

## **Publikationsliste Prof. Dr. M. Köhler**

### **Publikationen in internationalen Fachzeitschriften**

Steinhoff A, Pientka FK, Möckel S, Kettelhake A, Hartmann E, **Köhler M**, Depping R: Cellular oxygen sensing: Importins and Exportins are mediators of intracellular localisation of Prolyl-4-Hydroxylases PHD1 and PHD2. *Biophys. Res. Comm.* 387: 705-711, 2009

Brilli E, Scali M, Casarosa S, **Köhler M**, Bozzi Y: Seizures increase Importin- $\beta$ 1 Expression in NG2<sup>+</sup> Cells in the Rat Hippocampus. *Journal of Neuroscience Research* 87: 636-643, 2009

Gerstung von Brandenstein M, Abety AN, Depping R, Roth T, **Köhler M**, Dienes H-P, Fries JWU: A p38-p65 transcription complex induced by endothelin-1 mediates signal transduction in cancer cells. *BBA - Molecular Cell Research* 1783: 1613-1622, 2008

Depping R, Hilz A, Schindler SG, Friedrich B, Julkunen I, Metzen E, Hartmann E, **Köhler M**: Nuclear Translocation of Hypoxia-Inducible Factors (HIFs): Involvement of the Importin  $\alpha/\beta$  pathway. *BBA - Molecular Cell Research* 1783: 394 - 404, 2008

Shmidt T, Hampich F, Ridders M, Schultrich S, Hans VH, Tenner K, Vilianovich L, Qadri F, Alenina N, Hartmann E, **Köhler M**, Bader M: Normal brain development in importin  $\alpha$ 5 deficient mice. *Nature Cell Biol.* 9: 1337-1338, 2007

Mirski SEL, Sparks KE, Friedrich B, **Köhler M**, Mo YY, Beck WT, and Cole SPC: Topoisomerase II binds importin  $\alpha$  isoforms and exportin/CRM1 but does not shuttle between the nucleus and cytoplasm in proliferating cells. *Exp. Cell Res.* 313: 627-637, 2007

Friedrich B, Quensel C, Sommer T, Hartmann E, and **Köhler M**: Nuclear localization signal and protein context both mediate importin  $\alpha$  specificity of nuclear import substrates. *Mol. Cell. Biol.* 26: 8697-8709, 2006

Fagerlund R, Kinnunen L, **Köhler M**, Julkunen I, and Melen K: NF- $\kappa$ B is imported into the nucleus by importin  $\alpha$ 3 and importin  $\alpha$ 4. *J. Biol. Chem.* 208: 15924-15951, 2005

Quensel C, Friedrich B, Sommer T, Hartmann E, and **Köhler M**: In vivo analysis of importin  $\alpha$  proteins reveals cellular proliferation inhibition and substrate specificity. *Mol. Cell. Biol.* 24: 10246-10255, 2004

Wang W, Yang X, Kawai T, López de Silanes I, Mazan-Mamczarz K, Chen P, Chook Y, Quensel C, **Köhler M**, Gorospe M. AMP-activated protein kinase-regulated phosphorylation and acetylation of importin  $\alpha$ 1. *J. Biol. Chem.* 279: 48376-48388, 2004

Hanz S, Perlson E, Willis D, Zheng J, Massarwa R, Huerta JJ, Koltzenburg M, **Köhler M**, Minnen J, Twiss JF, and Fainzilber M: Axoplasmic importins enable retrograde injury signaling in lesioned nerve. *Neuron* 40: 1095-1104, 2003

Melén K, Fagerlund R, Franke J, **Köhler M**, Kinnunen L, and Julkunen I: Importin  $\alpha$  nuclear localization signal binding sites for STAT1, STAT2, and influenza A virus nucleoprotein. *J. Biol. Chem.* 278: 28193-18200, 2003

**Köhler M**, Fiebeler A, Hartwig M, Thiel S, Prehn S, Kettritz R, Luft FC, and Hartmann E: Differential expression of classical nuclear transport factors during cellular proliferation and differentiation. *Cell. Physiol. Biochem.* 12: 335-344, 2002

**Köhler M**, Görlich D, Hartmann E, and Franke J: Adenoviral E1A protein nuclear import is preferentially mediated by importin  $\alpha$ 3 in vitro. *Virology* 289: 186-191, 2001

**Köhler M**, Buchwalow IB, Alexander G, Christiansen M, Shagdarsuren E, Samoilova V, Hartmann E, Meervalu EMA, and Haller H: Increased Importin  $\alpha$  Protein Expression in Diabetic Nephropathy. *Kidney Int.* 60: 2263-2273, 2001

**Köhler M**, Schneider W, Göbel U, and Kettritz R: Renal anemia of an unusual origin. *Nephrol. Dial. Transplant.* 16: 2263-2264, 2001

Franke J, Reimann B, Hartmann E, **Köhler M**, and Wiedmann B: Evidence for a nuclear passage of nascent polypeptide-associated complex subunits in yeast. *J. Cell Sci.* 114: 2641-2648, 2001

Welch K, Franke J, **Köhler M**, Macara IA: RanBP3 contains an unusual nuclear localization signal that is imported preferentially by importin  $\alpha 3$ . *Mol. Cell. Biol.* 19: 8400-8411, 1999

**Köhler M**, Speck C, Christiansen M, Bischoff FR, Prehn S, Haller H, Görlich D, Hartmann E: Evidence for distinct substrate specificities of importin  $\alpha$ -family members in nuclear protein import. *Mol. Cell. Biol.* 19: 7782-7791, 1999

**Köhler M**, Haller H, Hartmann E: Nuclear protein transport pathways. *Exp. Nephrol.* 7: 290-294, 1999

**Köhler M**, Riess R, Schulze B: Eye-witness. *Nephrol. Dial. Transplant.* 13: 1031-1032, 1998

**Köhler M**, Ansieau S, Prehn S, Leutz A, Haller H, Hartmann E: Cloning of two novel importin- $\alpha$  subunits and analysis of the expression pattern of the importin- $\alpha$  protein family. *FEBS Lett.* 417: 104-108, 1997

Schulze-Lohoff E, **Köhler M**, Fees H, Reindl N, Sterzel RB: Divergent effects of arginine vasopressin and angiotensin II on proliferation and expression of the immediate early genes c-fos, c-jun and Egr-1 in cultured rat glomerular mesangial cells. *J. Hypertens.* 11: 127-134, 1993

## **Buchbeiträge**

**M. Köhler:** Hypertonie bei Dialysepatienten. In Lenz (Hrsg.): Hypertonie in Klinik und Praxis. Schattauer GmbH, 2008. ISBN 978-3-7945-2458-7

Herztransplantation und Ethik – Historische und philosophische Aspekte eines paradigmatischen Eingriffs der modernen Medizin. Hrsg. von A. Frewer, **M. Köhler** und C. Rödel. Verlag Palm und Enke, 1996. ISBN 3-7896-0569-2