

Subdivided Module Catalogue for the Subject

Translational Neuroscience

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

> Examination regulations version: 2017 Responsible: Faculty of Medicine

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88|h36|-|-|H|2017

UNIVERSITÄT WÜRZBURG

Learning Outcomes

The Translational Neuroscience program at the Medical Faculty of Würzburg covers the following main areas:

- biological-scientific and clinical-theoretical basics
- constructive work in interprofessional and interdisciplinary teams
- basic, translational and clinical research
- diagnostic tools and therapeutic options

Scientific qualifications

- Graduates possess a professionally oriented, science-based education and apply scientific thinking and action in a targeted manner to gain new knowledge in medicine.
- They have a basic understanding of scientific work and use professionally legitimate methods of knowledge and testing procedures.
- They adequately assess the possibilities and limits of scientific knowledge in medicine.
- They critically evaluate scientific approaches and results and take their social responsibility and the well-being of patients into account.
- They are able to conduct systematic literature searches, independently derive new questions, formulate hypotheses and identify suitable research methods and apply these to their own scientific work.
- They comply with the principles of good scientific practice.

Qualification for scientific employment

• Graduates are prepared for a wide range of fields of action in professional institutions and in the private sector, for example in the areas of research, health, education and training, the world of work and culture.

Enabling social engagement

- They identify the ethical dimensions of scientific activity and deal with ethical challenges appropriately.
- They know and take into account the ethical, legal, societal and socio-economic framework conditions of scientific action.
- They communicate their knowledge and skills to others and apply the principle of lifelong learning.

Personality development

- They are capable of self-criticism, recognize their personal limits and can reflect on their responsibility and how they deal with their own mistakes.
- They are aware of the different roles in teams. They are able to recognize problems in working together and to offer constructive criticism, and they are prepared to take on leadership tasks and responsibility depending on the situation.

Abbreviations used

Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

10-May-2017 (2017-37)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	pag
Compulsory Courses (50 l	ECTS credits)			
03-TN-MNS-152-m01	Methods in Neurosciences	5	B/NB	29
03-TN-NB1-152-m01	Clinical Neurobiology 1	5	NUM	34
03-TN-NB2-152-m01	Clinical Neurobiology 2: Trend-setting and current findings in neurobiology	5	B/NB	36
03-TN-NN1-152-m01	Neurology/ Neurosurgery 1	5	NUM	39
03-TN-NN2-152-m01	Neurology/ Neurosurgery 2	5	B/NB	41
03-TN-PSYT1-152-m01	Psychiatric Neurosciences	5	NUM	47
03-TN-PSYT2-152-m01	Current findings in psychiatric neurosciences	5	B/NB	49
06-TN-BPSY1-152-m01	Biopsychology 1	5	NUM	54
06-TN-BPSY2-152-m01	Biopsychology 2	5	B/NB	5
03-TN-LR1-152-m01	Advanced lab rotation 1	5	NUM	26
Compulsory Electives (40	ECTS credits)			
Module Group General C	ompulsory Electives			
03-TN-P-152-m01	Pain	5	B/NB	4
03-TN-NI-172-m01	Neuroinflammation	5	NUM	3
03-TN-IC-152-m01	lon channels	5	NUM	2.
03-TN-Fl-152-m01	Functional Neuroimaging	5	B/NB	2
03-TN-DI-172-m01	Developmental Neuroimaging	5	NUM	1
03-TN-PN-172-m01	Regeneration in the nervous system	5	NUM	4
03-TN-DNP-172-m01	Developmental Neuropsychiatry	5	NUM	1
03-TN-CN-152-m01	Cellular Neurobiology	5	NUM	1:
03-TN-EP-152-m01	Experimental Psychiatry	5	NUM	2
03-TN-DCN-152-m01	Developmental cognitive Neuroscience	5	NUM	1
03-TN-RM-172-m01	RNA-Metabolismus/ RNA metabolism	5	B/NB	5
03-TN-ASL-1-152-m01	Advanced Subject Lecture 1 (actual lectures to be specified)	10	B/NB	7
03-TN-ASL-2-152-m01	Advanced Subject Lecture 2 (actual lectures to be specified)	5	B/NB	8
03-TN-ASL-3-152-m01	Advanced Subject Lecture 3 (actual lectures to be specified)	5	B/NB	9
03-TN-MP-1-152-m01	Meeting Participation 1 (Poster)	5	B/NB	3
03-TN-MT-1-152-m01	Meeting Participation 1 (Talk)	10	B/NB	3
03-TN-ATP-1-152-m01	Advanced Training Program GSLS 1	5	B/NB	10
03-TN-ATP-2-152-m01	Advanced Training Program GSLS 2	5	B/NB	1
03-TN-TU-1-152-m01	Tutorial 1	3	B/NB	5
03-TN-TU-2-152-m01	Tutorial 2	5	B/NB	5
Module Group Compulse	bry Electives Lab Courses	•		
03-TN-LR2-152-m01	Advanced lab rotation 2	10	NUM	2
03-TN-LR3-152-m01	Advanced lab rotation 3	10	NUM	2
03-TN-EL-1-152-m01	External Lab Rotation 1	10	B/NB	19
03-TN-AL-1-152-m01	Advanced Practical Course Neuroscience Lab 1	10	B/NB	6
Module Group Sections	of Graduate School GSLS: Neuroscience			
07-MLSRG-NS1-152-m0	1 Research Group Seminar Neurosciences 1	5	B/NB	5
	1Research Group Seminar Neurosciences 2	5	B/NB	59

Master's with 1 major Translational Neuroscience (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Translational Neuroscience - 2017

Graduate Program Seminar Neurosciences 1	5	B/NB	56
Graduate Program Seminar Neurosciences 2	5	B/NB	57
Workshop Neurossiances (_		62
	5	D/ND	02
Workshop Nourossionsos a	_	D/ND	62
	5	D/ND	63
Retreat Neurosciences 1	5	B/NB	60
Retreat Neurosciences 2	5	B/NB	61
Masterthesis in Translational Neuroscience	25	NUM	32
Oral Examination Translational Neuroscience	5	NUM	31
	Workshop Neurosciences 1 Workshop Neurosciences 2 Retreat Neurosciences 1 Retreat Neurosciences 2 Masterthesis in Translational Neuroscience	Graduate Program Seminar Neurosciences 2 5 Workshop Neurosciences 1 5 Workshop Neurosciences 2 5 Retreat Neurosciences 1 5 Retreat Neurosciences 2 5 Masterthesis in Translational Neuroscience 25	Graduate Program Seminar Neurosciences 2 5 B/NB Workshop Neurosciences 1 5 B/NB Workshop Neurosciences 2 5 B/NB Retreat Neurosciences 1 5 B/NB Retreat Neurosciences 2 5 B/NB Masterthesis in Translational Neuroscience 25 NUM

Module	title				Abbreviation
Advanc	ed Pra	ctical Course Neuroscien	ce Lab 1		03-TN-AL-1-152-m01
Module	coord	inator		Module offered by	
		pordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	•	
10		successfully completed			
Duratio	<u> </u>	Module level	Other prerequisites		
1 seme		graduate			
Conten	ts				
Studen	ts inde	pendently work on a well	-defined scientific la	b project.	
		ning outcomes			
theoret	ical kn				iques and learned how to apply reports and know how to give pre-
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	an)
P (4)					
		t in: English			
		sessment (type, scope, la on on whether module ca			ation offered — if not every seme-
c) oral d) oral e) pres	examin examin entatio	. 10 to 30 pages) or ation of one candidate en ation in groups of up to 3 n (20 to 45 minutes) ssessment: English		-	or
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	urs in			
		ee (1 major) Translationa	Neuroscience (2015)		
	-	ee (1 major) Translationa			
		ee (1 major) Translationa)	
		y course Translational Ne		N N	
	-	ee (1 major) Translational)	
Supple	mental	y course Translational Ne	euroscience (2022)		

Modul	e title				Abbreviation
Advanced Subject Lecture 1 (actual lectures to be specified			tures to be specified)	03-TN-ASL-1-152-m01
Module coordinator				Module offered by	<u> </u>
progra	mme co	ordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
10	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
		graduate	Please consult with	course advisory serv	vice in advance.
Conter	nts				
Cutting	g edge t	opics in neurosciences, o	content varies each s	emester.	
Intend	ed lear	ning outcomes			
Studer	nts gain	an overview of current to	pics in neuroscience	2S.	
Course	es (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)
V (o)	_				
ster, in	nformati	on on whether module c	an be chosen to earn	a bonus)	ition offered — if not every seme-
b) log c) oral d) oral e) pres Langua	(approx examin examir sentatio age of a	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English	ach (30 to 60 minute	s) or	
Allocat	tion of _l	olaces			
Additio	onal inf	ormation			
Worklo	oad				
300 h					
Teachi	ing cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
Modul	e appea	irs in			
Master	r's degr	ee (1 major) Translationa	Neuroscience (2017)	

Module	e title				Abbreviation
Advand	ed Sul	oject Lecture 2 (actual lec	tures to be specified)	03-TN-ASL-2-152-m01
Module coordinator				Module offered by	•
prograi	mme co	pordinator	,	Faculty of Medicine	9
ECTS		od of grading	Only after succ. con	pl. of module(s)	
5	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
		graduate	Please consult with	course advisory ser	vice in advance.
Conten	ts				
Cutting	, edge t	opics in neurosciences, o	content varies each s	emester.	
		ning outcomes			
		an overview of current to	pics in neuroscience	s.	
		, number of weekly conta			an)
V (2)					***
• •	e taugh	t in: English			
					ation offered — if not every seme-
		ion on whether module ca			
		mination (30 to 60 minut nation of one candidate e			or
		ation in groups of up to g		-	
		ssessment: English			
Allocat	ion of	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
Module	e appea	ars in			
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa)	
		ry course Translational No		,	
	-	ee (1 major) Translationa)	
Supple	menta	ry course Translational No	euroscience (2022)		

