Overview of courses within the doctoral	programmes 2024-2026
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Subject to change - next yearly update around April 15 2025

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For information on doctoral programmes, click here.

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Programme	Co-organised with	Full course code	Title of the course	Credits	Spring term 2024		Spring term 2025		Spring term 2026	Autumn term 2026	Comments
Aii		K2F2705	Basic Inflammation	3				Х			
Aii		K2F3139	Basic Immunology	3	Х	Х		Х		Х	
Aii		K8F3187	Basic Immunology	3			Х		Х		
Aii	CVR	K2F5749	Cytokines in Inflammation	3	Х		Х		Х		
Aii		C6F5652	Pulmonary Inflammation	3			Х				
Aii	Neuro	K8F3200	Clinical and Experimental Neuroimmunology	1.5				Х			
Aii		C1F3114	Molecular Immunology	3		Х		Х		Х	
Aii	Master's Programme in Biomedicine	H7F3178	Mucosal Immunology	3		Х			Х		
Aii	Neuro	K8F5252	Psychoneuroimmunology	4.5					Х		
Aii		H7F3072	Tissue-specific Immunology	1.5				Х			
Aii		H9F5739	Antigen Presentation and T Cell Activation	1.5	Х		Х		Х		
Aii		K2F2186	Generating Genetically Modified Mice for Immunological Research	1.5		Х				Х	
Aii		K2F2760	Translational medicine in the field of autoimmunity - an overview	3	Х					Х	
Aii	CVR		Flow Cytometry: from Theory to Application	1.5		Х		Х		Х	Wet lab course
Aii	CVR	K ノト ちち くく	Neural Regulation of Inflammation and Metabolism	1.5			Х		х		
Aii	CVR	K2F5744	Immunometabolism: A Hands-on Course on a Frontrunning Research Field	1.5					Х		
Aii	BIGH	K7F2522	Proteomics by Mass Spectrometry: When and How	3		Х		Х		Х	

Aii	BIGH, DevReg and FoTo	K7F3102	Omics Data Analysis: From Quantitative Data to Biological Information	3	3		х		Х		Х	
Aii		K8F2348	Functional Fluorescence Microscopy Imaging (fFMI) in Biomedical Research	3			х		Х		х	
BiGH		H7F5745	Clinical Immunology in Infectious Diseases	1.5		Х		Х				
BiGH		C1F2861	Biomedical Ecology - The Microbiota in Health and Disease	1.5		Х				Х		
BiGH	Master's Programme in Biomedicine	C1F5234	Clinical and Molecular Parasitology and Mycology	1.5					Х			
BiGH	Master's Programme in Biomedicine	C4F4215	Clinical and Molecular Bacteriology	1.5			х				Х	
BiGH	Master's Programme in Biomedicine	H7F5237	Human Viral Diseases: Mechanisms and Pathogenesis	1.5		Х		Х		Х		
BiGH	Aii	K7F2522	Proteomics by Mass Spectrometry: When and How	3			Х		Х		Х	
BiGH	Aii, FoTo, DevReg	K7F3102	Omics Data Analysis: From Quantitative Data to Biological Information	3	3		Х		Х		Х	
BiGH		K9F2674	Practical Approaches to Qualitative Research - Based on Blended Learning	7.5			Х		Х		Х	
BiGH		K9F2917	Pragmatic Randomised Controlled Trials in Healthcare	4.5		Х				Х		
BiGH		K9F3032	Mixed Methods: Integration of Qualitative and Quantitative Data within Applied Health Research	3		Х		Х		Х		
BiGH		K9F3185	Core Concepts in Global Health and Global Burden of Diasease	3							Х	
BiGH		K9F3196	Global Health Economics	3					х		х	
BiGH		K9F5236	Improving Use of Medicine, Focusing on Antibiotics	1.5			Х				Х	
BiGH		K9F5695	Basic Pharmacoepidemiology and Critical Review of Pharmacoepidemiological Scientific Literature In a Global Context	3					Х			
BiGH		K9F5740	Quality Assurance in Research From a Global Perspective	3			Х		Х		Х	
BiGH		K9F6009	Global Sexual and Reproductive Health and Rights: Methods, Concepts and Implications for Policy and Practice	3			х				Х	
CBG		C1F3230	Genomics for Biomedical Scientists: Handle your Gene Expression Data	3			Х		Х		Х	
CBG	Master's Programme in Biomedicine	C1F5223	Artificial Intelligence and Machine Learning for Biomedical and Clinical Research	3			Х		Х		Х	

