

Publication List

Nr.	Authors, Title, Journal
1	Avci-Adali M. , Behring A., Keller T., Krajewski S., Schlensak C., Wendel H.P. (2014) Optimized conditions for successful transfection of human endothelial cells with in vitro synthesized and modified mRNA for induction of protein expression. <i>J Biol Eng.</i> 8(1):8. [Epub ahead of print]
2	Wilhelm N., Perle N., Simmoteit R., Schlensak C., Wendel H.P., Avci-Adali M. (2014) Use of synthetic single-stranded oligonucleotides as artificial test soiling for validation of surgical instrument cleaning processes. <i>BioMed Res Int. In Press</i>
3	Avci-Adali M. , Krajewski S., Perle N., Wilhelm N., Niederländer J., Stoll H., Schlensak C., Wendel H.P. (2014) Aptamers as biomimetic surface coatings for blood-contacting implants. Chapter 8 in <i>Biofunctional Surface Engineering</i> , DOI:10.4032/9789814411615
4	Avci-Adali M. , Steinle H., Michel T., Schlensak C., Wendel H.P. (2013) Potential capacity of aptamers to trigger immune activation in human blood. <i>PLoS One.</i> ;8(7):e68810.
5	Makowiecki C., Nolte A., Sutaj B., Keller T., Avci-Adali M. , Stoll H., Schlensak C., Wendel H. P., Walker T. (2013) New basic approach to treat non-small-cell-lung-cancer based on RNA-Interference. <i>Thoracic cancer</i> . DOI: 10.1111/1759-7714.12065
6	Avci-Adali M. , Stoll H., Wilhelm N., Perle N., Schlensak C., Wendel H.P. (2013) In vivo tissue engineering: mimicry of homing factors for self-endothelialization of blood contacting materials. <i>Pathobiology.</i> 80 (4):176-81
7	Avci-Adali M. , Kobba J., Neumann B., Lescan M., Perle N., Wilhelm N., Wiedmaier H., Schlensak C., Wendel H.P. (2013). Application of a rotating bioreactor consisting of low-cost and ready-to-use medical disposables for in vitro evaluation of the endothelialization efficiency of small-caliber vascular prostheses. <i>J Biomed Mater Res B Appl Biomater.</i> 101B (6):1061-1068
8	Avci-Adali M. , Wilhelm N., Perle N., Stoll H., Schlensak C., Wendel H. P. (2013). Absolute quantification of cell-bound DNA aptamers during SELEX. <i>Nucleic Acid Ther.</i> 23(2):125-30
9	Krajewski S., Prucek R., Panacek A., Avci-Adali M. , Nolte A., Straub A., Zboril R., Wendel H.P., Kvitek L. (2013) Hemocompatibility evaluation of different silver nanoparticle concentrations employing a modified Chandler-loop in vitro assay on human blood. <i>Acta Biomater.</i> 9 (7):7460-8
10	Nolte A., Walker T., Schneider M., Kray O., Avci-Adali M. , Ziemer G., Wendel H.P. (2011) Small-interfering RNA-eluting surfaces as a novel concept for intravascular local gene silencing. <i>Mol Med.</i> 17 (11-12): 1213–1222
11	Avci-Adali M. , Perle N., Ziemer G., Wendel H.P. (2011). Current concepts and new developments for autologous in vivo endothelialisation of biomaterials for intravascular applications. <i>Eur Cell Mater.</i> 21, 157-176
12	Avci-Adali M. , Metzger M., Perle N., Ziemer G., Wendel H.P. (2010). Pitfalls of cell-systematic evolution of ligands by exponential enrichment (SELEX): existing dead cells during in vitro selection anticipate the enrichment of specific aptamers. <i>Oligonucleotides</i> 20, 317-323
13	Avci-Adali, M. , Paul, A., Wilhelm, N., Ziemer, G., and Wendel, H. P. (2010). Upgrading SELEX technology by using lambda exonuclease digestion for single-stranded DNA generation. <i>Molecules</i> 15, 1-11
14	Avci-Adali, M. , Ziemer, G., and Wendel, H. P. (2010). Induction of EPC homing on biofunctionalized vascular grafts for rapid in vivo self-endothelialization – A review of current strategies. <i>Biotechnol. Adv.</i> 28, 119-129
15	Wendel, H. P., Avci-Adali, M. , and Ziemer, G. (2010). Endothelial progenitor cell capture stents – hype or hope?, <i>Int J Cardiol</i> 145, 115-117

16	Paul, A. *, Avci-Adali, M. * , Ziemer, G., and Wendel, H. P. (2009). Streptavidin-coated magnetic beads for DNA strand separation implicate a multitude of problems during cell-SELEX. <i>Oligonucleotides</i> 19, 243-254
17	Avci-Adali, M. , Nolte, A., Simon, P., Ziemer, G., and Wendel, H. P. (2009). Porcine EPCs downregulate stem cell markers and upregulate endothelial maturation markers during in vitro cultivation. <i>J. Tissue Eng Regen. Med.</i> 3, 512-520
18	Paul, A., Avci-Adali, M. , Neumann, B., Guo, K., Straub, A., Dietz, K., Ziemer, G., and Wendel, H. P. (2010). Aptamers influence the hemostatic system by activating the intrinsic coagulation pathway in an in vitro chandler-loop model. <i>Clin Appl Thromb Hemost</i> 16, 161-169
19	Avci-Adali, M. , Paul, A., Ziemer, G., and Wendel, H. P. (2008). New strategies for in vivo tissue engineering by mimicry of homing factors for self-endothelialisation of blood contacting materials. <i>Biomaterials</i> 29, 3936-3945
20	Wollenweber C., Baier HR., Adali M. , Bulic M., Hammann S., and Kötting J. (2002). Methoden zur Bestimmung der Nachweisgrenze pflanzlicher Urtinkturen auf Edelstahloberflächen. <i>Pharm. Ind.</i> 64, 816-821

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