Study programme: **P0988D080002 – Immunopharmacotherapy** Number of credits: **240**
Academic year: **2021/2022**

Field of study: **Immunopharmacotherapy**
Form of study: **Part-time** Specialization: **AJ**
Stage: **1** Version: **2020** Number of credits: **240**

Obligatory subjects - basic (block status: A)

No. of courses: 5 credits: 38

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/AC001	Foreign Language	15	0S+0S+0S	Ex	1 W/S
DSPL/AC020	Teaching Practice	15	0S+0S+0S	Con	1 W/S
DSPL/AC040	Congress Presentation with an Abstract	8	0S+0S+0S	Con	1 W/S
DSPL/A010	Participation in a Grant Project	0	0S+0S+0S	Con	1 W/S
DSPL/A990	State Doctoral Exam	0	0S+0S+0S	Sdz	1 W/S

Note: Each of the students is to choose the "Foreign Language" individually: either English or German. 15 credits for "Teaching Practice" can be acquired only once during the whole course of studies. Credits for "Congress Presentation with an Abstract" can be acquired only by the student, who is stated as the first author and who submits a photocopy of the published abstract. The studies are concluded by the state doctoral exam and the defence of the dissertation thesis.

Obligatory subjects - specialized (block status: A)

No. of courses: 16 credits: 27

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/A031	Research Visit (a Minimum of 1 Month)	2	0S+0S+0S	Con	1 W/S
DSPL/A209	Journal Club Immunopharmacotherapy	3	0S+0S+240S	Con	1 W/S
DSPL/AC201	Immunology - Practical Lessons	1*	0S+15S+0S	Con	1 W
DSPL/A201	Immunology - Theoretical Seminar	2	0S+0S+20S	Ex	1 W
DSPL/A202	Cell Signaling - Theoretical Seminar	2	0S+0S+10S	Co	1 W
DSPL/AC202	Cell Signaling - Practical Lessons	1*	0S+10S+0S	Con	1 S
DSPL/AC204	Biotechnology - Practical Lessons	1*	0S+20S+0S	Con	1 S
DSPL/A203	Principles of Pharmacology-Theoret. Sem.	2	0S+0S+15S	Co	1 S
DSPL/A204	Biotechnology - Theoretical Seminar	2	0S+0S+15S	Co	1 S
DSPL/AC203	Pharmacology of Nanoparticles-Pract.Les.	1*	0S+10S+0S	Con	2 W
DSPL/AC207	Characterizat. of Nanomat.&Biomol.-Pr.L.	1*	0S+10S+0S	Con	2 W
DSPL/AC208	Bioimaging in Vivo and in Vitro-Pr. L.	1*	0S+10S+0S	Con	2 W
DSPL/A205	Biologicals - Theoretical Seminar	2	0S+0S+10S	Co	2 W
DSPL/A206	Technologies of Micro & Nano Objects-T.S	2	0S+0S+5S	Co	2 W
DSPL/A207	Characterizat. of Nanomat.&Biomol.-Th.S.	2	0S+0S+5S	Co	2 S
DSPL/A208	Bioimaging in Vivo and in Vitro-Theor.S.	2	0S+0S+10S	Co	2 S

Elective subjects - specialized (block status: B)

Min.no.of 20 credits

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/B201	Immunotoxicology	20*	0S+0S+20S	Ex	2 W/S
DSPL/B202	Nanotoxicology	20*	0S+0S+20S	Ex	2 W/S
DSPL/B203	Vaccines	20	0S+0S+10S	Ex	2 W/S
DSPL/B204	Molecular Diagnostics in Immunology	20	0S+0S+5S	Ex	2 W/S
DSPL/B205	Tumor Immunology	20	0S+0S+5S	Ex	2 W/S

DSPL/B206	Autoimmune Disease	20	0S+0S+5S	Ex	2 W/S
DSPL/B207	Principles of Allergology	20	0S+0S+5S	Ex	2 W/S
DSPL/B208	Molecular Biology	20	0S+0S+5S	Ex	2 W/S
DSPL/B209	Immunogenetics	20	0S+0S+5S	Ex	2 W/S

Elective subjects - specialized subjects - introductory course - basic (block status: **B**) Min.no.of 8 credits

