GCB Symposium 2017 | Morning Sessions

08h30–09h45 | Talks I

«Biological Systems» T-001 to T-005
Department of Physiology, Room 258, 2nd floor

Chair: Prof. Dr. Petra Roosje, Department of Clinical Veterinary Medicine, Division of Dermatology, Vetsuisse Faculty Bern

08h30 Mai Moustafa Abdelhafez, Department of Clinical Research, Cardiovascular Research
T-001 Investigation of the Effect of (Over)expression of Endothelial Cell Protective Human Genes on Myocardial Ischemia Reperfusion Injury in Pigs

08h45 Younes El Fersioui, Department of Orthodontics and Dentofacial Orthopedics, School of Dental Medicine
T-002 Premature Cranial Osteogenesis in the Absence of Bmp7

09h00 Felix Baier, Department of Clinical Research, Visceral and Transplantation Surgery
T-003 Stem Cell Organoids Derived from Gallbladder: A Novel Approach to Improve Liver Regeneration and Function

09h15 Morteza Jafari, Department of Clinical Research, Dermatology, and Department of Dermatology, Inselspital, Bern University Hospital
T-004 Improvement of Necrosis in a Rat Random Skin Flap Model by in-vivo Electroporation Mediated HGF Gene Transfer

09h30 Stefano Andrea De Simone, Department of Physiology
T-005 Optogenetic Approach to Estimate the Contribution of Myofibroblast Membrane Capacitance to Slowed Impulse Conduction in Models of Cardiac Fibrosis
Chair: **Prof. Dr. Roland Kreis**, DIPR, Magnetic Resonance Spectroscopy and Methodology (AMSM)

08h30 **David Hasler**, ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering  
**T-006** Investigation of the Hemodynamics of Aortic Valve Prostheses Using Tomographic Particle Image Velocimetry

08h45 **Sabrina Frey**, ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering  
**T-007** Hemodynamic Characterization of Arteriovenous Malformations

09h00 **Henning Richter**, Department for Small Animals, Division of Diagnostic Imaging, Vetsuisse Faculty Zurich  
**T-008** Canine Cardiac Magnet Resonance Tomography: Examination of Canine Myocardial Perfusion During Adenosine Stress

09h15 **Bertrand Pouymayou**, Department of Clinical Research, Magnetic Resonance Spectroscopy and Methodology (AMSM)  
**T-009** Towards a Model Free Estimation of Treatment Effects in Cohort Studies of Intra Myocellular lipids (IMCL)

09h30 **Silvio Pflugi**, Institute for Surgical Technology and Biomechanics  
**T-010** Smart Marker-Based Hybrid Navigation System for Peri-Acetabular Osteotomy Surgery
Chair: **Prof. Dr. Frank Stüber**, Department of Clinical Research & Department of Anaesthesiology and Pain Therapy, Inselspital, Bern University Hospital

08h30 **Olivia Adams**, Institute of Pathology

**T-011** Expression Analysis of LC3B and p62 Indicates Intact Activated Autophagy Is Associated with an Unfavorable Prognosis in Colon Cancer

08h45 **Emilie Farine**, Department of Clinical Research, Cardiovascular Surgery, and Department of Cardiac and Vascular Surgery, Inselspital, Bern University Hospital

**T-012** Development of a Cardiac Loading Device to Monitor Cardiac Function During *ex vivo* Graft Perfusion

09h00 **Andrea Bischofberger**, Equine Department, Vetsuisse Faculty Zurich

**T-013** Delayed Gadolinium-Enhanced Magnetic Resonance Imaging and T2 Mapping of the Normal and Naturally Degenerated Equine Distal Interphalangeal Joint Cartilage

09h15 **Petra Niederberger**, Department of Clinical Research, Cardiovascular Surgery, and Department of Cardiac and Vascular Surgery, Inselspital, Bern University Hospital

**T-014** High Fatty Acid Levels Prior to Warm Ischemia Decrease Cardiac Recovery in an Isolated Rat Heart Model of Donation After Circulatory Death

09h30 **Katharyn Jean Mitchell**, Equine Department, Vetsuisse Faculty Zurich

**T-015** Plasma Homocysteine Concentrations in Healthy Horses and Horses with Atrial Fibrillation
Chair: **Prof. Dr. Jens V. Stein**, Theodor Kocher Institute

08h30 **Ulrich Baumgartner**, Institute of Pathology

T-016 kRAS-Induced miR-29b Tips the Balance from Extrinsic Apoptosis Towards Intrinsic Apoptosis in NSCLC

08h45 **Morgan Chevalier**, Institute of Biochemistry and Molecular Medicine

T-017 The MAGUK CASK Regulates the Cardiac Sodium Channel Nav1.5, Which Is Mediated by Calcineurin

09h00 **Anna Steinert**, Department of Clinical Research, Gastroenterology/Mucosal Immunology, and Division of Gastroenterology, Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital

T-018 Interleukin-19 Expression Is Influenced by Microbial Products During Endotoxemia and Colitis

09h15 **Gunnar Zoch**, Division of Allergology, Department of Rheumatology, Immunology and Allergology, Inselspital, Bern University Hospital

T-019 Exploring the Role of Allergen-Specific Antibody Affinity During Bee Venom Immunotherapy

09h30 **Corinne Ruppen**, Institute for Infectious Diseases

Chair:  Prof. Dr. Torsten Ochsenreiter, Institute of Cell Biology

08h30 Silvia Crespo Pomar, Department of Clinical Research, Haematology/Oncology, and Institute of Biochemistry and Molecular Medicine
T-021 Involvement of PI3KC2β in the Resistance of Human Cancer Cells to Inhibitors Targeting the Epidermal Growth Factor Receptor (EGFR) Tyrosine Kinase

