

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: 2018 Responsible: Faculty of Medicine

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88|h36|-|-|H|2018

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)):

29-Jan-2019 (2018-64)

18-Dec-2019 (2019-62)

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	page
Compulsory Courses (50	ECTS credits)			
03-TN-MNS-152-m01	Methods in Neurosciences	5	B/NB	31
03-TN-NB1-152-m01	Clinical Neurobiology 1	5	NUM	36
03-TN-NB2-152-m01	Clinical Neurobiology 2: Trend-setting and current findings in neurobiology	5	B/NB	38
03-TN-NN1-152-m01	Neurology/ Neurosurgery 1	5	NUM	41
03-TN-NN2-152-m01	Neurology/ Neurosurgery 2	5	B/NB	43
03-TN-PSYT1-152-m01	Psychiatric Neurosciences	5	NUM	53
03-TN-PSYT2-152-m01	Current findings in psychiatric neurosciences	5	B/NB	55
06-TN-BPSY1-152-m01	Biopsychology 1	5	NUM	60
06-TN-BPSY2-152-m01	Biopsychology 2	5	B/NB	61
03-TN-LR1-152-m01	Advanced lab rotation 1	5	NUM	28
Compulsory Electives (40	ECTS credits)			
Module Group General	Compulsory Electives			
03-TN-P-152-m01	Pain	5	B/NB	47
03-TN-NI-172-m01	Neuroinflammation	5	NUM	40
03-TN-IC-152-m01	lon channels	5	NUM	26
03-TN-FI-152-m01	Functional Neuroimaging	5	B/NB	2/
03-TN-DI-172-m01	Developmental Neuroimaging	5	NUM	16
03-TN-PN-172-m01	Regeneration in the nervous system	5	NUM	51
03-TN-DNP-172-m01	Developmental Neuropsychiatry	5	NUM	18
03-TN-CN-152-m01	Cellular Neurobiology	5	NUM	13
03-TN-EP-152-m01	Experimental Psychiatry	5	NUM	21
03-TN-DCN-152-m01	Developmental cognitive Neuroscience	5	NUM	1/
03-TN-RM-172-m01	RNA-Metabolismus/ RNA metabolism	5	B/NB	56
06-TN-EPHY-182-m01	Electrophysiology in human and animals	5	B/NB	62
03-TNOM-191-m01	Optical methods for visualization and manipulation of neural circuits- from synapses to behavior	5	B/NB	45
03-TN-PDES-182-m01	Project design	5	B/NB	49
03-TN-PDEV-182-m01	Project Development	5	B/NB	50
03-TN-EXP1-182-m01	Ask the expert 1	5	B/NB	23
03-EXP2-182-m01	Ask the expert 2	5	B/NB	6
03-TN-ASL-152-m01	Advanced Subject Lecture 1 (actual lectures to be specified)	10	B/NB	8
03-TN-ASL-2-152-m01	Advanced Subject Lecture 2 (actual lectures to be specified)	5	B/NB	9
03-TN-ASL-3-152-m01	Advanced Subject Lecture 3 (actual lectures to be specified)	5	B/NB	10
03-TN-MP-1-152-m01	Meeting Participation 1 (Poster)	5	B/NB	32
03-TN-MT-1-152-m01	Meeting Participation 1 (Talk)	10	B/NB	35
03-TN-ATP-1-152-m01	Advanced Training Program GSLS 1	5	B/NB	11
03-TN-ATP-2-152-m01	Advanced Training Program GSLS 2	5	B/NB	12
03-TN-TU-1-152-m01	Tutorial 1	3	B/NB	58
03-TN-TU-2-152-m01	Tutorial 2	5	B/NB	59
	ory Electives Lab Courses	ر ا	2,2	;

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03-TN-LR2-152-m01	Advanced lab rotation 2	10	NUM	29		
03-TN-LR3-152-m01	Advanced lab rotation 3	10	NUM	30		
03-TN-EL-1-152-m01	External Lab Rotation 1	10	B/NB	20		
03-TN-AL-1-152-m01	Advanced Practical Course Neuroscience Lab 1	10	B/NB	7		
Module Group Sections o	Module Group Sections of Graduate School GSLS: Neuroscience					
07-MLSRG-NS1-152-m01	Research Group Seminar Neurosciences 1	5	B/NB	66		
07-MLSRG-NS2-152-m01	Research Group Seminar Neurosciences 2	5	B/NB	67		
07-MLSGP-NS1-152-m01	Graduate Program Seminar Neurosciences 1	5	B/NB	64		
07-MLSGP-NS2-152-m01	Graduate Program Seminar Neurosciences 2	5	B/NB	65		
07-MLSWS-NS1-152- m01	Workshop Neurosciences 1	5	B/NB	70		
07-MLSWS-NS2-152- m01	Workshop Neurosciences 2	5	B/NB	71		
07-MLSRNS1-152-m01	Retreat Neurosciences 1	5	B/NB	68		
07-MLSRNS2-152-m01	Retreat Neurosciences 2	5	B/NB	69		
Thesis (30 ECTS credits)						
03-TN-MST-152-m01	Masterthesis in Translational Neuroscience	25	NUM	34		
03-TN-MSK-152-m01	Oral Examination Translational Neuroscience	5	NUM	33		

Module	title				Abbreviation
Ask the	exper	t 2			03-EXP2-182-m01
		•			
Module coordinator				Module offered by	
program				Faculty of Medicine	
ECTS		od of grading successfully completed	Only after succ. com	ipl. of module(s)	
5					
Duratio		Module level graduate	Other prerequisites		
Conten		Sidudic	<u> </u>		
·			antant varias aash s	omostor	
	-	opics in neurosciences, o	content varies each s	emester.	
· · · · · · · · · · · · · · · · · · ·		ning outcomes			
		a deeper insight into the ychology, psychiatry, nei			guest lecturers are selected in the e compulsory subjects).
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)
S (2)					
Module	taugh	t in: English			
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-
-		mination (30 to 60 minut		-	or
		o pages) or	es, metaanig mattipt		
		ation of one candidate e			
		nation in groups of up to g n (20 to 45 minutes) or	3 candidates (30 to 6	o minutes) or	
		rding to specific congress	s requirements		
		ssessment: English			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir	ıg cycl	е			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	appea	urs in			
	-	ee (1 major) Translationa)	
		y course Translational Ne			
	-	ee (1 major) Translationa)	
Supple	mentai	y course Translational Ne	euroscience (2022)		

