endothelium-derived hyperpolarising factor.

Wackenfors, A., Vikman, P., Nilsson, E., Edvinsson, L. & Malmsjö, M., 2006, I: European Journal of Pharmacology. 531, 1-3, s. 259-263

Endothelin ETA and ETB receptor expression in the human trigeminal ganglion.

Uddman, R., Tajti, J., Cardell, L.-O., Sundler, F., Uddman, E. & Edvinsson, L., 2006, I: Neuroendocrinology Letters. 27, 3, s. 345-349

ERK1/2 inhibition attenuates cerebral blood flow reduction and abolishes ET(B) and 5-HT(1B) receptor upregulation after subarachnoid hemorrhage in rat.

Ansar, S., Hansen-Schwartz, J. A., Vikman, P., Xu, C.-B. & Edvinsson, L., 2006, I: Journal of Cerebral Blood Flow and Metabolism. 26, Nov 2, s. 846-856

ERK1/2 pathway involved in the expression of ETB receptors of the culturing smooth muscle cells of rat mesenteric artery

Luo, G., Cao, Y. X., Xu, C.-B., Ma, A. Q. & Edvinsson, L., 2006, I: Yao Xue Xue Bao. 41, 3, s. 257-262

Gene expression and molecular changes in cerebral arteries following subarachnoid hemorrhage in the rat.

Vikman, P., Ansar, S., Khurana, T., Hansen-Schwartz, J. & Edvinsson, L., 2006, I: Journal of Neurosurgery. 105, 3, s. 438-444

Gene expression profiling in the human middle cerebral artery after cerebral ischemia.

Vikman, P. & Edvinsson, L., 2006, I: *European Journal of Neurology*. 13, 12, s. 1324-1332

Inhibition of PKC activity blocks the increase of ETB receptor expression in cerebral arteries.

Henriksson, M., Vikman, P., Stenman, E., Ansar, S. & Edvinsson, L., 2006, I: *BMC Pharmacology*. 6, s. 13-13

Involvement of protein kinases on the upregulation of endothelin receptors in rat basilar and mesenteric arteries.

Waldsee, R. & Edvinsson, L., 2006, I: *Experimental Biology and Medicine*. 231, 4, s. 403-411

Lipid-soluble smoke particles damage endothelial cells and reduce endothelium-dependent dilatation in rat and man

Zhang, J., Cao, Y., Xu, C.-B. & Edvinsson, L., 2006, I: *BMC Cardiovascular Disorders*. 6, 3

Neuronal signal substances as biomarkers of migraine

Edvinsson, L., 2006, I: *Headache*. 46, 7, s. 1088-1094

Neuropeptide Y and the cerebral circulation.

Edvinsson, L., 2006, I: *EXS*. 95, s. 105-12

Pharmacological and molecular comparison of K-ATP channels in rat basilar and middle cerebral arteries

Ploug, K. B., Edvinsson, L., Olesen, J. & Jansen-Olesen, I., 2006, I: *European Journal of Pharmacology*. 553, 1-3, s. 254-262

Protection against myocardial ischaemia/reperfusion injury by PPAR-alpha activation is related to production of nitric oxide and endothelin-1

Bulhak, A., Sjoquist, P., Xu, C.-B., Edvinsson, L. & Pernow, J., 2006, I: *Basic Research in Cardiology*. 101, 3, s. 244-252

Reduced responsiveness of cutaneous microcirculation in essential hypertension - A pilot study

Lindstedt, I. H., Edvinsson, M.-L. & Edvinsson, L., 2006, I: *Blood Pressure*. 15, 5, s. 275-280

Smoking particles enhance endothelin A and endothelin B receptor-mediated contractions by enhancing translation in rat bronchi.

Granström, B., Xu, C.-B., Nilsson, E., Vikman, P. & Edvinsson, L., 2006, I: *BMC Pulmonary Medicine*. 6, 6

The vasorelaxant effect of adrenomedullin, proadrenomedullin N-terminal 20 peptide and amylin in human skin

Hasbak, P., Eskesen, K., Lind, H., Holst, J. & Edvinsson, L., 2006, I: *Basic & Clinical Pharmacology & Toxicology*. 99, 2, s. 162-167

Up-Regulation of alpha-Adrenoceptors in Rat Mesenteric Artery Involves Intracellular Signal Pathways.

