Zoonoses 2022 – International Symposium on Zoonoses Research
Preliminary Programm (version 30.09.2022)

time	Wednesday, October 5, 2022		
13:00	Registration & Snack		
14:00	**Welcome Note** Oberstarzt Dr. Roman Wölfel (Federal Ministry of Defence), Martin Groschup (German Research Platform for Zoonoses)		
14:30	**Keynote I: Biodiversity and Health: The Ecology of Infection at the Anthropogenic Interface -Thomas Gillespie (EMORY University)**		
15:15	Break		
15:25	**Antimicrobial use and resistance** **Chair: J. Golz, M. Fulde**	**Pathogen evolution + Pandemic prepardness** **Chair: J. Bönecke, C. Drosten**	**Risk assesment + Public Health** **Chair: S. Neuhaus, A. Lührmann**
15:25	The Global AMR R&D Hub: Global knowledge centre and driving force for evidence-based AMR advocacy - Ralf Sudbrak	Livestock and viral emerging infectious zoonotic diseases - Martin Heilmann	Identification of pathogenic Leptospira Kirschneri serogroup Grippotyphosa in ground voles of Auvergne, France - Elena Harran
15:40	Gene amplification confers heteroresistance in a multi-resistant clinical Enterobacter cloacae complex strain - Johannes Kupke	Emerging Omicron sublineages BA.2.12.1, BA.4, and BA.5 display enhanced neutralization resistance. - Prerna Arora	Early prediction of the next Puumala hantavirus outbreak in Germany using machine learning - Orestis Kazasidis
15:55	Biocide susceptibility and antibiotic resistance of E. coli isolates from humans, livestock and food sources in Germany - David Attuy Vey da Silva	Circulation of Nsé Virus in ecosystems with various degrees of anthropogenic disturbance in Ivory coast and Uganda - Georg Eibner	Genotypic and phenotypic properties of 11 temperate phages isolated from pathogenic Y. enterocolitica strains - Jens Hammerl
16:10	Iron deprivation by oral desferoxamin application alleviates campylobacteriosis in a preclinical murine model of infection - Stefan Bereswill	Heterologous MHC-II domain swapping identifies evolutionarily conserved amino acids mediating Bat IAV entry - Okikiola Morenike Olajide	Detection of WNV and insect-specific viruses in mosquitoes in Germany - Corinna Patzina-Mehling

16:25	Preclinical Evaluation of Oral Urolithin-A for the Treatment of Acute Campylobacteriosis in Campylobacter jejuni Infected Microbiota-Depleted IL-10−/− Mice - Soraya Mousavi	Virus-host interactions required for attachment and entry of Bat-Influenza Viruses - Maria Kaukab Osman	Is Germany at risk for Rift Valley Fever virus emergency? - Amira Adel Taha Abdel Aleem AL-Hosary
16:40	WGS-based prediction and comparative analysis of antibiotic resistances in Campylobacter jejuni and Campylobacter coli from poultry in Germany and Vietnam. - Michael Zarske	Adaptation of avian influenza H5N1 virus in humans: The role of the neuraminidase - David Scheibner	Risk Management Plan and Early Warning System as Tools for Rapid Risk Communication and Response upon Zoonotic Alerts - Christiane Klier
16:55	Coffee Break		
17:15	**Keynote II: mecC MRSA: From the discovery of an occult MRSA to the demonstration of the emergence of methicillin resistance before the clinical use of antibiotics - Mark Holmes (University of Cambridge)**		
18:00	**Posterslam I**		
19:00	Snacks & Poster Viewing Session		

	Thursday, October 6, 2022	
09:00	Registration	
10:00	**One Health** **Chair: N. Militzer, M. Groschup**	**Vaccines, Immunology** **Chair: T. Schwarz, A. Volz**
10:00	The transmission risk of multidrug-resistant organisms between pets and humans – Preliminary results of an exploratory case control study - Carolin Hackmann	Vaccination of zoo birds against West Nile virus to protect them and reduce zoonotic exposure risks to humans in their vicinity - a pilot study - Felicitas Bergmann
10:15	Interaction between MHC diversity and constitution, gut microbiota and Astrovirus infections in a neotropical bat - Ramona Fleischer	Can pre-existing Usutu virus antibodies protect birds from severe West Nile virus infection? - Hannah Reemtsma
10:30	Who let the dogs in? – Animals in health care facilities - Sonja Wolken	MHC class II proteins mediate susceptibility and resistance to coronavirus infections in bats - Dominik Schmid

