

**WEDNESDAY 9 APRIL 2025**

12.00-13.00 Arrival

13.00-13.15 Welcome and introduction (**Philipp Henneke & Markus Sperandio**)

**13.15-15.15 Session 1: Immunity at the materno-fetal interface (Chairs: Philipp Henneke & Markus Sperandio)**

Petra Arck	Modulation of early life immunity by vertical transfer of maternal immune markers during pregnancy
Nardhy Gomez-Lopez	In Utero Inflammation Causes Preterm Birth, Fetal Injury, and Neonatal Complications
Roland Immler	Preimplantation factor (PIF) is an endogenous inhibitor of potassium channel KV1.3 regulating neutrophil function in vivo during pregnancy
Melanie Conrad	Antibiotic use during pregnancy influences placental morphogenesis and offspring immune system development
Koichiro Suzuki	Maternal gut microbiota induces $\gamma\delta$ T cells at the maternal-fetal interface to prevent pathogen-associated intrapartum complications

15.15-15.40 Coffee break

**15.40-17.50 Session 2: Early innate immune cell development (Chairs: Barbara Schraml & Michele Proietti)**

Elisa Gomez Perdiguero	Title TBC
Claudia Waskow	The role of embryonic macrophages in the formation of a bone marrow niche key for the establishment of a hematopoietic stem cell pool
Eran Elinav	Host-microbiome interaction in health and disease
Renske de Jong	Neonatal monocytes and macrophages display a diverse metabolic phenotype
Larissa Frank	Holistic genetic barcoding reveals a lineage tree of tissue macrophage development

17.50-18.15 Break

18.15-21.15 **Poster evening** with finger food

**THURSDAY 10 APRIL 2025**

**8.45-10.45 Session 3: Development of macrophages and DC (Chairs: Anne Lösslein & David Hackam)**

Guy Boeckxstaens	How resident macrophages shape and maintain the enteric nervous system
Steffen Jung	Monocytes and Macrophages – revisited
Barbara Schraml	ROR $\gamma$ t-expressing dendritic cells are functionally versatile and evolutionarily conserved antigen presenting cells
Marco Prinz	How early postnatal microglia shape CNS homeostasis
Aaron Silva Sanchez	Inhibition of TNFR2 signaling improves neonatal immune responses to vaccination and infection by limiting regulatory maturation of lung XCR1+ dendritic cells

10.45-11.10 Coffee break

**11.10-13.10 Session 4: Maternal cues in early immune development (Chairs: Zsolt Ruzsics & Julia Kolter)**

Galit Alter	Decoding placental antibody transfer and its impact on early life vaccine immunity
Lindsay Hall	Microbial and host interactions in pregnancy and early life: balancing beneficial and pathogenic influences
Christian Schulz	Differential developmental paths and functions of cardiovascular macrophages
Mikael Niku	Maternal microbial metabolites and extracellular vesicles in the fetal development of the intestinal immune system
Nicole Baumgarth	In utero infection modulates neonatal tissue-resident acetyl choline-producing B cells critical for regulating macrophage responses to influenza infection

13.10-14.15 **Lunch, Podium discussion with Editors (Chairs: Sarah Kim-Hellmuth & Ramin Shakiba) & Posters**

<b>14.15-16.15</b>	<b>Session 5: Prenatal immune development (Chairs: Sebastian Preissl &amp; Thomas Boehm)</b>
Muzlifah Haniffa	The developing human immune system
Florent Ginhoux	Interplay between the human fetal immune system and microbes
Yuval Rinkevich	Fibroblast-immune interactions guide skin development and healing response
Katrin Kierdorf	Early microglia progenitors colonize the embryonic CNS via integrin-mediated migration from the pial surface
Naomi McGovern	Placental macrophages and how they fight <i>Listeria monocytogenes</i> infection
16.15-17.15	Coffee break and Posters
<b>17.15-19.15</b>	<b>Session 6: Early life intestinal immunity (Chairs: Natalia Torow &amp; Kathy McCoy)</b>
Dave Hackam	Early life risk factors in the pathogenesis of necrotizing enterocolitis, and the discovery of novel therapies ( <b>CIBSS sponsored talk</b> )
Christina Stehle	Regulation of ILC differentiation and maintenance by the intestinal epithelium
Elise Saager	Naive T cell development in the gut
Chloe H. Lee	Spatio-temporal regulation of intestinal development
Ignacio Gonzalez Perez	A systemic wave of neonatal eosinophils promotes tissue homeostasis and commensalism
20.30 onwards	<b>Speakers' Dinner</b> (invitation only - invited speakers + PILOT PIs)

