

DFG Research Training Group 2046

“Parasite Infections”, Berlin

Doctoral Researcher checklist in compliance with the requirements of the Program Dahlem Research School Biomedical Sciences



Requirements	Participation	Frequency (CP)	Done
Planning of lectures and seminars for the upcoming semester with the members of the supervisor team.	Mandatory	Prior to each new semester	
<u>Advanced lectures or seminars</u> [^] Participation in genuine lectures, symposia and seminars, always with written proof of participation by the lecturer's signature (e.g. signature booklet)	Mandatory	During each semester (total: 19)	
Berlin Parasitological Seminar Series (BPS; 2 h; Hartmann, for all PhD students)*	Mandatory	Monthly (1.0)	
Interdisciplinary Parasitological Lecture: Parasite Infections: From laboratory-based research to natural systems* (2 h, Hartmann et al.)	Mandatory	Weekly, one semester (1.0)	
Presentation Seminar: participation in Scientific Thinking* with a minimum of one oral presentation per year	Mandatory	Monthly (1.0)	
Participation in The Art of Reading a Paper (2 h; ZIBI GS)*	Mandatory	Monthly (1.0)	
Introductory course: Biostatistical analysis and experimental design (en bloc, 8 h; Hofer)	Mandatory	5 days (2.5)	
Introductory course: Bioinformatics (en bloc, 8 h; Reinert)	Mandatory	5 days (2.5)	
Spring School RTG 2046/Retreat (8 h; Hartmann, von Samson-Himmelstjerna)	Mandatory	2 days (1.0)	
Practical Training (see Specific Skills, section iv)	Mandatory	2 x	
See Interdisciplinary Courses, General Skills and Specific Skills	Optional		
<u>Transferable Skills: Academic Performance</u>			
Good Scientific Practice (8 h; DRS)	Mandatory	2 days (1.0)	
See General Skills Biomedical Sciences or Transferable Skills DRS Headquarters: Reading, Writing, Presenting, Publishing, Teaching, Research Integrity	Optional	1-3 days (0.5/day)	
<u>Transferable Skills: Management Competencies</u>			
Time and Self-Management (8 h; DRS)	Mandatory	2 days (1.0)	
See General Skills Biomedical Sciences or Transferable Skills DRS Headquarters: Mastering IT, Motivating Yourself, Organizing, Communication, Career Development, Project Management)	Optional	1-3 days (0.5/day)	
Written progress report for the supervisory team explaining the progress of the PhD project, attended lectures, symposia, seminars, conferences, etc.	Mandatory	Biannually	
Meeting with the supervisory team Evaluation and assessment of the student from the supervisory team based on the biannual report; written evaluation including the results (mid term examination during 3rd meeting)	Mandatory	Biannually	
<u>Knowledge Transfer</u> Participation in a scientific congress (proof of attendance required).	Mandatory	Annually	
Own presentation of research results at conferences	Mandatory	Annually	

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Required documentation in order to fulfil the requirements for completing the graduate studies	Participation	Min. frequency	Done
Submission and acceptance of scientific publications (first author in an international, peer reviewed journal)	Mandatory	2 x	
Research stay abroad or at an industrial private company	Optional		
<u>Research Management</u> Participation in planning of projects and research management, acquiring third-party funding or participation in seminars on how to write grant proposals, e.g. organizing a focus workshop, the RTG 2046 spring school, or hosting a guest speaker of the BPS	Mandatory	1 x	
Participation in science outreach activities	Optional		
Non-native German speakers: German language course in 1st and 2nd semester (to reach level B2)	Mandatory		
Non-native English speakers: Academic English language course or workshop given by a native speaker (min. 32 h)	Mandatory		

- CP Credit points
 * 1 CP for attending 15 events of the lecture series
 ^ 50 % of these CP must be completed during the doctoral studies program at Freie Universität Berlin