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
Advan	ced Sub	oject Lecture 1 (actual lec	tures to be specified)	03-TN-ASL-152-m01
Module coordinator Module offered by				·	
progra	mme co	oordinator		Faculty of Medicine	2
ECTS		od of grading	Only after succ. con	npl. of module(s)	
10	(not)	successfully completed			
Durati	on	Module level	Other prerequisites		
		graduate	Please consult with	course advisory ser	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	25.	
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
V (4)					
	e taugh	t in: English			
c) oral d) oral Langua Alloca	examin examir age of a tion of j	mination (30 to 60 minut ation of one candidate e nation in groups of up to ssessment: English places	ach (30 to 60 minute	s) or	or
Workle	oad				
300 h					
Teachi	ing cycl	e			
Referr	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
Modul	e appea	ars in			
Master Supple	r's degr	ee (1 major) Translationa ee (1 major) Translationa ry course Translational Ne	l Neuroscience (2018		

Module	e title				Abbreviation		
Advanc	ed Sub	ject Lecture 2 (actual lec	ctures to be specified)	03-TN-ASL-2-152-m01		
Module coordinator				Module offered by			
program	nme co	oordinator		Faculty of Medicine			
ECTS		od of grading	Only after succ. con	npl. of module(s)			
5	(not) s	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.			
Intende	ed lear	ning outcomes					
Studen	ts gain	an overview of current to	opics in neuroscience	25.			
		, number of weekly conta			in)		
V (2)		,					
• •	e taugh	t in: English					
		sessment (type, scope, la on on whether module c			tion offered — if not every seme-		
		mination (30 to 60 minut ation of one candidate e			or		
,		ation in groups of up to g		,			
		ssessment: English		. je te ee minutes)			
Allocat	ion of j	olaces					
	,						
Additio	nal inf	ormation	-				
Worklo	ad						
150 h							
Teachi	ng cycl	e					
			-				
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)			
Module	e appea	urs in					
Master	's degr	ee (1 major) Translationa	l Neuroscience (2015))			
	-	ee (1 major) Translationa					
Master							
	Master's degree (1 major) Translational Neuroscience (2018)						
Master	-		l Neuroscience (2018)			
Master Supple	menta	ee (1 major) Translationa	l Neuroscience (2018 euroscience (2018)	-			

Module	e title				Abbreviation
Advand	ced Sul	oject Lecture 3 (actual lec	tures to be specified)	03-TN-ASL-3-152-m01
Module coordinator				Module offered by	*
prograi	mme co	pordinator		Faculty of Medicine	2
ECTS	Meth	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	nts				
Cutting	g edge t	opics in neurosciences, o	content varies each s	emester.	
Intend	ed lear	ning outcomes			
		an overview of current to	pics in neuroscience	25.	
		, number of weekly conta			an)
V (2)		,			
Module	e taugh	t in: English			
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-
b) oral c) oral	examir examir	mination (30 to 60 minut nation of one candidate e nation in groups of up to g ssessment: English	ach (30 to 60 minute	s) or	
Allocat	tion of	places			
Additio	onal inf	ormation			
Worklo	oad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Module	e appea	ars in			
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa)	
		ry course Translational N			
	-	ee (1 major) Translationa		2)	
Supple	ementa	ry course Translational N	euroscience (2022)		

Advand	e title				Abbreviation	
Advanced Training Program GSLS 1					03-TN-ATP-1-152-m01	
Module coordinator				Module offered by		
program	mme co	pordinator		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	ester	graduate				
Conten	nts					
Transfe	erable s	skills tutorials: scientific	writing and presentat	ion skills.		
Intend	ed lear	ning outcomes				
Studen	nts have	e developed fundamenta	l scientific writing an	d presentation skills	5.	
Course	s (type	, number of weekly conta	act 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-	
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						
Langua	age of a	on (20 to 45 minutes) assessment: English	3 candidates (approx	s) or . 30 to 60 minutes)	or	
	age of a	on (20 to 45 minutes) assessment: English	3 candidates (approx		or	
Langua Allocat	age of a t ion of	on (20 to 45 minutes) issessment: English places	3 candidates (approx		or	
Langua Allocat	age of a t ion of	on (20 to 45 minutes) assessment: English	3 candidates (approx		or	
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Langua Allocat Additio Worklo	age of a tion of pnal inf	on (20 to 45 minutes) assessment: English places formation	3 candidates (approx		or	
Langua Allocat Additio Worklo 150 h	age of a tion of pnal inf	on (20 to 45 minutes) assessment: English places formation	3 candidates (approx		or	
Langua Allocat Additio 150 h Teachin 	age of a tion of pnal inf pad	on (20 to 45 minutes) assessment: English places formation		. 30 to 60 minutes)		
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Langua Allocat Additio 150 h Teachin Referre Module Master Master	age of a tion of onal inf oad ng cycl ed to in e appea d's degr	e (1 major) Translationa e (1 major) Translationa e (1 major) Translationa	lations for teaching- l Neuroscience (2015 l Neuroscience (2017	. 30 to 60 minutes) degree programmes)		
Langua Allocat Additio 150 h Teachin Referre Master Master Master	age of a tion of onal inf oad ng cycl ed to in e appea d's degr d's degr	e (1 major) Translationa ee (1 major) Translationa ee (1 major) Translationa ee (1 major) Translationa	l Neuroscience (2015 l Neuroscience (2017 l Neuroscience (2017	. 30 to 60 minutes) degree programmes)		
Langua Allocat Additio Worklo 150 h Teachin Referre Module Master Master Supple	age of a tion of onal inf oad ng cycl ed to in e appea d's degr d's degr d's degr ementa	e (1 major) Translationa e (1 major) Translationa e (1 major) Translationa	lations for teaching- l Neuroscience (2015 l Neuroscience (2017 l Neuroscience (2018)	. 30 to 60 minutes) degree programmes))		

	e title				Abbreviation			
Advanced Training 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	essment (type, scope, la	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	(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 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	(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 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 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 prmation e LPO I (examination 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			

Module title Cellular Neurobiology					Abbreviation
Cellula	r Neuro	biology			03-TN-CN-152-m01
Module	e coord	inator		Module offered by	
Institut	stitute of Clinical Neurobiology		Faculty of Medicine		
ECTS		od of grading	Only after succ. compl. of module(s)		
5	nume	rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Its				
pics wi nervou haviora and mo and ce their us slices, se perf Intende	Il be di s syste al tests otor end rebellur 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 ning outcomes	ion, and molecular fu and non-neuronal ce toneuron diseases; fu ular/neuronal plastic r pathomechanisms o immunohistochemis euron preparations o ecordings to determin	Inctional component Ils as well as the neu unctional and morph ity at selected brain of neuromotor disorc stry /immunfluoresce f dorsal root ganglia ne ion channel prope	
proach pathon with a f evalua	es in ne nechan focus o te, and	eurobiology. They are trai isms of neural model sys n the molecular, cellular	ned in preparations a tems. The students a and physiological me nat were collected du	and recording techni re able to evaluate c echanisms. Addition ring the lab course.	lispose current experimental ap- iques to study the function and clinical aspects of neurobiology ally, they are able to document, Furthermore, the students can
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
V (o) +					
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) Log	(approx	x. 10 to 30 pages)			
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-o	degree programmes)	
Module	e appea	irs in			
Master Master Supple Master	's degro 's degro ementar '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			
		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	2		
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 t transm cience. of psyc oral exp to critic	focus o ission a It will I hiatric perime ally ev	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 fM	nt learning models, t estigate research que ce can be a useful to e use problems. The MRI, and computation	elopmental steps. There will be sightly linked to monoamine estions in developmental neuros- ol to investigate the development methods focus will be on behavi- nal modelling. Students will learn on on the topics based on state-		
Intende	ed lear	ning outcomes					
normal gnition sed via neurop ty / dep	and al and m behav sychiat pressio	tered cognition and moti otivation such as working ioral and neuroscientific tric disorders such as atte	vation as well as brai g memory, reinforcen studies. Abnormal de ention-deficit / hyper n monoaminergic neu	in development. Dev nent learning and em evelopment will be e ractivity disorder, au	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) + Module		Ü (2) t in: English					
					tion offered — if not every seme-		
b) log (c) oral (d) oral e) pres	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							
Teachi	ng cycl	۵					
	-3 -9 -1	-					
Referre	d to in	LPOI (examination regu	lations for teaching.	degree programmes)			
Module	annea	urs 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)

