

**Zoonoses 2022 – International Symposium on Zoonoses Research  
Preliminary Programm (version 26.08.2022)**

| time  | <b>Wednesday, October 5, 2022</b>   |   |  |
|-------|---|---|--|
| 13:00 | Registration & Snack  |   |  |
| 14:00 | <b>Welcome Note</b><br>Oberstarzt Dr. Roman Wölfel (Federal Ministry of Defence), Martin Groschup (German Research Platform for Zoonoses)   |   |  |
| 14:30 | <b>Keynote I - Thomas Gillespie (EMORY University)</b>  |   |  |
| 15:15 | Break   |   |  |
| 15:25 | <b>Antimicrobial use and resistance</b>   | <b>Pathogen evolution + Pandemic preparedness</b>   | <b>Risk assesment + Public Health</b>  |
| 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 <i>Leptospira Kirschneri</i> serogroup Grippotyphosa in ground voles of Auvergne, France - Elena Harran |
| 15:40 | Gene amplification confers heteroresistance in a multi-resistant clinical <i>Enterobacter cloacae</i> 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 <i>E. coli</i> 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 <i>Y. enterocolitica</i> 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 <i>Campylobacter jejuni</i> Infected Microbiota-Depleted IL-10 <sup>-/-</sup> 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 <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> 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 | <b>Keynote II - Mark Holmes (University of Cambridge)</b>  |   |  |
| 18:00 | <b>Posterslam I</b>  |   |  |
| 19:00 | Snacks & Poster Viewing Session  |   |  |

| <b>Thursday, October 6, 2022</b>   |   |  |  |       |   |  |  |       |   |  |  |       |   |  |  |       |  |  |  |       |  |  |  |       |  |  |   |
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| 09:00  | Registration  |  |  |       |   |  |  |       |   |  |  |       |   |  |  |       |  |  |  |       |  |  |  |       |  |  |   |
| 10:00  | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%; background-color: #800000; color: white;">One Health</th> <th style="width:50%; background-color: #800000; color: white;">Vaccines, Immunology</th> </tr> </thead> <tbody> <tr> <td>10:00</td> <td> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">The transmission risk of multidrug-resistant organisms between pets and humans – Preliminary results of an exploratory case control study - Carolin Hackmann</td> <td style="width:50%;">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</td> </tr> <tr> <td>10:15</td> <td> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Interaction between MHC diversity and constitution, gut microbiota and Astrovirus infections in a neotropical bat - Ramona Fleischer</td> <td style="width:50%;">Can pre-existing Usutu virus antibodies protect birds from severe West Nile virus infection? 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| 11:30 | Coffee Break and Poster Viewing   |  |
| 12:00 | <b>Ecology of zoonotic infections</b>   | <b>Pathogen-cell interaction</b>   |
| 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 - Albrecht von Brunn  |
| 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 | <b>Keynote III - Osman A. Dar (UK Health Security Agency &amp; Royal Institute of International Affairs)</b>                            |  |
| 15:45 | <b>Keynote IV - André Karch (University Münster)</b>  |  |
| 16:30 | Coffee Break and Poster Viewing   |  |
| 17:00 | <b>Posterslam II</b>  |  |
| 18:00 | <b>Members Assembly of the German Research Platform for Zoonoses with Election of the Internal Advisory Board</b>                       |  |
| 19:00 | Break   |  |
| 19:30 | Welcome Reception / Social Dinner   |  |

**Friday, October 7, 2022**

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| 08:30 | <b>Young Scientists Breakfast</b>  |  |
| 10:00 | <b>Keynote V - Karen Levy (University of Washington)</b>   |  |
| 10:45 | Coffee Break and Poster Viewing  |  |
| 11:15 | <b>New and re-emerging zoonotic diseases</b>   | <b>Novel methods</b>   |
| 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 ( <i>Rattus rattus</i> ) 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 <i>Ixodes ricinus</i> 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  |  |
| 13:45 | <b>Epidemiology</b>  | <b>One Health + Ecology II</b>   |
| 13:45 | Hantavirus and <i>Leptospira</i> 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 <i>Aedes</i> and <i>Anopheles</i> mosquitos in the Mediterranean area under consideration of climate and land use change - Christian Merckenschlager |

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| 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 ( <i>Clethrionomys glareolus</i> ) - 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 <i>Carollia perspicillata</i> indicate that the respiratory epithelium is not a barrier for interspecies transmission of influenza viruses - Ang Su |
| 15:15 | <b>Posterprize, Fare well (Stephan Ludwig)</b>   |  |