## FRIDAY 11 APRIL 2025

<b>8.45-10.45</b>	<b>Session 7: Development of adaptive immunity (Chairs: Claudia Nussbaum &amp; Sagar)</b>
Thomas Boehm	Evolutionary trajectory of vertebrate immunity
Deena Gibbons	Unique features of adaptive immune cells in human neonates
Natalia Torow	Long-term induction of hepatic T cell homeostasis during an early neonatal time window
Marta Rizzi	A single-cell multiomics map of prenatal and adult human B-lymphopoiesis
Elena Boldrin	LIN28B constrains IgL receptor editing to accelerate B cell maturation in early life
10.45-11.10	Coffee break
<b>11:10-13.10</b>	<b>Session 8: Development of immunity at interfaces (Chairs: Sebastian Baasch &amp; Dunja Bruder)</b>
Melanie Greter	The development and function of embryonic macrophages at the maternal-fetal interface
Christoph Thaiss	Title TBC
Anne Hilgendorff	Interleukin 7 signaling as a critical player in lung vascular disease connecting immune response and endothelial cell pathology
Elisabeth De Leeuw	Early life RSV infection as a preventable risk factor for asthma
Jochen Hühn	How early-life perturbations and microbiota affect the development of tissue-resident Tregs
13.10-14.10	Lunch & Posters
<b>14.10-16.10</b>	<b>Session 9: Development and adaptation of myeloid cells (Chairs: Claudia Waskow &amp; Melanie Börries)</b>
Paul Kubes	A potential reason for bloodstream infections in newborns
Dorothee Viemann	Understanding adaptation processes in monocytes after birth to promote precision medicine
Christoph Scheiermann	Tracing the development of circadian rhythms in the immune system
Maria Ovezik	Contribution of pancreatic macrophages to neonatal islet maturation and long-term glucose homeostasis
Julia Kolter	TGF $\beta$ drives macrophage development in the skin
16.10-16.55	Coffee break and Posters
<b>16.55-18.55</b>	<b>Session 10: Perinatal immune adaptation (Chairs: Gabriel Nunez &amp; Roland Immler)</b>
Chiara Romagnani	Dynamics and mechanisms of innate clonality
Debby Bogaert	Host-microbiome interaction in the respiratory tract in early life
Philipp Henneke	Development of barrier immunity against naturally colonizing streptococci
Markus Sperandio	How maternal neutrophils facilitate <i>Listeria</i> infection of the placenta and fetus
Hanno Steen	Every Hour Counts: Mapping Neonatal Blood Plasma Proteome Changes during the First 2 Days of Life at Hourly Resolution
20.00 onwards	<b>Social Evening &amp; Prize Ceremony</b> (Wodan Halle)

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**SATURDAY 12 APRIL 2025****8.45-10.45      Session 11: Development of microbiome and metabolism (Chairs: Mathias Hornef & Carsten Marr)**

Christoph Härtel	The role of probiotics in the microbial cloud of preterm babies
Petter Brodin	Microbial sensing via a leaky gut imprints developing immune cells in human newborns
Mathias Hornef	The antimicrobial host response to infection in the neonatal small intestine
Stephanie Ganal-Vonarburg	Microbiota during early life windows orchestrates intestinal maturation and barrier formation in the neonate
Rasmus Kaae Dehli	Early-life bifidobacterial metabolite reduces IgE production and allergic sensitization

10.45-11.10      Coffee break

**11.10-13.10      Session 12: Microbiome and barrier immunity (Chairs: Katrin Kierdorf & Stephan Rosshart)**

Gabriel Nunez	Microbiota-host interactions in Health and Intestinal Inflammatory Disease
Kathy McCoy	Title TBC
Daniel Erny	Different impact of host microbiota on the CNS immune system across mouse strains
Ziad Al Nabhani	The influence of T cell-microbial interactions during weaning on long-term diseases development
Tom Clavel	Gut microbiome and microbe-host interactions in early life

13.10-13.25      Closing remarks (**Markus Sperandio & Philipp Henneke**)

From 13.30      Departure

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