08h45 Marcus Kind, Department of Clinical Research, Haematology/Oncology
T-022 Analysing the Role of PI3K Isoforms and Selected Mutations in Cancer Drug Resistance and Oncogenesis

09h00 Astrid Andreina Glück, Department of Clinical Research, Radiation Oncology, and Department of Radiation Oncology, Inselspital, Bern University Hospital
T-023 Identification of a MET-eIF4G1 Translational Regulation Axis That Controls HIF-1α Levels Under Hypoxia

09h15 Raviprasadh Rajasekaran, Department of Clinical Research, Hepatology, and Division of Hepatology, Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital
T-024 Hint2 Positively Regulates Mitochondrial Metabolism via Its Effect on the Respiratory Chain Complexes

09h30 Maja Ruetten, Institute of Veterinary Physiology, Vetsuisse Faculty Zurich
T-025 Gene Analysis, Comparison of Genes Concerning Iron Metabolism in Regard to Hepcidin Blood Levels in Three Different Lemur Species
09h45–10h15 | Coffee Break (Mensa Bühlplatz) & Poster Viewing
10h15–11h30 | Talks II

«Biological Systems» T-026 to T-030

Department of Physiology, Room 258, 2nd floor

Chair: Prof. Dr. Rupert Bruckmaier, Department of Clinical Research and Veterinary Public Health, Veterinary Physiology, Vetsuisse Faculty Bern

10h15 Alberto Bisco, Department of Physiology
T-026 A Brain-Penetrant 5-HT7 Receptor Agonist Alleviates Chronic Pain Behavior

10h30 Sohvi Blatter, Institute of Animal Pathology, Vetsuisse Faculty Bern
T-027 Minimal Residual Disease in BRCA-Deficient Breast Cancer—Identification and Characterization of G0-Like Cisplatin-Tolerant BRCA1;P53-Deficient Mouse Mammary Tumor Cells

10h45 Matthias Andreas Rölli, Institute of Biochemistry and Molecular Medicine
T-028 Inhibition of PI3'K Overcomes the Resistance of BRAF\textsuperscript{V600E} PIK3CA\textsuperscript{H1047R} Double Mutant Thyroid Tumors to PLX-4720

11h00 David Pavlicek, Spinal Injury Research, Swiss Paraplegic Center, Nottwil
T-029 Immunosenescence in Persons with Spinal Cord Injuries from the Perspective of Urinary Tract Infections

11h15 Jasmin Walter, Department for Farm Animals, Clinic of Reproductive Medicine, Vetsuisse Faculty Zurich
T-030 «CUMULOMICS» Reveals a Potentially Novel Communication Mode for Cumulus-Oocyte-Complex Signalling
Chair: Prof. Dr. Dominik Obrist, ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering

10h15 Ping Lu, Institute for Surgical Technology and Biomechanics
T-031 Highly Accurate Facial Nerve Segmentation Refinement from CBCT Imaging Using a Super Resolution Classification Approach

10h30 Paul-Henry Mackeprang, Division of Medical Radiation Physics and Department of Radiation Oncology, Inselspital, Bern University Hospital
T-032 Monte Carlo Dose Calculation for Multi-Leaf Collimator Based Robotic Radiotherapy

10h45 Nuno Miguel Pedrosa de Barros, SCAN, Department of Diagnostic and Interventional Neuroradiology, Inselspital, Bern University Hospital
T-033 Automatic Tissue-Type Classification of 1H-MRSI Spectra in Patients with Glioblastoma

11h00 Marius Schwalbe, ARTORG Center for Biomedical Engineering Research, Image-Guided Therapy
T-034 Registration-Free Targeting Using EM-Based Navigation

11h15 Marc André Stadelmann, Institute for Surgical Technology and Biomechanics
T-035 Integrating Collagen Fiber Orientations Derived from Diffusion MRI into a Finite Element Model of the Intervertebral Disc
Chair: **Prof. Dr. Hanno Würbel**, VPH Institute, Division of Animal Welfare, Vetsuisse Faculty Bern

10h15 **Jingying Wang**, Institute of Social and Preventive Medicine  
**T-036** Breastfeeding and the Risk of Childhood Wheeze: A Population-Based Cohort Study

10h30 **Maja Jurca**, Institute of Social and Preventive Medicine  
**T-037** Comparison of Risk Factors for Recurrent Cough and Wheeze in Childhood

10h45 **Sreenath P. Kyathanahally**, Department of Clinical Research, Magnetic Resonance Spectroscopy and Methodology (AMSM)  
**T-038** Ghostbusters for MRS: Automatic Detection of Ghosting Artifacts Using Deep Learning

11h00 **Nicole Damara Fichtner**, Department of Clinical Research, Magnetic Resonance Spectroscopy and Methodology (AMSM)  
**T-039** Measuring Exchange Between Brain Metabolites and Water Using Ultra-High Field Magnetic Resonance Spectroscopy

11h15 **Daniela Angelika Frauchiger**, Institute for Surgical Technology and Biomechanics  
**T-040** Inside Out Approach Using Genipin-Enhanced Fibrin Hydrogel and Engineered Silk
Chair: **Prof. Dr. Mario P. Tschan**, Institute of Pathology, Division of Experimental Pathology

10h15 **Egle Radice**, Institute for Research in Biomedicine, Bellinzona

T-041 Functional ACKR3 Expression in the B Cell Compartment

10h30 **Nicolas Studer**, Institute for Infectious Diseases

T-042 Impact of Colonization with Secondary Bile Acid Producing Bacteria on Colonization Resistance to Intestinal Pathogens

10h45 **Yağmur Farsakoğlu**, Institute for Research in Biomedicine, Bellinzona

T-043 Macrophage Inflammation Mediated by IL-1α Induces DC Activation and B Cell Responses in the Draining LN After Vaccination