Cao, Y.-X., Xu, C.-B., Luo, G.-G. & Edvinsson, L., 2006, I: *Basic & Clinical Pharmacology & Toxicology*. 98, 1, s. 61-67

Upregulation of endothelin ETB receptor-mediated vasoconstriction in rat coronary artery after organ culture

Eskesen, K. & Edvinsson, L., 2006, I: *European Journal of Pharmacology*. 539, 3, s. 192-194

Vascular endothelin ET(B) receptor-mediated contraction requires phosphorylation of ERK1/2 proteins.

Luo, G., Waldsee, R., Cao, Y.-X., Edvinsson, L. & Xu, C.-B., 2006, I: *European Journal of Pharmacology*. 538, 1-3, s. 124-131

Calcitonin gene-related peptide in cervicogenic headache

Frese, A., Schilgen, M., Edvinsson, L., Frandsen, E. & Evers, S., 2005, I: *Cephalalgia*. 25, 9, s. 700-703

Clinical data on the CGRP antagonist BIBN4096BS for treatment of migraine attacks.

Edvinsson, L., 2005, I: CNS Drug Reviews. 11, 1, s. 69-76

Correlation between CGRP and migraine attacks

Edvinsson, L., 2005, I: Cephalalgia. 25, 3, s. 163-164

Enhanced Transcription of Contractile 5-Hydroxytryptamine 2A Receptors via Extracellular Signal-Regulated Kinase 1/2 after Organ Culture of Rat Mesenteric Artery.

Cao, Y.-X., He, L.-C., Xu, C.-B., Luo, G.-G. & Edvinsson, L., 2005, I: Basic & Clinical Pharmacology & Toxicology. 96, 4, s. 282-288

Expression of inducible nitric oxide synthase in trigeminal ganglion cells during culture

Jansen-Olesen, I., Zhou, M., Zinck, T., Xu, C.-B. & Edvinsson, L., 2005, I: Basic & Clinical Pharmacology & Toxicology. 97, 6, s. 355-363

Induces vasodilatation of rat mesenteric artery in vitro mainly by inhibiting receptor-mediated Ca²⁺-influx and Ca²⁺-release

Cao, Y., Zheng, J., He, J., Li, J., Xu, C.-B. & Edvinsson, L., 2005, I: Archives of Pharmacal Research. 28, 6, s. 709-715

Neurobiology in primary headaches.

Edvinsson, L. & Uddman, R., 2005, I: Brain Research Reviews. 48, 3, s. 438-456

Phosphodiesterase 5 and effects of sildenafil on cerebral arteries of man and guinea pig

Kruuse, C., Khurana, T., Rybalkin, S., Birk, S., Engel, U., Edvinsson, L. & Olesen, J., 2005, I: European Journal of Pharmacology. 521, 1-3, s. 105-114

Presence and function of the calcitonin gene-related peptide receptor on rat pial arteries investigated in vitro and in vivo

Petersen, K., Nilsson, E., Olesen, J. & Edvinsson, L., 2005, I: Cephalalgia. 25, 6, s. 424-432

Triptan-induced contractile (5-HT_{1B} receptor) responses in human cerebral and coronary arteries: relationship to clinical effect

Edvinsson, L., Uddman, E., Wackenfors, A., Davenport, A., Longmore, J. & Malmsjö, M., 2005, I: Clinical Science. 109, 3, s. 335-342

Triptans Induce Vasoconstriction of Human Arteries and Veins from the Thoracic Wall.

Wackenfors, A., Jarvius, M., Ingemansson, R., Edvinsson, L. & Malmsjö, M., 2005, I: Journal of Cardiovascular Pharmacology. 45, 5, s. 476-484

Vasodilation effect of atropine on rat mesenteric artery

Zheng, J., Cao, Y. X., Xu, C.-B. & Edvinsson, L., 2005, I: Yao Xue Xue Bao. 40, 5, s. 402-405

Vasodilator effect of endothelin in cutaneous microcirculation of heart failure patients.

Andersson, S. E., Edvinsson, M.-L., Alving, K. & Edvinsson, L., 2005, I: Basic & Clinical Pharmacology & Toxicology. 97, 2, s. 80-85

Analysis of ET-A and ET-B receptors using an isolated perfused rat lung preparation.

Granström, B., Nilsson, E., Hultkvist-Bengtsson, U. & Edvinsson, L., 2004, I: Acta Physiologica Scandinavica. 181, 2, s. 259-264

Angiotensin II receptor mRNA expression and vasoconstriction in human coronary arteries: effects of heart failure and age.

