

# **Publikationsbericht 2007**

**Institut für Medizinische Mikrobiologie**



**Otto-von-Guericke-Universität Magdeburg**

**Medizinische Fakultät**

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## 1. Leitung

Prof. Dr. med. Wolfgang König, Direktor des Instituts

## 2. Hochschullehrer

Univ.-Prof. Dr. med. habil. Wolfgang König  
Univ.-Prof. Dr. med. habil. Dirk Schlüter  
(apl) Prof. Dr. rer. nat. Brigitte König

## 3. Veröffentlichungen

### *Originalartikel in begutachteten internationalen Zeitschriften*

#### **Arnold, Ralf; Neumann, Manfred; König, Wolfgang**

Peroxisome proliferator-activated receptor-[gamma] agonists inhibit respiratory syncytial virus-induced expression of intercellular adhesion molecule-1 in human lung epithelial cells

In: Immunology. - Oxford [u.a.]: Blackwell, Bd. 121.2007, 1, S. 71-81; [Link unter URL](#)

[Imp.fact.: 3.674]

#### **Blumenthal, Britta; Hoffmann, Claudia; Aktories, Klaus; Backert, Steffen; Schmidt, Gudula**

The cytotoxic necrotizing factors from Yersinia pseudotuberculosis and from Escherichia coli bind to different cellular receptors but take the same route to the cytosol

In: Infection and immunity. - Washington, DC: Soc., Bd. 75.2007, 7, S. 3344-3353; [Link unter URL](#)

[Imp.fact.: 4.004]

#### **Brandt, Sabine; Shafikhani, Sasha; Balachandran, Priya; Jin, Shouguang; Hartig, Roland; König, Wolfgang; Engel, Joanne; Backert, Steffen**

Use of a novel coinfection system reveals a role for Rac1, H-Ras, and CrkII phosphorylation in Helicobacter pylori-induced host cell actin cytoskeletal rearrangements

In: Federation of European Microbiological Societies: FEMS immunology and medical microbiology. - Oxford [u.a.]: Blackwell, Bd. 50.2007, 2, S. 190-205; [Link unter URL](#)

[Imp.fact.: 2.281]

#### **Deckert, Martina; Virna, Simona; Sakowicz-Burkiewicz, Monika; Lütjen, Sonja; Soltek, Sabine; Bluethmann, Horst; Schlüter, Dirk**

Interleukin-1 receptor type 1 is essential for control of cerebral but not systemic listeriosis

In: The American journal of pathology. - Bethesda, Md. : American Society for Investigative Pathology, Bd. 170.2007, 3, S. 990-1002; [Link unter URL](#)

[Imp.fact.: 5.917]

#### **Ghebremedhin, Beniam; König, Wolfgang; Witte, W. ; Hardy, K. J. ; Hawkey, P. M. ; König, Brigitte**

Subtyping of ST22-MRSA-IV (Barnim epidemic MRSA strain) at a university clinic in Germany from 2002 to 2005

In: The journal of medical microbiology. - Reading: SGM, Bd. 56.2007, 3, S. 365-375; [Link unter URL](#)

[Imp.fact.: 2.180]

**Gilad, Jacob; Schwartz, David; Layer, Franziska; Ghebremedhin, Beniam; Moder, Karen-Anja; König, Wolfgang; König, Brigitte**

Identification of Staphylococcus species with the VITEK 2 system: the case of Staphylococcus hominis. [Letter to the Editor]

In: Journal of clinical microbiology. - Washington, DC: American Society for Microbiology, Bd. 45.2007, 2, S. 685-686;

[Link unter URL](#)

[Imp.fact.: 3.445]

**Kalinski, Thomas; Jentsch-Ullrich, Kathleen; Fill, Sara; König, Brigitte; Costa, Serban-Dan; Roessner, Albert**

Lethal candida sepsis associated with myeloperoxidase deficiency and pre-eclampsia - case report

In: Acta pathologica, microbiologica et immunologica Scandinavica. - Oxford: Blackwell Munksgaard, Bd. 115.2007, 7, S. 875-880; [Link unter URL](#)

[Imp.fact.: 1.875]