11h00 **Martin Richard Faderl**, Institute of Pathology

T-044 How an Intestinal Pathobiont Affects the Host to Induce Active Intestinal Inflammation

11h15 **Elias Daniel Bührer**, Department of Clinical Research, Tumor Immunology

T-045 CML Progression in the Bone Marrow Is Fueled by Spleen Resident Leukemia Stem and Progenitor Cells
Chair: **Prof. Dr. Oliver Mühlemann**, Department of Chemistry and Biochemistry

10h15 **Mariana Bustamante Eduardo**, Department of Clinical Research, Molecular Biology
T-046 Elucidating the Role of Progesterone Receptor in Breast Cancer

10h30 **Silvia Desy**, Department of Chemistry and Biochemistry
T-047 Enlarging the Knowledge About the Non-Canonical Mitochondrial Outer Membrane Translocase of *Trypansoma brucei*

10h45 **David Schädeli**, Institute of Biochemistry and Molecular Medicine
T-048 Discovery of Novel Cardiolipin-Dependent Proteins in *Trypanosoma brucei*

11h00 **Aditi Singh**, Institute of Cell Biology
T-049 ISWI, a Protein Involved in Macronuclear Development

11h15 **Michel Moser**, Institute of Plant Sciences
T-050 Evolution of Colour and Scent in Petunia
11h30–13h00 & 13h30–15h00 | Poster Sessions

11h30–13h00 | Poster Session A

Posters A-001 to A-078
DCB, Foyer to Room U113 & Cafeteria, basement

12h30–13h15 | Lunch I (Mensa Bühlplatz)
13h15–14h00 | Lunch II (Mensa Bühlplatz)

Presenting authors: Please follow color codes on Program Overview for your lunch time.

13h00–13h30 | Poster exchange

Posters of Session A will be removed & Posters of Session B will be displayed.

13h30–15h00 | Poster Session B

Posters B-079 to B-156
DCB, Foyer to Room U113 & Cafeteria, basement

List of posters: See following pages.
11h30–13h00 | Poster Session A

Posters A-001 to A-078

«Biological Systems» A-001 to A-017

A-001  Seraina Martina Beyeler, Department of Clinical Research, Pulmonary Medicine
Occupational Exposure by Multi-Walled Carbon Nanotubes in Chronic Obstructive
Pulmonary Disease

A-002  Romina Silvia Cabra, Department of Clinical Research, Bone Biology & Orthopaedic
Research, and Swiss National Centre of Competence in Research, NCCR TransCure
The Role of Iron in the Development of Osteoclasts

A-003  Momota Rani Debi, Institute of Animal Nutrition, Vetsuisse Faculty Zurich
Method Development for Fermentation of Fibrous Animal Feed with Rumen Liquor to
Use in Poultry Diet

A-004  Felix R. Graubner, Institute of Veterinary Anatomy, Vetsuisse Faculty Zurich
In vitro Study on Canine Decidualization: Role and Functional Characterization of
Decidualization Using Immortalized Canine Uterine Stromal Cell Lines

A-005  Elmar Carlos Hulliger, Department of Physiology
Designing ON-Bipolar Cell-Specific Promoters for a Human Gene Therapy
Recovering Vision

A-006  Nicolas Melin, Department of Clinical Research, Visceral and Transplantation
Surgery
In vivo Model of Radiation Induce Liver Disease

A-007  Marta Nowak, Institute of Veterinary Anatomy, Vetsuisse Faculty Zurich
Expression and Localization of Relaxin (RLN) and Its Receptors (RXFP1, RXFP2) in
Canine Pregnant Uterus and Corpus Luteum (CL) at Selected Time Points of
Gestation, and at Normal and Induced Parturition

A-008  Marine Potez, Institute of Anatomy
Effects of Microbeam Radiation Therapy (MRT) on Healthy Tissue

A-009  Lars Straub, Institute of Bee Health, Vetsuisse Faculty Bern
Neonicotinoid Insecticides Can Serve as Inadvertent Insect Contraceptives

A-010  Rahel Kathrin Wyss, Department of Clinical Research, Cardiovascular Surgery
Cytochrome c Release: A Mitochondrial Predictor of Post-Ischemic Cardiac Graft
Recovery in Donation After Circulatory Death

A-011  Beatrice Bianchi, Institute of Biochemistry and Molecular Medicine
TRPM4 and Neuronal Degeneration in an Experimental Autoimmune
Encephalomyelitis (EAE) Mouse Model

A-012  Laura Facchin, ZEN— Center for Experimental Neurology, Department of Neurology,
Inselspital, Bern University Hospital
Optogenetic Modulation of Sleep Slow Wave After Focal Ischemic Stroke

A-013  Norbert Krebs, Department of Physiology
Neuropathic Pain Impairs Spike-Timing Dependent Long-Term Depression in Layer 5
Pyramidal Neurons of the Anterior Cingulate Cortex
A-014  Lukas Oesch, ZEN—Center for Experimental Neurology, Department of Neurology, Inselspital, Bern University Hospital
Encoding of Vigilance State and Feeding Behaviors by GABAergic Neurons in the Lateral Hypothalamus

A-015  Dominik Spicher, Department of Physiology
Predictive Plasticity in Dendrites: Narrowing the Gap Between Optimality and Plausibility

A-016  Carolyn Trepp, Department of Clinical Research, Ophthalmology
Pre-Differentiated Human Adult Stem Cells as a Tool to Rescue Pharmacologically Induced Retinal Degeneration

A-017  Chang Zhao, Department of Physiology
Associative Learning in Fruit Fly Olfactory System

«Biomedical Engineering» A-018 to A-026

A-018  Barna Becsek, ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering
FEM/FDM Immersed Boundary Fluid-Structure Interaction Simulations for AV-FLOW