Wackenfors, A., Pantev, E., Emilson, M., Edvinsson, L. & Malmsjö, M., 2004, I: Basic & Clinical Pharmacology & Toxicology. 95, 6, s. 266-272

Blockade of CGRP receptors in the intracranial vasculature: a new target in the treatment of headache.

Edvinsson, L., 2004, I: Cephalalgia. 24, 8, s. 611-622

Central projections of sensory innervation of the rat superior sagittal sinus.

Liu, Y., Broman, J. & Edvinsson, L., 2004, I: Neuroscience. 129, 2, s. 431-437

Cerebral Ischemia Enhances Vascular Angiotensin AT1 Receptor-Mediated Contraction in Rats.

Stenman, E. & Edvinsson, L., 2004, I: Stroke: a journal of cerebral circulation. 35, 4, s. 970-974

Importance of ERK1/2 in upregulation of endothelin type B receptors in cerebral arteries

Henriksson, M., Xu, C.-B. & Edvinsson, L., 2004, I: British Journal of Pharmacology. 142, 7, s. 1155-1161

Ischemic heart disease down-regulates angiotensin type 1 receptor mRNA in human coronary arteries.

Wackenfors, A., Emilson, M., Ingemansson, R., Edvinsson, L. & Malmjö, M., 2004, I: European Journal of Pharmacology. 503, 1-3, s. 147-153

Ischemic heart disease induce upregulation of endothelin receptor mRNA in human coronary arteries.

Wackenfors, A., Emilson, M., Ingemansson, R., Hortobagyi, T., Szok, D., Tajti, J., Vecsei, L., Edvinsson, L. & Malmjö, M., 2004, I: European Journal of Pharmacology. 484, 1, s. 103-109

Neuronal expression and regulation of CGRP promoter activity following viral gene transfer into cultured trigeminal ganglia neurons

Durham, P., Dong, P., Belasco, K., Kasperski, J., Gierasch, W., Edvinsson, L., Heistad, D., Faraci, F. & Russo, A., 2004, I: Brain Research. 997, 1, s. 103-110

Noncompetitive antagonism of BIBN4096BS on CGRP-induced responses in human subcutaneous arteries

Sheykhzade, M., Lind, H. & Edvinsson, L., 2004, I: British Journal of Pharmacology. 143, 8, s. 1066-1073

Peptidergic and non-peptidergic innervation and vasomotor responses of human lenticulostriate and posterior cerebral arteries

Jansen-Olesen, I., Gulbenkian, S., Engel, U., Sa, M. & Edvinsson, L., 2004, I: Peptides. 25, 12, s. 2105-2114

Sphingosine signaling and atherogenesis.

Xu, C.-B., Hansen-Schwartz, J. & Edvinsson, L., 2004, I: Acta Pharmacologica Sinica. 25, 7, s. 849-854

Transcriptional up-regulation in expression of 5-hydroxytryptamine_{2A} and transcriptional down-regulation of angiotensin II type 1 receptors during organ culture of rat mesenteric artery.

Luo, G., Xu, C.-B., Cao, Y.-X. & Edvinsson, L., 2004, I: Basic & Clinical Pharmacology & Toxicology. 95, 6, s. 280-287

Up-regulation of endothelin receptor function and mRNA expression in airway smooth muscle cells following sephadex-induced airway inflammation.

Granström, B., Xu, C.-B., Nilsson, E., Bengtsson, U. H. & Edvinsson, L., 2004, I: Basic & Clinical Pharmacology & Toxicology. 95, 1, s. 43-48

Central projections of sensory innervation of the rat superficial temporal artery.

Liu, Y., Zhang, M., Broman, J. & Edvinsson, L., 2003, I: Brain Research. 966, 1, s. 126-133

Cutaneous vascular reactivity is reduced in aging and in heart failure: association with inflammation

Andersson, S. E., Edvinsson, M. L. & Edvinsson, L., 2003, I: Clinical Science. 105, 6, s. 699-707

Endothelium-Dependent Relaxant Responses to Selective 5-HT_{1B/1D} Receptor Agonists in the Isolated Middle Cerebral Artery of the Rat.

Hansen-Schwartz, J., Løvland Hoel, N., Nilsson, E., Tfelt-Hansen, P. & Edvinsson, L., 2003, I: Journal of Vascular Research. 40, 6, s. 561-566

In-depth characterization of CGRP receptors in human intracranial arteries

Jansen-Olesen, I., Jorgensen, L., Engel, U. & Edvinsson, L., 2003, I: European Journal of Pharmacology. 481, 2-3, s. 207-216

Intracellular Pathways Involved in Upregulation of Vascular Endothelin Type B Receptors in Cerebral Arteries of the Rat.