Module	e title				Abbreviation
Advand	ed Sub	oject Lecture 3 (actual lec	tures to be specified)	03-TN-ASL-3-152-m01
Module coordinator				Module offered by	
prograi	mme co	oordinator		Faculty of Medicine	9
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
		graduate	Please consult with	course advisory ser	vice in advance.
Conten	ts				
Cutting	gedge t	opics in neurosciences, o	content varies each s	emester.	
Intende	ed lear	ning outcomes			
		an overview of current to	pics in neuroscience	·S.	
		, number of weekly conta			in)
V (2)	- ())				,
• •	e taugh	t in: English			
ster, in a) writt	format en exa	ion on whether module ca mination (30 to 60 minut	an be chosen to earn es, including multiple	a bonus) e choice questions)	ition offered — if not every seme-
c) oral	examin	nation of one candidate e nation in groups of up to g ssessment: English		-	
Allocat			-		
Additio	nal inf	ormation			
Additio	<u>inat ini</u>				
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Translationa	l Neuroscience (2015))	
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa)	
		ry course Translational No		,	
	-	ee (1 major) Translationa)	
Supple	menta	ry course Translational No	euroscience (2022)		

A 1	e title				Abbreviation
Advanced Training Program GSLS 1					03-TN-ATP-1-152-m01
Module coordinator				Module offered by	
prograi	mme co	oordinator		Faculty of Medicine	2
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Transfe	erable s	kills tutorials: scientific v	writing and presentat	ion skills.	
Intend	ed lear	ning outcomes			
Studen	its have	e developed fundamenta	l scientific writing and	d presentation skills	i.
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
T (2) Module	e taugh	t in: English			
Metho	d of as	-			ation offered — if not every seme-
c) oral d) oral	examir examir	ation of one candidate e nation of one candidate e nation in groups of up to			or
c) oral d) oral e) pres Langua	examir examir entatio age of a	nation of one candidate e nation in groups of up to on (20 to 45 minutes) Issessment: English			
c) oral d) oral e) pres	examir examir entatio age of a	nation of one candidate e nation in groups of up to on (20 to 45 minutes) Issessment: English			
c) oral d) oral e) pres Langua Allocat	examir examir entatio age of a cion of	nation of one candidate e nation in groups of up to on (20 to 45 minutes) assessment: English places			
c) oral d) oral e) pres Langua Allocat	examir examir entatio age of a cion of	nation of one candidate e nation in groups of up to on (20 to 45 minutes) Issessment: English			
c) oral (d) oral (e) pres Langua Allocat Additio	examir examir entatic age of a :ion of p onal inf	nation of one candidate e nation in groups of up to on (20 to 45 minutes) assessment: English places			
c) oral (d) oral (e) pres Langua Allocat Additio	examir examir entatic age of a :ion of p onal inf	nation of one candidate e nation in groups of up to on (20 to 45 minutes) assessment: English places			
c) oral d) oral e) pres Langua Allocat Additio Worklo	examir examir entatic age of a :ion of p onal inf	nation of one candidate e nation in groups of up to (20 to 45 minutes) (ssessment: English places			
c) oral d) oral e) pres Langua Allocat Additio Worklo 150 h	examir examir entatic age of a :ion of p onal inf	nation of one candidate e nation in groups of up to (20 to 45 minutes) (ssessment: English places			
c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin 	examir examir entatic age of a ion of p onal inf pad	nation of one candidate e nation in groups of up to (20 to 45 minutes) (ssessment: English places	3 candidates (approx	. 30 to 60 minutes)	or
c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin 	examir examir entatic age of a ion of p onal inf pad	e	3 candidates (approx	. 30 to 60 minutes)	or
c) oral d d) oral e e) pres Langua Allocat Worklo 150 h Teachin Referre	examir examir entatio age of a ion of p onal inf pad	e LPOI (examination regu	3 candidates (approx	. 30 to 60 minutes)	or
c) oral d d) oral e e) press Langua Allocat Additio Teachin Referre Module	examir examir entatio age of a tion of p onal inf onal inf oad ng cycl ed to in e appea	e LPOI (examination regulars in ee (1 major) Translationa	3 candidates (approx	. 30 to 60 minutes) degree programmes)	or
c) oral d d) oral e e) pres Langua Allocat Worklo 150 h Teachin Referre Module Master Master	examir examir entatio age of a ion of p onal inf onal inf oad ad ed to in e appea 's degr	e E E E E E E E E E E E E E E E E E E E	3 candidates (approx	. 30 to 60 minutes) degree programmes;	or
c) oral d d) oral e e) pres Langua Allocat Morklo 150 h Teachin Referre Module Master Master Master	examir examir entatio age of a ion of p onal inf onal inf oad ed to in e appea d's degr d's degr	e LPO I (examination regu ars in e (1 major) Translationa e (1 major) Translationa e (1 major) Translationa e (1 major) Translationa	3 candidates (approx allations for teaching-o l Neuroscience (2015) l Neuroscience (2017) l Neuroscience (2018)	. 30 to 60 minutes) degree programmes;	or
c) oral d d) oral e e) pres Langua Allocat Worklo 150 h Teachin Referre Module Master Master Supple	examir examir entatio age of a ion of p onal inf onal inf oad ad ed to in e appea d's degr d's degr d's degr d's degr	e E E E E E E E E E E E E E E E E E E E	3 candidates (approx lations for teaching-o l Neuroscience (2015) l Neuroscience (2017) l Neuroscience (2018)	. 30 to 60 minutes) degree programmes;))	or

	e title				Abbreviation
Advanc	ced Trai	ning Program GSLS 2			03-TN-ATP-2-152-m01
Module coordinator				Module offered by	l
prograi	mme co	ordinator	,	Faculty of Medicine	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	graduate			
Conten	nts				
Transfe	erable s	kills tutorials: patent law	, validation of enorm	ous amounts of ima	ging data using special software.
Intend	ed learr	ning outcomes			
Studen	nts are f	amiliar with the fundame	ental principles of pat	tent law and special	software.
Course	s (type,	, number of weekly conta	ict hours, language –	- if other than Germa	an)
T (2) Module	e taughi	t in: English			
Metho	d of ass	-			ation offered — if not every seme-
b) log (c) oral d) oral	(approx examin examin	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua	(approx examin examin entatio age of a	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to g n (20 to 45 minutes) ssessment: English	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua	(approx examin examin entatio	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to g n (20 to 45 minutes) ssessment: English	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua Allocat	(approx examin examin entatio age of a t ion of p	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to n (20 to 45 minutes) ssessment: English blaces	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua Allocat	(approx examin examin entatio age of a t ion of p	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to g n (20 to 45 minutes) ssessment: English	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua Allocat	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to n (20 to 45 minutes) ssessment: English blaces	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d d) oral e pres Langua Allocat Additio	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to n (20 to 45 minutes) ssessment: English blaces	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua Allocat Additio 150 h	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English blaces	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua Allocat Additio 150 h	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English blaces	es, including multiple ach (30 to 60 minute	e choice questions) s) or	
b) log (c) oral d) oral e) pres Langua Allocat Additio 150 h Teachin 	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English blaces	es, including multiple ach (30 to 60 minute 3 candidates (approx	e choice questions) s) or . 30 to 60 minutes) (or
b) log (c) oral d) oral e) pres Langua Allocat Additio 150 h Teachin 	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English places prmation	es, including multiple ach (30 to 60 minute 3 candidates (approx	e choice questions) s) or . 30 to 60 minutes) (or
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin Referre	(approx examin examin entatio age of a tion of p onal info	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English places prmation e LPO I (examination regu	es, including multiple ach (30 to 60 minute 3 candidates (approx	e choice questions) s) or . 30 to 60 minutes) (or
b) log (c) oral d d) oral e press Langua Allocat Additio Teachin Referre Module	(approx examin examin entatio age of a tion of p onal info onal info oad ng cyclo ed to in	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English blaces ormation e LPO I (examination regures) ars in ee (1 major) Translationa	es, including multiple ach (30 to 60 minute 3 candidates (approx 3 candidates (approx 4 and a construction 5 and a construction 6 and a construction 6 and a construction 7 and a construction 8 and a construction 8 and a construction 9 and a	e choice questions) s) or . 30 to 60 minutes) (degree programmes)	or
b) log (c) oral d d) oral e pres Langua Allocat Additio T50 h Teachin Referre Master Master	(approx examin examin entatio age of a tion of p onal info oad ng cyclo ed to in e appea	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English blaces brmation e LPO I (examination regu ars in ee (1 major) Translationa ee (1 major) Translationa	es, including multiple ach (30 to 60 minute 3 candidates (approx 3 candidates (approx 4 and a and a and a and a a	e choice questions) s) or . 30 to 60 minutes) (degree programmes))	or
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin Referre Module Master Master Master	(approx examin examin entatio age of a tion of p onal info oad ng cycle ed to in e appea d's degree d's degree	nination (30 to 60 minut 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English places ormation e LPO I (examination regunnation regunnation regunnation) e (1 major) Translationa e (1 major) Translationa e (1 major) Translationa	es, including multiple ach (30 to 60 minute 3 candidates (approx 3 candidates (approx 4 lations for teaching-o 1 Neuroscience (2015) 1 Neuroscience (2017) 1 Neuroscience (2018)	e choice questions) s) or . 30 to 60 minutes) (degree programmes))	or
b) log (c) oral d) oral e) pres Langua Allocat Additio Teachin Referre Module Master Master Supple	(approx examin examin entatio age of a tion of p onal info oad ng cycle ed to in e appea d's degree d's degree ementar	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English blaces brmation e LPO I (examination regu ars in ee (1 major) Translationa ee (1 major) Translationa	es, including multiple ach (30 to 60 minute 3 candidates (approx 3 candidates (approx 4 lations for teaching-o 1 Neuroscience (2015) 1 Neuroscience (2018) 2 euroscience (2018)	e choice questions) s) or . 30 to 60 minutes) (degree programmes)))	or