A-019  Lukas Bereuter, Department of Cardiology, Inselspital, Bern University Hospital, and ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering
Towards a Leadless Cardiac Multisite Pacemaker System

A-020  Stergios Christodoulidis, ARTORG Center for Biomedical Engineering Research, Diabetes Technology
Interstitial Lung Pattern Characterization Using Deep Convolutional Neural Network

A-021  Patric Eichelberger, Bern University of Applied Sciences, Health, Physiotherapy
Coupling of Navicular Mobility and Foot Length Change During Walking

A-022  Serife Seda Kucur, ARTORG Center for Biomedical Engineering Research, Ophthalmic Technology Laboratory
Automatic Glaucoma Identification Using Local and Spatial Visual Field Information

A-023  Pascal Leimer, Department of Physiology
A Functional Model of Early LTP

A-024  Sylvia Nyilas, Division of Paediatric Respiratory Medicine, Department of Paediatrics, Inselspital, Bern University Hospital, and University Children’s Hospital Basel (UKBB), Basel
Functional Magnetic Resonance Imaging and Lung Function Tests in Cystic Fibrosis

A-025  Michael Rieger, Department of Physiology
Development of a Panoramic Electro-Optical Recording System for Whole Heart Electrophysiology

A-026  Kristin Nicole Völk, Department of Physiology
Learning Hidden Neurons for Time Series Prediction
Maher Alsaaod, Department of Clinical Veterinary Medicine, Clinic for Ruminants, Vetsuisse Faculty Bern
The Cow Pedogram—Analysis of the Gait Cycle Variables Allows the Detection of Lameness and Foot Pathologies

Hannah Ayrle, Division Veterinary Pharmacology & Toxicology, Department Clinical Research and Veterinary Public Health, Vetsuisse Faculty Bern, and Department of Livestock Sciences, Research Institute of Organic Agriculture (FiBL), Frick
Medicinal Plants—Prophylactic and Therapeutic Options for Gastrointestinal and Respiratory Diseases in Calves and Piglets? A Systematic Review

Jens Becker, Department of Clinical Veterinary Medicine, Clinic for Ruminants, Vetsuisse Faculty Bern
How Can Antibiotic Consumption and Mortality Be Reduced in the Swiss Veal Industry? A Novel Approach Reconsidering Transport and Housing

Elise Jeannerat, Swiss Institute of Equine Medicine, Vetsuisse Faculty Bern, Agroscope, and University of Bern
Effects of MHC Signalling on Fertility and Embryogenesis in Horses

Poster withdrawn

Anne-Laure Maigrot, Division of Animal Welfare, Veterinary Public Health Institute, Vetsuisse Faculty Bern, and Institute for Agricultural Sciences, Ethology and Animal Welfare Unit, ETH Zurich
Vocal Expression of Emotions in European Wild Boars

Melissa Oddie, Institute of Bee Health, Vetsuisse Faculty Bern
Brood Cell Recapping Possible Mechanism of \textit{Varroa destructor} Survivability in European Honeybees

Justin A. Varholick, Division of Animal Welfare, Veterinary Public Health Institute, Vetsuisse Faculty Bern
Phenotypic Variability and Its Relation to Social Dominance Rank Within and Between Cages of Laboratory Mice
A-039 **Xenia Maria Ficht**, Theodor Kocher Institute  
Tissue Resident Memory T Cells Closely Interact with a 3D Macrophage Network for Immune Surveillance of the Salivary Gland

A-040 **Olivier Friedli**, Division of Experimental Pathology, Institute of Pathology  
Mitochondrial Control of T Lymphocyte Function

A-041 **Marleen Hanelt**, Division of Experimental Pathology, Institute of Pathology  
Linking Metabolism and Inflammation in Macrophage Foam-Cells

A-042 **Magdalena Hinterbrandner**, Department of Clinical Research, Tumor Immunology  
Accumulation of Thymic-Derived Regulatory T Cells in the Bone Marrow of Leukemia Mice Leads to Disease Progression and Immune Evasion

A-043 **Caroline C. Krüger**, Department of Clinical Research, Rheumatology  
Influence of Bacterial RNA on Memory Generation Against Virus-Like Particles

A-044 **Claire Micossé**, Department of Dermatology, Inselspital, Bern University Hospital  
IL-9 Production Is an Activation-Dependent and Transient Condition of Th2 Cells

A-045 **Catherine Mooser**, Department of Clinical Research, Gastroenterology/Mucosal Immunology  
The Effects of Diet on Intestinal Microbiota in a Gnotobiotic Mouse Model

A-046 **Miguel Palomino Segura**, Institute for Research in Biomedicine, Bellinzona  
Characterization of the Inflammatory Response in the Upper Respiratory Tract Following Influenza Infection

A-047 **Elisa Roesti**, Division of Immunology, Department of Rheumatology, Immunology and Allergology, Inselspital, Bern University Hospital  
Generation and Testing of a Qβ-Amylin Vaccine Against Type 2 Diabetes Mellitus

A-048 **Carmen A. Sautter**, Institute of Virology and Immunology, Mittelhäusern  
Towards Understanding the Immunosuppressive Characteristics of Porcine Reproductive and Respiratory Syndrome Virus

A-049 **Flavian Thelen**, Theodor Kocher Institute  
Establishing Novel Reductionist in vitro Migration Assay for Rare Tissue-Protective T Lymphocytes

A-050 **Bettina Trueeb**, Institute of Veterinary Bacteriology, Vetsuisse Faculty Bern  
Gene Disruption by Random Transposon Mutagenesis in a Highly Virulent Strain of the Porcine Respiratory Pathogen *Mycoplasma hyopneumoniae*

A-051 **Núria Vizcaíno**, Department of Veterinary Clinical Medicine, Small Animal Clinic, Vetsuisse Faculty Bern  
Canine Macrophage Phenotyping