Henriksson, M., Stenman, E. & Edvinsson, L., 2003, I: Stroke: a journal of cerebral circulation. 34, 6, s. 1479-1483

New therapeutic target in primary headaches - blocking the CGRP receptor.

Edvinsson, L., 2003, I: Expert Opinion on Therapeutic Targets. 7, 3, s. 377-383

Nociceptin immunoreactivity and receptor mRNA in the human trigeminal ganglion.

Hou, M., Uddman, R., Tajti, J. & Edvinsson, L., 2003, I: Brain Research. 964, 2, s. 179-186

Potent P2Y6 receptor mediated contractions in human cerebral arteries

Malmjö, M., Hou, M., Pendergast, W., Erlinge, D. & Edvinsson, L., 2003, I: BMC Pharmacology. 3, 4.

Role of mitogen-activated protein kinases in endothelin ETB receptor up-regulation after organ culture of rat mesenteric artery.

Uddman, E., Henriksson, M., Eskesen, K. & Edvinsson, L., 2003, I: European Journal of Pharmacology. 482, 1-3, s. 39-47

Subarachnoid Hemorrhage Enhances Endothelin Receptor Expression and Function in Rat Cerebral Arteries.

Hansen-Schwartz, J., Hoel, N., Zhou, M., Xu, C.-B., Svendgaard, N. & Edvinsson, L., 2003, I: Neurosurgery. 52, 5, s. 1188-1194

Subarachnoid hemorrhage-induced upregulation of the 5-HT1B receptor in cerebral arteries in rats

Hansen-Schwartz, J., Hoel, N., Xu, C.-B., Svendgaard, N. & Edvinsson, L., 2003, I: Journal of Neurosurgery. 99, 1, s. 115-120

The stable pyrimidines UDPbetaS and UTPgammaS discriminate between contractile cerebrovascular P2 receptors.

Malmjö, M., Hou, M., Pendergast, W., Erlinge, D. & Edvinsson, L., 2003, I: European Journal of Pharmacology. 458, 3, s. 305-311

Vasogen's immune modulation therapy (IMT) improves postischemic foot skin blood flow and transcutaneous pO₂ recovery rates in patients with advanced peripheral arterial occlusive disease.

Edvinsson, L., Edvinsson, M. L. & Angus Deveber, G., 2003, I: International Angiology. 22, 2, s. 141-147

Adenosine A(1) receptor agonists inhibit trigeminovascular nociceptive transmission

Goadsby, P., Hoskin, K., Storer, R., Edvinsson, L. & Connor, H., 2002, I: Brain. 125, s. 1392-1401

Analysis of the time course for organ culture-induced endothelin ET(B) receptor upregulation in rat mesenteric arteries.

Möller, S., Uddman, E., Welsh, N., Edvinsson, L. & Adner, M., 2002, I: European Journal of Pharmacology. 454, 2-3, s. 209-215

An immunocytochemical investigation of human trigeminal nucleus caudalis: CGRP, substance P and 5-HT1D-receptor immunoreactivities are expressed by trigeminal sensory fibres

Smith, D., Hill, R., Edvinsson, L. & Longmore, J., 2002, I: Cephalalgia. 22, 6, s. 424-431

Capsaicin receptor immunoreactivity in the human trigeminal ganglion.

Hou, M., Uddman, R., Tajti, J., Kanje, M. & Edvinsson, L., 2002, I: Neuroscience Letters. 330, 3, s. 223-226

Cerebral ischemia upregulates vascular endothelin ETB receptors in rat

Stenman, E., Malmjö, M., Uddman, E., Gidö, G., Wieloch, T. & Edvinsson, L., 2002, I: *Stroke: a journal of cerebral circulation*. 33, 9, s. 2311-2316

Comparison of the antagonistic effects of different angiotensin II receptor blockers in human coronary arteries.

Pantev, E., Stenman, E., Wackenfors, A., Edvinsson, L. & Malmjö, M., 2002, I: *European Journal of Heart Failure*. 4, 6, s. 699-705

D-erythro-N,N-dimethylsphingosine inhibits bFGF-induced proliferation of cerebral, aortic and coronary smooth muscle cells.