					Abbreviation		
		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	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						
respons such de ample d a statis art text	se). Dif esign d data of tical m books	get an introduction to b ferent fMRI designs, blo ifferences. The basic st a block and event desi odel of task-based fMR and research articles or Mapping software in N	ock vs. event, will be in eps for preprocessing gn, there will be an int I 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 lires the students to	v evaluate ed. Using ex- o implement state-of-the- use Statisti-	
Studen tional a cal ana mentec	Intended learning outcomes Students who successfully completed this module will have acquired insights into the basics principles of func- tional and structural MRI data collection as well as how to perform data preprocessing and principles of statisti- cal analysis. Behavioral data from an experiment conducted during functional MRI will be analyzed and imple- mented into the statistical analysis of brain activation of controls and patients. As an outlook, we will touch on opportunities of informing such analysis by computational modeling.						
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)		
S (o) +	Ü (o)	t in: English					
		sessment (type, scope, on on whether module			tion offered — if not	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	ion of j	olaces					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachir	ng cvcl	e					
	<u> </u>						
Referre	d to in	LPOI (examination reg	ulations for teaching.	legree programmes)			
Module	annes	urs in					
		ee (1 major) Translation	al Neuroscience (2017)			
	-	ee (1 major) Translation					
	-	y course Translational I					
Master's wi (2018)	ith 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 16 / 71	



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

Module title					Abbreviation		
-	Developmental Neuropsychiatry 03-TN-DNP-172-m01						
Module	e coord	inator		Module offered by			
		spital, Department of Ch ychosomatics and Psyc		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 neuroin	art neu utism s sibility es in cl naging	get an introduction to the roscientific models of e pectrum disorder, subs c, clinical interviews with nild and adolescent psy and transcranial sonog give presentation on the	tiology and pathophys tance use disorder, ea n patient from our dep chiatry will be introduc raphy. Students will le	iology. There will be ting disorders as we artment will be prese ced to the students i earn to critically evalu	a focus on ADHD, an Il as conduct problem ented to the class. Re ncluding clinical tria uate the role of these	xiety disor- ms. Whene- esearch ap- ls, functional e techniques.	
		ning outcomes					
Studen of child physiol order, e	ts who l and a ogy an eating o	successfully completed dolescent psychiatric di d research approaches disorders as well as opp acology are further disc	sorders including clini on ADHD, anxiety diso positional defiant and o	cal symptoms, diagr rders, autism spectr conduct problems. D	nostic criteria, etiolog 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) + : Module		t in: English					
Method	d of ass	sessment (type, scope,	 language — if other the	an German, examina	tion offered — if not	everv seme-	
		on on whether module				,	
b) log (a c) oral e d) oral e 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					
Worklo	ad						
	au						
150 h							
Teachir	ig cyci	e					
Referre	d to in	LPOI (examination reg	ulations for teaching-o	legree programmes)			
Module							
	-	ee (1 major) Translation					
	-	ee (1 major) Translation)			
		y course Translational I			,		
Master's wi (2018)	th 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 18 / 71	



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

Module title Abbreviation						
Externa	l Lab R	otation 1			03-TN-EL-1-152-m01	
Module coordinator				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	Referred to in LPO I (examination regulations for teaching-degree programmes)					
	Module appears in Master's degree (1 major) Translational Neuroscience (2015)					
	-	ee (1 major) Translational				
	Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018)					
Supple	mentar	y course Translational Ne	euroscience (2018)			
		ee (1 major) Translational)		
Supple	Supplementary course Translational Neuroscience (2022)					

Module title	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					

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					Abbreviation
Ask the expert 1					03-TN-EXP1-182-m01
Module	coord	inator		Module offered by	
program	nme sp	peaker		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme		graduate			
Conten	ts				
Cutting	edge t	opics in neurosciences, o	content varies each s	emester.	
Intende	ed learı	ning outcomes			
		a deeper insight into the ychology, psychiatry, net			guest lecturers are selected in the e compulsory subjects).
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	n)
S (2)					
		t in: English			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (: c) oral e	10 to 30 examin	nination (30 to 60 minut o pages) or ation of one candidate es ation in groups of up to 3	ach (30 to 60 minute:	s) or	or
f) poste	er accoi	n (20 to 45 minutes) or rding to specific congress ssessment: English	s requirements		
Allocati	-				
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir	ıg cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
	-	ee (1 major) Translational)	
		y course Translational Ne)	
	Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)				