CBG		C1F5626	Basics of Programming for Biomedical and Clinical Research	3	Х		Х		Х		
CBG	Rotating course KI- RBC at UNL, Lincoln, Nebraska USA - MUSC, South Carolina USA - a.o.	C2F2214	Redox Regulation, Oxidative Stress and Selenoproteins	3	х		х		Х		
CBG	Rotating summer school KI-Keio-Beida-	C4F6006	Aging and Longevity: from Biology to Social Science	1.5		Х					
CBG	KCL	TBD	New course (topics for 2025 and 2026 will be decided as soon as possible)					Х		х	A new syllabus will be submitted
CBG		C5F3219	Basic Electron Microscoping for Cell Biologists	1.5	Х		Х		Х		
CBG		C6F3127	Human Cell Culture. Methods and Applications	1.5		Х		Х		Х	
CBG	Rotating course KI- RIKEN IMS, Japan	H7F5633	Bioinformatics Analysis and Visualisation of Medical Genomics Data	3		Х		Х		Х	
CBG		K1F2981	Rare Disease Genomics	1.5				Х			
CBG		K2F5308	Fundamentals of Statistical Genetics and Data Visualization	1.5	х		х		Х		
CVR		C2F3184	Vasculature in Health and Disease - Mechanisms, Models and Targets	1.5			Х				Wet lab course
CVR	Neuro	C4F6001	Trauma Science	1.5	Х					Х	
CVR		D1F5536	Coronary Heart Disease: Present and Future Perspectives in a Pan-Vascular Context	1.5	х				Х		
CVR		K1F3191	Sex and Gender Aspects of Clinical Cardio and Cerebrovascular Research	1.5			Х				
CVR	Aii	K2F5744	Immunometabolism: A Hands-on Course on a Front-running Research Field	1.5					Х		
CVR	Aii	K2F5749	Cytokines in Inflammation	3	Х		Х		Х		
CVR	Master's Programme in Biomedicine	K1F6013	Vascular Cell Biology	3		х		Х		Х	
CVR		K2F2878	Current advances in atherosclerosis research	1.5				Х			
CVR		K2F3113	Endothelial Cell Function and its Relevance in Cardiovascular Disease	1.5		х				Х	Wet lab course
CVR	Aii	K2F3120	Flow Cytometry: from Theory to Application	1.5		Х		Х		Х	Wet lab course

CVR	Epi	C6F3132	Cardiovascular Epidemiology	1.5	1			Х				
CVR		K2F3133	Cardiovascular Research - an Overview of the Process of Atherosclerosis	1.5		Х				х		
CVR		K2F3173	Clinical Trials in Cardiovascular Research	1.5		Х		Х		Х		
CVR		K2F3197	Basic Cardiovaslucar Pathology	1.5					Х			
CVR		K2F3238	Thrombosis and Haemostasis, from Mechanisms to Therapies	3			Х			Х		
CVR	ESC in Italy	K2F5307	Clinical Trials in Heart Failure Research	1.5			Х		Х		Х	
CVR		K2F5310	Diabetes and Cardiovascular Disease	1.5					Х			
CVR		K1F5528	Translational Strategies in Cardiovascular Research	1.5				Х				
CVR	Aii	K2F5533	Neural Regulation of Inflammation and Metabolism	1.5				Х		Х		
CVR		K2F5574	Lipid Metabolism and Inflammation in Cardiovascular Disease	1.5				Х				
CVR		K2F5651	Practical Skills in Cardiometabolic Research	3				Х				Wet lab course
CVR		K2F5678	Current clinical applications of epigenetics in cardiometabolic diseases	1.5						Х		
CVR		K2F5690	Age, Ageing and Cardiovascular Health	1.5							Х	
DevReg		C5F3107	CNS Injuries and Repair	2			Х		Х		Х	
DevReg		H2F2537	High Throughput Functional Genomic Technologies in Biomedical Research	1.5		Х		Х		Х		
DevReg		H2F2870	Microscopy: Improve your Imaging Skills - from Sample Preparation to Image Analysis	6		Х		Х		Х		
DevReg		H2F2948	Principles of Nucleic Acid Structure	3					Х			
DevReg		H2F3047	Understanding and Fighting Disease using Structural Biology	3						Х		
DevReg	Master's Programme in Biomedicine	H5F3080	Gene Regulation in the Early Human Embryo	1.5			Х		Х		Х	
DevReg		H5F3089	Cryobiology in Assisted Reproductive Technology	1.5			Х				Х	
DevReg		H5F3150	Embryology I	1.5			Х				Х	