Xu, C.-B., Zhang, Y., Stenman, E. & Edvinsson, L., 2002, I: *Atherosclerosis*. 164, 2, s. 237-243

Distribution of mRNA for VIP and PACAP receptors in human cerebral arteries and cranial ganglia.

Knutsson, M. & Edvinsson, L., 2002, I: *NeuroReport*. 13, 4, s. 507-509

Effect of the CGRP receptor antagonist BIBN4096BS in human cerebral, coronary and omental arteries and in SK-N-MC cells.

Edvinsson, L., Alm, R., Shaw, D., Rutledge, R. Z., Koblan, K. S., Longmore, J. & Kane, S. A., 2002, I: *European Journal of Pharmacology*. 434, 1-2, s. 49-53

Enhanced vasodilator responses to calcitonin gene-related peptide (CGRP) in subcutaneous arteries in human hypertension.

Lind, H. & Edvinsson, L., 2002, I: *Journal of Human Hypertension*. 16, 1, s. 53-59

Expression of ETA and ETB receptor mRNA in human cerebral arteries

Hansen-Schwartz, J., Szok, D. & Edvinsson, L., 2002, I: *British Journal of Neurosurgery*. 16, 2, s. 149-153

Human endothelin subtype a receptor enhancement during tissue culture via de novo transcription

Hansen-Schwartz, J., Nordström, C.-H. & Edvinsson, L., 2002, I: *Neurosurgery*. 50, 1, s. 127-133

Immunohistochemical localization of calcitonin receptor-like receptor and receptor activity-modifying proteins in the human cerebral vasculature

Oliver, K. R., Wainwright, A., Edvinsson, L., Pickard, J. D. & Hill, R. G., 2002, I: *Journal of Cerebral Blood Flow and Metabolism*. 22, 5, s. 620-629

Neuropeptide expression in the human trigeminal nucleus caudalis and in the cervical spinal cord C1 and C2.

Uddman, R., Tajti, J., Hou, M., Sundler, F. & Edvinsson, L., 2002, I: *Cephalalgia*. 22, 2, s. 112-116

Neuropeptide Y Y1 and neuropeptide Y Y2 receptors in human cardiovascular tissues.

Uddman, R., Möller, S., Nilsson, T., Nyström, S., Ekstrand, J. & Edvinsson, L., 2002, I: *Peptides*. 23, 5, s. 927-934

Organ culture: a new model for vascular endothelium dysfunction.

Alm, R., Edvinsson, L. & Malmjö, M., 2002, I: *BMC Cardiovascular Disorders*. 2, 1

P2Y receptor-induced EDHF vasodilatation is of primary importance for the regulation of perfusion pressure in the peripheral circulation of the rat.

Malmjö, M., Chu, Z. M., Croft, K., Erlinge, D., Edvinsson, L. & Beilin, L. J., 2002, I: *Acta Physiologica Scandinavica*. 174, 4, s. 301-309

Protein kinase C inhibitors decrease endothelin ET(B) receptor mRNA expression and contraction during organ culture of rat mesenteric artery.

Uddman, E., Adner, M. & Edvinsson, L., 2002, I: *European Journal of Pharmacology*. 452, 2, s. 215-222

Protein kinase mediated upregulation of endothelin A, endothelin B and 5-hydroxytryptamine 1B/1D receptors during organ culture in rat basilar artery.

Hansen-Schwartz, J., Svensson, C.-L., Xu, C.-B. & Edvinsson, L., 2002, I: British Journal of Pharmacology. 137, 1, s. 118-126

Reduction of bFGF-induced smooth muscle cell proliferation and endothelin receptor mRNA expression by mevastatin and atorvastatin.

Xu, C. B., Stenman, E. & Edvinsson, L., 2002, I: Biochemical Pharmacology. 64, 3, s. 497-505

UDP acts as a growth factor for vascular smooth muscle cells by activation of P2Y(6) receptors.