A-052 **Philip V’kovski**, Institute of Virology and Immunology, Vetsuisse Faculty Bern  
Identification of Virus-Host Interactions at the Coronavirus Replicative Structures Using a Proximity Labelling Approach
A-053 Lisandra Aguilar Bultet, Institute of Veterinary Bacteriology, Vetsuisse Faculty Bern
Whole Genome Comparison of Listeria monocytogenes Isolates from Lineages I and II

A-054 Aurélie Allemann, Institute for Infectious Diseases
Pneumococcal Carriage and Serotypes Distribution in Patients with Pneumonia in Switzerland, 2004-2015

A-055 Bülent Gözel, Division of Experimental Clinical Research, DCR-VPH, Vetsuisse Faculty Bern
Investigation of Candidate Virulence Genes of Listeria monocytogenes

A-056 Michael Herren, Division of Experimental Clinical Research, DCR-VPH, Vetsuisse Faculty Bern
Identification of Candidate Domains in the Canine Distemper Virus Attachment Protein Crucial for Infection

A-057 Christoph Josi, Institute of Veterinary Bacteriology, Vetsuisse Faculty Bern
Bovine in vitro Models for Mycoplasma bovis Infection

A-058 Nicole Liechti, Interfaculty Bioinformatics Unit, University of Bern; Swiss Institute of Bioinformatics, Bern, and Spiez Laboratory, Federal Office for Civil Protection, Spiez
The Genome of N. lovaniensis, the Base for a Comparative Approach to Unravel Pathogenicity Factors of the Brain-Eating Amoeba N. fowleri

A-059 Carmela Lussi, Institute of Virology and Immunology, Federal Food Safety and Veterinary Office, and Vetsuisse Faculty Bern
The Role of Pestiviral Ems in Innate Immunotolerance

A-060 Alexandra Julie Malbon, Institute of Veterinary Pathology, Vetsuisse Faculty Zurich, and Center for Clinical Studies, Vetsuisse Faculty Zurich
Preliminary Investigation into the Transcription Levels of Toll-Like Receptors, Related Inflammatory Cytokines, and Signalling Molecules in Haemolymphatic Tissues of Cats with and Without Feline Infectious Peritonitis

A-061 João Pires, Institute for Infectious Diseases
Monitoring Clonal Diversity of Extended-Spectrum Cephalosporin-Resistant Enterobacteriaceae Colonizing the Human Gut 6 Months After Traveling to India

A-062 Anna Sophie Ramsauer, Institute of Virology, Vetsuisse Faculty Zurich, and Institute of Dermatology, Vetsuisse Faculty Zurich
Characterization of Equine Papillomavirus Type 2 in vitro and in vivo

A-063 Lukas J. Troxler, Institute for Infectious Diseases
Polysaccharide Capsule Composition of Pneumococcal Serotype 19A Is Independent of Subtype and Nutritional Environment

A-064 Sara Vidal, Institute of Veterinary Bacteriology, Vetsuisse Faculty Bern
Presence of Coxiella burnetii, Chlamydiales and Leptospira spp. in Samples from Bovine Abortion in Switzerland

A-065 Serafina Calarco, Institute of Biochemistry and Molecular Medicine
Development and Synthesis of a COX-2 Selective «Clickable» Probe

A-066 Anand David, Department of Physiology
Evolution of Recombinant Adeno-Associated Viral Vectors for Retinal ON-Bipolar Cell-Targeted Gene Therapy
A-067  **Nora M. Gerhards**, Institute of Animal Pathology, Vetsuisse Faculty Bern
Loss of the E3 Ubiquitin Ligase *FBXW7* Causes Synthetic Lethality with the Vinca Alkaloid Vinorelbine

A-068  **Asimina Gkratsou**, Department of Chemistry and Biochemistry
Investigation of the Role of PNRC2 in Nonsense-Mediated mRNA Decay in Human Cells

A-069  **Andreas Hubert Hemmerle**, Department of Chemistry and Biochemistry
The Role of CRALBP in the Chemistry of Vision

A-070  **Stephan Hirschi**, Institute of Biochemistry and Molecular Medicine
Engineering a Chemical Switch into a Light-Driven Proton Pump

A-071  **Cristina Hoehener**, Institute of Cell Biology
Characterization of Dicer-Like Proteins in *Paramecium*

A-072  **Stephan Kammer**, Department of Chemistry and Biochemistry
Elucidating the Transport Mechanism of Vitamin E by α-TTP

A-073  **Axel Meyrat**, Department of Chemistry and Biochemistry
The Use of a Modified ATP to Study the Factors of ATP Synthesis

A-074  **Michaela Poliaková**, Department of Clinical Research, Radiation Oncology, and Department of Radiation Oncology, Inselspital, Bern University Hospital
A Metabolomic Discovery Approach for Identification of Metabolic Changes Associated with MET Inhibition and DNA-Damaging Agents in MET-Addicted and Non-MET-Addicted Cellular Systems

A-075  **Stefan Reber**, Department of Chemistry and Biochemistry
Genetic Engineering of Induced Pluripotent Stem Cells and Differentiation to Motor Neurons to Elucidate Selective Motor Neuron Death in Amyotrophic Lateral Sclerosis

A-076  **Iwona Maria Rzeszutek**, Institute of Cell Biology
Characterization of Meiotic Proteins During *Paramecium* Macronuclear Development

A-077  **Andrea Salm**, Institute of Biochemistry and Molecular Medicine
Bioprospecting for Anti-Chagas Medicinal Plants in Bolivia and Biological Evaluation

A-078  **Thomas Schick**, Department of Chemistry and Biochemistry
Fusion-Mediated Membrane Protein Incorporation into Small and Giant Unilamellar Vesicles

**Note:**  Please remove posters of Session A and display posters of Session B during the Lunch Break, between 13h00 and 13h30.
13h30–15h00 | Poster Session B

