

**VORLÄUFIGES PROGRAMM**

**Mittwoch, 21.02.2018**

15:00 - 17:00 Uhr **Workshop „PCR assay design“ mit Stephen A. Bustin,**  
Anglia Ruskin University, UK

16:00 - 17:00 Uhr **Hochschullehrerversammlung**

17:30 - 19:00 Uhr **Welcome Reception, Plenary Posters & Ausstellung**

19:00 - 20:00 Uhr **Eröffnung und Keynote Lecture**  
Vorsitz: Reinhold Erben, Herbert Fuhrmann

**Stephen A. Bustin,** Anglia Ruskin University, UK

***Improving the analysis of quantitative PCR data  
in Veterinary research***

**Donnerstag, 22.02.2018**

**Session [08:30 - 10:00 Uhr]**  
**Epitheliale Barriere und Mikrobiom-Stoffwechsel-Interaktionen**  
Vorsitz: Teresa Valencak, Qendrim Zebeli

08:30 - 09:30 Uhr **Keynote Lecture**  
**Mirko Trajkovski,** Universität Genf

***Gut microbiota and metabolic health***

09:30 - 10:00 Uhr **Vorträge (je 10 Min. + 5 Min. Diskussion)**

**V01** **Functional role of nicotinic receptors in the colon**  
Lena Lottig, Martin Diener, Gießen

**V02** **Inhibition of the non-neuronal cholinergic system alters the  
expression of tight junction proteins in PoCo83-3 cells**  
Bastian Kaiser, Johannes Kacza, Gotthold Gäbel, Helga Pfannkuche,  
Leipzig

10:00 - 10:30 Uhr **Kaffeepause und Ausstellung**

**Session [10:30 - 12:30 Uhr]**

**Stoffwechselphysiologie und Regeneration**

Vorsitz: Ralf Einspanier, Cornelia Kasper

10:30 - 11:00 Uhr **Teresa Valencak**, Veterinärmedizinische Universität Wien

***Energy Metabolism & Lactation in Rodents***

11:00 - 12:30 Uhr **Vorträge (je 10 Min. + 5 Min. Diskussion)**

- V03** **Real time breath analysis of volatile organic compounds in bovines**  
Anne Küntzel, Peter Oertel, Phillip Trefz, Wolfram Miekisch, Jochen Schubert, Heike Köhler, Petra Reinhold, Jena / Rostock
- V04** **Influence of dietary nitrogen on the hepatic signalling pathway of the somatotrophic axis in young goats**  
Caroline Firmenich, Nadine Schnepel, Alexandra Muscher-Banse, Hannover
- V05** **Effect of short chain fatty acids and  $\beta$ -hydroxybutyrate on gene expression of gluconeogenic enzymes in the bovine liver cell line BFH12**  
Anna-Maria Sittel, Herbert Fuhrmann, Axel Schoeniger, Leipzig
- V06** **Dorsal shaving improves milk energy output and lowers heat stress in golden hamster females (*Mesocricetus auratus*)**  
Sarah Ohrnberger, Rupert Palme, Teresa Valencak, Wien
- V07** **BET protein family member BRD4 promotes transcription through super enhancer dynamics in kidney repair and progression of fibrosis**  
Julia Wilflingseder, Michaela Willi, Chaochen Wang, Hannes Olauson, Takaharu Ichimura, Todd Valerius, Lothar Hennighausen, Joseph Bonventre, Wien / Bethesda / Stockholm / Boston
- V08** **Context-sensitive immunomodulation by equine multipotent mesenchymal stromal cells in a novel co-culture assay**  
Janina Burk, Felicitas Päßt, Walter Brehm, Daniel Piehler, Susanna Schubert, Attila Tárnok, Aline Hillmann, Wien / Naharya / Leipzig

12:30 - 13:30 Uhr **Mittagspause**

13:30 - 14:30 Uhr **Posters und Ausstellung**

**Session [14:30 -16:00 Uhr]**

**Immunologie, Neuroimmunologie und Neurophysiologie I**

Vorsitz: Maren von Köckritz-Blickwede / Bernd Kaspers

14:30 - 15:00 Uhr

**Christoph Rummel**, Justus-Liebig-Universität Gießen

***Inflammatory mediators and transcription factors:  
brain-controlled components of the acute phase response***

15:00 – 16:00 Uhr

**Vorträge (je 10 Min. + 5 Min. Diskussion)**

**V09**

**Age dependent hypothalamic and pituitary responses to novel environment stress or lipopolysaccharide in rats**

Christoph Rummel, Sandy Koenig, Janne Bredehöft, Alexander Perniss, Franziska Fuchs, Joachim Roth, Gießen

**V10**

**Different immune capacities of cows after polyclonal immune stimulation**

Karina Lutterberg, Bernhard Hobmaier, Kristina Kleinwort, Stefanie Hauck, Cornelia Deeg, München