DevReg		H5F3175	Extracellular Vesicles: Progress Towards Diagnostics and Therapy	2				Х		Х		
DevReg	Master's Programme in Biomedicine	H5F5562	Stem Cells and Organoids Models with Focus on Regenerative Medicine	1.5			Х	Х	Х	Х	Х	
DevReg		H5F5737	Nucleic Acid Chemistry and Therapy	3		Х			Х			
DevReg		H7F5309	Cancer and Cancer Stem Cells	1.5				Х				
DevReg		H9F2291	Clinical Achievements of Reproductive Medicine	1.5			Х		Х		Х	
DevReg		H9F3049	Cellular Signalling	1.5			Х		Х		Х	
DevReg	University of Toronto, Canada	H9F3081	Medical Developmental Biology	1.5			Х		Х		х	
DevReg		H9F3218	Gene and Cell Therapy Product (ATMP) Drug Development	1.5				х		Х		
DevReg		H9F5318	Sex and Gender Perspectives in Biomedical Research	1.5					Х		Х	
DevReg		K6F5538	The Basics of Skeletal Biology: from Evolutionary Origins to Translational Research	3		Х		Х				
DevReg		K7F3060	Regenerative Medicine: Principles to Practice	3					Х			
DevReg	Aii, BiGH, FoTO	K7F3102	Omics Data Analysis: From Quantitative Data to Biological Information	3	3		Х		Х		Х	
DevReg		TBD	The role of angiogenesis in regeneration: a precision medicine approach	2					Х			A new syllabus will be submitted
Epi		C6F3042	Biostatistics I: Introduction for epidemiologists (IMM)	3	1	Х		Х		Х		
Epi		C6F3128	Epidemiology I: Introduction to Epidemiology (IMM)	1.5	1			Х			Х	
Epi		K9F3078	Epidemiology I: Introduction to Epidemiology (GPH)	1.5	1		Х			Х		
Epi		C8F3041	Epidemiology I: Introduction to Epidemiolgy (MEB)	1.5	1	Х			Х			
Epi	CVR	C6F3132	Cardiovascular Epidemiology	1.5	1			Х				
Ері		K9F3143	Introductory Course in SAS Programming	1.5	1		Х			х		
Ері		K9F5315	Fundamentals of Stata language	1.5	1		Х			х		
Ері		K9F5314	Biostatistics II: Logistic Regression for Epidemiologists (GPH)	1.5	2		Х		Х		Х	

