



# International Symposium on Pandemic Preparedness

June 2–3, 2025 · Heidelberg,  
German Cancer Research Center (DKFZ)



## 02 June 2025

### Session I

09:00	Welcome <ul style="list-style-type: none"><li>• Ralf Bartenschlager</li><li>• Ulrike Protzer</li></ul>
09:15	Keynote: Broadly protective vaccines as tools for pandemic preparedness <ul style="list-style-type: none"><li>• Florian Krammer</li></ul>
10:00	Virus-specific CD8+ T cell responses in vulnerable groups - lessons from the SARS-CoV-2 pandemic <ul style="list-style-type: none"><li>• Ulrike Protzer</li><li>• Vivien Karl</li></ul>
10:30	Affinity-Independent B Cell Responses and Rational RBD Vaccine Design for Enhanced Immunity <ul style="list-style-type: none"><li>• Kathrin de la Rosa</li><li>• Hedda Wardemann</li></ul>
11:00	Coffee break
11:30	Keynote: Impact of respiratory infections on sex hormone metabolism <ul style="list-style-type: none"><li>• Gülsah Gabriel</li></ul>
12:15	SARS-CoV-2 and natural barriers - lung vulnerability vs placental protection in pregnancy <ul style="list-style-type: none"><li>• Ana Zenclussen</li></ul>
13:00	Lunch break

### Session II

14:00	Flash Talk: In situ cryo-ET unveils SARS-CoV-2 Virus-Like Particle assembly and the E protein role in Membrane Scission <ul style="list-style-type: none"><li>• Petr Chlanda</li></ul>
14:15	Flash Talk: Genomics-enhanced contact tracing can inform context-specific transmission probabilities and enable the inference of individual-level transmission during community transmission <ul style="list-style-type: none"><li>• Alexander Dilthey</li></ul>
14:30	Flash Talk: FcγR3A and FcγR2A genetic variations along with soluble immune complex-mediated Fcγ receptor activation patterns as biomarkers for predicting COVID-19 severity and clinical outcomes <ul style="list-style-type: none"><li>• Florian Lerch</li></ul>
14:45	Flash Talk: A MF59-Adjuvanted A/Astrakhan Zoonotic Influenza Vaccine Candidate is Immunogenic in Ferrets and Induces Substantial Neutralizing Antibodies against the H5N1 Genotype 2.3.4.4b Circulating Globally in Birds and Mammals <ul style="list-style-type: none"><li>• Laura-Christin Förster</li></ul>

15:00	Flash Talk 5: Multi-omics profiling of immunity to influenza vaccination reveals enhanced antibody responses in cancer patients <ul style="list-style-type: none"><li>• Florian Wimmers</li></ul>
15:15	Coffee break
15:30	Cell Biology of SARS-CoV-2 replication <ul style="list-style-type: none"><li>• Ralf Bartenschlager</li><li>• Teresa Lavacca</li></ul>
16:00	Application of robotic systems in pandemic situations: Demonstration of Flexible Robotic AI in the Real Laboratory <ul style="list-style-type: none"><li>• Daniel Leidner</li><li>• Peter Lehner</li></ul>
16:30	Poster Session
18:30	BBQ Dinner, Casino

03 June 2025

Session III

09:00	Welcome back <ul style="list-style-type: none"><li>• Ralf Bartenschlager</li><li>• Ulrike Protzer</li></ul>
09:15	Keynote: Learning form the pandemic: risk predicting for future emerging disease outbreaks <ul style="list-style-type: none"><li>• Marion Koopmans</li></ul>
10:00	Increasing pandemic preparedness by Data-Driven Virus Discovery - From the identification of novel RNA viruses and host reservoirs to the development of spillover risk scores <ul style="list-style-type: none"><li>• Chris Lauber</li><li>• Stefan Seitz</li></ul>
10:30	Investigating immunological determinants and anti-inflammatory treatments in real-life COVID-19 and experimental models <ul style="list-style-type: none"><li>• Luka Cicin-Sain</li><li>• Luiz Gustavo Teixeira Alves</li></ul>
11:00	Coffee break

Session IV

11:30	Keynote: The role of innate immunity in viral control and vaccine responses <ul style="list-style-type: none"><li>• Leif Erik Sander</li></ul>
12:15	Monocyte-derived pulmonary macrophages after respiratory viral infection induce CD8 T cells with auto-aggressive function to cause tissue damage <ul style="list-style-type: none"><li>• Deepesh Dhakad</li><li>• Maximilian Kampick</li></ul>
13:00	Lunch break
14:00	Keynote: The host response to respiratory viral infection: Risks, benefits and intervention points <ul style="list-style-type: none"><li>• Andreas Wack</li></ul>
14:45	Multi-omics analyses identify inflammatory and pro-viral activities during virus infection <ul style="list-style-type: none"><li>• Andreas Pichlmair</li></ul>
15:15	Closing remarks <ul style="list-style-type: none"><li>• Ralf Bartenschlager</li><li>• Ulrike Protzer</li></ul>