Functional Neuroimaging ogs:TN-FL-152-mol Module coordinator Module coordinator Module coordinator Module and Medicine ECTS Method of grading Only after succ. comp. of module(s) Image: Successfully completed Image: S	Module title					Abbreviation		
University Hospital, Department of Nuclear Medicine Faculty of Medicine ECTS Method of grading Only after succ. compl. of module(s) s (not) successfully completed	Functio	onal Ne	uroimaging			03-TN-FI-152-m01		
ECTS Methev or grading Only after succ. compl. of module(s) 5 Inol Successfully completed	Modul	e coord	inator		Module offered by			
5 (not) successfully completed	Univer	sity Hos	pital, Department of N	uclear Medicine	Faculty of Medicine			
Duration Module level Other prerequisites 1 semester graduate Contents Contents Content 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. Intended learning outcomes Students who successfully completed this module will have acquired insights into current experimental approa- ches in neurobiology. They will have been introduced to preparations and recording techniques to study the fun- cition and pathomechanisms of neural model systems. The students will have examined clinical aspects of neu- robiology with a focus on the molecular, cellular and physiological mechanisms. Additionally, they will have lear- ned how to document their own data that they collected during lab curres. In addition, the students will have learned to critically reflect their data in the context of the experimental methods used. Courses (type, number of weekly contact hours, language — if other than German, examination onfered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (so to 6 minutes, including multiple choice questions) or b) log (approx. to to sp	ECTS				npl. of module(s)			
1 semester graduate		· · · · · · · · · · · · · · · · · · ·						
Contents Contents Contents: target identification for functional and molecular neuroinaging, basic concepts of radiochemistry, radiolabelling of surrogate markers for PET and SPECT, basic concepts of magnetic resonance imaging, basic concepts 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. Intended learning outcomes Students who successfully completed this module will have acquired insights into current experimental approa- ches in neurobiology. They will have been introduced to preparations and recording techniques to study the fun- ction and pathomechanisms of neural model systems. The students will have examined clinically, they will have lear- ned how to document their own data that they collected during lab courses. In addition, the students will have elare do not obcument their own data that they collected during lab courses. In addition, the students will have learned to critically reflect their data in the context of the experimental methods used. Courses (type, number of weekly contact hours, language — if other than German) V (o) + S (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) a) written examination ing roups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes). aloral examination of na				Other prerequisites				
Content: 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. Intended learning outcomes Students who successfully completed this module will have acquired insights into current experimental approa- ches in neurobiology. They will have been introduced to preparations and recording techniques to study the fun- ction and pathomechanisms of neural model systems. The students will have examined clinical aspects of neu- robiology with a focus on the molecular, cellular and physiological mechanisms. Additionally, they will have lear- ned how to document their own data that they collected during lab courses. In addition, the students will have learned to critically reflect their data in the context of the experimental methods used. Courses (type, number of weekly contact hours, language – if other than German) V (o) + S (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) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of pace candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English Allocation of places 			graduate					
Students who successfully completed this module will have acquired insights into current experimental approa- ches in neurobiology. They will have been introduced to preparations and recording techniques to study the fun- robiology with a focus on the molecular, cellular and physiological mechanisms. Additionally, they will have lear- ned how to document their own data that they collected during lab courses. In addition, the students will have learned to critically reflect their data in the context of the experimental methods used. Courses (type, number of weekly contact hours, language — if other than German) V (o) + 5 (c) 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 (go to 6 o minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of nouses, including multiple choice questions) or e) presentation (ao to 45 minutes) Language of assessment: English Allocation of places 	Conter diolab cepts c CT, SPI tures in imagin	nt: targe elling of of positi ECT/CT) n huma g of bra	f surrogate markers for ron emission tomograp , anatomic and functio ns and patients with ne in tumours using MR, F	PET and SPECT, basic hy, single photon emis nal structures of the br eurodegenerative disor	concepts of magnetic sion computed tomo ain in small animals	c resonance imaging ography and hybrid o , anatomic and funct	g, basic con- devices (PET/ tional struc-	
ches in neurobiology. They will have been introduced to preparations and recording techniques to study the function and pathomechanisms of neural model systems. The students will have examined clinical aspects of neurobiology with a focus on the molecular, cellular and physiological mechanisms. Additionally, they will have learned how to document their own data that they collected during lab courses. In addition, the students will have learned to critically reflect their data in the context of the experimental methods used. Courses (type, number of weekly contact hours, language — if other than German) V (o) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus) a) written examination (go to 6 om inutes, including multiple choice questions) or b) log (approx. 1o to 30 pages) or c) or al examination of one candidate each (30 to 60 minutes) or c) or al examination of one candidate each (30 to 60 minutes) or c) or al examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or c) or al examination of one candidate each (30 to 60 minutes) or c) or al examination for groups of up to 3 candidates (approx. 30 to 60 minutes) or c) or al examination for a candidate each (30 to 60 minutes) or c) or al examination for a candidate each (30 to 60 minutes) or c) or al examination for a candidate each (30 to 60 minutes) or c) or al examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or c) or al examination for a candidate each (30 to 60 minutes) or c) or al examination for tacks Allocation of places	· · · · · · · · · · · · · · · · · · ·	_						
V (a) + S (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) 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 c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or c) oral examination (20 to 45 minutes) Language of assessment: English 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 (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018) Master's Mith 1 major Translational Neuroscience (2018)	ches ir ction a robiolo ned ho learneo	n neurol nd path ogy with ow to do d to crit	biology. They will have nomechanisms of neura a focus on the molecu cument their own data ically reflect their data	been introduced to pre al model systems. The lar, cellular and physic that they collected du in the context of the ex	parations and record students will have ex- ological mechanisms ring lab courses. In a perimental methods	ding techniques to s camined clinical asp . Additionally, they addition, the student used.	tudy the fun- ects of neu- will have lear-	
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 Allocation of places			,			,		
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 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 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 (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018) Master's Mith 1 major Translational Neuroscience (2018)			t in: English					
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 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 (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)						tion offered — if not	every seme-	
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 (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)	b) log (c) oral d) oral e) pres	(approx examin examin entatio	. 10 to 30 pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes)	each (30 to 60 minute	s) or			
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) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)	Allocat	tion of p	olaces					
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) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)								
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) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)	Additio	onal info	ormation					
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) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)								
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) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience (2018)	Worklo	ad						
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 (2018) Master's with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re- page 24 / 71	150 h							
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 (2018) Master's with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re- page 24 / 71	Teachi	ng cycl	e					
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 (2018) Master's with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re- page 24 / 71								
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 with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re-	Referred to in LPO I (examination regulations for teaching-degree programmes)							
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 with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re-								
Master's degree (1 major) Translational Neuroscience (2017) Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's with 1 major Translational Neuroscience JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re- page 24 / 71								
	Master Master	r's degro r's degro	ee (1 major) Translatior ee (1 major) Translatior	al Neuroscience (2017 al Neuroscience (2018)			
	Master's w (2018)	ith 1 majoi	Translational Neuroscience				page 24 / 71	



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

Module title Abbreviation							
lon cha	Ion channels 03-TN-IC-152-m01						
Modul	e coordinator		Module offered by				
Institute of Clinical Neurobiology				Faculty of Medicine	!		
ECTS	Method of grading		Only after succ. con	npl. of module(s)			
5 numerical grade							
	Duration Module level Other prerequisites						
1 seme							
topics ted and mical e pathie physio tional is rece fected learne	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.						
	ed learning outcomes						
ties of in a bo channe jected ty of el read, r	nts who successfully co various ion channel fa ottom-up approach to p elopathies. They will be cell lines as well as pri ectrophysiological reco eflect, and present scie	milies an out the mo e trained imary neu ording teo entific rep	d their importance for olecular findings into in recording techniqu trons. With this exper chniques for various i ports in the field of ch	r brain physiology. T the context of patho es to study ion chan ience, students are a on channels. Additic annel physiology.	he students are able mechanisms in vario nel properties on tra able to evaluate the onally, they are able	to classify bus kinds of insfected/in- applicabili-	
	es (type, number of we	ekly conta	act hours, language –	- if other than Germa	in)		
	S (0) + P (2) e taught in: English						
	d of assessment (type formation on whether				tion offered — if not	every seme-	
b) oral c) oral d) pres	ten examination (30 to examination of one ca examination in groups sentation (20 to 45 min age of assessment: Eng	ndidate e of up to utes)	each (30 to 60 minute	s) or			
Alloca	tion of places						
Additio	onal information						
Worklo	bad						
150 h							
_	Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appears in						
Master's w (2018)	vith 1 major Translational Neuros	cience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 26 / 71	