10:45	Alternative Sentinels for West Nile virus in Germany: Seroprevalence in Wild Boar, Small Ruminants, and Dogs - Cora Marielle Holicki	Exploring the Antiviral Potential of Human IFNα Subtypes against Influenza-A Viruses using Primary Human Lung Tissue Explants - Sriram Kumar
11:00	Addressing mosquito-borne diseases and the One Health Concept in the European Union: A policy analysis based on document analysis and survey data - Stephanie Thomas	PE/PPE vaccine candidates from Mycobacterium tuberculosis enhance the production of reactive oxygen species and release of neutrophil extracellular traps - María García Bengoa
11:15	Imported exotic ticks on humans into Germany - Lidia Chitimia-Dobler	Irradiation of zoonotic apicomplexan parasites with low energy electrons for the development of vaccine candidates - Julia Finkensieper
11:30	Coffee Break and Poster Viewing	
12:00	**Ecology of zoonotic infections** **Chair: A. Obiegala, G. Dobler**	**Pathogen-cell interaction** **Chair: K. Schlottau, P. Valentin-Weigand**
12:00	Influence of TBE-viruses on tick behavior? First laboratory results - Alexander Lindau	The conundrum of colonization resistance against Campylobacter reloaded: The gut microbiota composition in conventional mice does not prevent from Campylobacter coli infection - Markus Heimesaat
12:15	Characterization of arboviruses from enzootic amplification cycles in Uganda - Selina Graff	Microfluidic pump system for analyses of streptococcal impact on endothelial cell migration - Anna Kopenhagen
12:30	The ecological drivers of mosquito host-feeding patterns - Renke Lühken	L. pneumophila modulates inflammatory responses in macrophages via epigenetic effects - Felix Stegmann
12:45	Vector competence of German mosquitoes for Sindbis virus via saliva-titration - Anna Heitmann	Bovine macrophages are unable to control Coxiella burnetii replication under hypoxic conditions - Anja Lührmann
13:00	The eco-bio-social drivers of the dengue vectors Aedes albopictus and Ae. aegypti: An altitudinal transect study in Nepal - Ruth Müller	SARS-CoV-2 Non-Structural Protein 3 Targets Makorin Ring Figure Protein 2 to Degrade p65 and p53 - Yue Ma-Lauer
13:15	Species diversity dilutes coronavirus prevalence in bat communities - Magdalena Meyer	Secreted flavivirus NS1 proteins inhibit dendritic cell effector functions - Imke Steffen
13:30	Lunch & Poster Viewing	
15:00	**Keynote III: Developing a global consensus around improved zoonoses control – the role of OHHLEP and the Quadripartite One Health Joint Plan of Action - Osman A. Dar (UK Health Security Agency&Royal Institute of International Affairs)**	
15:45	**Keynote IV: Modelling the future – infectious disease epidemiology in a post-pandemic world - André Karch (University Münster)**	
16:30	Coffee Break and Poster Viewing	

17:00	**Posterslam II**	
18:00	**Members Assembly of the German Research Platform for Zoonoses with Election of the Internal Advisory Board**	
19:00	Break	
19:30	Welcome Reception / Social Dinner	

	Friday, October 7, 2022	
08:30	**Young Scientists Breakfast**	
10:00	**Keynote V: The Field of Water, Sanitation & Hygiene Discovers the Importance of Zoonotic Transmission - Karen Levy (University of Washington)**	
10:45	Coffee Break and Poster Viewing	
11:15	**New and re-emerging zoonotic diseases** **Chair: E. Bendl, M. Mühlebach**	**Novel methods** **Chair: S. Clever, T. Semmler**
11:15	Experimental infection of squirrels with variegated squirrel Bornavirus 1 (VSBV-1) - Kore Schlottau	Effects of congenital toxoplasmosis on the developing brain of the guinea pig - Thomas Grochow
11:30	Genomic characterization of Rift Valley Fever Virus isolates from selected sites in Kenya, 1997-2020. - Samson Konongoi	Identification of Brucella below species level using proteomic fingerprints - Alina Kühn
11:45	The role of black rats (Rattus rattus) as reservoir hosts for Rift Valley fever virus - Franziska Stoek	Insect-specific virus interference with mosquito-borne arboviruses in mosquito cells - Mine Altinli
12:00	SARS-CoV-2 VOC Omicron subvariants: viral host range, immune escape and virulence levels - Nico Joel Halwe	Changes in the Ixodes ricinus microbiome associated with artificial tick feeding - Nina Militzer
12:15	Neutrophil extra cellular traps contribute to bacterial growth during co-infection with Influenza A virus in pigs - Simon Lassnig	Sequencing approaches for Hepatitis E virus to address current challenges and reveal insight into virus evolution and intra-host virus diversity - Julia Schneider
12:30	Year-round highly pathogenic avian influenza in Germany 2020-2022: On the way to a new enzootic public health concern? - Anne Pohlmann	Progress of the project “ZooSeq”: Improvement of next-generation sequencing (NGS) methods for the detection of zoonotic pathogens - Claudia Wylezich
12:45	Lunch Break	

	Epidemiology Chair: C. Beierkuhnlein	One Health and Ecology II Chair: M. Pfeffer
13:45	Hantavirus and Leptospira spp.: Seroprevalence, knowledge and preventive behaviour in seasonal harvesters in Lower Saxony, Germany, 2022 - Saskia Schmitz	Modeling the effect of species interactions and environmental parameters on the composition of mosquito communities in a Mediterranean wetland - Ridwan Adeyemi Shittu
14:00	Elucidating the epidemiology of an atypical anthrax-causing pathogen - Tobias Gräßle	Assessing the recent distributions of Aedes and Anopheles mosquitos in the Mediterranean area under consideration of climate and land use change - Christian Merkenschlager
14:15	Comparison of two TBEV endemic areas in Germany and Austria for overall TBEV IgG seroprevalence and infection rates - Kathrin Euringer	Insect predators as mosquito control agents - Friederike Reuß
14:30	Crimean-Congo hemorrhagic fever virus antibody prevalence in Mauritanian livestock (cattle, goats, sheep and camels) is stratified by the animal's age - Ansgar Schulz	Rodent trapping as a complementary method to the chemical control to fight zoonotic diseases: A case study of Lassa fever in Upper Guinea. - Elisabeth Fichet-Calvet
14:45	West Nile Virus infections in Germany – an emerging infection relevant for blood transfusion safety - Christina Frank	Changes in forest management intensity predict the presence of Puumala-orthohantavirus (PUUV) in bank voles (Clethrionomys glareolus) - Christian Imholt
15:00	Arbovirus surveillance in Kenya reveals the circulation of a variety of human and livestock pathogenic arboviruses - Inga Slothouwer	Infection studies with airway organoids from Carollia perspicillata indicate that the respiratory epithelium is not a barrier for interspecies transmission of influenza viruses - Ang Su
15:15	**Posterprize, Fare well (Chair: Stephan Ludwig)**	