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/B001	Exploiting Literature Databases	2	0S+0S+4S	Con	1 W/S
DSPL/B002	Research Grant Proposal and Management	2	0S+0S+4S	Con	1 W/S
DSPL/B003	Ethics and Legislation of Medical Scien.	2	0S+0S+4S	Con	1 W/S
DSPL/B004	Applied Statistics in Biomedicine	2	0S+0S+5S	Con	1 W/S
DSPL/B005	Good Clinical Practice	2	0S+0S+4S	Con	1 W/S
DSPL/B006	Evidence-Based Medicine	2	0S+0S+4S	Con	1 W/S
DSPL/B007	Molecular Bases of Diseases 1	2	0S+0S+3S	Con	1 W/S
DSPL/B008	Molecular Bases of Haematoonc. Diseases	2	0S+0S+2S	Con	1 W/S
DSPL/B009	Transfer and Patent Protection of Res...	2	0S+0S+2S	Con	1 W/S
DSPL/B010	Presentation and Marketing Competence	2	0S+0S+4S	Con	1 W/S
DSPL/B017	Molecular Bases of Diseases 2	2	0S+0S+3S	Con	1 W/S
DSPL/B021	Epidemiological Methodology	2	0S+0S+4S	Con	1 W/S

Note: During the whole course of studies the student must acquire a minimum of 8 credits and a maximum of 16 credits in selected subjects.

Elective subjects - specialized subjects - publication (block status: **B**) Min.no.of 50 credits

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/BC901	Original Scientific Publication in PRJ	15	0S+0S+0S	Con	1 W/S
DSPL/BC903	Original Scientific Publication with IF	15	0S+0S+0S	Con	1 W/S
DSPL/BC950	Review Article	15	0S+0S+0S	Con	1 W/S
DSPL/BC994	Original Scientific Publication with IF	20	0S+0S+0S	Con	1 W/S

Note: The student must acquire a minimum of 50 credits for publications related to the dissertation thesis published in scientific journals, i.e. the student is obliged to submit at least three publications with the following requirements: at least two publications must be original, the student must be the first author of minimum one original publication published in a journal with IF and of one other publication. The student will acquire 20 credits for Original Scientific Publication in a Journal with an Impact Factor as the first author (IF is greater than 0.5; min. 20 credits during the course of studies). The student will acquire 15 credits for Original Scientific Publication in a Journal with an Impact Factor as the co-author, or for Original Scientific Publication in a Peer-Reviewed Journal as the first author (WoS, WES) (min. 15 credits during the course of studies), or for a Review Article in an impacted or peer-reviewed journal or proceedings as the first author or co-author (WoS, WES) (min. 15 credits during the course of studies).

Optional subjects - specialized course (block status: **C**)

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/C001	Methods for Mammalian Cell Transform...	2	0S+0S+7S	Con	1 W/S

DSPL/C002A	Molecular Physiology of Malignant Cell..	2	0S+0S+4S	Con	1 W/S
DSPL/C002B	Molecular Physiology of Malignant Cell..	2	0S+0S+4S	Con	1 W/S
DSPL/C003	Therapeutic Possibilities of Stem Cells	1	0S+0S+3S	Con	1 W/S
DSPL/C004	Molecul. Methods in Biomedicine-Genetics	1	0S+0S+2S	Con	1 W/S
DSPL/C005	Selected Methods in Experimental Toxic.	2	0S+0S+4S	Con	1 W/S
DSPL/C007	Molecul. Methods in Biomedicine-Genetics	2	0S+0S+7S	Con	1 W/S
DSPL/C008	Molec.Methods in Biomedicine-Microbiolog	2	0S+0S+7S	Con	1 W/S
DSPL/C009	Molecul.Methods in Biomedicine-Pathology	2	0S+0S+7S	Con	1 W/S
DSPL/C010	Molecul.Methods in Biomedicine-Oncology	2	0S+0S+7S	Con	1 W/S

Note: The student can acquire a maximum of 18 credits in Optional subjects - specialized course.

Optional subjects - specialized subjects - other (block status: **C**)

Dept/Crs code	Course name	No. of Cred.	No.of hrs/w L+S+SS	Concl.	Recom. year sem.
DSPL/C021	Individual Research Work	80	0S+0S+0S	Con	1 W/S
DSPL/C031	Research Visit (a Minimum of 3 Months)	30	0S+0S+0S	Con	1 W/S
DSPL/C032	Review Article in a Journal with an IF	15	0S+0S+0S	Con	1 W/S
DSPL/C040	Student Conference Presentation	8	0S+0S+0S	Con	1 W/S
DSPL/C050	Field of Study Seminar Presentation	5	0S+0S+0S	Con	1 W/S
DSPL/C060	Palacký University Internal Grant Proj.	5	0S+0S+0S	Con	1 W/S
DSPL/C061	Grant Project Not Included in Pal. Un.	10	0S+0S+0S	Con	1 W/S
DSPL/C062	Grant Project Included the Czech Central	15	0S+0S+0S	Con	1 W/S

Note: Credits for "Individual Research Work" can be gained during the whole course of studies up to a maximum of 80 credits, the student must obtain a minimum of 60 credits for this subject. Credits for a grant project can be acquired if the student participates in submitting of the given project. Credits for the subject DSPL/C061 "Grant Project Not Included in Pal. Un." can be acquired only until the academic year 2020/2021.)