

# PUBLIKATIONSLISTE KARSTEN HEMMRICH

## Publikationen

---

- **Soft tissue engineering by the implantation of autologous adipose precursor cells into the rabbit ear - pathophysiology in adipose tissue transplantation**, D. von Heimburg, D. Ulrich, K. Hemmrich, N. Pallua, *Clin. Exp. Plast. Surgery* 2001, 33:127-132
- **Revisiting an old anti-microbial drug: amphotericin B augments expression and activity of inducible nitric oxide synthase in activated endothelium**, C. Suschek, E. Bonmann, A. Kapsokefalou, K. Hemmrich, H. Kleinert, U. Forstermann, K.-D. Kröncke, C. Mahotka, V. Kolb-Bachofen, *Mol Pharmacol* 2002 Oct; 62(4): 936-46
- **Specific iNOS-targeted antisense knock-down in endothelial cells**, K. Hemmrich, C. V. Suschek, G. Lorzynski, O. Schnorr, V. Kolb-Bachofen, *Am J Physiol Cell Physiol.* 2003 Aug;285(2):C489-98. Epub 2003 Mar 26
- **The critical role of l-arginine in endothelial cell survival during oxidative stress**, C.V. Suschek, O. Schnorr, K. Hemmrich, O. Aust, L.-O. Klotz, H. Sies, V. Kolb-Bachofen, *Circulation* 2003; 107 (20): 2607-2614
- **iNOS activity is essential for endothelial stress gene expression protecting against oxidative damage**, K. Hemmrich, C. V. Suschek, G. Lorzynski, V. Kolb-Bachofen, *J Appl Physiol.* 2003 Nov; 95(5): 1937-46. Epub 2003 Jul 25
- **Preadipocyte-loaded collagen scaffolds for improved soft tissue engineering**, D. von Heimburg, M. Kuberka, R. Rendchen, K. Hemmrich, G. Rau, N. Pallua, *Int J Artif Organs.* 2003 Dec; 26(12): 1064-76
- **Comparison of viable Cell Yield from excised versus aspirated Adipose Tissue**, K. Hemmrich, D. von Heimburg, S. Haydarlioglu, H. Staiger, N. Pallua, *Cells Tissues Organs* 2004; 178: 87-92 (DOI: 10.1159/000081719)

## Publizierte Abstracts

---

- **Input of amphotericin B on endothelial expression and activity of the inducible nitric oxide synthase**, K. Hemmrich, C.V. Suschek, E. Bonmann, H. Kleinert, U. Förstermann, K.D. Kröncke, V. Kolb-Bachofen, *Immunobiology*, 2000; 203 (1-3): 570-570
- **The critical role of l-arginine in endothelial cell survival during oxidative stress**, C. V. Suschek, O. Schnorr, K. Hemmrich, O. Aust, L.-O. Klotz, H. Sies, V. Kolb-Bachofen, *Nitric Oxide Biol. Chem.* 2002; 6: 470-70
- **Protective stress response and regulation of inflammation by iNOS: Does limited substrate availability explain chronic inflammation?** V. Kolb-Bachofen, C. Suschek, O. Schnorr, K. Hemmrich, G. Lorzynski, A. Kapsokefalou and D. Bruch-Gerharz, *Nitric Oxide Biol. Chem.* 2002, 6: 414-14
- **Die Kultivierung humaner Präadipozyten im autologen Serum bietet neue Perspektiven für die Rekonstruktion von Weichgewebsdefekten**, K. Hemmrich, D. von Heimburg, S. Haydarlioglu and N. Pallua, *Plastische Chirurgie* 3 2003; Suppl. 1: 54-54
- **Antisense oligonucleotides to inducible nitric oxide synthase as intervention strategy in nitric-oxide mediated skin diseases?** K. Hemmrich, C. V. Suschek, G. Lorzynski, V. Kolb-Bachofen, *J Gene Med.* 2003; 5: S17-S17
- **Endothelial stress response is impaired by limited arginine availability or antisense mediated knock-down of inducible nitric oxide synthase.** K. Hemmrich, C. V. Suschek, G. Lorzynski, V. Kolb-Bachofen. *Eur J Cell Biol.* 2003; 82: 48-48

- **Comparison of viable cell yield from excised adipose tissue versus aspirated adipose tissue**, K. Hemmrich, S. Haydarlioglu, D. von Heimburg, H. Staiger, N. Pallua, *Eur J Plast Sur, Vol.9 , 2003, September*
- **Antisense oligonucleotides to inducible nitric oxide synthase as intervention strategy in nitric-oxide mediated skin diseases?**, K. Hemmrich, C. V. Suschek, G. Lerzynski and V. Kolb-Bachofen, *J Gene Med 2003; 5: S3-S31*
- **Optimized culturing and differentiation of human preadipocytes in human serum offers new chances for adipose tissue engineering**, K. Hemmrich, S. Haydarlioglu, D. von Heimburg and N. Pallua, *Int J Art Org, 2003; 26(7)*
- **Approaches how to optimize adipose tissue engineering**, K. Hemmrich, D. von Heimburg, C. V. Suschek, V. Kolb-Bachofen, N. Pallua, *Langenbeck's Archives of Surgery. 2004 Oct.; 389(5): 452-452*

## Publikationen im Druck

---

- **Optimized Differentiation of Human Preadipocytes in Human Serum offers new Chances for Adipose Tissue Engineering**, K. Hemmrich, D. von Heimburg, K. Cierpka, S. Haydarlioglu, N. Pallua, *accepted in Differentiation*
- **In vitro Oxygen Consumption in Mesenchymal Precursor Cells of the Adipogenic Lineage in undifferentiated versus differentiated State**, K. Hemmrich, D. von Heimburg, S. Zachariah, H. Staiger, N. Pallua, *in press in Respiratory Physiology & Neurobiology*

Aachen, 16.07.2005