Hou, M., Harden, T. K., Kuhn, C. M., Baldetorp, B., Lazarowski, E., Pendergast, W., Möller, S., Edvinsson, L. & Erlinge, D., 2002, I: American Journal of Physiology: Heart and Circulatory Physiology. 282, 2, s. H784-H792

Endocardial expression and functional characterization of endothelin-1

Saetrum Opgaard, O., Adner, M., Peters, T. H. F., Xu, C.-B., Stavenow, L., Gulbenkian, S., Erlinge, D., Edvinsson, L. & Sharma, H. S., 2001, I: Molecular and Cellular Biochemistry. 224, 1-2, s. 151-158

Angiotensin II type 1 receptors stimulate protein synthesis in human cardiac fibroblasts via a Ca²⁺-sensitive PKC-dependent tyrosine kinase pathway

Hou, M., Pantev, E., Moller, S., Erlinge, D. & Edvinsson, L., 2000, I: Acta Physiologica Scandinavica. 168, 2, s. 301-309

Characterization of contractile P2 receptors in human coronary arteries by use of the stable pyrimidines uridine 5'-O-thiodiphosphate and uridine 5'-O-3-thiotriphosphate

Malmjö, M., Hou, M., Harden, T. K., Pendergast, W., Pantev, E., Edvinsson, L. & Erlinge, D., 2000, I: Journal of Pharmacology and Experimental Therapeutics. 293, 3, s. 755-760

Cytokines induce upregulation of vascular P2Y(2) receptors and increased mitogenic responses to UTP and ATP

Hou, M., Moller, S., Edvinsson, L. & Erlinge, D., 2000, I: Arteriosclerosis, Thrombosis and Vascular Biology. 20, 9, s. 2064-2069

Downregulation of adenosine and P2X receptor-mediated cardiovascular responses in heart failure rats

Zhao, X. H., Sun, X. Y., Erlinge, D., Edvinsson, L. & Hedner, T., 2000, I: Blood Pressure. 9, s. 152-1610

Forearm blood flow responses to neuropeptide Y, noradrenaline and adenosine 5'-triphosphate in hypertensive and normotensive subjects

Nilsson, T., Hrafnkelsdottir, T., Edvinsson, L., Jern, S., Erlinge, D. & Wall, U., 2000, I: Blood Pressure. 9, s. 126-131

P2X receptors counteract the vasodilatory effects of endothelium derived hyperpolarising factor

Malmjö, M., Edvinsson, L. & Erlinge, D., 2000, I: European Journal of Pharmacology. 390, 1-2, s. 173-180

The stable pyrimidines UDPbetaS and UTPgammaS discriminate between the P2 receptors that mediate vascular contraction and relaxation of the rat mesenteric artery

Malmjö, M., Adner, M., Harden, T. K., Pendergast, W., Edvinsson, L. & Erlinge, D., 2000, I: British Journal of Pharmacology. 131, 1, s. 51-56

Congestive heart failure induces downregulation of P2X1-receptors in resistance arteries

Malmjö, M., Bergdahl, A., Moller, S., Zhao, X. H., Sun, X. Y., Hedner, T., Edvinsson, L. & Erlinge, D., 1999, I: Cardiovascular Research. 43, 1, s. 219-227

Cytokines induce increased endothelin ET(B) receptor-mediated contraction

Uddman, E., Moller, S., Adner, M. & Edvinsson, L., 1999, I: European Journal of Pharmacology. 376, 3, s. 223-232

Enhanced acetylcholine and P2Y-receptor stimulated vascular EDHF-dilatation in congestive heart failure

Malmsjö, M., Bergdahl, A., Zhao, X. H., Sun, X. Y., Hedner, T., Edvinsson, L. & Erlinge, D., 1999, I: Cardiovascular Research. 43, 1, s. 200-209

Functional effects of neuropeptide Y receptors on blood flow and nitric oxide levels in the human nose

Cervin, A., Önerfält, J., Edvinsson, L. & Grundemar, L., 1999, I: American Journal of Respiratory and Critical Care Medicine. 160, 5, s. 1724-1728 5 s.

Increase in cardiac P2X1-and P2Y2-receptor mRNA levels in congestive heart failure

Hou, M., Malmsjö, M., Moller, S., Pantev, E., Bergdahl, A., Zhao, X. H., Sun, X. Y., Hedner, T., Edvinsson, L. & Erlinge, D., 1999, I: Life Sciences. 65, 11, s. 1195-1206

MAPKK-dependent growth factor-induced upregulation of P2Y2 receptors in vascular smooth muscle cells

Hou, M., Moller, S., Edvinsson, L. & Erlinge, D., 1999, I: Biochemical and Biophysical Research Communications. 258, 3, s. 648-652

Selective increase of the contractile response to endothelin-1 in subcutaneous arteries from patients with essential hypertension

Lind, H., Adner, M., Erlinge, D., Brunkwall, J. & Edvinsson, L., 1999, I: Blood Pressure. 8, 1, s. 9-15

Inhibition of angiotensin II-induced contraction by losartan in human coronary arteries