Modul					Abbreviation
Cellula	r Neuro	biology			03-TN-CN-152-m01
Modul	e coord	inator		Module offered by	
Institut	te of Cli	nical Neurobiology		Faculty of Medicine	
ECTS	·	od of grading	Only after succ. con	npl. of module(s)	
5 numerical grade					
Duratio		Module level	Other prerequisites		
1 seme	ester	graduate			
Conter	its				
pics wi nervou haviora and mo and ce their us slices, se perf	ill be di is syste al tests otor end rebellu se to ur confoca usion, v	scussed: structure, funct m including its neuronal in mouse models for mot dplates, anatomical, cellu m, molecular and cellular derstand circuit biology, al microscopy, primary ne whole cell patch clamp re	ion, and molecular fu and non-neuronal ce coneuron diseases; fu ular/neuronal plastic r pathomechanisms o immunohistochemis euron preparations o	Inctional component Ils as well as the neu unctional and morph ity at selected brain of neuromotor disorc stry /immunfluoresco f dorsal root ganglia	r neurobiology. The following to- ts of the peripheral nerves of the uromuscular endplate, motor be- iological analysis of motoneurons structures, e.g. hippocampus lers, optogenetic approaches and ence in hippocampal/cerebellar and hippocampal neurons, mou- erties.
	-	ning outcomes			
proach pathon with a evalua critical Course V (o) + Metho	es in no nechan focus o te, and ly reflec es (type) P (2) d of ass	eurobiology. They are trai isms of neural model sys n the molecular, cellular classify their own data th ct their data in the contex , number of weekly conta	ined in preparations a tems. The students a and physiological me nat were collected du at of the experimenta ct hours, language – nguage – if other the	and recording techni are able to evaluate o echanisms. Addition ring the lab course. I methods used. - if other than Germa an German, examina	lispose current experimental ap- iques to study the function and clinical aspects of neurobiology ally, they are able to document, Furthermore, the students can n) tion offered — if not every seme-
		. 10 to 30 pages)			
	tion of p				
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	е			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Modul	e appea	ars in			
Master Master Supple Master	e's degro F's degro ementar F's degro	ee (1 major) Translational ee (1 major) Translational ee (1 major) Translational y course Translational Ne ee (1 major) Translational y course Translational Ne	l Neuroscience (2017 l Neuroscience (2018 euroscience (2018) l Neuroscience (2022)	

Module	title				Abbreviation	
Develo	pmenta	al cognitive Neuroscience	9		03-TN-DCN-152-m01	
Module	e coord	inator		Module offered by		
University Hospital, Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy				Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
strong f transmi cience. of psyc oral exp to critic	focus o ission a It will l hiatric perimen ally eva	n how the computationa and dopamine in particul be discussed how develo conditions, in particular nts, neuroimaging, in par	l lens of reinforceme ar, can useful to inve pmental neuroscien ADHD and substance ticular task-based fA	nt learning models, t estigate research que ce can be a useful to e use problems. The i ARI, and computatior	elopmental steps. There will be rightly linked to monoamine estions in developmental neuros- ol to investigate the development methods focus will be on behavi- nal modelling. Students will learn on the topics based on state-	
Intende	ed learn	ning outcomes				
normal gnition sed via neurop ty / dep	and alt and m behav sychiat pressio	tered cognition and motiv otivation such as working ioral and neuroscientific ric disorders such as atte	vation as well as braig memory, reinforcen studies. Abnormal de ention-deficit / hypen monoaminergic neu	in development. Dev nent learning and em evelopment will be e ractivity disorder, aut	nto the current scientific state of elopmental changes of basic co- notion processing will be addres- explained in the context of the tism, substance use and anxie- rticular dopamine in the context	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
V (o) + 1 Module		Ü (2) t in: English				
					tion offered — if not every seme-	
b) log (a c) oral e d) oral e) prese	ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English					
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachir	ng cvcl	9				
	5 9 50					
Referre	d to in	LPOI (examination regu	lations for teaching.	legree programmes)		
	a to 11					
Module	appea	urs in				

Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title				Abbreviation		
Develo	pmenta	al Neuroimaging			03-TN-DI-172-m01	
Module	e coord	inator		Module offered by		
University Hospital, Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy				Faculty of Medicine		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
respons such de ample d a statis art text	se). Dif esign d data of tical m books	get an introduction to ba ferent fMRI designs, blo ifferences. The basic sto a block and event desig odel of task-based fMR and research articles or Mapping software in M	ck vs. event, will be in eps for preprocessing gn, there will be an int data. Students will gi implement analysis co	troduced. Students fMRI data will be intr roduction and practi ve presentation on t ode. The course requ	will learn to critically oduced and practice ce session on how to he topics based on s ires the students to	v evaluate ed. Using ex- o implement state-of-the- use Statisti-
		ning outcomes	- · · ·			
Studen tional a cal ana mentec	ts who and stru lysis. E l into th	successfully completed actural MRI data collecti behavioral data from an ne statistical analysis of of informing such analy	on as well as how to p experiment conducted brain activation of co	erform data preproc d during functional N ntrols and patients.	essing and principle IRI will be analyzed a	s of statisti- and imple-
Course	s (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
S (o) + Module		t in: English				
		s essment (type, scope, l on on whether module			tion offered — if not	every seme-
b) log (a c) oral e d) oral e) prese	approx examin examir entatio	nination (30 to 60 minu . 10 to 30 pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes) ssessment: English	each (30 to 60 minute	s) or		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	۹				
reaction	is cyce		_			
Deferre	d to in	IDOL (avamination rag	ulations for tooshing	dagraa programmac)		
Referre	αισπ	LPO I (examination reg		legree programmes)		
		•				
Module)		
		ee (1 major) Translation ee (1 major) Translation				
	-	y course Translational N)		
		Translational Neuroscience	JMU Würzburg • g	enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	_	page 15 / 63



Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title					Abbreviation	
Developmental Neuropsychiatry					03-TN-DNP-172-mo1	1
Module	e coord	inator		Module offered by		
University Hospital, Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy				Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
of-the-a ders, au ver pos proache neuroir	art neu utism s sibility es in cl naging	get an introduction to the roscientific models of e pectrum disorder, subs , clinical interviews wit hild and adolescent psy and transcranial sonog give presentation on th	tiology and pathophys stance use disorder, ea h patient from our dep ychiatry will be introduc graphy. Students will le	iology. There will be iting disorders as we artment will be prese ced to the students i earn to critically evalu	a focus on ADHD, an Il as conduct proble ented to the class. Re ncluding clinical tria uate the role of these	nxiety disor- ms. Whene- esearch ap- ls, functional e techniques.
		ning outcomes				
Studen of child physiol order, e	ts who I and a logy an eating o	successfully completed dolescent psychiatric d d research approaches disorders as well as opp acology are further disc	isorders including clini on ADHD, anxiety diso positional defiant and o	ical symptoms, diag orders, autism spectr conduct problems. D	nostic criteria, etiolo um disorder, substa evelopmental aspec	gy, patho- nce use dis-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
V (o) + 1 Module		t in: English				
	_	essment (type, scope,	if other the	an Corman, oyamina	tion offered — if not	avani sama-
ster, in	formati	on on whether module	can be chosen to earn	a bonus)		every seme-
b) log (a c) oral e d) oral e) prese	approx examin examir entatio	mination (30 to 60 minu . 10 to 30 pages) or ation of one candidate nation in groups of up to n (20 to 45 minutes) ssessment: English	each (30 to 60 minute	s) or		
Allocat	-					
Additio	nal inf	ormation				
Additio						
Worklo						
	au					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPOI (examination reg	gulations for teaching-o	degree programmes)		
Module						
	-	ee (1 major) Translation				
	-	ee (1 major) Translation)		
		y course Translational	Neuroscience (2018)			
Master's wi (2017)	ith 1 majo	Translational Neuroscience		enerated 19-Apr-2025 • exam • ECTS) Translational Neurosc	-	page 17 / 63



Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title				Abbreviation	
External Lab Rotation 1					03-TN-EL-1-152-m01
Module	e coord	inator		Module offered by	
prograr	nme co	ordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
10		successfully completed			
Duratio		Module level	Other prerequisites		
1 seme		graduate			
	ch expe	erience abroad in agencie placement.	es, institutes or indus	try. Topics will vary a	according to the individual place
Intende	ed learr	ning outcomes			
		amiliar with the structure eer in science.	es of institutes and th	e industry abroad ar	nd acquire abilities that qualify
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)
P (4) Module	e taugh	t in: English			
		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral (d) oral e) pres	approx examin examin entatio	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) ssessment: English	ach (30 to 60 minutes	5) or	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
 Modula		ve in			
Module		ee (1 major) Translational	Neuroscience (2015)		
	-	ee (1 major) Translational			
	-	ee (1 major) Translational			
Supple	mentar	y course Translational Ne	euroscience (2018)		
		ee (1 major) Translational)	
Supple	Supplementary course Translational Neuroscience (2022)				

Module title	Abbreviation				
Experimental Psychiatry			03-TN-EP-152-m01		
Module coordinator		Module offered by			
University Hospital, Department of matics and Psychotherapy, Molecu		Faculty of Medicine	1		
ECTS Method of grading	Only after succ. cor	npl. of module(s)			
5 numerical grade					
Duration Module level	Other prerequisites	i			
1 semester graduate					
Contents					
Brain regions and neurotransmitter systems involved in neuronal networks involved in experiencing anxiety and fear, attentional networks, learning and memory, and their importance for emotionality in humans, analysis of gene variants and their association with various psychiatric disorders and behavioural traits; animal models for psychiatric disorders, gene x environment interaction; neuroadaptive mechanisms as a result of stress exposure during different periods of lifetime; resilience, epistatic load hypothesis, mis match hypothesis, anatomical, cellular/neuronal plasticity at selected brain regions, e. g. hippocampus and amygdala; adult neurogenesis; immunohistochemistry/immunofluorescence using forebrain slices; neuronal reconstructions using the Neurolucida software. Intended learning outcomes Students who successfully completed this module will have acquired insights into current concepts and experimental approaches in psychiatry and especially in the neurobiological basis of the etiopathogenesis and the treatment of psychiatric disorders. They will have been trained in molecular biology methods, e. g. genotyping, gene expression analysis and in various methods studying structural neuronal plasticity of the brain. Additionally, they will have learned how to evaluate and present data in oral and written form that was collected during the					
lab course. In addition, the student robiology/neuropsychiatry.		·			
Courses (type, number of weekly co	ntact hours, language –	- if other than Germa	n)		
V (o) + P (2) Module taught in: English					
Method of assessment (type, scope ster, information on whether modul			tion offered — if not every seme-		
 a) written examination (30 to 60 mi b) log (approx. 10 to 30 pages) or c) oral examination of one candidate d) oral examination in groups of up e) presentation (20 to 45 minutes) Language of assessment: English 	e each (30 to 60 minute	s) or			
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination r	egulations for teaching.	degree programmes)			
Module appears in					

Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title				Abbreviation			
Functio	onal Ne	uroimaging			03-TN-FI-152-m01		
Module	e coord	inator		Module offered by			
Univers	sity Hos	pital, Department of N	uclear Medicine	Faculty of Medicine			
ECTS		od of grading	Only after succ. cor	npl. of module(s)			
5	· · · · ·	successfully completed					
Duratio		Module level	Other prerequisites	i			
1 seme		graduate					
Conten diolabe cepts c CT, SPE tures ir	Contents Contents target identification for functional and molecular neuroimaging, basic concepts of radiochemistry, ra- diolabelling of surrogate markers for PET and SPECT, basic concepts of magnetic resonance imaging , basic con- cepts of positron emission tomography, single photon emission computed tomography and hybrid devices (PET/ CT, SPECT/CT), anatomic and functional structures of the brain in small animals, anatomic and functional struc- tures in humans and patients with neurodegenerative disorders and dementia, multimodality multiparametric imaging of brain tumours using MR, PET and SPECT.						
Intend	ed learr	ning outcomes					
ches in ction a robiolo ned ho learneo	n neurol nd path ogy with ow to do d to crit	biology. They will have comechanisms of neur a focus on the molecu cument their own data ically reflect their data	d this module will have been introduced to pre al model systems. The lar, cellular and physic that they collected du in the context of the ex- tact hours, language –	eparations and recor students will have ex ological mechanisms ring lab courses. In a sperimental methods	ding techniques to s kamined clinical asp Additionally, they addition, the student s used.	tudy the fun- bects of neu- will have lear-	
V (o) + Module		t in: English					
			language — if other th can be chosen to earn		ition offered — if not	every seme-	
b) log (c) oral d) oral e) pres	(approx examin examin entatio	. 10 to 30 pages) or ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (approx	s) or			
Allocat	ion of p	olaces					
Additio	onal info	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)			
Module	e appea	rs in					
Master Master Supple	's degre 's degre ementar	ee (1 major) Translatior ee (1 major) Translatior y course Translational	nal Neuroscience (2015 nal Neuroscience (2017 nal Neuroscience (2018 Neuroscience (2018))			
Master's w (2017)	ith 1 major	Translational Neuroscience		enerated 19-Apr-2025 • exam DECTS) Translational Neuroso	-	page 22 / 63	



Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title					Abbreviation		
lon ch	annels				03-TN-IC-152-m01		
Module coordinator				Module offered by			
	Institute of Clinical Neurobiology			Faculty of Medicine	2		
ECTS		od of grading	Only after succ. con	npl. of module(s)			
5		rical grade					
Durati		Module level graduate	Other prerequisites				
	1 semester graduate Contents						
topics ted an mical o pathie physic tional is rece fected	Students will get a theoretical introduction and amplification of topics in ion channel physiology. The following topics will be discussed: physiological properties of membranes, structure-function relationships of ligand-ga- ted and voltage-gated ion channels and their subfamilies, regulation and pharmacology of ion channels, anato- mical expression profiles, developmental regulation, evolution of ion channels, sensory systems, ion channelo- pathies. The accompanied literature seminars are based on current publications of ion channel structures and physiological aspects to discuss experimental and methodological approaches and with this promoting transla- tional thinking. Using student presentations of current research results, the earned knowledge on ion channels is recessed. The practical session will include whole cell recordings at the electrophysiological setup using trans- fected cells and primary neurons. Using various neurotransmitters and blocking agents, students will apply their learned knowledge of ion channel physiology and observe the consequences at the functional level.						
Intend	ed lear	ning outcomes					
ties of in a bo chann jected ty of el	various ottom-up elopath cell line lectroph	ion channel families a p approach to put the ies. They will be traine as as well as primary n pysiological recording t	ed this module are able and their importance fo molecular findings into d in recording techniqu eurons. With this exper techniques for various i eports in the field of ch	r brain physiology. T the context of patho les to study ion chan ience, students are a on channels. Additio	he students are able mechanisms in vario nel properties on tra able to evaluate the	to classify ous kinds of ansfected/in- applicabili-	
Course	es (type	, number of weekly co	ntact hours, language –	- if other than Germa	an)		
	S (o) + e taugh	P (2) t in: English					
			, language — if other th e can be chosen to earn		ition offered — if not	every seme-	
b) oral c) oral d) pres	examir examin sentatio	ation of one candidate	utes, including multipl e each (30 to 60 minute o 3 candidates (approx	es) or			
Alloca	tion of p	olaces					
Additi	onal inf	ormation					
Workle	oad						
150 h							
Teachi	ing cycl	e					
Referr	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)			
Modul	e appea	ins in					
Master's v (2017)	vith 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam DECTS) Translational Neuroso	-	page 24 / 63	

Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

mouuld	Module title Abbreviation									
Advanced lab rotation 1					03-TN-LR1-152-m01					
Module	Module coordinator			Module offered by						
		oordinator		Faculty of Medicine						
ECTS		od of grading	Only after succ. con	,						
5	1	rical grade								
Duratio	on	Module level	Other prerequisites							
1 seme	ster	graduate	Please consult with	course advisory ser	vice in advance.					
Conten	nts									
Studen	nts get a	an intense training in at l	east two different me	thods from different	fields of neurosciences.					
		ning outcomes	-							
			couired lab skills, acc	uired new lab techr	iques and learned how to apply					
					s and presentation of raw data.					
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)					
P (2)										
Module	e taugh	t in: English								
					ation offered — if not every seme-					
ster, in	format	ion on whether module c	an be chosen to earn	a bonus)						
		. 10 to 30 pages) or								
		ation in groups of up to ssessment: English	3 candidates (approx	. 30 to 60 minutes)						
Allocat		_	-							
Additio	nal inf	ormation								
Auuitio				Additional information						
Workload										
	bad		-							
150 h										
150 h Teachi		e								
150 h Teachi i 	ng cycl									
150 h Teachi i 	ng cycl	e LPOI (examination regu	llations for teaching-	degree programmes						
150 h Teachin Referre	ng cycl ed to in	LPOI (examination regu	llations for teaching-	degree programmes))					
150 h Teachin Referre Module	ng cycl ed to in e appea	LPOI (examination regu)					
150 h Teachin Referre Module	ng cycl ed to in e appea	LPO I (examination regunars in equation) (examination) (examination) (figure 1) (figur	l Neuroscience (2015))					
150 h Teachin Referre Module Master Master	ng cycl ed to in e appea ''s degr	LPO I (examination regunars in equation) Translationa ee (1 major) Translationa	l Neuroscience (2015 l Neuroscience (2017))					
150 h Teachin Referre Module Master Master Master	ng cycl ed to in e appea ''s degr ''s degr	LPO I (examination regunars in ee (1 major) Translationa ee (1 major) Translationa ee (1 major) Translationa	l Neuroscience (2015 l Neuroscience (2017 l Neuroscience (2018))					
150 h Teachin Referre Module Master Master Supple	ng cycl ed to in e appea d's degr d's degr ementa	LPO I (examination regunars in equation) Translationa ee (1 major) Translationa	l Neuroscience (2015 l Neuroscience (2017 l Neuroscience (2018 euroscience (2018)))					

Module title					Abbreviation	
Advanc	ed lab	rotation 2		03-TN-LR2-152-m01		
Module	e coord	inator		Module offered by		
program	nme co	oordinator		Faculty of Medicine	2	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with	course advisory ser	vice in advance.	
Conten	ts					
Studen	ts sper	nd 4 weeks working unde	r supervision on a sn	nall, well-defined sc	ientific lab project.	
		ning outcomes			· · · · ·	
				uired new lab techr	niques and learned how to apply	
					s and presentation of raw data.	
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
P (4)						
	e taugh	t in: English				
ster, in	formati	ion on whether module c			ation offered — if not every seme-	
d) oral e) pres	examir entatio	. 10 to 30 pages) or nation in groups of up to g n (20 to 45 minutes) ssessment: English	3 candidates (approx	. 30 to 60 minutes)	or	
Allocat						
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	llations for teaching-	degree programmes)	
Module	e appea	ars in				
		ee (1 major) Translationa	l Neuroscience (2015)		
	-	ee (1 major) Translationa				
Master	's degr	ee (1 major) Translationa	l Neuroscience (2018)		
Supple	mentai	ry course Translational N	euroscience (2018)			
Master	-)		
	Aaster's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)					

Module	e title				Abbreviation
Advanced lab rotation 3					03-TN-LR3-152-m01
Module	e coord	inator		Module offered by	<u> </u>
prograi	mme co	oordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. con	,	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	Its				
Studen	its sper	nd 6 weeks independent	y working on their ow	n small, well-define	d scientific lab project.
Intend	ed lear	ning outcomes			
Studen	its have	e reinforced previously a	couired lab skills, acc	uired new lab techn	iques and learned how to apply
					s and presentation of raw data.
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	ın)
P (4)		· · · · · · · · · · · · · · · · · · ·			
	e taugh	t in: English			
					tion offered — if not every seme-
		ion on whether module c	an be chosen to earn	a bonus)	
		. 10 to 30 pages) or			
		nation in groups of up to n (20 to 45 minutes)	3 candidates (approx	. 30 to 60 minutes) (or
		ssessment: English			
Allocat					
	·				
Additio	onal inf	ormation			
Worklo	ad				
300 h			-		
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	llations for teaching-o	degree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Translationa	l Neuroscience (2015)	
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa)	
		ry course Translational N			
	-	ee (1 major) Translationa		2)	
Supple	menta	ry course Translational N	euroscience (2022)		

