

# 7th Freiburg Pediatric Research Day

## February 4, 2026

UNIVERSITÄTSKLINIKUM FREIBURG  
Kinder- und Jugendklinik  
Breisacher Str. 62  
79106 Freiburg

Dear Colleagues,

It is our pleasure to welcome you to the 7th Freiburg Pediatric Research Day.

On this day, we hope to highlight all different aspects of pediatric research activities at our center – to inspire cooperation, initiate ideas, and, most importantly, provide an overview platform for those enthusiastic but not yet actively involved in pediatric research. In addition to our scientific program, personal exchanges during the coffee and lunch breaks are ideal for more in-depth discussion about potential future projects.

We wish you all an exciting meeting with fruitful discussions.

Your Research Day Organizing Committee

Jan Schönberger	Hannah Kappler
Friedrich Kapp	Sarah Grünert
Semjon Willier	Roland Elling
Anke Schumann	Bernadette Bächle-Helde



### Contact:

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### Registration:

<https://www.uniklinik-freiburg.de/kinderklinik/forschung-und-klinische-studien/kjk-research-day-2026-abstract-submission-and-registration-are-now-open.html>

### Venue:

Seminarräume im Hauptgeschoss der  
Kinder- und Jugendklinik

### CME:

Für diese Veranstaltung wurden Fortbildungspunkte bei der LÄK Baden-Württemberg beantragt.

## PROGRAM – KJK Research Day 2026

08:45	Registration	14:00	<b>Session 3</b> (Chairs: Florian du Bois, Simon Jacobi)
<b>09:00</b>	<b>Introduction</b>	<b>Keynote lecture II – Katharina Schmitt (Deutsches Herzzentrum der Charité): Neurodevelopment in pediatric cardiology: Status quo, challenges and visions</b>	
<b>09:05</b>	<b>Session 1</b> (Chairs: Nicolas Eckert, Patrizia Lehr)	14:40	<i>Effectiveness and Safety of venovenous ECCO2R using a renal replacement therapy device to facilitate lung-protective ventilation in patients with ARDS and AKI treated at a tertiary pediatric ICU</i> (Hendryk Schneider)
09:05	<i>Towards deciphering kidney disease driving mechanisms in Fabry disease</i> (Leonie Gerling)	14:52	<i>From Sore Throat to Sepsis? Exploring Pediatric Invasive Group A Streptococcal Infection (iGAS) Phenotypes Across a Decade</i> (Tessa Görne)
09:17	<i>Identification and Characterization of protective virus-specific T-cell clones after Adoptive Cell Transfer</i> (Sara Malchow)	15:10	Coffee break
09:29	<i>Mechanistic Understanding of Arteriovenous Malformations</i> (Nagi Mahammadzade)	<b>15:25</b>	<b>Session 4</b> (Chairs: Karina Zeyer, Anna Willems)
09:41	<i>Targeting arteriovenous malformations with CAR-T cells in the zebrafish model</i> (Dionyssios Benetatos)	15:25	<i>MRI in Febrile Children: A Retrospective Analysis of Temperature Changes in Children Undergoing MRI with Initial Body Temperature <math>\geq 38.5^{\circ}\text{C}</math></i> (Daniel Matheisl)
09:53	<i>Clonal heterogeneity of acute myeloid leukemia under nutrient and chemotherapy stress</i> (Christina Mayerhofer)	15:37	<i>Implementation of and barriers to adherence control for antituberculous therapy in children, adolescents and young adults in Germany</i> (Sophia Galle)
<b>10:05</b>	<b>Poster walk 1: odd-numbered posters</b> (Chairs: Stephan Ehl, Pia Kröning)	15:49	<i>Parental Education on Intimate Health and Menstruation: Content, Methods, and Attributions of Meaning in Supporting Menstruating Children and Adolescents</i> (Johanna Heine)
10:50	Coffee break	16:01	<i>Outcomes of hormonal treatment for transgender patients: comparison of treatment beginning in youth versus adulthood</i> (Bea Wolf)
<b>11:10</b>	<b>Session 2</b> (Chairs: Anna Esser, Anne Geweniger)	16:13	<i>How to teach pediatrics: Mapping faculty development, teachers' perceptions and student evaluation to improve practice</i> (Sebastian Friedrich)
<b>Keynote lecture I – Carsten Bönnemann (Neuromuscular and Neurogenetic Disorders of Childhood Section, NIH): Clinical Encounters in Neurogenetics: Taking Cues from Single Patients to Discover Genes, Mechanisms, and Therapeutic Approaches</b>		<b>16:25</b>	<b>Closing remarks</b>
11:50	<i>Development of a scoring system to classify restlessness episodes in pontocerebellar hypoplasia type 2A</i> (Alice Kuhn)		
12:02	<i>Acute poisoning from Novel Psychoactive Substances (NPS): Circumstances of NPS use among adolescents and adults</i> (Maren Hermanns-Clausen)		
12:14	<i>Young Minds in Viral Binds: Unravelling the Knots of Post-COVID Challenges and Clinical Phenotypes</i> (Anna Willems)		
12:30	Lunch break		
<b>13:15</b>	<b>Poster walk 2: even-numbered posters</b> (Chairs: Anke Schumann, Jan Schönberger)		

