



## Workshop

# 7th International Workshop on the Causes of Childhood Leukemia

## Final program

Monday, November 28

<b>From 11:00</b>	<b>Registration   Welcome coffee</b>	
<b>Session 1   International Perspectives on Childhood Leukemia</b> Chair: Gunde Ziegelberger, Co-Chair: Janine Schmidt		
<b>12:30</b>	<b>Opening and summary of past workshops</b>	<b>S. Hornhardt</b> ◦ BfS Germany
<b>12:45</b>	<b>Social inequalities in the incidence of childhood cancer: key points from the WHO European Report on Inequalities in Childhood Cancer</b>	<b>F. Erdmann</b> ◦ Germany
<b>13:05</b>	<b>Four Decades of Learning and Progress About Acute Lymphoblastic Leukemia in India</b>	<b>S. Bakhshi</b> ◦ India
<b>13:30</b>	<b>PEDIAC: the French national program on the origins and causes of pediatric cancers</b>	<b>T. Mercher</b> ◦ France
<b>13:45-14:15</b>	<i>Coffee break</i>	
<b>Session 2   Infections and Immunity</b> Chair: Arndt Borkhardt, Co-Chair: Omid Azimzadeh		
<b>14:15</b>	<b>Trained immunity: a memory for innate host defense</b>	<b>M. Netea</b> ◦ Netherlands
<b>14:40</b>	<b>Training Immunity to prevent ALL – challenges and prospects</b>	<b>J. Hauer</b> ◦ Germany
<b>15:05</b>	<b>Early infections and immune development in the etiology of childhood acute lymphocytic leukemia</b>	<b>J. Wiemels</b> ◦ USA
<b>15:30</b>	<b>Modeling infection and trained immunity in acute lymphoblastic leukemia</b>	<b>A. Pandya</b> ◦ Germany
<b>15:55</b>	<b>Incidence, time of diagnosis and delivery of healthcare among children with leukaemia during the COVID-19 pandemic: evidence from the German Childhood Cancer Registry</b>	<b>F. Erdmann</b> ◦ Germany
<b>16:20-16:30</b>	<i>Short break</i>	



<b>Proffered papers I   16:30-17:00</b>		
Chair: Janine Schmidt, Co-Chair: Gunde Ziegelberger		
<b>16:30</b>	<b>Oncogene induced senescence in ETV6::RUNX1 pre-leukemia phase of childhood acute lymphoblastic leukemia</b>	<b>D. Acunzo</b> ◦ Italy
<b>16:45</b>	<b>IL-12p40 homodimer/monomer dependent depletion of B cell precursor ALL cells following early-life infection in mice</b>	<b>A. Farrokhi</b> ◦ Canada
<b>From 19:00</b>	<b>Informal get-together at "Bohne &amp; Malz"   Sonnenstraße 11, Munich</b>	

## Tuesday, November 29

<b>Session 3   Environmental Risk Factors</b>		
Chair: Joachim Schüz, Co-Chair: Peter Scholz-Kreisel		
<b>09:00</b>	<b>Low dose ionizing radiation from medical imaging procedures</b>	<b>M. Hauptmann</b> ◦ Germany
<b>09:25</b>	<b>Natural background radiation &amp; air pollution</b>	<b>B. Spycher</b> ◦ Switzerland
<b>09:50</b>	<b>Residential radon as a risk factor for childhood leukemia – What is the evidence?</b>	<b>A. Auvinen</b> ◦ Finland
<b>10:15-10:45</b>	<b>Coffee break</b>	
<b>10:45</b>	<b>Extremely low-frequency magnetic fields and childhood leukaemia: an overview</b>	<b>J. Schüz</b> ◦ France
<b>11:10</b>	<b>The Geocap study</b>	<b>J. Clavel</b> ◦ France
<b>11:35</b>	<b>Childhood Leukemia Environmental Risk Factors (CLERF) Project</b>	<b>D. Baaken</b> ◦ Germany
<b>Breakout Session 12:00-13:00</b>		
CLERF pilot study		
<b>13:00-14:00</b>	<b>Lunch</b>	
<b>Proffered papers II   14:00-15:00</b>		
Chair: Janine Schmidt, Co-Chair: Gunde Ziegelberger		
<b>14:00</b>	<b>Parental occupational exposure to combustion products, metals, silica and asbestos and risk of childhood leukaemia</b>	<b>F. Onyije</b> ◦ France
<b>14:15</b>	<b>Overview of EPRI Research on Powerlines, Plant Nurseries, and Childhood Leukemia</b>	<b>P. Tran</b> ◦ USA



