



MEDIZINISCHE
FAKULTÄT

Forschungsbericht 2020

Bereich Klinische Chemie

BEREICH KLINISCHE CHEMIE

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1. LEITUNG

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

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

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⁺ 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; Philipson, 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

Journal of the American Society of Nephrology : JASN / American Society of Nephrology - Washington, DC : American Society of Nephrology, Bd. 31 (2020), 11, S. 2589-2608

[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

European journal of pharmacology : EJP - New York, NY [u.a.]: Elsevier - Vol. 869.2020, article 172875, insgesamt 13 Seiten

[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

Psychological medicine : a journal for research in psychiatry and the allied science - Cambridge : Cambridge Univ. Press, Bd. 50 (2020), 1, S. 107-115

[Imp.fact.: 5.813]

Jayavelu, Ashok Kumar; Schnöder, Tina; Perner, Florian; Herzog, Carolin; Meiler, Arno; Krishnamoorthy, Gurumoorthy; Huber, Nicolas; Mohr, Juliane; Edelmann-Stephan, Bärbel; Austin, Rebecca; Brandt, Sabine; Palandri, Francesca; Schröder, Nicolas Wolfgang Jörg; Isermann, Berend; Edlich, Frank; Sinha, Amit U.; Ungelenk, Martin; Hübner, Christian; Zeiser, Robert; Rahmig, Susann; Waskow, Claudia; Coldham, Iain; Ernst, Thomas; Hochhaus, Andreas; Jilg, Stefanie; Jost, Philipp J.; Mullally, Ann; Bullinger, Lars; Mertens, Peter Rene; Lane, Steven W.; Mann, Matthias; Heidel, Florian

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

[Imp.fact.: 42.779]

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- β 3 and activated protein C coordinately restrict RhoA signaling and ameliorate diabetic nephropathy

Journal of the American Society of Nephrology : JASN / American Society of Nephrology - Washington, DC : American Society of Nephrology, Bd. 31 (2020), 8, S. 1762-1780

[Imp.fact.: 9.274]

Menzel, Juliane; Biemann, Ronald; Longree, Alessa; Isermann, Berend; Mai, Knut; Schulze, Matthias Bernd; Abraham, Klaus; Weikert, Cornelia

Associations of a vegan diet with inflammatory biomarkers

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature - Vol. 10.2020, Art.-Nr. 1933, insgesamt 8 Seiten

[Imp.fact.: 3.998]

Menzel, Juliane; Jabakhanji, Afraa; Biemann, Ronald; Mai, Knut; Abraham, Klaus; Weikert, Cornelia

Systematic review and meta-analysis of the associations of vegan and vegetarian diets with inflammatory biomarkers

Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature - Vol. 10.2020, 21736, insgesamt 11 Seiten

[Imp.fact.: 3.998]

Rothdiener, Miriam; Griewatz, Jan; Meder, Adrian; Dall'Acqua, Alessandro; Obertacke, Udo; Kirschniak, Andreas; Borucki, Katrin; Koenig, Sarah; Rüsseler, Miriam; Steffens, Sandra; Steinweg, Bernhard Albert; Lammerding-Köppel, Maria

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

Innate immune cells and c-reactive protein in acute first-episode psychosis and schizophrenia - relationship to psychopathology and treatment

Schizophrenia bulletin - Oxford : Oxford Univ. Press, Bd. 46 (2020), 2, S. 363-373

[Imp.fact.: 7.958]

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

Association of thyroid peroxidase antibodies with anti-neuronal surface antibodies in health, depression and schizophrenia - complementary linkage with somatic symptoms of major depression

Brain, behavior and immunity - Orlando, Fla. [u.a.]: Elsevier, Bd. 90 (2020), S. 47-54

[Imp.fact.: 6.633]

Tam, Friederike Ingrid Waltraud; Seidel, Maria Mercedes; Böhm, Ilka; Ritschel, Franziska; Bahnsen, Klaas; Biemann, Ronald; Weidner, Kerstin; Rößner, Veit; Ehrlich, Stefan

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

Clinical and Preclinical Models for Maximizing Healthspan : Methods and Protocols , 1st ed. 2020. - New York, NY : Springer US ; Guest, Paul C., S. 251-262

Shahzad Hussain, Khurram; Ghosh, Sanchita; Mathew, Akash; Isermann, Berend

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

65th Annual Meeting of the German Association for Medical Informatics, Biometry and Epidemiology (GMDS), Meeting of the Central European Network (CEN: German Region, Austro-Swiss Region and Polish Region) of the International Biometric Society (IBS) including the 66th Biometric Colloquium of the German Region : Berlin, September 6. - 9. 2020 , 2020, insges. 2 S.