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Epi		C8F5519	Biostatistics II: Logistic Regression for Epidemiologists (MEB)	1.5	2	Х		Х		Х		
Epi		C6F3138	Epidemiology II. Design of Epidemiological Studies (IMM)	1.5	2	Х	Х	Х	Х	Х	Х	
Epi		C8F2958	Introduction to R	1.5	2	Х		Х		Х		
Epi		C8F3077	An Introduction to Genetic and Molecular Epidemiology	1.5	2			Х			Х	
Epi		C8F3155	Infectious Disease Epidemiology	1.5	2			Х			Х	
Epi	Neuroscience	H1F3131	Application of Epidemiological Methods in Aging Research	1.5	2			Х			Х	
Epi		C6F3129	Epidemiology III. Analysis and Interpretation of Epidemiological Data	1.5	3	Х		Х		Х		
Epi		C8F2416	Causal Inference for Epidemiologists	1.5	3		Х		Х		Х	
Epi		C6F3046	Causal Inference: Emulating a Target Trial to Assess Comparative Effectiveness	1.5	3	Х				Х		
Epi		C6F5649	Transporting Treatment Effects from Randomized Trials to Target Populations	1.5	3			Х				
Epi		C8F2798	Applied Longitudinal Data Analysis	2.5	3				Х			
Epi		C8F2992	Biostatistics III: Survival Analysis for Epidemiologists (using R)	1.5	3		Х		Х		Х	
Epi		C8F3142	Biostatistics III: Survival Analysis for Epidemiologists (using Stata)	1.5	3	Х		Х		Х		
Epi		K2F2868	Advanced Course in SAS Programming for Health Care Data	1.5	3			Х			Х	
Epi		K9F5316	Fundamentals of Using Python in Health Related Research	1.5	3				Х			
Epi		C6F2959	Fundamentals of Statistical Modeling	1.5	4	Х		Х		Х		
Epi		C8F2893	Design and Analysis of Twin and Family-based Studies	1.5	4			Х			Х	
Epi		C8F5577	Extensions to the Design and Analysis of Controlled Epidemiological Studies	1.5	4		Х			Х		
Epi		C8F5694	Multivariate Prediction Models, Machine Learning and AI with Applications in Precision Medicine	1.5	4				х		Х	
Epi		TBD	Advanced biostatistical methods (Advanced Survival analysis?) - workshop/new course	1.5	4							
Epi		TBD	Advanced methodologies for causal inference in longitudinal data - workshop/workshop	1.5	4				Х			

Ері		TBD	Causal inference with competing events - workshop/new course	1.5	4					Х		
FoTO		C1F2919	Precision cancer medicine	1.5				Х				
FoTO		C1F3024	Advanced cancer biology	3		Х	Х	Х	Х	Х	Х	
FoTO		C1F3076	Cancer Cell Metabolism	1.5					Х			
FoTO		C1F5636	Microbiota and Cancer	1.5				Х				
FoTO		C2F5557	Genome Instability in Cancer Development and Therapy	1.5		Х				х		
FoTO		C5F3026	Cell Cycle, Cancer and Anti-Cancer Targets	1.5				Х				
FoTO		C8F5534	Clinical Cancer Genomics	1.5				Х		Х		
FoTO	Master's Programme in Biomedicine	H9F5520	Incurable Cancers	1.5			Х				Х	
FoTO		H5F2987	Preclinical Imaging Techniques	1.5		Х						
FoTO	Master's Programme in Biomedicine	H7F5309	Cancer Stem Cells	1.5			Х			Х		
FoTO		K1F3151	Inherited Cancer Syndromes; Genes Predisposing to Malignant Disease	1.5				Х				
FoTO		K6F3022	Translational Paediatric Oncology in the Era of Immunotherapy and Omics	1.5		Х				Х		
FoTO			Radiotherapy: Our Invisible Ally Against Cancer	1.5				Х				
FoTO	Aii, BiGH, DevReg	K7F3102	Omics Data Analysis: From Quantitative Data to Biological Information	3	3		Х		Х		Х	
FoTO		K7F3110	Tumor Immunology and Immune Therapy of Cancer	1.5			Х		Х		Х	
FoTO	Master's Programme in Biomedicine	K7F3112	Basic Course in Tumor Biology and Oncology	3			Х		Х		Х	
FoTO	Master's Programme in Biomedicine	K7F5232	Tumor Microenvironment	1.5			Х		Х		Х	
FoTO		K7F5275	Basic Tumor Histopathology	1.5				Х		Х		
FoTO		K7F5505	Clinical Oncology for Pre-clinical Doctoral Students	1.5		Х		Х		Х		
FoTO	Master's Programme in Biomedicine	K7F5541	Overview course in Cancer Drug Discovery	1.5			Х		Х		Х	