14:30	<b>Mode of delivery and childhood leukemia risk— a Swedish population-based cohort study</b>	<b>C.-E. Kampitsi</b> ◦ Sweden
14:45	<b>28-year incidence and time trends of childhood leukaemia in former East Germany compared to West Germany after German reunification: A study from the German Childhood Cancer Registry</b>	<b>M. Wellbrock</b> ◦ Germany
15:00-15:30	<i>Coffee break</i>	
<b>Session 4   Inflammation and the Bone Marrow Microenvironment</b> Chair: Omid Azimzadeh, Co-Chair: Sabine Hornhardt		
15:30	<b>Role of signaling through the TSLP/IL7R in initiation and propagation of acute lymphoblastic leukemia</b>	<b>S. Izraeli</b> ◦ Israel
15:55	<b>Early hematopoietic stages of pediatric acute megakaryoblastic leukemia</b>	<b>N. Bertuccio</b> ◦ Italy
16:20	<b>ETV6::RUNX1 pre-leukemic niche: role of infections and bone marrow microenvironment in leukemic onset</b>	<b>M. Bertagna</b> ◦ Italy
<b>From 19:00</b>	<i>Conference Dinner at „Schneider Bräuhaus“   Tal 7, Munich</i>	

### Wednesday, November 30

<b>Proffered papers III   08:45-10:30</b> Chair: Sabine Hornhardt; Co-Chair: Gunde Ziegelberger		
08:45	<b>Exploring a potential mechanistic role of CpG-specific methylation in the relationship between environmental exposures and childhood acute lymphoblastic leukaemia</b>	<b>J. McKay</b> ◦ UK
09:00	<b>Exploring the potential role of environmentally-associated DNA methylation to contribute to risk of different subtypes of childhood acute lymphoblastic leukaemia</b>	<b>J. Saville</b> ◦ UK
09:15	<b>Breakpoint-agnostic screening for childhood leukemia</b>	<b>E. Marcotte</b> ◦ USA
09:30	<b>Clinical criteria for genetic testing in pediatric oncology show a low specificity and miss every 4th child carrying a cancer predisposition</b>	<b>F. Auer</b> ◦ Germany



09:45	Characterization of a novel JAK3 variant in a family with a history of leukemia and lymphoma	J. Vogt ◦ Germany
10:00	Virus-specific functional hyperresponsiveness in children with ETV6::RUNX1 positive acute lymphoblastic leukemia (ALL)	K.L. Gößling ◦ Germany
10:15	Pathogen sensor engagement and host immune responsiveness dictate the outcome of TLR ligand exposure on precursor B-ALL cell populations	G. Reid ◦ Canada
10:30-11:00	<i>Coffee break</i>	
<b>Session 5   Genetics and Epigenetics</b> Chair: Janine Schmidt, Co-Chair: Sabine Hornhardt		
11:00	Identification, functional characterization and management of genetic variants associated to predisposition to childhood Acute Lymphoblastic Leukemia	G. Cazzaniga ◦ Italy
11:25	Lessons from a low incidence population: The Admixture and Risk of Acute Leukemia (ADMIRAL) study	L. Spector ◦ USA
11:50	Role of ontogeny and transcriptional alterations in pediatric acute megakaryoblastic leukemia	T. Mercher ◦ France
12:15	Childhood ALL in the context of RASopathies	H. Cavé ◦ France
12:45-13:45	<i>Lunch</i>	
13:45	ETV6 Regulates Hematopoietic Stem Cell Function and Represses TNF During Stress Hematopoiesis	K. Nichols ◦ USA
14:10	Biological insights into the pathogenesis of aneuploidies in childhood B-ALL	P. Menendez ◦ Spain
14:35	Hyperdiploidy: the longest known, most prevalent but still most enigmatic form of acute lymphoblastic leukemia in children	A. Borkhardt ◦ Germany
<b>Session 6   Discussion</b>		
15:00	Looking around and forward – what to do next?	BfS-Team ◦ BfS Germany
15:45-16:15	<i>Coffee and Farewell</i>	