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	Module title Abbreviation						
Advanc	ed lab	rotation 1			03-TN-LR1-152-m01		
Module	coord	inator		Module offered by			
		ordinator		Faculty of Medicine			
ECTS		od of grading	Only after succ. con	,			
5		rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.		
Conten	ts						
Studen	ts get a	an intense training in at le	east two different me	thods from different	fields of neurosciences.		
Intende	ed leari	ning outcomes					
Studen	ts have	e reinforced previously ac	quired lab skills, acc	uired new lab techn	iques and learned how to apply		
					and presentation of raw data.		
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)		
P (2)							
		t in: English					
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-		
		. 10 to 30 pages) or					
		ation in groups of up to	3 candidates (approx	. 30 to 60 minutes)			
		ssessment: English					
Allocat	ion of p	Dlaces					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi	ıg cycl	e					
Referre	d to in	LPOI (examination regu	lations for teaching-	legree 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 (2018)						
)			
	-	ee (1 major) Translational		J			
Supple	mental	y course Translational Ne	euroscience (2022)				

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				
Master's degree (1 major) Translational Neuroscience (2015)						
	Master's degree (1 major) Translational Neuroscience (2017)					
Master	Master's degree (1 major) Translational Neuroscience (2018)					
Supple	mentai	ry course Translational N	euroscience (2018)			
Master	-)		
	Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)					

Modul	Module title Abbreviation						
Advan	Advanced lab rotation 3 03-TN-LR3-152-mo1						
Modul	e coord	inator		Module offered by			
progra	mme co	oordinator		Faculty of Medicine	2		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)			
10	nume	rical grade					
Durati	on	Module level	Other prerequisites	j			
1 seme	ester	graduate	Please consult with	course advisory ser	vice in advance.		
Conter	nts						
Studer	nts spe	nd 6 weeks independer	Itly working on their ov	vn small, well-define	ed scientific lab project.		
Intend	ed lear	ning outcomes					
Studer	nts have	e reinforced previously	acquired lab skills, acc	guired new lab techn	iques and learned how to apply		
					s and presentation of raw data.		
Course	es (type	, number of weekly con	tact hours, language –	– if other than Germa	an)		
P (4)							
Modul	e taugh	t in: English					
					ation offered — if not every seme-		
		ion on whether module	can be chosen to earn	a bonus)			
		. 10 to 30 pages) or					
		nation in groups of up to on (20 to 45 minutes)	o 3 candidates (approx	(. 30 to 60 minutes)	or		
		issessment: English					
	tion of						
Additio	onal inf	ormation					
Worklo	bad						
300 h							
Teachi	ng cycl	e					
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)			
Modul	e appea	ars in					
Master's degree (1 major) Translational Neuroscience (2015)							
Master	Master's degree (1 major) Translational Neuroscience (2017)						
Master	r's degr	ee (1 major) Translatior	al Neuroscience (2018	3)			
		ry course Translational					
		ee (1 major) Translatior		2)			
Supple	ementa	ry course Translational	Neuroscience (2022)				

Module	e title				Abbreviation
Metho	ds in Ne	eurosciences			03-TN-MNS-152-m01
Module	e coord	inator		Module offered by	<u> </u>
		ordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	· · · · ·	-
5		successfully completed		1 (7	
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	its				
proach biodist	es, pro ributio	tein and molecular biolog n of imaging biomarkers,	gy techniques, PCR, a pain behaviour, gait	dvanced protein bic analysis, biostatisti	odels and gene-knockout ap- ochemistry, imaging techniques, cs of psychiatric genetic studies, enesis, neural stem cells.
Intend	ed learı	ning outcomes			
		able to review and expand and techniques to design of			techniques and are able to choo- f neurosciences.
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	ın)
V (o) +	P (2)				
Module	e taugh	t in: English			
ster, in	formati	on on whether module ca	an be chosen to earn	a bonus)	ition 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	LPO I (examination regu	lations for teaching-o	legree programmes)	
Module	e appea	irs in			
Master	's degr	ee (1 major) Translationa	Neuroscience (2015))	
	-	ee (1 major) Translationa			
	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	mental	y course mansiational Ne	euroscience (2022)		

Module	e title				Abbreviation	
Meetin	g Parti	cipation 1 (Poster)			03-TN-MP-1-152-m01	
Module	e coord	inator		Module offered by	<u> </u>	
program	nme co	oordinator		Faculty of Medicine		
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Design	and pr	resentation of a poster wi	th description of the	research results of a	project.	
Intende	ed lear	ning outcomes				
		and oral presentation of ect with a special regard t			ic questions in the context of the of data.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
S (2)		the Exclusion				
		t in: English				
		s essment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
		cordance with conference ssessment: English	e specifications			
Allocat	ion of _l	places				
 A J J*+* -						
Additio	nat inf	ormation				
Worklo	au					
150 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
Module						
	Master's degree (1 major) Translational Neuroscience (2015)					
	-	ee (1 major) Translationa				
	Master's degree (1 major) Translational Neuroscience (2018)					
	Supplementary course Translational Neuroscience (2018) Master's degree (1 major) Translational Neuroscience (2022)					
	Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)					
11:12		,	/			

Module title Abbreviation					
Oral Examination Translational Neuroscience					03-TN-MSK-152-m01
Module coordinator Module offered by					
prograi	nme co	ordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade	03-TN-MST		
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
					ologies. The documentation of the
		ts in a written thesis, and	an oral examination	l .	
		ning outcomes			
sent ar summa ly discu	id inter irise thuss and	pret raw data according t eir data in a written pape	o international stand r according to scienti plan, results and int	ards of good scienti fic rules and standa erpretations in the c	ct. They are able to collect, pre- fic conduct. They are able to rds. Students are able to critical- ontext of current publications in a in related fields.
		, number of weekly conta	•	•	
K (2) Module	e taugh	t in: English			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
	ge of a				also be held in English or ano-
Allocat					
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	's degr	ee (1 major) Translational	Neuroscience (2015)		
Master's degree (1 major) Translational Neuroscience (2017)					
Master's degree (1 major) Translational Neuroscience (2018)					
Master	Master's degree (1 major) Translational Neuroscience (2022)				