**V11**

**Equine recurrent uveitis - Protein expression differences in effector cells**

Roxane Degroote, Kerstin Euler, Stefanie Hauck, Cornelia Deeg, München

**V12**

**Protein-protein-interaction of septin 7 and DOCK8 unravels pathomechanisms in ERU**

Melanie Schauer, Roxane Degroote, Stefanie Hauck, Carmen Wiedemann, Elisabeth Kremmer, Cornelia Deeg, München

16:00 - 16:30 Uhr

**Kaffeepause und Ausstellung**

**Session [16:30 -17:30 Uhr]**

**Immunologie, Neuroimmunologie und Neurophysiologie II**

Vorsitz: Cornelia Deeg / Christoph Rummel

16:30 – 17:30 Uhr

**Vorträge (je 10 Min. + 5 Min. Diskussion)**

**V13**

**Comparison of neutrophil extracellular trap formation in response to *Trypanosoma cruzi* infection in dogs and opossums**

Nicole de Buhr, Marta Cristina Bonilla, Mauricio Jimenez-Soto, Gaby Dolz, Maren von Köckritz-Blickwede, Hannover / Costa Rica

**V14**

**Effect of hypoxia on innate immune cell function: Cell type specific effects comparing neutrophils and mast cells**

Maren von Köckritz-Blickwede, Katja Branitzki-Heinemann, Helene Möllerherm, Graham Brogden, Herbert Fuhrmann, Hassan Y. Naim, Hannover / Leipzig

- V15**                      **Primary culture of the rat substantia gelatinosa as a tool to investigate the effects of inflammatory stimulation on the afferent somatosensory system**  
Stephan Leisengang, Daniela Ott, Jolanta Murgott, Rüdiger Gerstberger, Christoph Rummel, Joachim Roth, Gießen
- V16**                      **Existence of a local renin-angiotensin system in the hypothalamic Organum subfornicale: functional characterization of a SFO-specific primary cell culture system**  
Niklas Grabbe, Rüdiger Gerstberger, Gießen

**DVG-Mitgliederversammlung [17:30 - 18:00 Uhr]**

**Wiener Heurigen-Abend [20:00 - 23:00 Uhr]**

**Freitag, 23.02.2018**

**Session [09:00 - 10:30 Uhr]**

**Epithel, epitheliale Barriere und Transportphysiologie I**

Vorsitz: Martin Diener, Helga Pfannkuche

09:00 – 10:30 Uhr

**Vorträge (je 10 Min. + 5 Min. Diskussion)**

- V17**                      **Investigation of the NH<sub>4</sub><sup>+</sup> conductance of the human analogue of TRPV3**  
Hendrik Liebe, Franziska Liebe, Constanze Vitzthum, Gerhard Sponder, Friederike Stumpff, Berlin
- V18**                      **Butyrate – regulator of pathways in ovine ruminal epithelium?**  
Lisa Baaske, Gotthold Gäbel, Leipzig
- V19**                      **Effects of the absorption enhancer caprate on follicle-associated epithelium of porcine Peyer's patches**  
Judith Radloff, Valeria Cornelius, Evgeny Falchuk, Alexander Markov, Salah Amasheh, Berlin / St. Petersburg
- V20**                      **Hypoxia in jejunum epithelium: fast adaptation of glucose transport**  
Franziska Dengler, Reiko Rackwitz, Helga Pfannkuche, Gotthold Gäbel, Leipzig
- V21**                      **Effects of feeding graded levels of deoxynivalenol and oral administration of lipopolysaccharide on expression of barrier function and innate immune genes in the small intestine of chickens**  
Annegret Lucke, Josef Böhm, Qendrim Zebeli, Barbara Metzler-Zebeli, Wien

**V22** **Permeation of butyrate across the ovine reticulum epithelium**  
Reiko Rackwitz, Gotthold Gäbel, Leipzig

10:30 - 11:00 Uhr

**Kaffeepause und Ausstellung**

**Session [11:00 - 12:30 Uhr]**

**Oral Posters**

Vorsitz: Julia Wilflingseder / Christoph Rummel

11:00 – 12:30 Uhr

**Vorträge (je 5 Min. + 3 Min. Diskussion)**

**P01** **The bovine rumen expresses bTRPV3 channels as a pathway for the uptake of NH<sub>4</sub><sup>+</sup>**

Franziska Liebe, Hendrik Liebe, Constanze Vitzthum, Sabine Käßmeyer, Gerhard Sponder, Friederike Stumpff, Berlin

**P02** **Safety and migration of intra-articularly injected mesenchymal stem cells in a focal cartilage defect model**

Maria Satue, Reinhold Erben, Wien

**P03** **Characterization of chicken TNF- $\alpha$ , a long missed cytokine in birds**

Franziska Rohde, Benjamin Schusser, Tomáš Hron, Helena Farkašová, Jiri Plachý, Jiri Hejnar, Daniel Elleder, Bernd Kaspers, München / Prag