MetEndo	Master's Programme in Biomedicine	C3F3157	Mechanisms of Gene Regulation in Metabolism	1.5		Х		Х		Х	
MetEndo	Master's Programme in Biomedicine	K1F3121	Experimental Techniques in Study of Metabolic and Endocrine Disorders	1.5		Х		Х		Х	
Neuroscience		H1F5539	Alzheimer's Disease: Clinical Features and Pathogenic Mechanisms	1.5			Х				
Neuroscience	BSc-programme in Biomedicine	C4F3220	Basic Human Neuroscience	10		Х		Х		Х	The course does not give regular course credits for doctoral
Neuroscience		C4F5239	Behaviroal Analysis in Rodents: Classic and Novel Approaches	1.5			х				
Neuroscience	Master's Programme in Biomedicine	C4F2624	Brain Circuits	1.5		Х		Х		Х	
Neuroscience	Aii	K8F3200	Clinical and Experimental Neuroimmunology	1.5				Х			
Neuroscience		K8F5287	Clinical Research in Child and Adolescent Psychiatry: Methods and Practice	1.5		Х				Х	
Neuroscience		TBD	Cognitive aging, neuropsychology and cognitive diagnostics	1.5			Х				New syllabus will be submitted
Neuroscience		K6F5255	Early Child Development: Extended Interactions Between Neural Networks, Body and Environment	1.5	Х		Х		Х		
Neuroscience	Master's Programme in Biomedicine	C4F5573	Functional Cognitive Neuroanatomy	1.5		Х		Х		Х	
Neuroscience		K8F5522	Imaging in Neuroscience: with a Focus on Functional Magnetic Resonance Imaging Methods	1.5				Х			
Neuroscience	GIH.se	H1F6004	Imaging in Neuroscience: with a Focus on Functional Near Infrared Spectroscopy (fNIRS)	1.5		Х				Х	
Neuroscience		K8F3035	Imaging in neuroscience: with a focus on MEG and EEG methods	1.5	Х				Х		
Neuroscience		H1F3064	Imaging in Neuroscience: with a Focus on Structural MRI Methods	1.5		Х				Х	
Neuroscience		H1F2846	Integration of Neuroimaging and Cognition in Normal Aging and Dementia	1.5					Х		
Neuroscience		K8F5685	Introduction to Image Processing Using MATLAB: with a Focus on Neuroscience	1.5		Х		Х		Х	
Neuroscience		H1F5569	Linear Regression Analysis in Neuroscience: Model Choice, Implementation, Analysis Errors and	3	Х				Х		
Neuroscience		K8F5595	Nervous System Injury and Repair	1.5	Х		Х		Х		

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Neuroscience		K8F5697	Network Neuroscience	1.5				Х			
	Master's Programme in Biomedicine	H1F5572	Neurodegenerative Disorders I: Genes, Mechanisms and Clinical Aspects	1.5		Х		Х		Х	
Neuroscience		H1F2630	Neurodegenerative Disorders II - Cellular and Molecular Mechanisms	1.5		Х				Х	
Neuroscience		K8F2526	Neuropsychopharmacology	1.5	Х				Х		
Neuroscience		K8F2362	Positron Emission Tomography Imaging of the CNS	1.5			Х				
Neuroscience		H2F5561	Protein structure, function and disease	3				Х			
Neuroscience		H1F5767	Psychedelic Science - Past, Present and Future	1.5					Х		
Neuroscience		K8F5676	Psychological Models of Psilocybin Drug Administration	1.5				Х			
Neuroscience	Aii	K8F5252	Psychoneuroimmunology	4.5					Х		
Neuroscience		K8F5684	Sensory Perception in Clinical and Practice and Research	1.5		Х		Х		Х	
Neuroscience		K8F5216	Stress, Sleep and Health	3		Х				Х	
	Master's Programme in Biomedicine	C2F2780	The Developing Brain	1.5		Х		Х		Х	
Neuroscience		C4F5677	The Interplay Between Neuro-Infections and Neurodegenerative Diseases	3			Х				
Neuroscience		K8F5639	The Science of the Placebo Effect	1.5					Х		
Neuroscience		K8F3193	The Vascular Brain	1.5	Х				Х		
Neuroscience		TBD	Translational neuroscience of addiction	3			Х				New syllabus will be submitted
Neuroscience	CVR	C4F6001	Trauma Science	1.5	х					Х	
PHSP		K9F2928	Public Health Research - Concepts and Theories	3			Х				Every other year
PHSP		C6F5540	Implementation Research in Health	5	х				х		Every other year
PHSP		H1F5688	Societal and Life-course Perspectives on Inequalities in Aging	3				Х			Every other year
PHSP		K9F5320	Global Mental Health	3				х			Every other year

