



MEDIZINISCHE  
FAKULTÄT

# Forschungsbericht 2020

Institut für Klinische Chemie und Pathobiochemie

# INSTITUT FÜR KLINISCHE CHEMIE UND PATHOBIOCHEMIE

Leipziger Str. 44, 39120 Magdeburg  
Tel. 49 (0)391 67 13900, Fax 49 (0)391 67 13902  
katrin.borucki@med.ovgu.de

## 1. LEITUNG

OÄ Dr. med. Katrin Borucki (komm. Institutsleiterin)

## 2. FACHBEREICHE

Klinische Chemie  
Pathologische Biochemie

## 3. FORSCHUNGSPROFIL

- Spezialisierte Lipid- und Apolipoproteindiagnostik zur Erforschung des Atheroskleroserisikos
- Untersuchung des postprandialen Lipoproteinmetabolismus und dessen Modulation
- Untersuchungen zur therapeutischen Lipidsenkung
- Diagnose früher Stoffwechselstörungen bei Adipositas
- Adipositas und Proinflammation
- Validierung neuer Parameter zum Nachweis von Alkoholabusus
- Entwicklung alternativer Programme zur Gewichtsreduktion
- Gewichtsreduktion bei Diabetikern und assoziierte biochemische und funktionelle Veränderung
- Einfluß von UGT-Varianten auf den Ethanolabbau
- Austauschprozesse von Fettsäureäthylestern
- Evaluierung und Standardisierung gerinnungsanalytischer Prüfmethode und Geräte
- Untersuchungen zur klinischen Relevanz von neuentwickelten gerinnungsanalytischen Labormethoden
- Klinische Relevanz der therapeutischen Homocysteinsenkung
- Biochemische und physikalische Untersuchungen zur Endothelfunktion
- Fluss-medierte Vasodilatation (FMD) unter lipidsenkender Therapie

## 4. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

**Biemann, Ronald; Roomp, Kirsten; Noor, Fozia; Krishnan, Shruthi; Li, Zhen; Shahzad Hussain, Khurram; Borucki, Katrin; Luley, Claus; Schneider, Jochen; Isermann, Berend**

Gene expression profile of CD14<sup>+</sup> blood monocytes following lifestyle-induced weight loss in individuals with metabolic syndrome

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature - Vol. 10.2020, article 17855, insgesamt 12 Seiten

[Imp.fact.: 3.998]

**Brandt, Sabine; Ballhause, Tobias Malte; Bernhardt, Anja; Becker, Annika; Salaru, Delia; Le-Deffge, Hien Minh; Fehr, Alexander; Fu, Yan; Philippsen, Lars; Djudjaj, Sonja; Müller, Andreas J.; Kramann, Rafael; Ibrahim, Mahmoud; Geffers, Robert; Siebel, Chris; Isermann, Berend; Heidel, Florian; Lindquist, Jonathan A.; Mertens, Peter Rene**

Fibrosis and immune cell infiltration are separate events regulated by cell-specific receptor Notch3 expression

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[Imp.fact.: 9.274]

**Bukowska, Alicja; Schild, Lorenz; Bornfleth, Philipp; Peter, Daniela; Wiese-Rischke, Cornelia; Gardemann, Andreas; Isermann, Berend; Walles, Thorsten; Goette, Andreas**

Activated clotting factor X mediates mitochondrial alterations and inflammatory responses via protease-activated receptor signaling in alveolar epithelial cells

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[Imp.fact.: 3.263]

**Geisler, Daniel; Borchardt, Viola; Böhm, Ilka; King, Joseph Adam; Tam, Friederike Ingrid Waltraud; Marxen, Michael; Biemann, Ronald; Rößner, Veit; Walter, Martin; Ehrlich, Stefan**

Altered global brain network topology as a trait marker in patients with anorexia nervosa

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Splicing factor YBX1 mediates persistence of JAK2-mutated neoplasms

Nature : international weekly journal of science - London [u.a.]: Nature Publ. Group, Bd. 588 (2020), 7836, S. 157-163

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**Madhusudhan, Thati; Ghosh, Sanchita; Wang, Hongjie; Dong, Wei; Gupta, Dheerendra; Elwakiel, Ahmed; Stoyanov, Stoyan; Al-Dabet, Moh'd Mohanad; Krishnan, Shruthi; Biemann, Ronald; Nazir, Sumra; Zimmermann, Silke; Mathew, Akash; Gadi, Ihsan; Rana, Rajiv; Zeng-Brouwers, Jinyang; Möller, Marcus Johannes; Schaefer, Liliana; Esmon, Charles T.; Kohli, Shrey; Reiser, Jochen; Rezaie, Alireza R.; Ruf, Wolfram; Isermann, Berend**

Podocyte integrin- $\beta$ 3 and activated protein C coordinately restrict RhoA signaling and ameliorate diabetic nephropathy

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Surgeons' participation in the development of collaboration and management competencies in undergraduate medical education

PLOS ONE - San Francisco, California, US : PLOS - Vol. 15.2020, 6, article e0233400, insges. 15 Seiten

[Imp.fact.: 2.74]

**Steiner, Johann; Frodl, Thomas; Schiltz, Kolja; Dobrowolny, Henrik; Jacobs, Roland; Fernandes, Brisa S.; Guest, Paul C.; Meyer-Lotz, Gabriela; Borucki, Katrin; Bahn, Sabine; Bogerts, Bernhard; Falkai, Peter; Bernstein, Hans-Gert**

