

Borstel Biomedical Research School, curriculum 2019-2020

Date	Topics	Lecturer	Lectures (approx. 9:15 – 12:15)	Lecturer	Soft Skills (approx. 13:15 – 16:15)
09.09.2019	Immunology and Cell biology	Holger Heine Andra Schromm	<ul style="list-style-type: none"> – Principles of innate immunity I – Principles of innate immunity II 	Andra Schromm	<ul style="list-style-type: none"> – The road towards a PhD thesis
14.10.2019		Holger Heine	<ul style="list-style-type: none"> – Principles of acquired immunity I: T-lymphocytes 	Stefan Ehlers	<ul style="list-style-type: none"> – Under Pressure: Strategic Positioning of the Research Center Borstel within the German Life-Science Environment
04.11.2019		Zane Orinska	<ul style="list-style-type: none"> – Principles of acquired immunity II: B-lymphocytes and antibodies 	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 RCB – Scientific misconduct and Good Scientific Practice: ethical perspectives
02.12.2019	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 		
13.01.2020		Thomas Scholzen & Jochen Behrends Christian Nehls/Thomas Gutsmann	Fluorescence and Microscopy <ul style="list-style-type: none"> – Fluorescence: Indispensable for Microscopy and Flow Cytometry – High-resolution microscopic technique: Atomic force microscopy 		
03.02.2020	Infection and Microbiology	Gabriele Schramm Christoph Hölscher David Hertz	<ul style="list-style-type: none"> – Immunomodulation by parasites – Trypanosoma cruzi infections – Sex matters. Influence of sex on infectious diseases 	Bettina Brand Graduate Representatives: General Graduate Assembly	<ul style="list-style-type: none"> – Organisation of a scientific meeting – Review on 2019 – Annual report of the graduate representatives – Election of graduate representatives and ombudsperson
02.03.2020		Katarzyna Duda Uwe Mamat	<ul style="list-style-type: none"> – Basic principles in microbiology: composition and structure of microorganisms – Virulence and pathomechanisms 	Thomas Gutsmann	<ul style="list-style-type: none"> – How to prepare a perfect poster

20.04.2020	Infection and Microbiology	Christoph Lange Julius Brandenburg Doris Hillemann Stefan Niemann Sven Müller-Loennies Christoph Hölscher Norbert Reiling Ulrich Schaible/ Tobias Dallenga Christoph Lange, Hannah Fengels, 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 – Animal models: Mechanisms of granuloma necrosis – <i>Mycobacterium tuberculosis</i>: life inside the macrophage – Mechanisms of killing <i>Mycobacterium tuberculosis</i>: imaging in culture and <i>in vivo</i> <ul style="list-style-type: none"> – Visit of the TB ward in the Medical Clinic Borstel / Teaching Ward Round in 3 groups 		
04.05.2020	Lung and Pulmonary diseases	Cordula Stamme Heinz Fehrenbach	<ul style="list-style-type: none"> – Innate and acquired pulmonary immunity – Lung histology 	Holger Heine Holger Heine	<ul style="list-style-type: none"> – How to improve discussion skills – How to deal with scientific literature: Introduction in PubMed, EndNote, Mendeley and other tools
08.06.2020		Cordula Stamme Michael Wegmann Ilka Monath Nina Grohmann	Pulmonary Diseases <ul style="list-style-type: none"> – Principles of infectious pneumonia – Animal model of functional analysis of the lung Using animals in research: requirements and legal issues – Short overview on gender equality and – compatibility of family and career 	Torsten Stachelhaus (Ascenion)	<ul style="list-style-type: none"> – Intellectual property rights
07.09.2020	Allergy	Gabriele Schramm Nestor González Roldán	<ul style="list-style-type: none"> – Principles of allergic inflammation I – Principles of allergic inflammation II 	Cordula Stamme Bianca Schneider	<ul style="list-style-type: none"> – How to write a scientific paper – Ways to a post doc position: discussion of experiences
05.10.2020		Holger Heine Uta Jappe Uta Jappe	Clinical allergology: asthma, atopy and food allergies <ul style="list-style-type: none"> – Allergy: Innate consequences for an adaptive disease – how the innate immune system influences allergy and asthma – From allergen extracts to single allergenic components: Issues to improve diagnosis and therapy – Allergy: clinical symptoms – diagnostic procedures – treatment 	Holger Heine	<ul style="list-style-type: none"> – Power-Point-Presentations