PHSP		K9F5321	Health Policy and Management	3			Х				Every other year
PHSP		K9F5693	Inequalities in Health – Mechanisms and Measurement	3					Х		Every other year (new course)
PHSP		K9F5743	Fundamentals of Quality Assurance in Medical Science and Public Health Research	1.5	Х		Х		Х		Every other year (new course)
PHSP		K9F6010	Migration and health	2		Х				Х	Every other year
PHSP		K9F6011	Data Management in Survey Design	2		Х		Х		Х	Every year
Puf-V		C7F2609	Basic Course in Medical Statistics - a distance course	3	Х	Х			Х		for the Research School in Health Science
Puf-V	Research school MoF-V	C7F3181	Introduction to Teaching and Learning in Higher Education	1.5				х			
Puf-V		C7F5301	Methods for Design and Formative Evaluation of eHealth Interventions	3			Х			Х	for the Research School in Health Science
Puf-V		C7F5302	Information Literacy, Philosophy of Science and Research Ethics	3				Х			for the Research School in Health Science
Puf-V		C7F5506	Research Communication in Health Science	1.5	Х				Х		for the Research School in Health Science
Puf-V		C7F5725	Introduction to Medical Education Research	4.5	Х				Х		
Puf-V		H1F2664	Introduction to Modern Test Theory and Test/Survey Methodology	4				х			for the Research School in Health Science
Puf-V		H1F2673	Introduction to Qualitative Methods	4	Х	х	Х		Х		for the Research School in Health Science
Puf-V		H1F2688	Multi-Disciplinary Perspectives on Active Ageing Research (will get new syllabus)	3				х			
Puf-V		H1F2693	Measuring Physical Activity with Focus on Wearable Monitors - Applications for Clinical and Epidemiological Studies	3		Х					
Puf-V		H1F3029	Observation and Visual Methods in Health Care Sciences Research	4.5		Х				х	for the Research School in Health Science
Puf-V	Open Lab	H1F3180	Bridging Science and Societal Needs Through Design Thinking	4	Х						
Puf-V		H1F3232	Developing and Evaluating Complex Interventions: Effective Implementation	3		х	Х			Х	for the Research School in Health Science
Puf-V		H1F5222	Preventing Illness or Promoting Health: Concepts and Illustrations from Healthcare Science Perspectives	1.5	х				Х		
Puf-V		H1F5249	Implementation Science – Implementation Leadership in Healthcare and Social Services	5		Х			Х		

Puf-V		H1F5294	Health Science and Implementation: Conceptual Foundations	2				Х			for the Research School in Health Science
Puf-V		H1F5555	Methods for Systematic Review, from Idea to Project Plan (Part 1)	4.5		Х				х	for the Research School in Health Science
Puf-V		HIFうううり	Methods for Systematic Review, from Project Plan to Report (Part 2)	3			Х				
Puf-V		H1F5585	Construction and Validation of Measurement in Behavioral Science	4.5				Х			
Puf-V	Research school MoF-V	H1F5741	Healthcare Science and Care Sciences: Conceptual Foundations	1.5	Х						
Puf-V		K6F6008	Methods for Thematic and Qualitative Content Analysis	3		Х				х	
Puf-V		K8F2520	Interview Techniques in Health and Care Research	4	Х		Х		Х		for the Research School in Health Science
Puf-V		K9F6005	Sustainable Health and the 2030 Agenda	2		Х		Х		х	
Puf-V		TBD	Introduction to mixed-methods in care sciences (new)	3				Х			