

Borstel Biomedical Research School, Curriculum 2022/2023

Date	Topics	Lecturer	Lectures (approx. 9:15 – 12:15)	Lecturer	Soft Skills (approx. 13:15 – 16:15)
10.01.2022	Immunology and Cell biology	Andra Schromm Andra Schromm	<ul style="list-style-type: none"> – Principles of innate immunity I – Principles of innate immunity II 	Ulrich Schaible Holger Heine	<ul style="list-style-type: none"> – Research Center Borstel: Behind the scenes of the Leibniz Lung Center and its global allocation in the scientific community – Organisation of a scientific meeting
31.01.2022		Holger Heine	<ul style="list-style-type: none"> – Principles of acquired immunity I: T-lymphocytes 	Andra Schromm Thomas Gutschmann	<ul style="list-style-type: none"> – The road towards a PhD thesis – How to prepare a perfect poster
28.02.2022		Nestor González Roldán Zane Orinska	<ul style="list-style-type: none"> – Principles of allergic inflammation – Principles of acquired immunity II: B-lymphocytes and antibodies 	Graduate Representatives	General Graduate Assembly <ul style="list-style-type: none"> – Review on 2021 – Annual report of the graduate representatives – Election of graduate representatives and BBRS ombudspersons
28.03.2022	Cytometry and Structural biology	Dominik Schwudke Sven Müller-Loennies & Nicolas Gisch	Joint day with the LCI Graduate School, All-day course – Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry <ul style="list-style-type: none"> – How can my research project profit from mass spectrometry? – Modern Nuclear Magnetic Resonance (NMR)-Spectroscopy in the analysis of molecular structures and complexes 		
09.05.2022		Thomas Scholzen & Jochen Behrends Christian Nehls	<ul style="list-style-type: none"> – Fluorescence: Indispensable for Microscopy and Flow Cytometry – High-resolution microscopic technique: Atomic force microscopy 		
07.06.2022	Infection and Microbiology	Gabriele Schramm Christoph Hölscher David Hertz	<ul style="list-style-type: none"> – Immunomodulation by parasites – <i>Trypanosoma cruzi</i> infections – Sex matters. Influence of sex on infectious disease 	Holger Heine Holger Heine	<ul style="list-style-type: none"> – Power-Point-Presentations – How to deal with scientific literature: Introduction in PubMed, EndNote, Mendeley and other tools
Summer Break					
05.09.2022	Infection and Microbiology	Katarzyna Duda	<ul style="list-style-type: none"> – Basic principles in microbiology: composition and structure of microorganisms 	Holger Heine	<ul style="list-style-type: none"> – Let's discuss! Discussion culture at the Research Center Borstel
		Uwe Mamat	<ul style="list-style-type: none"> – Virulence und pathomechanisms 	Sebastian Marwitz	<ul style="list-style-type: none"> – Ways to a Postdoc position: discussion of experiences
26.09.2022		Christoph Lange Julius Brandenburg Doris Hillemann Stefan Niemann Sven Müller-Loennies Norbert Reiling Tobias Dallenga Christoph Lange/ Barbara Kalsdorf	Current aspects of TB research <ul style="list-style-type: none"> – Tuberculosis – a patient's perspective – Introduction: Tuberculosis – a global health threat (epidemiology, pathogenesis, animal models for research, current issues) – Mtb Resistance / Work at NRC – Mycobacterium tuberculosis complex: genetics, molecular epidemiology, population structure, genomic and transcriptomic analyses – Structural biology of the mycobacterial cell wall – <i>Mycobacterium tuberculosis</i>: life inside the macrophage – Mechanisms of killing <i>Mycobacterium tuberculosis</i>: imaging in culture and in vivo – Personalized TB Therapy 		

07.11.2022	Lung and Pulmonary diseases	Cordula Stamme Michael Wegmann	<ul style="list-style-type: none"> – Innate and acquired pulmonary immunity – Animal model of functional analysis of the lung 	Ilka Monath Ilka Monath Torsten Stachelhaus (Ascenion)	<ul style="list-style-type: none"> – Using animals in research: requirements and legal issues – Short overview on gender equality and compatibility of family and career – Intellectual property rights
05.12.2022		Cordula Stamme Sebastian Marwitz	<ul style="list-style-type: none"> – Principles of infectious pneumonia – From images to data: Aspects of imaging techniques for lung research 	Frauke Schocker/ Andra Schromm Cordula Stamme Christoph Rehmann-Sutter (Lübeck)	<ul style="list-style-type: none"> – How does the Research Center Borstel support Good Scientific Practice? – Good Scientific Practice at the Research Center Borstel – Scientific misconduct and Good Scientific Practice: ethical perspectives
09.01.2023	Allergy	Holger Heine	<ul style="list-style-type: none"> – Allergy: Innate consequences for an adaptive disease – how the innate immune system influences allergy and asthma 	Cordula Stamme New course: Silke Meiners	<ul style="list-style-type: none"> – How to write a scientific paper – How to read a scientific paper
		Uta Jappe Uta Jappe	<ul style="list-style-type: none"> – From allergen extracts to single allergenic components: Issues to improve diagnosis and therapy – Allergy: clinical symptoms – diagnostic procedures – treatment 		
06.02.2023	NEW! COPD/ Epigenetics	Espen Groth (Großhansdorf) Silke Meiners Markus Weckmann(Lübeck) Susanne Krauss-Etschmann Karoline Gaede	Current aspects of COPD research <ul style="list-style-type: none"> – COPD - clinical diagnosis and therapy – Molecular determinants of COPD – Epigenetic determinants in COPD and exacerbations – N.N. – N.N. 		