Holmgren, A., Pantev, E., Erlinge, D. & Edvinsson, L., 1998, I: Journal of Cardiovascular Pharmacology. 32, 4, s. 662-664

P2U-receptor mediated endothelium-dependent but nitric oxide-independent vascular relaxation

Malmsjö, M., Edvinsson, L. & Erlinge, D., 1998, I: British Journal of Pharmacology. 123, 4, s. 719-729

Regional variation in appearance of vascular contractile endothelin-B receptors following organ culture

Adner, M., Uddman, E., Cardell, L.-O. & Edvinsson, L., 1998, I: Cardiovascular Research. 37, 1, s. 254-262

Somatostatin and neuropeptide Y in cerebrospinal fluid: correlations with severity of disease and clinical signs in Alzheimer's disease and frontotemporal dementia

Minthon, L., Edvinsson, L. & Gustafson, L., 1997, I: Dementia and Geriatric Cognitive Disorders. 8, 4, s. 232-239

Contractile effects of neuropeptide Y in human subcutaneous resistance arteries are mediated by Y1 receptors

Nilsson, T., Erlinge, D., Cantera, L. & Edvinsson, L., 1996, I: Journal of Cardiovascular Pharmacology. 28, 6, s. 764-768

Contractile endothelin-B (ETB) receptors in human small bronchi

Adner, M., Cardell, L.-O., Sjöberg, T., Ottosson, A. & Edvinsson, L., 1996, I: European Respiratory Journal. 9, 2, s. 351-355

Correlation between clinical characteristics and cerebrospinal fluid neuropeptide Y levels in dementia of the Alzheimer type and frontotemporal dementia

Minthon, L., Edvinsson, L. & Gustafson, L., 1996, I: Alzheimer Disease and Associated Disorders. 10, 4, s. 197-203

Neuropeptide Y potentiates noradrenaline-induced contraction through the neuropeptide Y Y1 receptor

Bergdahl, A., Nilsson, T., Cantera, L., Nilsson, L., Sun, X.-Y., Hedner, T., Erlinge, D., Valdemarson, S. & Edvinsson, L., 1996, I: European Journal of Pharmacology. 316, 1, s. 59-64

Orthostatic hypotension in organic dementia: relationship between blood pressure, cortical blood flow and symptoms

Passant, U., Warkentin, S., Karlson, S., Nilsson, K., Edvinsson, L. & Gustafson, L., 1996, I: Clinical autonomic research : official journal of the Clinical Autonomic Research Society. 6, 1, s. 29-36

Tyrphostin inhibition of ATP-stimulated DNA synthesis, cell proliferation and fos-protein expression in vascular smooth muscle cells

Erlinge, D., Heilig, M. & Edvinsson, L., 1996, I: British Journal of Pharmacology. 118, 4, s. 1028-1034

Characterisation of an ATP receptor mediating mitogenesis in vascular smooth muscle cells

Erlinge, D., You, J., Wahlestedt, C. & Edvinsson, L., 1995, I: European Journal of Pharmacology. 289, 1, s. 135-149

Effects of the combined ETA and ETB receptor antagonist PD145065 on arteries, arterioles, and veins in the cat hindlimb

Ekelund, U., Adner, M., Edvinsson, L. & Mellander, S., 1995, I: Journal of Cardiovascular Pharmacology. 26, Suppl. 3, s. 211-213

Long-term effects of tacrine on regional cerebral blood flow changes in Alzheimer's disease

Minthon, L., Nilsson, K., Edvinsson, L., Wendt, P. E. & Gustafson, L., 1995, I: Dementia and Geriatric Cognitive Disorders. 6, 5, s. 245-251

Selective attenuation of neuropeptide-Y-mediated contractile responses in blood vessels from patients with diabetes mellitus

Lind, H., Erlinge, D., Brunkwall, J. & Edvinsson, L., 1995, I: Clinical Autonomic Research. 5, 4, s. 191-197

Effects of selective ETB-receptor stimulation on arterial, venous and capillary functions in cat skeletal muscle

Ekelund, U., Adner, M., Edvinsson, L. & Mellander, S., 1994, I: British Journal of Pharmacology. 112, 3, s. 887-894

Human endothelin ETA receptor antisense oligodeoxynucleotides inhibit endothelin-1 evoked vasoconstriction

Adner, M., Erlinge, D., Salford, L., Yee, F., Wahlestedt, C. & Edvinsson, L., 1994, I: European Journal of Pharmacology. 261, 3, s. 281-284