## List of posters: Presenting author – Title

1. Samira Zeidler – Assessment of novel HRAS variants in vascular anomalies by endothelial-specific expression in zebrafish embryos
2. Hanna Grote – Sleep Spindles as Prognostic Markers of Developmental Outcome in Infantile Epileptic Spasms Syndrome: A Retrospective Study Protocol
3. Ferdinand Zimmer – No need to tap them all – biomarker-guided risk prediction of bacterial meningitis in young febrile infants – a retrospective cohort study
4. Katharina Neubauer – Septin 4 deficiency in mice is associated with increased platelet count and hyperreactivity
5. Oliver Wegehaupt – Impact of Di- and Multigenic Heterozygous Variants in FHL Genes on HLH Susceptibility
6. Christian Kimmig – Correlation of Language Development and Socioeconomic Neighborhood Affiliation in 4–5-year-old children: A cross-sectional study on granular geographic data
7. Melanie Kurzmann – Dissecting the molecular basis of monogenic neurodevelopmental disorders in human
8. Sebastian Friedrich – Talking life: Co-created Counseling Services on Relationships, Intimacy, and Life Planning for Young Adults with Neuromuscular Conditions
9. Anna-Lena Herm – Electrical conduction in the context of myocardial fibrosis in the right ventricle of patients with tetralogy of Fallot
10. Maria Elena Maccari – An in situ approach to understanding induction and function of FAS-controlled T cells
11. Antonia Jockers – KidsCarePVS – Care situation and needs of young people with post-viral symptom complexes: Status quo analysis
12. Himanshu Himanshu – Consequences of IFT/ Dyenin-2 complex governed ciliary protein dynamics for skeletal development
13. Lara Dietz and Zoé Volk – Long-term follow-up study of the Freiburg Childhood Cancer Survivor Cohort – part 1: deciphering therapy-related heart and kidney damage
14. Sofia Bajicoff – Metabolic impact of a penicillin derivative with antitumor activity on kinase inhibitor-resistant melanoma cells
15. Luise Schröter – A GMP-compliant manufacturing process for orthotopic T cell receptor replaced CMV-specific T cells
16. Sebastian Friedrich – GrowDMD: an International Study on Transition of Youth with Duchenne Muscular Dystrophy (DMD)
17. Anna Shimbulu – Assessment of novel genetic variants in patients with vascular malformations within the EU-consortium project NARRATIVE
18. Anna Wolfers – A novel form of autosomal recessive STAT1 deficiency with paradoxical gain-of-function type I interferon responses
19. Clara Jauch, Simone Hidalgo – SPASS – Spielangebote im stationären Setting. Die Wirkung heil- und kindheitspädagogischer Spielinterventionen auf das subjektive Erleben von Angst, Stress und Wohlbefinden
20. Sebastian Friedrich – WoLKE – Ethical Aspects of Well being Across the Lifespan of Children and Adults with Rare Muscle Diseases
21. Pacis-Alarine Irambona – Assessing the effectiveness of a community-based model for maternal and child health prevention in low resource settings: Case of Burundi
22. Kathleen Lanette Chavarria Guzman – Novel evidence on EWARS-csd implementation in high-burden Latin American settings: a multi-country study of technical, operational, and health outcomes
23. Anna Esser – PEDNET-LC SHCP – the perspective of interdisciplinary teams on newly established Comprehensive Care Centers for children and adolescents with Post-acute Infection Syndromes
24. Sophia Galle and Anna Esser – Survey on intercultural training programs in pediatric and adolescent medicine
25. Amelie Frank – New Therapies for Duchenne Muscular Dystrophy (DMD): Clinical Courses and Expectations of Affected Families in a Single-Center Cohort
26. Julia Hahn – Einfluss klinischer Parameter auf die erfolgreiche Entwöhnung vom Extracorporeal Life Support (ECLS) bei Kindern
27. Amulya Nataraja – A deep learning framework for the prediction of transcription factor EBF1 binding dynamics at base resolution
28. Doris Böckelmann – Identification and characterization of a FLI1-related defect in a pedigree with platelet storage pool deficiency
29. Anne Geweniger – STAR – Strengthening participation and the active role of children with chronic conditions and disabilities
30. Foued Ghanjati – Integrated single-cell DNA and protein profiling reveals clonal and phenotypic diversity in juvenile myelomonocytic leukemia
31. Foued Ghanjati – Single-Cell Co-Profiling of DNA methylation and genetic alterations reveals extensive epigenetic heterogeneity in Juvenile Myelomonocytic Leukemia
32. Jessica Schmidt – The perspectives of caregivers regarding a play-based intervention to prepare children for their MRI examination using a miniature MRI scanner - A qualitative interview study
33. Saskia Lempert – The perspectives of pediatric patients on their MRI examination after play-based preparation using a miniature MRI scanner - A qualitative interview
34. Ursula Kern – The HILDA Biobank
35. Christina Mayerhofer - OGFOD1 enables AML chemo- and nutrient stress resistance by regulating protein synthesis
36. Alexander Klesen – Human macrophage mechanosensitivity is modulated by immunomodulator stimulation
37. Behnam Younesi – Epigenetic Mechanisms Underlying CAKUT: A Focus on KMT2D