

LCI Graduate School “Infections 2.0”

OVERVIEW Curriculum 2019-2021 of BNITM, HPI and FZB

Update:

- Merging of several seminar days per year into one annual two-day retreat
- Stronger networking of PhDs
- Method days and soft skill courses will be offered as usual

Content

- Lectures by BNITM, FZB and HPI
- Work shops: Methods related to lecture topic
- Key note lecture (Scientific or Soft Skill, external lecturer)
- Variety of PhD thesis sum-ups (3 min speed talk or science slam)
- Get-together (Barbecue, discussions and more)

LCI Curriculum - Retreat 2019
Immune Control of Pathogen Infections
(leading institute: HPI)

Date: Oct 24-25, 2019
Location: Parkhotel Ahrensburg

Day 1 – Virus Immunology (HPI Speakers)

- 1) **HPI Lecture:** General information about immunology and immune system (innate, adaptive, NK cells) by Marcus Altfeld
- 2) **HPI Lecture:** Viral Immune Evasion by Wolfram Brune
- 3) **HPI Workshop (A):** Methods in intrinsic immunity (and discussion) by Thomas Dobner
HPI Workshop (B): Methods in Immunology (and discussion) by Glòria Martrus Zapater
Presentation of workshop results
- 4) **Key note lecture** by Michaela Müller-Trutwin, Pasteur Institut, Paris
- 5) **Speed talks / Science Slam:** 3 min sum-up of your PhD (topic, idea, methods, results)
- 6) **Get together:** Dinner, Discussion

Day 2 – From Infection to Disease (BNITM & FZB Speakers)

- 1) **BNITM Lecture:** The lethal viruses: Ebola, Lassa & Friends by Stephan Günther
- 2) **BNITM Workshop:** Workflows and No-goes in BSL3 & 4 (and discussion) by Stephan Günther
Presentation of workshop results
- 3) **FZB Lecture:** Viral infections as comorbidities by Bianca Schneider / Michael Wegmann
- 4) **FZB Workshop:** Models to study comorbidities (and discussion)
by Bianca Schneider / Michael Wegmann
Presentation of workshop results
- 5) **Sum-up, Farewell:** e.g. Award Ceremony Speed Talks / Science Slams

LCI Curriculum - Retreat 2020 *Molecular Biology of Pathogens*

(leading institute BNITM)

Date: to be determined

Location: to be determined

Day 1 – Molecular Approaches to Parasitology (BNITM Speakers)

- 1) **BNITM Lecture:** Parasitology – Lifestyle and Impact
- 2) **BNITM Lecture:** Malaria – Parasites, Drugs and Disease
- 3) **BNITM Workshop (A):** Methods in ribosomal profiling (and discussion)
BNITM Workshop (B): Methods in cell biology – The does and don'ts in Bioimaging
Presentation of workshop results
- 4) **Key note lecture:** “International Scholar”
- 5) **Speed talks / Science Slam:** 3 min sum-up of your PhD (topic, idea, methods, results)
- 6) **Get together:** e.g. Barbecue, Discussion

Day 2 – Viral Latency and Persistence (HPI & FZB Speakers)

- 1) **HPI Lecture:** Lifelong Infections by Herpesviruses
Molecular Mechanisms of Viral Latency
- 2) **HPI Workshop A:** Genome Editing (and discussion)
HPI Workshop B: Next Generation Sequencing (and discussion)
Presentation of workshop results
- 3) **FZB Lecture:** *Mycobacterium tuberculosis* and lipid metabolism
FZB Workshop: Models and concepts of HDT (and discussion)
Presentation of workshop results
- 4) **Sum up, Farewell:** e.g. Award Ceremony Speed Talks / Science Slams

LCI Curriculum - Retreat 2021 *Immunology – a Balancing Act*

(leading institute FZB)

Date: to be determined

Day 1 – Immune Regulation in Infectious and Non-Infectious Lung Diseases (FZB Speakers)

- 1) **FZB Lecture:** from Priority Research Area Infections
 - 2) **FZB Lecture:** from Priority Research Area Asthma and Allergy
 - 3) **FZB Workshop A:** Relevant models in infection research (and discussion)
FZB Workshop B: Relevant models in asthma and allergy research (and discussion)
Presentation of workshop results
 - 4) **Key note lecture:** External lecturer
 - 5) **Speed talks / Science Slam:** 3 min sum-up of your PhD (topic, idea, methods, results)
 - 6) **Get together:** e.g. Barbecue, Discussion
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Day 2 – Molecular Epidemiology and Prevention (BNITM & HPI Speakers)

- 1) **BNITM Lecture:** Patient Zero: From molecular prediction to catastrophe
- 2) **BNITM Workshop:** Conduction of epidemiological studies in the tropics (and discussion)
Presentation of workshop results
- 3) **HPI Lecture:** Influenza- a continuous challenge for science and healthcare
- 4) **HPI Workshop A:** Pandemic risk assessment: are we prepared for the next influenza pandemic? (and discussion)
HPI Workshop B: Maternal influenza and fetal health (and discussion)
Presentation of workshop results
- 5) **Sum-up, Farewell:** e.g. Award Ceremony Speed Talks / Science Slams