Neuropeptide Y in sympathetic co-transmission: recent advances in the search for neuropeptide Y antagonists

Edvinsson, L., Erlinge, D., Sun, X. Y. & Hedner, T., 1994, I: Pharmacology and Toxicology. 74, 4-5, s. 193-201

Neuropeptide Y stimulates proliferation of human vascular smooth muscle cells: cooperation with noradrenaline and ATP

Erlinge, D., Brunkwall, J. & Edvinsson, L., 1994, I: Regulatory Peptides. 50, 3, s. 259-265

Tacrine treatment modifies cerebrospinal fluid neuropeptide levels in Alzheimer's disease

Minthon, L., Edvinsson, L. & Gustafson, L., 1994, I: Dementia (Switzerland). 5, 6, s. 295-301

Cortical blood flow during head-up postural change in subjects with orthostatic hypotension

Passant, U., Warkentin, S., Minthon, L., Fäldt, R. & Edvinsson, L., 1993, I: Clinical autonomic research : official journal of the Clinical Autonomic Research Society. 3, 5, s. 311-318

Human neuropeptide Y Y1 receptor antisense oligodeoxynucleotide specifically inhibits neuropeptide Y-evoked vasoconstriction

Erlinge, D., Edvinsson, L., Brunkwall, J., Yee, F. & Wahlestedt, C., 1993, I: European Journal of Pharmacology. 240, 1, s. 77-80

Interactions between cultured bovine arterial endothelial and smooth muscle cells: studies on uptake and degradation of low density lipoproteins by smooth muscle cells

Xu, C.-B., Stavenow, L., Liao, W., Erlinge, D. & Edvinsson, L., 1993, I: Pharmacology and Toxicology. 73, 5, s. 269-273

In-vivo effects of endothelin-1 and ETA receptor blockade on arterial, venous and capillary functions in skeletal muscle

Ekelund, U., Albert, U., Edvinsson, L. & Mellander, S., 1993, I: Acta Physiologica Scandinavica. 148, 3, s. 273-283

Mitogenic effects of ATP on vascular smooth muscle cells vs. other growth factors and sympathetic cotransmitters

Erlinge, D., Yoo, H., Edvinsson, L., Reis, D. J. & Wahlestedt, C., 1993, I: American Journal of Physiology - Heart and Circulatory Physiology. 265, 4, s. 1089-1097

Neuropeptides in cerebrospinal fluid of patients with Alzheimer's disease and dementia with frontotemporal lobe degeneration

Edvinsson, L., Minthon, L., Ekman, R. & Gustafson, L., 1993, I: Dementia (Switzerland). 4, 3-4, s. 167-71

Neuropeptide Y-like immunoreactivity and hypertension

Erlinge, D., Ekman, R., Thulin, T. & Edvinsson, L., 1992, I: Journal of Hypertension. 10, 10, s. 1221-1225

Redistribution of blood flow in the cerebral cortex of normal subjects during head-up postural change

Warkentin, S., Passant, U., Minthon, L., Karlson, S., Edvinsson, L., Fäldt, R., Gustafson, L. & Risberg, J., 1992, I: Clinical autonomic research : official journal of the Clinical Autonomic Research Society. 2, 2, s. 119-124

Sensory nerve terminal activity in severe hypertension as reflected by circulating calcitonin gene-related peptide (CGRP) and substance P

Edvinsson, L., Erlinge, D., Ekman, R. & Thulin, T., 1992, I: Blood Pressure. 1, 4, s. 223-229

γ -MSH increases during graded exercise in healthy subjects: comparison with plasma catecholamines, neuropeptides, aldosterone and renin activity

Valdemarsson, S., Andersson, D., Bengtsson, A., Bogren, M., Edvinsson, L. & Ekman, R., 1990 jan. 1, I: Clinical Physiology. 10, 4, s. 321-327 7 s.

Neuropeptide levels in Alzheimer's disease and dementia with frontotemporal degeneration

Minthon, L., Edvinsson, L., Ekman, R. & Gustafson, L., 1990, I: Journal of neural transmission. Supplementum. 30, s. 57-67

Forskningsmedel

Analysis of protein kinase Raf-MEK1/2-ERK1/2 and protein kinase C in early treatment to prevent late cerebral Ischemia in stroke

Edvinsson, L. (PI)

Edvince AB: 6 000 000,00 kr

2023/02/01 → 2026/12/31