Posters B-079 to B-156

«Biological Systems» B-079 to B-092

B-079 Maria Arnold, Department of Clinical Research, Cardiovascular Surgery, and Department of Cardiac and Vascular Surgery, Inselspital, Bern University Hospital
Molecular and Metabolic Mechanisms of Cardioprotective Reperfusion Strategies in an Isolated Rat Heart Model of Donation After Circulatory Death

B-080 Joaquim Blanch Salvador, Department of Physiology
Cardiac Specific IP₃R Overexpression: IP₃ICR Contribution in Ca²⁺ Signaling

B-081 Etienne Olivier de Coulon, Department of Physiology
Mechanosensitivity of Impulse Conduction in Cultured Cardiomyocyte Strands as Assessed with a Voice-Coil Based Stretching Device

B-082 Carolina Garcia Poyatos, Institute of Anatomy, and Spanish National Center for Cardiovascular Research Carlos III (CNIC-ISCI), Madrid, Spain
Study of the Zebrafish' OXPHOS System During Homeostasis and Heart Regeneration

B-083 Echrak Hichri, Department of Physiology
Ephaptic Effects Potentiate the Cardiac Sodium Current Threshold Behavior in a High Resolution Mathematical Model of a Narrow Intercellular Cleft

B-084 Sophie Lettry, Department of Clinical Veterinary Science, Small Animal Clinic, Vetsuisse Faculty Bern, and Institute of Animal Pathology, Vetsuisse Faculty Bern
Endothelial Cell Responses to Pathogenic Leptospira spp.—Obtaining Canine Endothelial Cells

B-085 Natalia Méndez Carmona, Department of Clinical Research, Cardiovascular Surgery, and Department of Cardiac and Vascular Surgery, Inselspital, Bern University Hospital
Tolerance of Coronary Endothelium to Ischemia and Reperfusion: Studies in an Isolated Rat Heart Model of Donation After Circulatory Death

B-086 Duilio Michele Potenza, Department of Physiology
Ablation of the RyR2-Ser2030 Phosphorylation Site Limits Changes in RyR2 Sensitivity During β-Adrenergic Stimulation

B-087 Marcos Sande, Institute of Anatomy, and Spanish National Center for Cardiovascular Research Carlos III (CNIC-ISCI), Madrid, Spain
Adult Sox10 Cells Contribute to Myocardial Regeneration in the Zebrafish

B-088 Andrés Sanz Morejon, Institute of Anatomy, and Spanish National Center for Cardiovascular Research Carlos III (CNIC-ISCI), Madrid, Spain
Novel Strategies for the Study of Fibrosis Regression During Zebrafish Heart Regeneration

B-089 Riccardo Sfriso, Department of Clinical Research, Cardiovascular Research
Investigating the Interconnection Between Complement and Coagulation in Xenotransplantation
B-090 Ana Stojiljković, Division of Veterinary Anatomy, Department of Clinical Research and Veterinary Public Health, Vetsuisse Faculty Bern
The PiggyBac Transposon System as a Tool for Genetic Engineering in View of Reprogramming Canine Mesenchymal Stem Cells

B-091 Jacopo Gavini, Department of Clinical Research, Visceral and Transplantation Surgery, and Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital
Verteporfin Inhibits Hepatocellular Carcinoma Growth in vitro and in vivo

B-092 Florian Traversi, Institute of Biochemistry and Molecular Medicine
Genetic Dissection of Notch Pathway’s Role in Mice Papillary Thyroid Carcinoma

«Biomedical Engineering» B-093 to B-101

B-093 Carl-Friedrich Benner, ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering
Fractal Computational Model of a Human Lung to Quantify and Visualize Gas Transport During Washout Testing

B-094 Farouk Chrif, ARTORG Center for Biomedical Engineering Research, Gerontechnology and Rehabilitation Group
Investigation of Cardiopulmonary Exercise Testing Using a Dynamic Leg Press Exercise Device

B-095 André Doering, Department of Clinical Research, Magnetic Resonance Spectroscopy and Methodology (AMSM), and Department of Radiology, Inselspital, Bern University Hospital
Diffusion Characteristics of Metabolites Measured in MR Experiments in Human Gray Matter and Analyzed by Simultaneous Spectral Diffusion Modeling

B-096 Simon Habegger, Department of Diagnostic and Interventional Neuroradiology, Inselspital, Bern University Hospital
Understanding Recovery from Stroke Through Lesion Load on Structural Brain Areas

B-097 Michael Kuenzler, Equine Department, Musculoskeletal Research Unit, Vetsuisse Faculty Zurich; Shoulder, Elbow and Orthopaedic Sports Medicine, Inselspital, Bern University Hospital; and Orthopaedics Biomechanics Laboratory, VA Long Beach Healthcare System, CA, USA
PARP-1 Inhibition Improves Healing in a Rat Model of Acute Rotator Cuff Repair

B-098 Michael Müller, Department of Neurology, Inselspital, Bern University Hospital
A Comparison of Quantitative EEG Methods to Evaluate Resective Surgery Targets in Epilepsy Patients

B-099 Christoph Rathgeb, ARTORG Center for Biomedical Engineering Research, Artificial Hearing Research
Intraoperative Evaluation of an Image Guided Robotically Drilled Trajectory for Minimally Invasive Cochlear Implantation

B-100 Ioannis Vogiatzis Oikonomidis, Institute of Anatomy, University of Bern, and Swiss Light Source, Paul Scherrer Institute, Villigen
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B-101  **Hadi Zolfaghari**, ARTORG Center for Biomedical Engineering, Cardiovascular Engineering  
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B-102  **Cleophas Chimbetete**, Institute of Social and Preventive Medicine, and Newlands Clinic, Zimbabwe  
New-Onset Type 2 Diabetes Mellitus Among Patients Receiving HIV Care at Newlands Clinic, Harare, Zimbabwe. A Retrospective Cohort Analysis

B-103  **Rahel Kasteler**, Institute of Social and Preventive Medicine  
Monitoring of Pulmonary Health in Swiss Childhood Cancer Survivors: Are Guidelines Necessary?

