Curriculum

from 1.1.2025 onwards

Doctoral Pilot Programme in Immunology (ImmuDocs) / Faculty of Medicine

Faculties and degrees:

Faculty of Medicine: Doctor of Philosophy, Doctor of Medical Science, Doctor of Odontology

Faculty of Science: Doctor of Philosophy

Faculty of Technology: Doctor of Philosophy, Doctor of Science in Technology

Turku School of Economics: Doctor of Science in Economics and Business Administration, Doctor of

Philosophy and Doctor of Social Sciences

General description

Doctoral researchers of the Doctoral Pilot Programme in Immunology (ImmuDocs) carry out their doctoral studies in the Faculty of Medicine, Faculty of Science, Faculty of Technology or Turku School of Economics in research teams of high scientific quality. The doctoral researchers follow each faculty's study guide for postgraduate studies 2024-2027 for degree requirements, including requirements of the doctoral thesis. In addition to the provisions of the study guide, doctoral training is governed by this curriculum. The main objective of the doctoral pilot programme is to provide its doctoral researchers with a high level of scientific training in the fields of immunology and immunology-based drug development and diagnostics, thus providing the knowledge and skills for both professional research careers and other career paths requiring a high level of expertise.

Learning outcomes

After completing their doctoral studies, doctoral researchers

- have a broad knowledge of modern and applied immunology and an understanding and application of their key methods;
- acquire a scientific mindset and critical data analysis skills in line with good scientific practice;
- are well equipped to participate in the international scientific community, including conferences, research visits, laboratory courses, publication and peer review;
- are able to communicate their research results clearly and effectively to both the scientific community and the wider public;
- understand the full life cycle of immunology-based diagnostic and drug innovations, covering all relevant stages from concept to clinical application;
- understand the importance and impact of immunology on well-being, economy and society;
- are aware of career opportunities after the doctorate in the field of immunology.

Content

Doctoral Pilot Programme in Immunology includes general, research method and research field specific training. In addition to the doctoral thesis, doctoral researchers must complete a minimum of 40 credits of postgraduate studies, including a range of field-specific and optional courses tailored to support their research and career plans. Finnish language courses are recommended for non-native speakers of Finnish, for example 'Let's Start! Introduction to Finnish Studies, 1 ECTS' or 'Finnish 1, 4 ECTS'.

Information on teaching languages: English, Finnish

ImmuDocs postgraduate studies / Faculty of Medicine

General Stud	ies and Research Method Training	10-20 ECTS
	eneral studies	2 ECTS
PGS_1668	Philosophy of Medicine (Obligatory Course in English) or	2
PGS_1012	Lääketieteen tieteenteoria ja etiikka (pakollinen kurssi suomeksi) or	_
UGSY0001	Ethics of Academic Research	
Recommended general studies		
IFDM1001	Presentations and Communication – Essential Tools and Tips	0-18 ECTS
IFDM1002	Business, Innovation and Market Access-Pharma Market and Value of	3
	Medicines	
IFDM1003	InFLAMES Professional Development	1
IFDM1004	Publishing and Scientific Writing	1
IFDM1007	Key elements in leading a pharmaceutical company	1
UGSB0007	Leadership in contemporary working life	3
UGSH0006	Three Minute Thesis training	1
UGSL0002	Research Data Management	3
	Studies offered by the graduate school and other general studies	0–10
Recommend	led research method training	0-18 ECTS
IFDM1005	Immunohistochemistry in Research - lectures	1
IFDM1006	Immunohistochemistry in Research - practical	1
IFDM1008	A Bioscientist's introduction to computing and coding concepts	1
IFDM1009	R programming for bioinformatics	1–2
IFDM1010	A Bioscientist's practical training in data analysis	1–2
IFDM2002	Flow Cytometry Practical Training	1
IFDM2003	Imaging Immunology - lectures and practical training	2
IFDM2004	Flow cytometry online course	1
MBID0025	Introduction to Immunoassays in Diagnostics	1
PGS_1675	Laboratory Animal Science Course (ENG)	3–6
	Studies offered by the graduate school and other research method training	0–13
	Id Specific Studies	20–30 ECTS
Obligatory r	esearch field specific studies	6
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ImmuDocs postgraduate studies / Faculty of Medicine

	Optional suitable studies, also at other universities, e.g.	0-10 ECTS
743666S	Introduction to immunology (University of Oulu)	5
743668S	Tumor cell biology (University of Oulu)	5
KK-PHD-	Grant Writing for Doctoral Researchers (Life and Natural sciences), R7,	1
ENG603	Online teaching (University of Helsinki)	