Modul	e title		Abbreviation			
Masterthesis in Translational Neuroscience					03-TN-MST-152-m01	
Module coordinator				Module offered by	<u> </u>	
programme coordinator				Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
25	nume	rical grade				
Duratio	on	Module level	Other prerequisites	25		
1 seme	ester	graduate				
Conter	nts					
		ion of a current scientific ts in a written thesis, and			ologies. The documentation of the	
Intend	ed lear	ning outcomes				
sent and interpret raw data according to international standards of good scientific conduct. They are able to summarise their data in a written paper according to scientific rules and standards. Students are able to critically discuss and defend their experiment plan, results and interpretations in the context of current publications in their field. They have acquired a broad expertise in their field of study as well as in related fields. Courses (type, number of weekly contact hours, language — if other than German)						
		signed to module				
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) Master's thesis (50 to 100 pages) Language of assessment: English						
	tion of p					
Additio	onal inf	ormation				
		ete: 6 months.				
Worklo						
750 h						
	ng cycl	e				
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)						
Master's degree (1 major) Translational Neuroscience (2018)						
Master's degree (1 major) Translational Neuroscience (2022)						

Module title Abbreviation						
Meeting Participation 1 (Talk) 03-TN-MT-1-152						
Module	o coord	inator		Module offered by		
				Faculty of Medicine		
ECTS	mme coordinator Method of grading Only after succ.			ompl. of module(s)		
10		successfully completed				
Duration Module level		Module level	Other prerequisites			
1 semester		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				
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)						
e) presentation (20 to 45 minutes) Language of assessment: English						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
	-					
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 (2018) Master's degree (1 major) Translational Neuroscience (2022)						
Supplementary course Translational Neuroscience (2022)						

Module	e title		Abbreviation					
Clinical Neurobiology 1					03-TN-NB1-152-m01			
Module coordinator				Module offered by				
Institute of Clinical Neurobiology			Faculty of Medicine					
ECTS Method of grading			Only after succ. compl. of module(s)					
5	nume	rical grade						
Duration Module level		Other prerequisites						
1 seme		graduate						
Conten	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 fo- cus 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) 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) 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								
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)								

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

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)

Module	title			Abbreviation	
Clinical	Neurobiology 2: Trend-settir	ig and current findings	in neurobiology	03-TN-NB2-152-mo:	1
Modulo	coordinator		Module offered by		
			Faculty of Medicine		
	e of Clinical Neurobiology Method of grading	Only after succ. con			
	(not) successfully completed				
Duration		Other prerequisites			
1 semes					
Content	S				
pics will thies, sy kinson, on, mus ses, hip emotion sleep, E on funda proache	s will get a theoretical introd be discussed: introduction to mapses, transmitter release, somatosensory system, touc cle and muscle diseases, an pocampus, learning and mer is, disorders of conscious an EG, epilepsy, vision and dise amental and current literatur is and with this promoting tra- ted knowledge in neurobiolog	o neurons and glia, ion NMJ, myasthenia gravi h, pain, schizophrenia atomy and function of t nory, anterograde amn d unconscious mental ases of the visual syste e on lecture-relevant to inslational thinking. Us	channels and mem s, cerebellum, basal and autism spectrur he motor system, sp esia, visual agnosia, processes, attention em. The accompanie pics to discuss expe	brane potential, ion ganglia, ataxia and n disorders, disorde pinal reflexes, moton , cortex and the limb , smell and taste and d literature seminars erimental and metho	channelopa- Morbus Par- rs of cogniti- euron disea- ic system, d hearing, s are based dological ap-
	d learning outcomes	5)			
cus to d evaluati relevant	s in neurobiology. Furthermo isease mechanisms at molec on, students are able to critic information from recent pub (type, number of weekly con	ular, cellular, and phys cal read and evaluate c lications.	iological levels. Bas urrent publications i	ed on current experi n neurobiology as w	mental data
Module	taught in: English				
	of assessment (type, scope, ormation on whether module	5 5		ition offered — if not	every seme-
	ntation (20 to 45 minutes) ge of assessment: English				
Allocatio	on of places				
Addition	nal information				
Workloa	ıd				
150 h					
Teaching	g cycle				
Referred	to in LPO I (examination reg	gulations for teaching-o	degree programmes)		
Module	appears in				
Master's	s degree (1 major) Translatior	al Neuroscience (2015))		
	s degree (1 major) Translatior				
	s degree (1 major) Translation)		
	nentary course Translational				nono - 0, / - :
Master's with (2018)	h 1 major Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc		page 38 / 71



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

Module					Abbreviation	
Neuroir					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,
Intende	ed lear	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) + 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	IPOI (examination re	gulations for teaching-o	degree programmes)		
Kelene						
 Madula		ve lu				
Module			nal Neuroscience (2017)		
	-		nal Neuroscience (2017) nal Neuroscience (2018			
	-	y course Translational		,		
		•	nal Neuroscience (2022	2)		
		y course Translational				
Master's wi (2018)	ith 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 40 / 71

Module title					Abbreviation	
Neurol	ogy/ Ne	eurosurgery 1			03-TN-NN1-152-m01	1
Modul	e coord	inator		Module offered by		
Depart	ment of	Neurology, Departme	nt of Neurosurgery	Faculty of Medicine		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	I	graduate				
Conter					- 11	
diated from p and tra their at plastic treatm experin on fun- proach transfe Intend Studer cellula chanis trauma logical and mo	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					
extract cord a	the release	evant data bringing the ze data and how to pr	lans. They will learn ho m forward in their own esent them in oral and	project. In addition, written form.	they will have learn	
	s (type	number of weekly con	tact hours, language –	- If other than Germa	in)	
V (2) Modul	e taugh	t in: English				
			language — if other th can be chosen to earn		tion offered — if not	every seme-
b) oral c) oral	examin examin	ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (approx	s) or	or	
Allocat	tion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	9				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Master's w (2018)	ith 1 major	Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 41 / 71

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)

Modul	e title				Abbreviation
Neurol	ogy/ Ne	eurosurgery 2			03-TN-NN2-152-m01
Modul	e coord	inator		Module offered by	
Depart	ment of	f Neurology, Department	of Neurosurgery	Faculty of Medicine	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	(not) s	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conter	lts				
diated from pa and tra their an plastic treatme experin on fund proach transfe Intend Studer cellula chanis trauma logical and mo questic	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 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 learn 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-				
	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
S (2) Module	e taugh	t in: English			
		sessment (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	onal inf	ormation			
Worklo	ad				
150 h					
	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
Modul	e appea	urs in			
mouut					