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**Steiner, Johann; Schiltz, Kolja; Stoecker, Winfried; Teegen, Bianca; Dobrowolny, Henrik; Meyer-Lotz, Gabriela; Pennewitz, Malte; Borucki, Katrin; Frodl, Thomas; Bernstein, Hans-Gert**

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[Imp.fact.: 6.633]

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Peptide YY336 concentration in acute- and long-term recovered anorexia nervosa

European journal of nutrition - Darmstadt : Steinkopff, Bd. 59 (2020), 8, S. 3791-3799

[Imp.fact.: 4.664]

**Wacker, Max; Betke, Ulf; Borucki, Katrin; Hülsmann, Jörn; Awad, George; Varghese, Sam; Scherner, Maximilian Philipp; Hansen, Michael; Wippermann, Jens; Veluswamy, Priya**

An in vitro hemodynamic loop model to investigate the hemocompatibility and host cell activation of vascular medical devices

JoVE - [S.I.] - 2020, 162, article e61570, 21 Seiten

[Imp.fact.: 1.163]

## BEGUTACHTETE BUCHBEITRÄGE

**Guest, Paul C.; Bernstein, Hans-Gert; Dobrowolny, Henrik; Borucki, Katrin; Westphal, Sabine; Steiner, Johann**

Measurement of a surrogate biomarker for arginine vasopressin secretion in association with physiometric and molecular biomarkers of aging

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Methods to detect endoplasmic reticulum stress and apoptosis in diabetic nephropathy

Diabetic Nephropathy : Methods and Protocols , 1st ed. 2020 - New York, NY : Humana ; Gnudi, Luigi, S. 153-173

**ABSTRACTS**

**Bornfleth, Philipp; Euchner, Frederike; Bruns, Christian; Plaumann, Markus; Schindler, Sebastian; Herrmann, Tim; Bernarding, Johannes; Powerski, Maciej Janusz; Pech, Maciej**

Retrospektive Analyse der Krankenhaussterblichkeit nach operativen Eingriffen bei Leberkarzinomen im Rahmen eines MIRACUM MII Pilotdatenprojekts am Standort Magdeburg

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## 1. LEITUNG

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OÄ Dr. med. Katrin Borucki (Arbeitsbereichsleiterin)

## 2. FORSCHUNGSPROFIL

In der Forschung befassen wir uns prinzipiell mit den Schwerpunkten:

- Die Bedeutung der Protease abhängigen Signaltransduktion für die zelluläre Funktion
- Mechanismen der plazentaren Vaskularisation und Trophoblastendifferenzierung
- Adipositas und Proinflammation

### 3. VERÖFFENTLICHUNGEN

#### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

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# BEREICH PATHOLOGISCHE BIOCHEMIE

Institut für Klinische Chemie und Pathobiochemie  
Bereich Pathobiochemie  
Leipziger Str.44  
39120 Magdeburg

## 1. LEITUNG

Prof. Dr. med. Dr. rer. nat. Andreas Gardemann

## 2. HOCHSCHULLEHRER/INNEN

Prof. Dr. med. Dr. rer. nat. Andreas Gardemann

## 3. FORSCHUNGSPROFIL

Die Forschungsaktivitäten der Pathologischen Biochemie haben das Ziel, die Bedeutung von speziellen Lipiden in der Tumorentwicklung und im Entzündungsgeschehen zu erforschen. Darüber hinaus wird die Rolle von speziellen Proteinen (Proteasen) bei Chronischer Obstruktiver Lungenentzündung (COPD) und bei Herzrhythmusstörungen untersucht.

- Lipide als Marker für den oxidativen Stress
- Rolle der Mitochondrien bei der Gewebsschädigung durch Ischämie und Reperfusion
- Anti-inflammatorische Lipide als Marker chronisch entzündlicher Erkrankungen
- Rolle des Cardiolipins im Tumorstoffwechsel

## 4. KOOPERATIONEN

- Dr. Georg Kensah
- Prof. Dr. Elmar Kirches
- Prof. Dr. Gerburg Keilhoff
- Prof. Dr. Rüdiger Braun-Dullaes
- Prof. Dr. Uwe Lendeckel
- Prof. Dr. Walter Halangk

## 5. VERÖFFENTLICHUNGEN

### BEGUTACHTETE ZEITSCHRIFTENAUFsätze

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[Imp.fact.: 3.263]

**Schild, Lorenz; Döring, Mona; Jansing, Steffen; Peter, Daniela; Jagirdar, Gayatri; Wolke, Carmen; Gardemann, Andreas; Lendeckel, Uwe**

Proliferation of C6 glioma cells requires the phospholipid remodeling enzyme tafazzin independent of cardiolipin composition

Biochimica et biophysica acta : BBA - Amsterdam : Elsevier - Bd. 1865.2020, 3, Art.-Nr. 158596

[Imp.fact.: 4.519]

**Wolke, Carmen; Gürtler, Sarah; Peter, Daniela; Weingärtner, Jens; Domaska, Grayna; Lendeckel, Uwe; Schild, Lorenz**

Vitamin B6 deficiency in new born rats affects hepatic cardiolipin composition and oxidative phosphorylation

Experimental biology and medicine : EBM ; official journal of the Society for Experimental Biology and Medicine - London : Sage, Bd. 244 (2020), 18, S. 1619-1628

[Imp.fact.: 3.139]