**Krause-Gruszczynska, Malgorzata; Alphen, Lieke B. van; Oyarzabal, Omar A. ; Alter, Thomas; Hänel, Ingrid; Schliephake, Annette; König, Wolfgang; Putten, Jos P. M. van; Konkel, Michael E. ; Backert, Steffen**

Expression patterns and role of the CadF protein in Campylobacter jejuni and Campylobacter coli

In: Federation of European Microbiological Societies: FEMS microbiology letters. - Oxford [u.a.]: Blackwell, Bd. 274.2007, 1, S. 9-16; [Link unter URL](#)

[Imp.fact.: 2.068]

**Krause-Gruszczynska, Malgorzata; Rohde, Manfred; Hartig, Roland; Genth, Harald; Schmidt, Gudula; Keo, Thormika; König, Wolfgang; Miller, William G. ; Konkel, Michael E. ; Backert, Steffen**

Role of the small Rho GTPases Rac1 and Cdc42 in host cell invasion of Campylobacter jejuni

In: Cellular microbiology. - Oxford: Blackwell, Bd. 9.2007, 10, S. 2431-2444; [Link unter URL](#)

[Imp.fact.: 5.070]

**Kwok, Terry; Zabler, Dana; Urman, Sylwia; Rohde, Manfred; Hartig, Roland; Wessler, Silja; Misselwitz, Rolf; Berger, Jürgen; Sewald, Norbert; König, Wolfgang; Backert, Steffen**

Helicobacter exploits integrin for type IV secretion and kinase activation

In: Nature. - London: Nature Publishing Group, Bd. 449.2007, 7164, S. 862-866; [Link unter URL](#)

[Imp.fact.: 26.681]

**Layer, Franziska; Ghebremedhin, Beniam; König, Wolfgang; König, Brigitte**

Differentiation of Staphylococcus spp. by terminal-restriction fragment length polymorphism analysis of glyceraldehyde-3-phosphate dehydrogenase-encoding gene

In: Journal of microbiological methods. - Amsterdam: Elsevier, Bd. 70.2007, 3, S. 542-549; [Link unter URL](#)

[Imp.fact.: 2.442]

**Moder, Karen-Anja; Layer, Franziska; König, Wolfgang; König, Brigitte**

Rapid screening of clarithromycin resistance in Helicobacter pylori by pyrosequencing

In: The journal of medical microbiology. - Reading: SGM, Bd. 56.2007, 10, S. 1370-1376; [Link unter URL](#)

[Imp.fact.: 2.180]

**Moese, Stefan; Selbach, Matthias; Brinkmann, Volker; Karlas, Alexander; Haimovich, Beatrice; Backert, Steffen; Meyer, Thomas F.**

The Helicobacter pylori CagA protein disrupts matrix adhesion of gastric epithelial cells by dephosphorylation of vinculin

In: Cellular microbiology. - Oxford: Blackwell, Bd. 9.2007, 5, S. 1148-1161; [Link unter URL](#)

[Imp.fact.: 5.070]

**Mueller, Ann-Kristin; Deckert, Martina; Heiss, Kirsten; Goetz, Kristin; Matuschewski, Kai; Schlüter, Dirk**

Genetically attenuated Plasmodium berghei liver stages persist and Elicit sterile protection primarily via CD8 T cells

In: The American journal of pathology. - Bethesda, Md. : American Society for Investigative Pathology, Bd. 171.2007, 1, S. 107-115; [Link unter URL](#)

[Imp.fact.: 5.917]

**Oyarzabal, Omar A. ; Backert, Steffen; Nagaraj, Manonmani; Miller, Robert S. ; Hussain, Syeda K. ; Oyarzabal, Esteban A.**

Efficacy of supplemented buffered peptone water for the isolation of Campylobacter jejuni and C. coli from broiler retail products

In: Journal of microbiological methods. - Amsterdam: Elsevier, Bd. 69.2007, 1, S. 129-136; [Link unter URL](#)

[Imp.fact.: 2.442]

**Oyarzabal, Omar A. ; Rad, Roland; Backert, Steffen**

Conjugative transfer of chromosomally encoded antibiotic resistance from Helicobacter pylori to Campylobacter jejuni

In: Journal of clinical microbiology. - Washington, DC: American Society for Microbiology, Bd. 45.2007, 2, S. 402-408;

