

LIST OF PUBLICATIONS (28.11.2016)

REVIEWS & BOOK SECTIONS

- (31) **Wegener, J.** (2016) Manz, Dittrich, Pamme, Iossifidis: Bioanalytical Chemistry (2nd edition). *Anal. Bioanal. Chem.* **408/21**, 5669-5670.
- (30) Hajek, K.; Schmittlein, C.; Oberleitner, M.; Shin, I.; **Wegener, J.** (2016) Biosensors. *Encyclopedia of Life Sciences*, Wiley & Co.
- (29) **Wegener, J.** (2015) Cell-based microarrays for in vitro toxicology. *Annu. Rev. Anal. Chem.* **8**, 335-358.
- (28) Lukic, S.; **Wegener, J.** (2015) Impedimetric monitoring of cell-based assays. *Encyclopedia of Life Sciences*, Wiley & Co.
- (27) Sperber, M.; Hupf, C.; Lemberger, M.; Goricnik, B.; Hinterreiter, N.; Lukic, S.; Oberleitner, M.; Stolwijk, J.A.; **Wegener, J.** (2015) Monitoring the impact of Nanomaterials on animal cells by impedance analysis: a non-invasive, label-free and multi-modal approach. *Bioanalytical Reviews*.
- (26) Lemberger, M.; Hirsch, T.; **Wegener, J.** (2014) Carbon Nanodots: Synthesis, Characterization and Bioanalytical Applications. *Bioanalytical Reviews*.
- (25) **Wegener, J.**; Seebach, J. (2014) Experimental tools to monitor the dynamics of endothelial barrier function: a survey of in vitro approaches. *Cell Tissue Res.* 355, 485-514.
- (24) **Wegener, J.** (2013) Tierische Zellen als Sensoren zur Bioaktivitätsprüfung: Effekt statt Konzentrationsanalytik mit label-freien Methoden. *Blick in die Wissenschaft.* **27**, 19-23.
- (23) **Wegener, J.** (2013) Bioanalytik: Eine interdisziplinäre Wissenschaft mit großem Anwendungspotential. *Blick in die Wissenschaft* **27**, 3
- (22) Stolwijk, J.; Michaelis, S., **Wegener, J.** (2012) Cell growth and cell death studied by Electric Cell-Substrate Impedance Sensing. In: *Cancer Metastasis and Biology & Treatment*. Volume: Electric Cell-Substrate Impedance Sensing and Cancer Metastasis. Ed. Wen G. Jiang, *Springer Heidelberg*. In press
- (21) Michaelis, S.; Robelek, R.; **Wegener, J.** (2012) Studying Cell-Surface Interactions in vitro: A survey of experimental approaches and techniques. *Adv. Biochem. Engin. Biotechn.* **126**, 33-66.
- (20) Stolwijk, J.; Michaelis, S.; Rädler, U.; **Wegener, J.** (2010) Impedimetrische Assays zur label-freien Analyse tierischer Zellen. *GIT – Laborfachzeitschrift*, **03**, 202-205. [PDF](#)
- (19) Raedler, U.; **Wegener, J.** (2009) Impedanz-basiertes Screening adhärenter Zellen: automatisiert, nicht-invasiv, label-frei und vielseitig. *Biospektrum* **05**, 474-476. [PDF](#)
- (18) **Wegener, J.** (2009) Impedance Analysis of Cell Junctions. In: *Nanotechnology Ed. H. Fuchs*. VCH Weinheim. [PDF](#)
- (17) **Wegener, J.**; Reiß, B.; Keese, C.R.; Giaever, I. (2006) Die Impedanzspektroskopie als analytisches Verfahren zur Untersuchung lebender Zellen *in vitro*. In: *Impedanzspektroskopie*. Herausgeber: Haus der Technik Aachen.

- (16) Heitmann, V.; Reiß, B.; **Wegener, J.** (2006) The quartz crystal microbalance in cell biology: basics and applications. In: *Piezoelectric Sensors*. Eds.: Steinem, C.; Janshoff, A. Springer Verlag, Berlin. (in press)
- (15) **Wegener, J.**; (2006) Cell-Surface Interactions. In: *Encyclopedia of Biomedical Engineering*. Wiley & Sons, Chichester. [PDF](#)
- (14) Freiesleben-de Blasio, B.; **Wegener, J.**; (2006) Impedance Spectroscopy. In: *Encyclopedia of Medical Technologies and Instrumentation*. Wiley & Sons Inc., Chichester. [PDF](#)
- (13) Reiss, B.; Wiemann, V.; Balani, P.; Miele, S.; Michaelis, St.; Rommel, C.; **Wegener, J.**; (2005) In situ Analyse des Zell-Substrat-Kontaktes. *BioForum* 4/2005. [PDF](#)
- (12) Janshoff, A.; Steinem, C.; **Wegener, J.**; (2004) Non-invasive electrical sensor devices to monitor living cells online. In: *Ultrathin electrochemical chemo- and biosensors: technology and performance*. Ed.: V.M. Mirsky; Springer Verlag. (ISBN: 354021285X).
- (11) **Wegener, J.** (2004) Cell Junctions. *Encyclopedia of Life Sciences*. Nature Publishing Group / Macmillan Publishers Ltd. [PDF](#)
- (10) **Wegener, J.**; (2003) Lebende Zellen als Sensoren. *Forschungsjournal der Universität Münster*. [PDF](#)
- (9) Angelow, S., **Wegener, J.**, Galla, H.-J. (2002) Transport and permeability characteristics of the blood-CSF Barrier *in vitro*. In: *Blood-spinal cord and brain barriers in health and disease*. Ed.: Sharma H.S., Elsevier Science / Academic Press (ISBN: 0-12-639011-8).
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- (5) Engelbertz, C.; Korte, D.; Nitz, T.; Franke, H.; Haselbach, M.; **Wegener, J.**; Galla, H.-J. (2000) The development of in vitro models for the blood-brain and the blood-csf barriers. In: *The blood-brain barrier and drug delivery to the CNS*. Eds.: Begley, Bradbury, Kreuter. Marcel Dekker Inc. , p. 33-64 (ISBN: 0-8247-0394-4).
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- (3) **Wegener, J.**; Franke, H.; Decker, S.; Erben, M.; Galla, H.-J. (1996) New techniques to study transepithelial and transendothelial electrical resistances of cultured cells. *Adv. Exp. Med. Biol.*, 147-152.

- (2) **Wegener, J.**; Galla, H.-J. (1996) The role of non-lamellar lipid structures in the formation of tight junctions. *Chem. Phys. Lipids* **81**, 229-255. [PDF](#)
- (1) Janshoff, A.; **Wegener, J.**; Steinem, C.; Sieber, M.; Galla, H.-J. (1996) Applications of impedance spectroscopy in biochemistry and biophysics. *Acta Biochim. Pol.* **43**, 339-348.