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Courses catering the RTG 2046 curriculum within the
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Interdisciplinary Courses and Specific Skills			
General and Specific Skills Biomedical Sciences, courses from other institutions: Literature Research, Gender issues, Grants Application, Interpersonal Skills, Statistics, Journal Clubs, Lecture Series, Planning Experiments, Technical Skills, Practical Training, Institutional Seminars	Optional		
General Skills	Participation	Frequency	CP
Berlin Life Science Colloquium* (2 h; Zychlinsky, ZIBI GS)	Optional	Monthly	1.0
Lecture Series Infection Biology (2 h; Lucius)	Optional	Weekly (one semester)	1.0
Lecture Series Immunology (2 h; Sawitzki, Charité)	Optional	Weekly (one semester)	1.0
Introductory course: Biostatistical analysis and experimental design (en bloc, 8 h; Hofer)	Mandatory	5 days	2.5
Introductory course: Bioinformatics (en bloc, 8 h; Reinert)	Mandatory	5 days	2.5
Advanced course: Biostatistical analysis and experimental design (en bloc, 8 h; Hofer)	Optional	3 days	1.5
Data Visualization for the Life Sciences (8 h; Scavetta, Science Craft)	Optional	2 days	1.0
Evolutionary genomics using high throughput sequencing (en bloc, 8 h; Heitlinger)	Optional	2 days	1.0
Diverse courses on methodologies in infection biology and immunology (8 h/day, DRS/ZIBI GS)	Optional	2-5 days	0.5/day
Specific Skills	Participation	Frequency	CP
i. Seminars en bloc			
Spring School RTG 2046 (8 h; Hartmann, von Samson-Himmelstjerna)	Mandatory	2 days	1.0
Biodiversity, ecology and evolution of host and parasite communities in East African ecosystems (8 h; Hofer, East, Wachter)	Optional	2 days	1.0
ii. Monthly or weekly Seminars			
Berlin Parasitological Seminar Series (BPS; 2 h; Hartmann, for all PhD students)*	Mandatory	Monthly	1.0
Interdisciplinary Parasitological Lecture: Parasite Infections: From laboratory-based research to natural systems* (2 h, Hartmann et al.)	Mandatory	Weekly	1.0
iii. Journal and Data Clubs			
The Art of Reading a Paper* (2 h; ZIBI GS)	Mandatory	Monthly	1.0

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Specific Skills (continued)	Participation	Frequency	CP
iv. Practical Training			
Experimental genetics to assign gene function (en bloc, 8 h; Matuschewski)	Optional	2 days	1.0
Optogenetic manipulation of protozoan parasites (en bloc, 8 h; Gupta)	Optional	2 days	1.0
Pyrosequencing of single nucleotide polymorphisms (en bloc, 8 h; v. Samson)	Optional	2 days	1.0
Transfection of <i>C. elegans</i> (en bloc, 8 h; Demeler)	Optional	2 days	1.0
Parasite glycomics (en bloc, 8 h; Lepenies)	Optional	2 days	1.0
Mosquito biology (en bloc, 8 h; Levashina)	Optional	2 days	1.0
<i>In vitro</i> cultivation of <i>Plasmodium falciparum</i> and drug susceptibility testing (en bloc, 8 h; Mockenhaupt)	Optional	2 days	1.0
Cellular reprogramming during coinfections (en bloc, 8 h; Hartmann)	Optional	2 days	1.0
Applied FACS Technology (en bloc, 8 h; Steinfeldler)	Optional	2days	1.0
Micromanipulation, parasite infection and imaging of stem cell derived intestinal organoids (en bloc, 8 h; Klotz)	Optional	2 days	1.0
Th2 generation during intestinal nematode infection (en bloc, 8 h; Rausch)	Optional	2 days	1.0
Parasite interaction with epithelial function (en bloc, 8 h; Schulzke)	Optional	2 days	1.0
Diagnosis of diseases in an insect host (en bloc, 8 h; Genersch)	Optional	2 days	1.0
Working with bees in the lab (en bloc, 8 h; Genersch)	Optional	2 days	1.0
Phylogenetic analyses by multi-locus DNA-sequences (en bloc, 8 h; Krücken)	Optional	3 days	1.5
Phyloproteomic analyses based on MALDI-TOF MS (en bloc, 8 h; Murugaiyan, v. Samson)	Optional	2 days	1.0
Parasites in animal farming and aquaculture (en bloc, 8 h; Knopf, IGB)	Optional	2 days	1.0
Academic Performance	Participation	Frequency	CP
General Skills Biomedical Sciences or Transferable Skills DRS Headquarters: Reading, Writing, Presenting, Publishing, Teaching, Research Integrity			
Good Scientific Practice (8 h; DRS)	Mandatory	2 days	1.0
Scientific Writing (8 h; DRS)	Optional	2 days	1.0
Diverse courses promoting scientific development (8 h; DRS)	Optional	1-3 days	0.5/day
Management Competencies	Participation	Frequency	CP
General Skills Biomedical Sciences or Transferable Skills DRS Headquarters: Mastering IT, Motivating Yourself, Organizing, Communication, Career Development, Project Management			
Time and Self-Management (8 h; DRS)	Mandatory	2 days	
Diverse courses promoting personal development (8 h; DRS)	Optional	1-3 days	0.5/day
English Courses			
2 courses offered by native speakers (en bloc, 8 h)	Mandatory	4 days	-
German Courses (for all non-native speakers)			
6 courses (180 h) to reach level B2	Mandatory		-
* 1 CP for attending 15 events of the lecture series			