**P04** **Butyrate - guardian of the porcine colon epithelium?**

Anika Kraetzig, Gotthold Gäbel, Franziska Dengler, Leipzig

**P05** **Pre-enrichment of *Mycobacterium avium* subsp. paratuberculosis using plant lectins**

Bernhard Hobmaier, Karina Lutterberg, Kristina Kleinwort, Ricarda Mayer, Sieglinde Hirmer, Florian Gosselin, Cornelia Deeg, München

**P06** **Endothelium-Specific Vitamin D Receptor Ablation Fails to Recapitulate the Cardiovascular Phenotype of Global Vitamin D Receptor Knockout Mice**

Nejla Latic, Svetlana Slavic, Olena Andrukhova, Ute Zeitz, Geert Carmeliet, Reinhold Erben, Wien / Leuven

**P07** **Gel-based proteomics to learn more about effects of the flame retardant HBCD on the liver proteome of female rats**

Ingrid Miller, Tommaso Serchi, Jenny Renaut, Tinka Murk, Arno Gutleb, Wien / Wageningen / Luxembourg

- P08**                      **Isolation of exosomes from blood serum and cell culture supernatants for diagnostic purposes in dogs**  
Ralf Einspanier, Matias Aguilera-Rojas, Barbara Kohn, Johanna Plendl, Berlin
- P09**                      **The role of DOCK8 and its interaction partners in lymphocytes of ERU cases**  
Carmen Wiedemann, Melanie Schauer, Roxane Degroote, Barbara Amann, Stefanie Hauck, Cornelia Deeg, München
- P10**                      **Effects of bilateral hydrostatic pressure incubation on the barrier function of mammary epithelial cells**  
Katharina Mießler, Alexander Markov, Salah Amasheh, Berlin / St. Petersburg

**12:30 - 13:30 Uhr**                      **Mittagspause**

**13:30 - 14:30 Uhr**                      **Posters und Ausstellung**

**Session [14:30 -16:00 Uhr]**

**Epithel, epitheliale Barriere und Transportphysiologie II**

Vorsitz: Rainer Cermak, Jörg Aschenbach

**14:30 – 16:00 Uhr**                      **Vorträge (je 10 Min. + 5 Min. Diskussion)**

- V23**                      **Dietary methionine source influences the expression profile of methionine transport systems in the gastrointestinal tract of growing pigs**  
Lucia Mastrototaro, Stella Romanet, Robert Pieper, Jürgen Zentek, Behnam Saremi, John Htoo, Jörg Aschenbach, Berlin
- V24**                      **Impact of inflammation on neuro-immune interactions in the intestine of rats**  
Jasmin Becker, Martin Diener, Gießen
- V25**                      **Influence of dietary menthol-based bioactive lipid compounds on conductance and uptakes of glucose and methionine in the rumen and intestine of sheep**  
Amlan Patra, Sebastian Geiger, Hannah-Sophie Braun, Jörg Aschenbach, Berlin
- V26**                      **Campylobacter jejuni modulates the intestinal mucosal barrier function with consequences on bacterial translocation in chickens**  
Wageha Awad, Claudia Hess, Jörg Aschenbach, Károly Dublec, Michael Hess, Wien / Keszthely

- V27**                      **Effects of lactic acid treatment of cereals and dietary phytase on phosphorus digestibility and bone parameters in growing pigs**  
Julia Vötterl, Jutamat Klinsoda, Qendrim Zebeli, Barbara Metzler-Zebeli, Wien
- V28**                      **A four-week high-concentrate feeding alters hindgut microbiome leading to dysbiosis in dairy cows**  
Viktoria Neubauer, Renee Petri, Iris Kröger, Nicole Resisinger, Qendrim Zebeli, Wien / Tulln

16:00 - 16:30 Uhr              **Kaffeepause und Ausstellung**

**Session [16:30 - 17:45 Uhr]**

**Freie Themen**

Vorsitz: Gotthold Gäbel, Elena Pohl

16:30 - 17:00 Uhr              **Reinhold Erben**, Veterinärmedizinische Universität Wien

***FGF23: The good, the bad, and the ugly***

17:00 – 17:45 Uhr              **Vorträge (je 10 Min. + 5 Min. Diskussion)**

**V29**                      **Evaluating the biological sensitivity of non-invasive methods for measuring adrenocortical activity: an example in cattle**  
Rupert Palme, Florian Wetscher, Wien

**V30**                      **The hepatocyte-derived cell line BFH12 as a new in vitro model for bovine biotransformation**  
Axel Schöniger, Lydia Kuhnert, Herbert Fuhrmann, Leipzig

**V31**                      **Comparative analysis of gestation in three rhinoceros species (*Diceros bicornis*, *Ceratotherium simum*, *Rhinoceros unicornis*)**  
Franz Schwarzenberger, Wien

**Schlussbetrachtung und Verabschiedung [17:45 - 18:00 Uhr]**