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	e title				Abbreviation
Optical	metho	ds for visualization and	manipulation of neur	al circuits- from	03-TNOM-191-m01
synaps	es to b	ehavior			
Module	e coord	inator		Module offered by	•
Institut	e of Cli	nical Neurobiology		Faculty of Medicine	2
ECTS		od of grading	Only after succ. com		
5		successfully completed			
Duratio	<u> </u>	Module level	Other prerequisites		
1 seme		graduate			
		0	<u> </u>		
ContentsStudents will get a theoretical introduction in light microcopy methods in neurobiology and systems neuroscience. Main topics are: Physics of light, building of a standard microscope, objectives, numeric aperture, brightfield, phase contrast, fluorescence microscopy, confocal microscopy, resolution, contrast, Airy disc patterns,fluorescent molecules and dyes, image processing, preparation of images for publication, Software: GIMP and Fi-ji (Image)), imaging of calcium ions, genetically encoded calcium indicators (GCamp), viral techniques, lentiviralvectors, MMLV-based vectors, AAV, rabies virus, new developments in image analysis, deep learning, principlesof circuit neuroscience, optogenetics, video-based behavioral analysis.Intended learning outcomesStudents who successfully completed this module will have acquired distinct knowledge about light & fluore-scence microscopy, in vivo calcium imaging and optogenetic methods in neuroscientific research. Processes ofimage acquisition, image preparation and image analysis will be introduced. Thus, students will be able to bet-ter understand, design and evaluate experiments based on microscopy and modern optical methods in the neu-rosciences. In short lab visits, the students will learn about principle components of microscops (e.g. epifluo-rescence, confocal). The student will learn how these components are used to get better microscopy data. Thestudents will see how molecular tools (e.g. viral vectors) and modern methods (optogenetics)are used to better understand these kind of experiments, to analyse and evaluate them. They will acquire thecompetence to better understand these kind of experiments, to analyse and evaluate thechnical					
to allow expert	v prese audien	ntation of complex micro	scopy methods in a f t students will be abl	ocused and unders e to understand, qu	entation competence with the aim tandable way for a heterogeneous estion, evaluate, recapituale and e.
Course	s (type,	, number of weekly conta	ct hours, language —	- if other than Germa	an)
S (2)		t in: English			
ster, in	formati	on on whether module c	an be chosen to earn	a bonus)	ation offered — if not every seme-
a) Written Examination (30 to 60 minutes; also multiple choice) or b) Protocol (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 three students (30 to 60 minutes) or e) Presentation (20 to 45 minutes) Language of assessment: English					
Allocat	ion of p	olaces			
			-		
Additio	nal infe	ormation			
Worklo	ad				
150 h					
ייטכ					

Teaching cycle

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

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)

Module	e title				Abbreviation	
Pain					03-TN-P-152-m01	
Module	e coord	inator		Module offered by		
Univers Care	ity Hos	pital, 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					
pain me pain pa jor prim and lim A focus quent li discuss dicine. multime In this of therapy ing pain student Courses V (o) +	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 translation 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					
ster, inf e) prese	formati entatio	on on whether module n (20 to 45 minutes)	can be chosen to earn			
	-	ssessment: English				
Allocat	ion of j	Diaces				
Additio	natinf	ormation				
Worklo	ad					
150 h						
Teachir	ıg cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	annes	urs in				
			al Neuroscience (2015))		
	-		al Neuroscience (2017)			
	-		al Neuroscience (2018			
		y course Translational				
		-	al Neuroscience (2022)		
Master's wi (2018)	th 1 majo	r Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 47 / 71



Supplementary course Translational Neuroscience (2022)

Module	e title				Abbreviation
Project	design				03-TN-PDES-182-m01
Module	e coordi	nator		Module offered by	
Institut	e of Cli	nical Neurobiology		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	uccessfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
pics wi statisti	ll be dis cs, scie	scussed: Official Regulati	ons, Planing of a scie d citing literature. Us	entific project, Data ing student former la	Naster Thesis. The following to- production, Data evaluation, ab rotations a "dummy"-Ma-
Intende	ed learn	ning outcomes			
prepari plannir are abl	ing and ng scien e to crit	writing a Master Thesis. Itific projects and of scien	Furthermore, student ntific writing. Based c	s are able to classify on current experimer	rstand important aspects of a y important aspects in terms of ntal data evaluation, students Il as extract relevant information
Course	s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)
S (2) Module	e taught	t in: English			
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral d) oral e) pres f) poste	(10 to 30 examina examin entation er accor	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) or ding to specific congress ssessment: English	ach (30 to 60 minutes 3 candidates (30 to 60	5) or	Dr
Allocat	ion of p	olaces			
Additio	onal info	ormation			
Worklo	ad				
150 h					
Teachi	ng cycle	9			
Referre	ed to in	LPO I (examination regu	lations for teaching-d	legree programmes)	
		(
Module	e appea	rs in			
		ee (1 major) Translational	Neuroscience (2018))	
	-	y course Translational Ne			
	-	ee (1 major) Translational)	
Supple	mentar	y course Translational Ne	euroscience (2022)		

Module	e title				Abbreviation
Project	Develo	opment			03-TN-PDEV-182-m01
Module	e coord	inator		Module offered by	
Institut	e of Cli	nical Neurobiology		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 seme	ster	graduate			
Conten	Contents				
followi writing	ng topi , readir	cs will be discussed: Plar	ning of a scientific pro nt former lab rotation	oject, Data productio	cientific Grant application. The n, Data evaluation, , scientific Application is written, by each
Intende	ed leari	ning outcomes			
to inver portant and exp	nt a sci aspec perime	entific project and how to ts in terms of preparing, p	o write a grand applic blanning and structur lents are able to critio	ation. Furthermore, s ing a scientific proje cal read and evaluat	rstand important aspects of how students are able to classify im- ect. Based on current knowledge e current publications in neuro-
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
S (2) Module	e taugh	t in: English			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral (d) oral e) pres f) poste	10 to 30 examin examin entatio er accor	mination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) or rding to specific congress ssessment: English	ach (30 to 60 minutes 3 candidates (30 to 60	s) or	Dr
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	6			
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
Module	annea	urs in			
		ee (1 major) Translational	Neuroscience (2018))	
	-	y course Translational Ne		, ,	
Master	's degr	ee (1 major) Translational	Neuroscience (2022)	
Supple	mentar	y course Translational Ne	euroscience (2022)		