B-104  **Insa Korten**, Division of Paediatric Respiratory Medicine, Department of Paediatrics, Inselspital, Bern University Hospital  
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B-105  **Catrina Mugglin**, Institute of Social and Preventive Medicine  
HIV Care and Treatment Sites' Capacity to Manage NCDs: Diabetes and Hypertension

B-106  **Valerie-Beau Pucken**, Department of Clinical Veterinary Medicine, Clinic for Ruminants, Vetsuisse Faculty Bern  
A Questionnaire Study on Veterinarians’ Attitudes Towards Antimicrobial Usage for Mastitis Treatment

B-107  **Maurane V. J. Riesen**, Institute of Social and Preventive Medicine  
Modeling the Consequences of Regional Heterogeneity in Human Papillomavirus (HPV) Vaccination Uptake on Transmission in Switzerland

B-108  **Michel Hauser**, Department of Clinical Research, Bone Biology and Orthopaedic Research Group  
Defect Repair in Bisphosphonate-Treated Osteoporotic Bone

B-109  **Silje Ekroll Jahren**, ARTORG Center for Biomedical Engineering Research, Cardiovascular Engineering  
Bioprosthetic Aortic Valve Kinematics Are Affected by Aortic Root Distensibility

B-110  **Martina Rothenbühler**, Department of Clinical Research, Clinical Trials Unit, and Institute of Social and Preventive Medicine  
Assessing the Interplay Between Major Bleeding, Acute Kidney Injury and All-Cause Mortality in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention

B-111  **Inga Siebke**, Department of Physical Anthropology, Institute of Forensic Medicine  
The Analysis of Human Bones from the Neolithic Dolmen of Oberbipp—First Results

B-112  **Simon Wüest**, Lucerne School of Engineering and Architecture, Lucerne University of Applied Sciences and Arts  
Electrophysiological Measurements During a Sounding Rocket Flight
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B-127 Marcel Sorribas Olivera, Department of Clinical Research, Gastroenterology/Mucosal Immunology
Intestinal Epithelial Barrier in Liver Cirrhosis a Role for Bile Salts in the Mucus Layer

B-128 Andrea Monika Spiri, Department for Farm Animals, Clinical Laboratory, Vetsuisse Faculty Zurich, and Center for Clinical Studies, Vetsuisse Faculty Zurich
The Genetic Diversity and Phenotypic Associations of Feline Caliciviruses from Cats in Switzerland

B-129 Marie-Hélène Wasmer, Institute of Pathology
Role of IL-33/ST2 Signaling for the Development of Colorectal Cancer

B-130 Stefan Zahnd, Institute of Pathology
Biomarker Discovery in Colorectal Cancer: A Novel Shotgun-Proteomics Based Approach to Identify Therapeutic Targets Using Isolated Cell Populations

«Molecular Biology & Biochemistry» B-131 to B-156

B-131 Andrea Marco Amati, Department of Chemistry and Biochemistry
Towards Unidirectional Reconstitution of Membrane Proteins into Liposomes

B-132 Giuditta Annibaldis, Department of Chemistry and Biochemistry
Ribosome Profiling in Mammalian Cells to Reveal the Role of NMD Factors in Translation Termination

B-133 Nick Arndt, Institute of Biochemistry and Molecular Medicine
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B-134 Olivier Biner, Department of Chemistry and Biochemistry
Towards Synthetic Minimal Cell Systems—The Co-Reconstitution of Respiratory Chain Enzymes

B-135 Lisamaria Bracher, Department of Chemistry and Biochemistry
The Human Vault RNA Confers Apoptosis Resistance to Malignantly Transformed Cells

B-136 Francesca Coraggio, Institute of Cell Biology
Involvement of Epigenetic Factors and Metabolism in Pluripotency Maintenance in C. elegans

B-137 Yuniel Fernández-Marrero, Institute of Pharmacology
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B-138 Yulia Gonskikh, Department of Chemistry and Biochemistry
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B-139 Slobodan Grubesic, Institute of Cell Biology
Study of the New Interactors in BicD/Egl Transport Machinery

B-140 Tin Manh Ho, Institute of Cell Biology
Non-Canonical Functions of Phenylalanyl tRNA Synthetase

B-141 Eleonora Orlando, Department of Clinical Research, Radiation Oncology, and Institute of Molecular Systems Biology, ETH Zurich
The Role of MET in Tumor Sensitization to Radiation Therapy: A Phosphoproteomic Approach
B-142 Lukas Marc Schneider, Department of Chemistry and Biochemistry
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B-143 Vaishnavi Shankar, Department of Chemistry and Biochemistry
The Role of Eukaryotic-Specific Ribosomal Expansion Segments in Protein Synthesis

B-144 Shikha Shikha, Department of Chemistry and Biochemistry
Role of tRNA Processing Enzymes in Mitochondrial Biogenesis of T. brucei

B-145 Jessica Willi, Department of Chemistry and Biochemistry
How Oxidation in the Ribosome’s Active Site Affects Translation

B-146 Leander Nicolas Wyss, Department of Chemistry and Biochemistry
Non-Coding RNAs Targeting and Regulating the Ribosome in H. volcanii

B-147 Hélène Clémentine Margareta Baudouin, Institute of Cell Biology
Identification of Novel Mitochondrial DNA Segregation Factors in Trypanosoma brucei Using BioID