Module title				Abbreviation	
Methods in Neurosciences					03-TN-MNS-152-m01
Module	e coord	inator		Module offered by	
progra	mme co	ordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
proach biodist	es, pro ributio	tein and molecular biolog n of imaging biomarkers,	gy techniques, PCR, a pain behaviour, gait	dvanced protein bio analysis, biostatistic	odels and gene-knockout ap- chemistry, imaging techniques, cs of psychiatric genetic studies, enesis, neural stem cells.
Intend	ed learı	ning outcomes			
		able to review and expand ad techniques to design o			techniques and are able to choo- [•] neurosciences.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
V (o) + Module	• •	t in: English			
Metho	d of ass	-			tion offered — if not every seme-
b) oral c) oral d) pres	examin examin entatio	nination (30 to 60 minut ation of one candidate e ation in groups of up to 3 n (20 to 45 minutes) ssessment: English	ach (30 to 60 minute	s) or	
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
Module	e appea	ars in			
Master Master	Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018)				
Master	's degr	ee (1 major) Translationa	Neuroscience (2022))	
Supple	Supplementary course Translational Neuroscience (2022)				

Module title Abbrev					Abbreviation
Meeting Participation 1 (Poster)					03-TN-MP-1-152-m01
Modul	e coord	inator		Module offered by	<u> </u>
		pordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. con		
5	(not)	successfully completed		•	
Durati	on	Module level	Other prerequisites		
1 seme	ester	graduate			
Conter	nts				
Desigr	n and pr	resentation of a poster wi	th description of the	research results of a	project.
Intend	ed lear	ning outcomes			
		and oral presentation of ect with a special regard t			ic questions in the context of the of data.
		, number of weekly conta			
S (2)		,			
• •	e taugh	t in: English			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
		cordance with conference issessment: English	e specifications		
Alloca	tion of	places			
Additi	onal inf	ormation			
Worklo	oad				
150 h					
Teachi	ing cycl	e			
Referr	ed to in	LPO I (examination regu	lations for teaching-	degree programmes)	
Modul	e appea	ars in			
Maste	r's degr	ee (1 major) Translationa	Neuroscience (2015)	
	-	ee (1 major) Translationa			
	Master's degree (1 major) Translational Neuroscience (2018)				
		ry course Translational Ne		`	
	-	ee (1 major) Translational ry course Translational Ne	-	2)	
Supple	emenita	iy course manstational Ne	euroscience (2022)		

Module	e title				Abbreviation
Oral Ex	aminat	tion Translational Neuros	03-TN-MSK-152-m01		
Module coordinator Mo			Module offered by	Module offered by	
		oordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	,	
5		rical grade	o3-TN-MST	1	
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
		ion of a current scientific ts in a written thesis, and			logies. The documentation of the
Intende	ed lear	ning outcomes			
summa ly discu	arise th uss and	eir data in a written pape	r according to scienti plan, results and int	fic rules and standa erpretations in the c	fic conduct. They are able to rds. Students are able to critical- ontext of current publications in in related fields.
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)
K (2) Module	e taugh	t in: English			
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-
	ige of a				also be held in English or ano-
Allocat					
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	urs in			
Master	's degr	ee (1 major) Translational	Neuroscience (2015))	
	-	ee (1 major) Translational			
	-	ee (1 major) Translational			
master	s aegr	ee (1 major) Translational	neuroscience (2022	J	

Modul					Abbreviation
Master	thesis	in Translational Neurosc	ience		03-TN-MST-152-m01
Module	e coord	inator		Module offered by	<u> </u>
progra	mme co	ordinator		Faculty of Medicine	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
25	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Its				
		ion of a current scientific ts in a written thesis, and			ologies. The documentation of the
Intend	ed lear	ning outcomes			
summa ly discu their fio	arise the uss and eld. The	eir data in a written pape	r according to scienti plan, results and int expertise in their fiel	fic rules and standa erpretations in the c d of study as well as	
		signed to module			
ster, in Master	formati 's thesi	eessment (type, scope, la on on whether module ca s (50 to 100 pages) ssessment: English			ition offered — if not every seme-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Time to	o compl	ete: 6 months.			
Worklo	ad				
750 h					
	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Module	e appea	urs in			
Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018)					
		ee (1 major) Translationa			

Module	e title				Abbreviation
		cipation 1 (Talk)			03-TN-MT-1-152-m01
Module coordinator Module offered by					
		oordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	· · · · ·	
10		successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Design	and pr	esentation of a talk with	description of the res	earch results of a pr	oject.
Intende	ed lear	ning outcomes			
		nd oral presentation of sc ect with a special regard t			questions in the context of the of data.
		, number of weekly conta			
S (4)		,,	, <u> </u>		,
	e taugh	t in: English			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
		n (20 to 45 minutes) ssessment: English			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
	-				
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Module	e appea	urs in			
Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)					
Supple	mentai	y course Translational Ne	euroscience (2022)		

Modul	e title		Abbreviation						
Clinica	l Neuro	biology 1		03-TN-NB1-152-m01					
Module coordinator				Module offered by	by				
Institute of Clinical Neurobiology			Faculty of Medicine						
ECTS Method of grading		Only after succ. compl. of module(s)							
5 numerical grade									
Duration Module level		Other prerequisites							
1 seme		graduate	-						
Contents									
Students will get a theoretical introduction and amplification of topics in clinical neurobiology. The following to- pics will be discussed: introduction to neurons and glia, ion channels and membrane potential, ion channelopa- thies, synapses, transmitter release, NMJ, myasthenia gravis, cerebellum, basal ganglia, ataxia and Morbus Par- kinson, somatosensory system, touch, pain, schizophrenia and autism spectrum disorders, disorders of cogniti- on, muscle and muscle diseases, anatomy and function of the motor system, spinal reflexes, motoneuron disea- ses, hippocampus, learning and memory, anterograde amnesia, visual agnosia, cortex and the limbic system, emotions, disorders of conscious and unconscious mental processes, attention, smell and taste and hearing , sleep, EEG, epilepsy, vision and diseases of the visual system. The accompanied literature seminars are based on fundamental and current literature on lecture-relevant topics to discuss experimental and methodological ap- proaches and with this promoting translational thinking. Using student presentations of current research results, the earned knowledge in neurobiology is recessed									
		ning outcomes							
Students who successfully completed this module are able to remind and understand the current theoretical concepts in neurobiology. Furthermore, students are able to classify clinical aspects of neurobiology with the focus to disease mechanisms at molecular, cellular, and physiological levels. Based on current experimental data evaluation, students are able to critical read and evaluate current publications in neurobiology as well as extract relevant information from recent publications. Courses (type, number of weekly contact hours, language — if other than German)									
V (2)			et nouis, tanguage	n other than oerna	11/				
	e taugh	t in: English							
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)									
a) written examination (30 to 60 minutes, including multiple choice questions) or									
b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) Language of assessment: English									
Alloca	tion of p	olaces							
Additi	onal inf	ormation							
Workload									
150 h									
Teaching cycle									
Referred to in LPO I (examination regulations for teaching-degree programmes)									
Module appears in									
Master's degree (1 major) Translational Neuroscience (2015)									
Master's degree (1 major) Translational Neuroscience (2017)									

(2017)

Supplementary course Translational Medicine (2018) Master's degree (1 major) Translational Medicine (2018) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

	title			Abbreviation				
Clinical	Neurobiology 2: Trend-setti	ng and current findings	in neurobiology	03-TN-NB2-152-m01				
Modulo	coordinator		Module offered by					
			Faculty of Medicine					
ECTS	e of Clinical Neurobiology Method of grading	Only after succ. com	Only after succ. compl. of module(s)					
5	(not) successfully completed							
Duratio	· · · · · · · · · · · · · · · · · · ·	Other prerequisites						
1 semester graduate								
Conten	ts							
pics wil thies, s kinson, on, mus ses, hip emotion sleep, E on fund proache	ts will get a theoretical introc Il be discussed: introduction ynapses, transmitter release somatosensory system, tou scle and muscle diseases, ar opocampus, learning and me ns, disorders of conscious ar EEG, epilepsy, vision and dise lamental and current literatures and with this promoting tr ned knowledge in neurobiolo	to neurons and glia, ion , NMJ, myasthenia gravi ch, pain, schizophrenia latomy and function of t mory, anterograde amno d unconscious mental p eases of the visual syste re on lecture-relevant to anslational thinking. Us	channels and mem s, cerebellum, basal and autism spectrur he motor system, sp esia, visual agnosia, processes, attention m. The accompanie pics to discuss expe	brane potential, ion c ganglia, ataxia and M n disorders, disorders inal reflexes, motone cortex and the limbic , smell and taste and d literature seminars erimental and method	hannelopa- Norbus Par- s of cogniti- uron disea- system, hearing, are based ological ap-			
	ed learning outcomes	3) 10 1000000						
cus to c evaluat relevan Courses S (2)	ts in neurobiology. Furthermo disease mechanisms at mole tion, students are able to criti- t information from recent pul s (type, number of weekly con-	cular, cellular, and phys ical read and evaluate c plications.	iological levels. Bas urrent publications i	ed on current experin n neurobiology as we	nental data			
Method	e taught in: English I of assessment (type, scope formation on whether module			tion offered — if not e	every seme-			
e) prese	entation (20 to 45 minutes) ge of assessment: English							
	ion of places							
Additio	nal information							
Worklo	ad							
150 h								
Teaching cycle								
	ng cycle							
	ng cycle							
Teachin		egulations for teaching-o	legree programmes)					
Teachin	ng cycle d to in LPO I (examination re	gulations for teaching-c	legree programmes)					
Teachin Referre		gulations for teaching-c	legree programmes)					
Teachin Referre Module Master' Master' Master'	d to in LPO I (examination re	nal Neuroscience (2015) nal Neuroscience (2017) nal Neuroscience (2018))					



Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title			Abbreviation			
Neuroir	nflamm	ation			03-TN-NI-172-m01	
Module	e coord	inator		Module offered by	~	
		f Neurology, Section of stitute of Virology and	Developmental Neuro- Immunobiology	Faculty of Medicine		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
les, syn compor phatic o non of t clinics,	napses, nents c organs, toleran pathog	nodes of Ranvier), con of the innate immune so , components of the ac ce and autoimmunity, genesis and therapy of	tures relevant for neuro nponents of the innate ystem II: dendritic cells laptive immune system experimental models for multiple sclerosis, role sease; inherited neurop	immune system I: m , NK cells, granulocy : lymphocytes and a or neuroinflammatio e of inflammation in J	nacrophages and mic tes; antigen present ntigen recognition, t n (EAE, cuprizone, EA	croglial cells, ation; lym- he phenome- AN); the BBB,
		ning outcomes	·			
Studen se-relev	ts who vant as licatior	successfully complete pects of neuroimmuno	d this module will have logy and neuroinflamm rained in the ability to e	nation. They will have	e learned to critically	read scienti-
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	ın)	
V (o) + 1 Module		t in: English				
			language — if other the can be chosen to earn		tion offered — if not	every seme-
b) oral c) oral e d) pres	examir examin entatio	ation of one candidate	utes, including multiple each (30 to 60 minute o 3 candidates (approx	s) or		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	٩				
	is cyce					
Poforro	d to in	IPOL (avamination ro	gulations for teaching-	dograa programmac)		
Kelelle						
Module			nal Neuroscience (2017)		
	-		nal Neuroscience (2017 nal Neuroscience (2018			
	-	y course Translational		,		
		•	nal Neuroscience (2022	2)		
		y course Translational				
Master's wi (2017)	ith 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 38 / 63

Module title			Abbreviation			
Neurol	ogy/ Ne	urosurgery 1			03-TN-NN1-152-mo:	1
Module	e coord	nator		Module offered by		
Depart	ment of	Neurology, Departme	nt of Neurosurgery	Faculty of Medicine		
ECTS		d of grading	Only after succ. con	npl. of module(s)		
5	nume	ical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	I	graduate				
Conten						
Students will get a theoretical introduction and scientific background from the following topics: antibody-me- diated CNS diseases – experimental analysis of auto-antibody function; Lessons on nociceptor function learned from pain genetics; Translational approaches in stroke medicine; Subarachnoid hemorrhage - pathophysiology and translational therapy approaches; Pathophysiology of brain trauma: experimental brain trauma models and their analysis; Neurophysiology of hearing in tumor and trauma; The molecular basis of glioma-biology; Neuro- plasticity after CNS damage by brain tumors; Connectomics in neurology; understanding neuronal networks for treatment of tremor syndromes; stem cell based models of movement disorders; basics of electrophysiology in experimental and clinical practice; the molecular basis of myopathies. The accompanied journal clubs are based on fundamental and current literature on lecture-relevant topics to discuss experimental and methodological ap- proaches and with this promoting translational thinking. Students will give presentations and thereby earn and transfer knowledge. Intended learning outcomes Students who successfully completed this module will have acquired insights into the current molecular and cellular pathophysiology of diseases prevalent in neurology and neurosurgery. They will understand basic me- chanisms of disease in the motor and sensory system and of higher functions. They will understand about brain trauma and brain tumor biology. They will have gained theoretical knowledge about animal models for neuro- logical and neurosurgical diseases and will be introduced into behavioral, neurophysiological, morphological and molecular biological analysis methods. They will have learnt how to raise appropriate bed-to-bench research questions and how to devise study plans. They will have learnt how to read scientific publications critically and how to extract the relevant data bringing them forward in their own project. In addition, they will have learnt how to re-						
cord and analyze data and how to present them in oral and written form. Courses (type, number of weekly contact hours, language — if other than German)						
V (2)		namber of weekty cor	יישטענגערייט אוואנעמאַר –		,	
	e taugh	in: English				
			language — if other th can be chosen to earn		tion offered — if not	every seme-
a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) Language of assessment: English						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referre	ed to in	LPO I (examination re	gulations for teaching-	degree programmes)		
Master's w (2017)	ith 1 major	Translational Neuroscience		enerated 19-Apr-2025 • exam DECTS) Translational Neurosc	-	page 39 / 63

Module appears in

Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title			Abbreviation		
		eurosurgery 2			03-TN-NN2-152-m01
Modu	e coord	inator		Module offered by	
		f Neurology, Department		Faculty of Medicine	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	-	successfully completed			
Durati	_	Module level	Other prerequisites		
1 sem		graduate			
diated from p and tr. their a plastic treatm experi on fun proach transfe Intend Stude cellula chanis traum logica and m questi extrac cord a	CNS dia anin gen anslatio nalysis; city after rent of tr mental a dament dament dament er know er know	seases – experimental ar etics; Translational appro nal therapy approaches; Neurophysiology of hear r CNS damage by brain tu remor syndromes; stem c and clinical practice; the al and current literature of with this promoting trans ledge. hing outcomes successfully completed to physiology of diseases p isease in the motor and s rain tumor biology. They w urosurgical diseases and r biological analysis meth I how to devise study pla	alysis of auto-antibo paches in stroke med Pathophysiology of k ring in tumor and tran mors; Connectomics ell based models of molecular basis of m on lecture-relevant to slational thinking. St this module will have revalent in neurology sensory system and o vill have gained theo I will be introduced in nods. They will have I nos. They will learn ho forward in their own ent them in oral and	bdy function; Lesson licine; Subarachnoid orain trauma: experir uma; The molecular l in neurology; under movement disorders hyopathies. The acco opics to discuss expe- udents will give pres e acquired insights ir and neurosurgery. The f higher functions. The retical knowledge at not behavioral, neuro earnt how to raise ap w to read scientific p project. In addition, written form.	ollowing topics: antibody-me- s on nociceptor function learned hemorrhage - pathophysiology mental brain trauma models and basis of glioma-biology; Neuro- standing neuronal networks for ; basics of electrophysiology in mpanied journal clubs are based erimental and methodological ap- entations and thereby earn and hot the current molecular and fhey will understand basic me- hey will understand about brain pout animal models for neuro- ophysiological, morphological propriate bed-to-bench research publications critically and how to they will have learnt how to re- in)
Modu		t in: English	nguage — if other th	an German, examina	tion offered — if not every seme-
ster, iı	nformati	on on whether module ca			
		n (20 to 45 minutes) ssessment: English			
Alloca	tion of p	olaces			
Additi	onal inf	ormation			
Workl	Workload				
150 h	_				
-	ing cycl	e			
		-			
Referr	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Modu	le appea	ars in			

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title		Abbreviation				
Pain					03-TN-P-152-m01	
Module	e coord	inator		Module offered by		
Univers Care	ity Hos	spital, Department of A	naesthesia and Critical	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Students will receive a theoretical introduction and consolidation in topics of pain processing as well as clinical pain medicine. Contents include an introduction to nociceptors and their activation via specific ion channels, the pain pathway with its synapses, and the descending pathways. Clinically, the classification of pain and the major primary and secondary pain syndromes are discussed. Pain research will be reflected with the possibilities and limitations of preclinical animal models on the one hand and measurement of pain in patients on the other. A focus will also be on the translation of results from research for the clinic and drug development. The subsequent literature seminar will be based on fundamental and current literature on topics relevant to the lecture to discuss clinical studies, experiments and new methods and thereby promote translational thinking in pain medicine. Presentations of current research results and the connection to the clinic (examination of patients) and multimodal interdisciplinary therapy will be used to deepen the learned knowledge in pain medicine. Intended learning outcomes In this course, students will learn about the (patho-) physiology of pain, neuroanatomical structures and pain therapy including interdisciplinary multimodal pain therapy. These include molecular mechanism of pain, studying pain in animals and humans and drug development. How to evaluate studies in "pain" is worked-out by the students in a specific article/topic chosen by the student and presented within in a talk during the course. Courses (type, number of weekly contact hours, language — if other than German) V (o) + P (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme-						
e) prese	entatio	ion on whether module n (20 to 45 minutes) ssessment: English	can be chosen to earn	a bonus)		
Allocat	-					
Allocal		Jaces				
Additio	nalinf	ormation				
Auditio	IIat IIII					
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
			al Neuroscience (2015))		
	-		al Neuroscience (2017)			
	-		al Neuroscience (2018			
		ry course Translational		,		
		-	al Neuroscience (2022			
Master's wi (2017)	th 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 43 / 63



Supplementary course Translational Neuroscience (2022)

Module title				Abbreviation		
-	Regeneration in the nervous system 03-TN-PN-172-m01					
Module	e coord	inator		Module offered by		
Departı biology		f Neurology, Section of	Developmental Neuro-	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semester graduate						
Contents						
sion, re CIDP, m seases sed on	Cellular elements of the PN I: origin, development, structure, myelin formation, Cellular elements of the PN II: le- sion, regeneration and surgical reconstitution, physiology and pathophysiology, Diseases I: inflammatory (GBS, CIDP, myasthenia; clinic and therapy), Diseases II: diabetes; iatrogenic (e. g. vincristine; clinic and therapy), Di- seases III: inherited NPs (including models and attempts for treatment approaches). The literature seminar is ba- sed on fundamental literature on lecture-relevant topics to document the experiments underlying our present knowledge in peripheral nerve research.					
Intende	ed lear	ning outcomes				
Students who successfully completed this module will have acquired insights into cellular elements of the pe- ripheral nerve, physiology and pathophysiology. The students will have examined clinical aspects of diseases with the involvement of peripheral nerves with a focus on the molecular mechanisms and therapeutical options. Additionally, they will have learned how to evaluate and present data in oral form. In addition, the students will have learned to critically read scientific publications in the field of peripheral nerve diseases and will have been trained in the ability to extract relevant information from the original literature.						
		, number of weekly con	tact hours, language –	- if other than Germa	n)	
V (o) + S (o) Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)						
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English 						
Allocat	ion of I	olaces				
	•					
Additio	nal inf	ormation				
Additional information						
Workload						
150 h						
Teaching cycle						
Referre	d to in	LPOI (examination reg		legree programmes)		
				203.00 p.03.00)		
Module	2000	ors in				
			al Nouroscience (acta)		
	-	ee (1 major) Translation ee (1 major) Translation				
	-	y course Translational		,		
		r Translational Neuroscience		enerated 19-Apr-2025 • exam	reg data re-	page 45 / 63
(2017)	I majo			ECTS) Translational Neurosc	-	Pase 457 05



Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title			Abbreviation			
Psychia	atric Ne	eurosciences		_	03-TN-PSYT1-152-m	01
Module	e coord	inator		Module offered by		
		spital, Department of Ps ychotherapy	sychiatry, Psychoso-	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Basic knowledge about the characteristics of various psychiatric disorders, the proposed neurobiological basis (e.g. gene by environment interaction) as well as the treatment approaches: Anxiety disorders, somatoform dis- orders, social interaction disorders, psychotic disorders, attention deficit hyperactivity disorder, substance use disorders, neurodegenerative disorders. Basic knowledge about the genetic and neural mechanisms associated with psychiatric disorders such as gene by environment interaction, anatomical, cellular/neuronal plasticity of selected brain regions, e.g. hippocampus and amygdala and brain regions and neurotransmitter systems invol- ved in the processing of emotions. Basic knowledge about state-of-the-art research methods in the field such as the analysis of gene variants and their association with various psychiatric disorders and behavioral traits, ani- mal models for psychiatric disorders, neuroimaging methods in humans. Intended learning outcomes Students who successfully completed this module will have gained an overview of the characteristics of diverse psychiatric disorders. They will have acquired insights into the neurobiological basis of the etiopathogenesis of these disorders (e. g. which neurotransmitter systems and brain regions are involved), how they are treated and into current concepts and experimental approaches studying these psychiatric disorders. Courses (type, number of weekly contact hours, language — if other than German)						
	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
V (2) Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)						
b) oral c) oral (examir examin	mination (30 to 60 min ation of one candidate ation in groups of up to ssessment: English	each (30 to 60 minute	s) or	or	
Allocat	ion of j	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Referre		LPOT (examination reg	gulations for teaching-	degree programmes)		
Module						
Master' Master'	's degr 's degr	ee (1 major) Translatior ee (1 major) Translatior ee (1 major) Translatior y course Translational	al Neuroscience (2017 al Neuroscience (2018)		
	ith 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam • ECTS) Translational Neurosc		page 47 / 63
(2017)			Coru Master (120	Lets) manstational Neurosc	ience - 201/	



Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Modul	e title				Abbreviation				
Curren	t findin	igs in psychiatric neuros	ciences		03-TN-PSYT2-152-m01				
Modul	e coord	linator		Module offered by	<u> </u>				
		spital, Department of Psy sychotherapy	chiatry, Psychoso-	Faculty of Medicine	2				
ECTS		od of grading	Only after succ. con	npl. of module(s)					
5	(not)	successfully completed							
Duratio	on	Module level	Other prerequisites	i					
1 seme	ester	graduate							
Conter	nts	•							
		seminar is based on fund ying our present knowled			pics to document the experi-				
Intend	ed lear	ning outcomes							
		acquire a theoretical und entific results in the field			biology work and will learn how				
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	an)				
S (2)									
Modul	e taugh	t in: English							
ster, in	format	ion on whether module c			ition offered — if not every seme-				
		on (20 to 45 minutes) assessment: English	_						
Allocat	tion of	places							
Additio	onal inf	ormation							
			_						
Worklo	bad								
150 h									
Teachi	ng cycl	e							
Referre	ed to in	LPOI (examination regu	llations for teaching-	degree programmes)					
Modul	e appea	ars in							
		ree (1 major) Translationa	Neuroscience (2015)					
	-	ee (1 major) Translationa							
	-	ee (1 major) Translationa							
	-	ry course Translational N							
				2)					
Supple	ementa	ry course Translational N	ouroscionco (2022)		Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)				

Module title			Abbreviation			
RNA-N	letaboli	smus/ RNA metabolisi	n		03-TN-RM-172-m01	
Modul	e coord	inator		Module offered by	Module offered by	
	1	nical Neurobiology		Faculty of Medicine	2	
ECTS		od of grading	Only after succ. cor	npl. of module(s)		
5	<u> </u>	successfully completed	-			
Durati		Module level graduate	Other prerequisites			
Conte		glaudate				
Each week a high-impact paper from the current literature that describes RNA-based mechanisms contributing to neurodegeneration is jointly analyzed in depth. Emphasis is placed on understanding of novel approaches for investigating RNA. The course organizer will give a short introduction at the beginning of each seminar describing the background for the paper to be discussed. Afterwards, students individually describe the original data and jointly discuss their relevance. Individual topics include: RNA expression, function and localization; RNA dysregulation in neurodegenerative diseases; high-throughput sequencing methods for transcriptome analysis; properties and functions of RNA-binding proteins.						
Intend	ed lear	ning outcomes				
After successful completion of this module, students will have gained a deeper understanding of current RNA- based research in the area of neurodegeneration. This outcome is achieved by a weekly in-depth analysis of a current article in this field. Students will become familiar with many techniques applied in RNA research and will learn how to critically interpret the results in the context of neurodegenerative diseases. By doing so, students will be able to evaluate methodological advances in RNA research and obtain a deeper understanding of the pa- thomechanisms underlying neurodegeneration. Through discussion and active participation, students will im- prove their communication and analysis skills.						
Courses (type, number of weekly contact hours, language — if other than German)						
S (o) Modul	S (o) Module taught in: English					
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)						
b) log c) oral d) oral e) pres	 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English 					
Alloca	tion of _l	olaces				
Additi	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appea	ars in				
	-	ee (1 major) Translation ee (1 major) Translation				
Master's v (2017)	vith 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam D ECTS) Translational Neurosc	-	page 50 / 63



Supplementary course Translational Neuroscience (2018) Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)

Module title Abbreviation			Abbreviation		
Tutoria	l 1				03-TN-TU-1-152-m01
Module	e coord	inator		Module offered by	
program	nme co	oordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
3		successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
		as tutors. They support actical courses.	teaching and are invo	lved in the organisa	tion and planning of lectures, se-
Intende	ed lear	ning outcomes			
		rn how to convey comple to organise and plan the			a group of students. In addition, to students.
		, number of weekly conta			
T (1)		t in: English			·
1			nguago — if other tha	n Corman ovamina	tion offered — if not even some
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)					
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) 					
Allocat		ssessment: English Jlaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	urs in			
	-	ee (1 major) Translational			
	-	ee (1 major) Translational			
	-	ee (1 major) Translational			
		y course Translational Ne			
	-	ee (1 major) Translational)	
Supple	Supplementary course Translational Neuroscience (2022)				

Module title Abbrevia				Abbreviation	
Tutoria	12				03-TN-TU-2-152-m01
Module	e coord	inator		Module offered by	
prograr	nme co	oordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semester graduate					
Conten	ts				
		as tutors. They support actical courses.	teaching and are invo	lved in the organisa	tion and planning of lectures, se-
Intende	ed lear	ning outcomes			
		rn how to convey comple to organise and plan the			a group of students. In addition, to students.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	in)
T (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)					
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English 					
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	's degr	ee (1 major) Translational	l Neuroscience (2015)		
	-	ee (1 major) Translational			
	-	ee (1 major) Translational			
		y course Translational Ne			
	-	ee (1 major) Translational)	
Supple	Supplementary course Translational Neuroscience (2022)				

Biopsychology 1 Andou condinator Andou condin	Module title			Abbreviation			
holder of the Chair of Psychology I Institute of Psychology ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade						06-TN-BPSY1-152-m	101
ECTS Method of grading Only after succ. compl. of module(s) 5 numetical grade Duration Module level Other prerequisites 1 semester graduate Contemts Students will get a theoretical introduction and amplification of topics in biopsychology and cognitive neuros- cience. The following topics will be discussed: introduction to biopsychological research methods (behavioral assessments, eye-tracking, autonomic psychophysiology, electroencephalography, structural and functional magnetic resonance imaging), emotion and motivation, learning and memory, attention, preception, cognitive con- trol, clinical aspects (e.g., anxiety disorders, depression, addiction). The accompanying seminars are based on fundamental and current literature on lecture-relevant topics to discuss experimental and methodological ap- proaches and with this promoting translational thinking. Using student presentations of current research results, the acquired knowledge in biopsychology is recessed. Intended learning outcomes	Module	e coord	inator		Module offered by		
5 numerical grade		1			· · · · ·	ogy	
Duration Module level Other prerequisites 1 semester graduate		1		Only after succ. con	npl. of module(s)		
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ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) Allocation of places	V (2)						
b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) Allocation of places Additional information Moditional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2028) Master's degree (1 major) Translational Neuroscience (2020) Supplementary course Translational Neuroscience (2020) Master's degree (1 major) Translational Neuroscience (2020) Master's degree (1 major) Translational Neuroscience (2020) Supplementary course Translational Neuroscience (2020)							
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Module appears in Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Master's with 1 major Translational Neuroscience (2022) Master's with 1 major Translational Neuroscience (2022) Master's with 1 major Translational Neuroscience (2022)							
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Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022) Master's with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re- page 54 / 63				<u> </u>			
Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022) Master's with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re- page 54 / 63	Module	e appea	rs in				
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	Master's w (2017)	ith 1 major	Translational Neuroscience			-	page 54 / 63

Module title Abbreviation			Abbreviation	
Biopsychology 2 06-TN-BPSY2-152-m01			06-TN-BPSY2-152-m01	
Module coordinator			Module offered by	
holder of the Chair of Psyc	chology I		Institute of Psychol	ogy
ECTS Method of gradin		Only after succ. com	pl. of module(s)	
5 (not) successfully	completed			
Duration Module lev	/el	Other prerequisites		
1 semester graduate				
Contents				
Students will get a theoretical introduction and amplification of topics in biopsychology and cognitive neuros- cience. The following topics will be discussed: introduction to biopsychological research methods (behavioral assessments, eye-tracking, autonomic psychophysiology, electroencephalography, structural and functional ma- gnetic resonance imaging), emotion and motivation, learning and memory, attention, perception, cognitive con- trol, clinical aspects (e.g., anxiety disorders, depression, addiction). The accompanying seminars are based on fundamental and current literature on lecture-relevant topics to discuss experimental and methodological ap- proaches and with this promoting translational thinking. Using student presentations of current research results, the acquired knowledge in biopsychology is recessed. Intended learning outcomes Students who successfully completed this module are able to remind and understand the current theoretical				
concepts in biopsychology and cognitive neuroscience. Furthermore, students are able to describe and interpret biopsychological data and they can select appropriate non-invasive techniques to address specific psychologi- cal research questions. They are familiar with general psychological concepts and know about their biological basis. Based on this knowledge, students are able to critical read and evaluate current publications in biopsy- chology and cognitive neuroscience and can extract relevant information from recent publications.				
Courses (type, number of weekly contact hours, language — if other than German)				
S (2)				
Method of assessment (ty ster, information on whet				tion offered — if not every seme-
e) presentation (20 to 45	minutes)			
Allocation of places				
Additional information				
Workload				
150 h				
Teaching cycle				
Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in				
Master's degree (1 major) Translational Neuroscience (2015)				
	Master's degree (1 major) Translational Neuroscience (2015) Master's degree (1 major) Translational Neuroscience (2017)			
Master's degree (1 major) Translational Neuroscience (2018)				
Supplementary course Translational Neuroscience (2018))	
Supplementary course Tra Master's degree (1 major)	Translational anslational Ne	Neuroscience (2018) euroscience (2018))	