[Link unter URL](#)

[Imp.fact.: 3.445]

**Potturi-Venkata, L.-P. ; Backert, Steffen; Lastovica, A. J. ; Vieira, S. L. ; Norton, R. A. ; Miller, Robert S. ; Pierce, S. ; Oyarzabal, Omar A.**

Evaluation of different plate media for direct cultivation of Campylobacter species from live broilers

In: Poultry science. - [Wechselnde Verlagsorte]: Assoc., Bd. 86.2007, 7, S. 1304-1311; [Link unter URL](#)

[Imp.fact.: 1.656]

**Schmidt, Julia; König, Brigitte; Reichl, Udo**

Characterization of a three bacteria mixed culture in a chemostat - evaluation and application of a quantitative terminal-restriction fragment length polymorphism (T-RFLP) analysis for absolute and species specific cell enumeration

In: Biotechnology and bioengineering. - New York, NY [u.a.]: Wiley, Bd. 96.2007, 4, S. 738-756; [Link unter URL](#)

[Imp.fact.: 2.483]

**Tammer, Ina; Brandt, Sabine; Hartig, Roland; König, Wolfgang; Backert, Steffen**

Activation of Abl by Helicobacter pylori - a novel kinase for CagA and crucial mediator of host cell scattering

In: Gastroenterology. - Philadelphia, Pa. : Elsevier, Bd. 132.2007, 4, S. 1309-1319; [Link unter URL](#)

[Imp.fact.: 12.457]

**Tammer, Ina; Seibold, Michael; Krause, Hardy; Tintelnot, Kathrin; König, Wolfgang; König, Brigitte**

Successful topical therapy with voriconazole: Pseudallescheriasis after injury

In: The journal of trauma. - Baltimore, Md. : Lippincott Williams & Wilkins, Bd. 62.2007, 5, S. 1295-1297;

[Link unter URL](#)

[Imp.fact.: 2.035]

**Thies, Frank Lothar; König, Wolfgang; König, Brigitte**

Rapid characterization of the normal and disturbed vaginal microbiota by application of 16S rRNA gene terminal RFLP fingerprinting

In: The journal of medical microbiology. - Reading: SGM, Bd. 56.2007, 6, S. 755-761; [Link unter URL](#)

[Imp.fact.: 2.180]

**Vanderberg, Jerome; Mueller, Ann-Kristin; Heiss, Kirsten; Goetz, Kristin; Matuschewski, Kai; Deckert, Martina; Schlüter, Dirk**

Assessment of antibody protection against malaria sporozoites must be done by mosquito injection of sporozoites.

Correspondence

In: The American journal of pathology. - Bethesda, Md. : American Society for Investigative Pathology, Bd. 171.2007, 4, S. 1405-1406; [Link unter URL](#)

[Imp.fact.: 5.917]

**Originalartikel in begutachteten nationalen Zeitschriften**

**Backert, Steffen; Fischer, Wolfgang**

Transport von Proteinen und DNA - Typ IV-Sekretion bei Gram-negativen Bakterien

In: Naturwissenschaftliche Rundschau. - Stuttgart: Wiss. Verl.-Ges., Bd. 60.2007, 1, S. 10-17

**Habilitationen**

**Arnold, Ralf**

Das respiratorische Syncytialvirus - Mechanismen der primären Entzündungsantwort und Darstellung neuer  
Therapiekonzepte. - Magdeburg, Univ., Medizin. Fak., Habil.-Schr., 2007; 227 Bl: Ill., graph. Darst

**Backert, Steffen**

Funktion des Helicobacter pylori CagA-Proteins für die Signaltransduktion in Wirtszellen. - Magdeburg, Univ.,  
Medizin. Fak., Habil.-Schr., 2007; getr. Zählung: Ill., graph. Darst

**Dissertationen**

**Petersen, Manuela**

Untersuchungen zur Modulation von Toll-like Rezeptor 2 und Toll-like Rezeptor 4 in humanen Leukozyten durch das  
Respiratory Syncytial Virus. - Magdeburg, Univ., Medizin. Fakultät, Diss., 2007; 93 Bl: Ill., graph. Darst