B-148 Ladan Dawoody Nejad, Institute of Biochemistry and Molecular Medicine
Role of Phosphatidic Acid Phosphatase in Lipid Metabolism in Trypanosoma brucei

B-149 Francesca Florini, Institute of Cell Biology
RHS Proteins: Delving into the Role of a Novel Multigene Family in T. brucei

B-150 Anneliese Hoffmann, Institute of Cell Biology
A Molecular Model of the Mitochondrial Genome Segregation Machinery in T. brucei

B-151 Sandra Huber, Institute of Animal Pathology, Vetsuisse Faculty Bern
Theileria annulata Interacts with Adaptor Proteins of Its Bovine Host Cell

B-152 Jonas Paul Koch, Department of Clinical Research, Radiation Oncology, and Department of Radiation Oncology, Inselspital, Bern University Hospital
Investigating a Novel Potential ATM/ATR/DNA-PK Phosphorylation Site on the MET RTK as a New Player in Tumorigenesis and a Link Between MET Addiction and Radioresistance

B-153 Ivonne Koeck, Department of Clinical Research, Urology Research Laboratory
Validation of TNF-α as the Top Upstream Regulator of Bladder Remodeling During Outlet Obstruction-Induced Lower Urinary Tract Dysfunction

B-154 Sebastian Millius, Institute of Cell Biology
Finding Genes Involved in Social Motility in Trypanosoma brucei

B-155 Sara Vimercati, Division of Veterinary Pharmacology and Toxicology, Vetsuisse Faculty Bern
Does Testosterone Metabolism of Single Equine Cytochrome P450 Enzymes of the 3A Subfamily Differ to The Human Ortholog?

B-156 Lei Wang, Institute of Biochemistry and Molecular Medicine
A Novel Assay to Measure Phospholipid Flip-Flop by Rhodopsin

Note: Please remove posters of Session B during the afternoon Coffee Break, between 15h00 and 15h30.
GCB Symposium 2017 | Afternoon Sessions

DCB, Room U113, basement

15h00–15h30 | Coffee Break (Mensa Bühlplatz) & Poster Viewing/
Posters Removal
Posters of Session B will be removed during the afternoon Coffee Break

15h30–16h30 | Keynote Lecture
Prof. Dr. Elsbeth Stern, Institute for Research on Learning and Instruction,
ETH Zurich, Switzerland
«The Challenge of Learning Transfer»
Chair: PD Dr. Marlene Wolf, Coordinator GCB

16h30–17h00 | GCB Award for Best PhD Thesis
Chair: Prof. Dr. Rupert Bruckmaier, Department of Clinical Research and
Veterinary Public Health, Veterinary Physiology, Vetsuisse Faculty Bern,
President GCB
17h15–18h15 | GCB Slam

Masters of Ceremonies: **Crazy David & Nicola von Greyerz**

*Slammers in Alphabetical Order*

S-001 **Sabrina Sofia Burgener**, Theodor Kocher Institute
Neutrophil Survival Depends on Serpinb1a and Serpinb6a Inhibition of Granule Proteases

S-002 **Dzhuliya Dzhonova**, Department of Clinical Research, Cardiovascular Research
Inflammation Responsive Hydrogel for Long-Term Survival of Vascularized Composite Allotransplantation

S-003 **Elena Kreutzer**, Department of Physiology
Natural Gradient for Spiking Neurons

S-004 **Cristina Leoni**, Institute for Research in Biomedicine, Bellinzona
DNA Methylation Regulating Mast Cell in Health and Disease

S-005 **Ulysses Marti Mengual**, Department of Physiology
Biophysically Realistic Model of the Layer 5 Pyramidal Cell of the Anterior Cingulate Cortex

S-006 **Elias Mulky**, RMS Foundation, Chemistry & Biology, Bettlach, and Institute for Biomedical Photonics
Functionalization of Poly Lactic Acid Surfaces for Absorbable Bone Cement Applications

S-007 **Corinne P. Oechslin**, Biology Division, Spiez Laboratory, Swiss Federal Office for Civil Protection, Spiez, and Institute for Infectious Diseases
Development of a Metagenomics Pipeline for the Diagnostics of Viral and Bacterial Pathogens in Clinical Cerebrospinal Fluid Samples

S-008 **Deborah Barbara Angela Sarah Maria Piffaretti**, Laboratory for Biomedical Neurosciences (LBN), Department of Neurosurgery, Neurocenter of Southern Switzerland, Ente Ospedaliero Cantonale (EOC), Torricella-Taverne TI
Epithelial Growth Factor Receptor Expression Influences 5-ALA Induced Glioblastoma Fluorescence
S-009  **Christina Rufener**, Center for Proper Housing: Poultry and Rabbits, Veterinary Public Health Institute, Division of Animal Welfare, Vetsuisse Faculty Bern
Effect of Keel Bone Fractures on Individual Laying Hen Productivity

S-010  **Lucia Unger**, Swiss Institute of Equine Medicine, Department of Clinical Veterinary Medicine, Vetsuisse Faculty Bern, and Agroscope
Circulating MiRNAs as Diagnostic, Non-Invasive Biomarkers for Equine Sarcoid Disease

S-011  **Sarah Helena Vermij**, Institute of Biochemistry and Molecular Medicine
Next Generation RNA Sequencing of Cardiomyocytes Elucidates Ion Channel Expression, and Reveals Opposed Gene Expression Levels Between CASK KO and SAP79 KO

S-012  **Limei Wang**, Department of Clinical Research, Thoracic Surgery, and Department of Thoracic Surgery, Inselspital, Bern University Hospital
Modeling of Lung Organoids Using Resident Epithelial and Progenitor Mesenchymal Cells Isolated from the Early Postnatal Human Lung

18h15 | Closing Remarks
**Prof. Dr. Rupert Bruckmaier**, President GCB

18h30 | Apéro
*Everybody is invited to join in.*