Module title Abbreviation					
Graduate Program Seminar Neurosciences 1 07-MLSGP-NS1-152-m01					
Module	e coord	inator	Module offered by	ule offered by	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS					
5	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Its				
					ovel/current methods as well as
fundan	nental	research with relevance to	o the current program	me/topics of the r	esearch group.
Intend	ed lear	ning outcomes			
Studen rent me			g edge research in the	eir field as well as a	an understanding of new and cur-
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germ	nan)
S (2)					
Module	e taugh	t in: English			
		sessment (type, scope, la ion on whether module ca			nation offered — if not every seme-
e) pres	entatio	on (20 to 45 minutes)			
Langua	ige of a	ssessment: English			
Allocat	ion of	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regu	lations for teaching-d	legree programme:	s)
Module	e appea	ars in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
	-	ee (1 major) Translational	-	1	
Master	's degr	ee (1 major) Translational	l Neuroscience (2017)	1	
Master	's degr	ee (1 major) Translational	Neuroscience (2018))	
		ee (1 major) Translational			

Modul	Module title Abbreviation							
Gradu	ate Prog	gram Seminar Neuroscier	nces 2		07-MLSGP-NS2-152-m01			
Modul	e coord	inator		Module offered by				
Dean of Studies Biologie (Biology)				Faculty of Biology				
ECTS			Only after succ. con	npl. of module(s)				
5	(not) successfully completed							
Duration Module level Other prerequisite								
1 semester graduate								
Conte	nts							
		speakers present and dis research with relevance t			vel/current methods as well as search group.			
Intend	ed lear	ning outcomes						
	nts acqu ethods.		g edge research in th	eir field as well as a	n understanding of new and cur-			
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)			
S (2)			-					
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-			
e) pres	sentatio	n (20 to 45 minutes)						
Alloca	tion of	olaces						
Additi	onal inf	ormation						
Workle	oad							
150 h								
Teachi	ing cycl	e						
Referr	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)				
Modul	Module appears in							
		ee (1 major) Translationa	l Neuroscience (2015)				
	-	ee (1 major) Translationa						
	-	ee (1 major) Translationa						
Maste	r's degr	ee (1 major) Translationa	l Neuroscience (2022	2)				

Module title Abbreviation						
Resear	Research Group Seminar Neurosciences 1 07-MLSRG-NS1-152-m01					
Module coordinator Module offered by						
Dean of Studies Biologie (Biology)				Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed	completed			
Duratio	n	Module level	Other prerequisites			
1 semester graduate						
Conten	ts					
		ess in the research group e of experiences, trouble		scussion of the resu	lts of all research group mem-	
Intende	ed lear	ning outcomes				
		e developed problem solv ng skills and are able to p		on skills, scientific o	liscussion skills as well as	
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)	
S (2) Modulo	taugh	t in. English				
		t in: English				
		on on whether module ca			ition offered — if not every seme-	
		n (20 to 45 minutes) ssessment: English				
Allocat	.=					
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
	-	ee (1 major) Translationa				
	-	ee (1 major) Translationa				
	-	ee (1 major) Translationa				
Master	's degr	ee (1 major) Translationa	l Neuroscience (2022	2)		

Module title Abbreviation						
Resear	Research Group Seminar Neurosciences 2 07-MLSRG-NS2-152-m01					
Module coordinator Module offered by						
Dean of Studies Biologie (Biology)				Faculty of Biology	·	
ECTS			, , _,			
5	(not) s	successfully completed				
Duratio	ouration Module level Other prerequisite		Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
Presen	tation a	and discussion of cutting	edge literature.			
Intend	ed lear	ning outcomes				
		utting edge literature in the olications.	ne field of neuroscier	nce, ability to critical	ly read, present and discuss the	
Course	e s (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)	
S (2)						
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
e) pres	entatio	n (20 to 45 minutes)				
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Module	e appea	ars in				
		ee (1 major) Translationa	l Neuroscience (2015)		
		ee (1 major) Translationa				
	•	ee (1 major) Translationa	-	-		
Master	's degr	ee (1 major) Translationa	l Neuroscience (2022			

Module title Abbreviation						
Retreat Neurosciences 1 07-MLSRNS1-152-m01						
Module coordinator				Module offered by		
	an of Studies Biologie (Biology)			Faculty of Biology		
ECTS		od of grading successfully completed	Only after succ. compl. of module(s)			
DurationModule levelO1 semestergraduate		Other prerequisites				
Conten						
and the	eir disc		mmunity. Discussion		lk. Critical evaluation of results nterim progress reports with su-	
Intende	ed lear	ning outcomes				
		skills, (oral) presentation e field, troubleshooting s			taking into consideration current orts.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
S (2)						
• •	taugh	t in: English				
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
		n (20 to 45 minutes) ssessment: English				
Allocati	-					
Additio	nal inf	ormation				
Additio	natim					
Worklo	ad					
150 h						
Teachir	ıg cvcl	6				
	5 9 5					
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
			U			
Module	appea	irs in				
		ee (1 major) FOKUS Life S	ciences (2015)			
	-	ee (1 major) Translational	-)		
	-	ee (1 major) Translational				
	-	ee (1 major) Translationa				
Master'	s degr	ee (1 major) Translationa	Neuroscience (2022	.)		

Module title Abbreviation						
Retreat Neurosciences 2 07-MLSRNS2-152-mo1						
Modul	e coord	linator		Module offered by		
Dean of Studies Biologie (Biology)				Faculty of Biology		
ECTS			Only after succ. con			
5	(not) successfully completed					
Duration Module level Other		Other prerequisites				
1 semester graduate						
Conter	nts					
and th	eir disc		mmunity. Discussior		lk. Critical evaluation of results nterim progress reports with su-	
Intend	ed lear	ning outcomes				
		skills, (oral) presentation ne field, troubleshooting s			taking into consideration curren orts.	
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	in)	
S (2)						
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
e) pres	sentatio	on (20 to 45 minutes)				
Alloca	tion of	places				
Additi	onal inf	ormation				
Worklo	oad	_	-			
150 h						
Teachi	ing cycl	e				
		-	-			
Referr	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Modul	e appe	ars in				
Maste	r's degr	ee (1 major) Translationa	l Neuroscience (2015)		
	-	ee (1 major) Translationa				
	-	ee (1 major) Translationa				
Maste	r's degr	ee (1 major) Translationa	l Neuroscience (2022	2)		

Works	Module title Abbreviation						
Workshop Neurosciences 1					07-MLSWS-NS1-152-m01		
Module coordinator				Module offered by			
Dean of Studies Biologie (Biology)				Faculty of Biology			
ECTS	Method of grading Only after succ. co		Only after succ. con	npl. of module(s)			
5 (not) successfully completed							
Duratio	on	Module level	Other prerequisites	i i i i i i i i i i i i i i i i i i i			
1 semester graduate							
Conten	Its						
Discus thods.	sion of	current methods and tec	hniques required in l	ab projects. Insights	into and training in novel me-		
Intend	ed lear	ning outcomes					
Studer	nts acqu	uire proficiency in those i	nethods and techniq	ues that are required	d in their lab projects.		
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)		
W (2) Module	e taugh	t in: English					
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-		
e) pres Studer	entatio nts will	d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course.					
0			ethod, length and sc	ope of the assessme			
Allocat		ssessment: English	ethod, length and sco	ope of the assessme			
Allocat		ssessment: English	ethod, length and sco	ope of the assessme			
	ion of _l	ssessment: English	ethod, length and sco	ope of the assessme			
	ion of _l	ssessment: English p laces	ethod, length and sco	ope of the assessme			
	ion of ponal inf	ssessment: English p laces	ethod, length and sco	ope of the assessme			
 Additic	ion of ponal inf	ssessment: English p laces	ethod, length and sco	ope of the assessme			
 Additic Workla	ion of ponal inf	ssessment: English places ormation	ethod, length and sco	ope of the assessme			
 Additic Worklo 150 h	ion of ponal inf	ssessment: English places ormation	ethod, length and sco	ope of the assessme			
 Additic Worklo 150 h Teachi	ion of ponal inf pad	ssessment: English places ormation			ent prior to the course.		
 Additic Worklo 150 h Teachi	ion of ponal inf pad	ssessment: English places ormation e			ent prior to the course.		
 Additio 150 h Teachi Referre	pion of ponal inf pad ng cycl	ssessment: English places formation e LPOI (examination regu			ent prior to the course.		

Module title Abbreviation							
Works	Workshop Neurosciences 2 07-MLSWS-NS2-152-m01						
Module coordinator Module offered by							
Dean of Studies Biologie (Biology)				Faculty of Biology			
ECTS	Meth			npl. of module(s)			
5	(not) successfully completed						
Duration Module level Other pre		Other prerequisites					
1 semester graduate							
Conter	nts						
Discus thods.		current methods and tec	hniques required in l	ab projects. Insights	s into and training in novel me-		
Intend	ed lear	ning outcomes					
Studer	nts acqu	uire proficiency in those r	nethods and techniq	ues that are required	d in their lab projects.		
Course	es (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)		
W (2)							
c) oral d) oral e) pres Allocat	examir examir sentatio	a. 10 to 30 pages) or nation of one candidate en nation in groups of up to on (20 to 45 minutes) places		-	or		
Worklo	oad						
150 h							
Teachi	ing cycl	e					
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)			
Modul	e appea	ars in					
Master Master	r's degr r's degr	ee (1 major) Translationa ee (1 major) Translationa ee (1 major) Translationa ee (1 major) Translationa	l Neuroscience (2017 l Neuroscience (2018)			