Module	Module title Abbreviation					
-	Regeneration in the nervous system 03-TN-PN-172-m01					
Module	e coord	inator		Module offered by		
Departr biology		Neurology, Section of	Developmental Neuro-	Faculty of Medicine		
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
sion, re CIDP, m seases sed on	genera iyasthe III: inh fundar	nts of the PN I: origin, tion and surgical recor enia; clinic and therapy erited NPs (including m nental literature on lect peripheral nerve resea	stitution, physiology a), Diseases II: diabetes odels and attempts for ure-relevant topics to o	nd pathophysiology ; iatrogenic (e.g. vin r treatment approach	, Diseases I: inflamm cristine; clinic and t nes). The literature so	natory (GBS, herapy), Di- eminar is ba-
Intende	ed leari	ning outcomes				
riphera with the Additio have le	l nerve e involv nally, t arned t	successfully complete , physiology and patho vement of peripheral ne hey will have learned h to critically read scienti ability to extract releva	physiology. The studer erves with a focus on th ow to evaluate and pre fic publications in the f	its will have examine the molecular mechar esent data in oral for field of peripheral ne	ed clinical aspects of hisms and therapeut m. In addition, the st	f diseases ical options. tudents will
Course	s (type	, number of weekly con	tact hours, language —	· if other than Germa	n)	
V (o) +	S (0)					
Module	taugh	t in: English				
		essment (type, scope, on on whether module			tion offered — if not	every seme-
b) log (a c) oral e d) oral e) prese	approx examin examin entatio	nination (30 to 60 min . 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	9				
reaciiii	IS CYC	5				
Keierre	αιοιή	LPOI (examination reg	guiations for teaching-o	legree programmes)		
		•				
Module				<u>,</u>		
	-	ee (1 major) Translation				
	-	ee (1 major) Translation y course Translational)		
		Translational Neuroscience		enerated 19-Apr-2025 • exam	reg data re-	page 51 / 71
(2018)	an i majoi			ECTS) Translational Neurosc	-	Pu2c 31 / /1



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		
		pital, 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	on	Module level	Other prerequisites	6		
1 seme	ster	graduate				
Conten	ts					
(e.g. ge orders, disorde with ps selecte ved in t the ana mal mo Intende Studen psychia these d into cur Course V (2)	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)					
a) writt b) oral c) oral e	en exar examin examin	on on whether module nination (30 to 60 min ation of one candidate ation in groups of up to	utes, including multiple each (30 to 60 minute	e choice questions) (es) or	or	
Langua	ge of a	ssessment: English				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir		9				
reaction	is cycl	6				
Keterre	a to in	LPOI (examination reg	guiations for teaching-	uegree programmes)		
Module						
Master' Master'	's degre 's degre	ee (1 major) Translatior ee (1 major) Translatior ee (1 major) Translatior y course Translational	al Neuroscience (2017 al Neuroscience (2018)		
	ith 1 major	Translational Neuroscience		enerated 19-Apr-2025 • exam • ECTS) Translational Neurosc		page 53 / 71
(2018)			Coru Master (120	recto) manstational Neurosc	101100 - 2010	



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

Module title				Abbreviation	
Current findi	ngs in psychiatric neuros	ciences		03-TN-PSYT2-152-m01	
Module coor	dinator		Module offered by	l	
	spital, Department of Psy sychotherapy	chiatry, Psychoso-	Faculty of Medicine		
ECTS Meth	od of grading	Only after succ. con	npl. of module(s)		
5 (not)	successfully completed				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
	e seminar is based on fun lying our present knowled		•	pics to document the experi-	
Intended lea	rning outcomes				
	acquire a theoretical unc ientific results in the field			biology work and will learn how	
Courses (type	e, number of weekly conta	act hours, language –	- if other than Germa	in)	
S (2)	· · · · · · · · · · · · · · · · · · ·				
Module taug	nt in: English				
ster, informa e) presentati	tion on whether module c on (20 to 45 minutes)			ition offered — if not every seme-	
	assessment: English				
Allocation of	places				
Additional in	formation				
Workload					
150 h					
Teaching cyc	le				
Referred to in	LPOI (examination regu	llations for teaching-	degree programmes)		
		0			
Module appe	ars in				
Master's deg Master's deg Master's deg	ree (1 major) Translationa ree (1 major) Translationa	l Neuroscience (2017)		
Master's degree (1 major) Translational Neuroscience (2018) Supplementary course Translational Neuroscience (2018) Master's degree (1 major) Translational Neuroscience (2022)					

Modul	Module title				Abbreviation	
RNA-N	letaboli	smus/ RNA metabolis	n		03-TN-RM-172-m01	
Modul	e coord	inator		Module offered by		
Institu	te of Cli	nical Neurobiology		Faculty of Medicine		
ECTS		od of grading	Only after succ. cor	npl. of module(s)		
5		successfully completed				
Durati		Module level	Other prerequisites	;		
1 seme		graduate				
Conte			41	hat da antha a DNA h		
neuroo vestiga the ba jointly gulatio	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				
based curren learn h will be thome	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.					
Course	es (type	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
S (o) Modul	e taugh	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 examir sentatio	. 10 to 30 pages) or ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (approx	s) or		
Alloca	tion of _l	olaces				
Additi	onal inf	ormation				
Workl	oad					
150 h						
Teach	ing cycl	e				
Referr	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Modul	e appea	ars in				
Maste	r's degr	ee (1 major) Translation	nal Neuroscience (2017 nal Neuroscience (2018			
·		r Translational Neuroscience	JMU Würzburg • g	enerated 19-Apr-2025 • exam DECTS) Translational Neurosc	-	page 56 / 71



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

Module title A					Abbreviation
Tutorial 1					03-TN-TU-1-152-m01
Module coordinator				Module offered by	<u> </u>
prograr	nme co	oordinator		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
		as tutors. They support actical courses.	teaching and are invo	olved 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, s to students.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)
T (1) Module	e taugh	t in: English			
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (a c) oral e d) oral e) prese	approx examin examir entatio	mination (30 to 60 minut . 10 to 30 pages) or ation of one candidate en ation in groups of up to 3 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				
90 h					
Teachir	ıg cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Translationa	l Neuroscience (2015)		
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa)	
		y course Translational Ne			
		ee (1 major) Translational)	
Supple	Supplementary course Translational Neuroscience (2022)				

Module title					Abbreviation
Tutorial 2					03-TN-TU-2-152-m01
Module coordinator				Module offered by	
program	nme co	oordinator		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				
		as tutors. They support actical courses.	teaching and are invo	olved in the organisa	tion and planning of lectures, se-
Intende	ed lear	ning outcomes			
		rn how to convey comple to organise and plan the		<i>i</i>	a group of students. In addition, to students.
		, number of weekly conta			
T (2)		t in: English	, , , ,		·
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral d) oral e) pres	approx examin examir entatio	mination (30 to 60 minut . 10 to 30 pages) or ation of one candidate en ation in groups of up to 3 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				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Translationa	l Neuroscience (2015)		
	-	ee (1 major) Translationa			
	-	ee (1 major) Translationa)	
		y course Translational Ne			
		ee (1 major) Translationa)	
Supple	Supplementary course Translational Neuroscience (2022)				

Module title A				Abbreviation			
	chology				06-TN-BPSY1-152-m	101	
Module coordinator Module offered				Module offered by			
		Chair of Psychology I		Institute of Psychol	ogy		
ECTS	î	od of grading	Only after succ. con	npl. of module(s)			
5	L	rical grade					
Duratio		Module level	Other prerequisites				
1 seme		graduate					
Conten							
cience. assess gnetic trol, cli fundan proach the acc Intendo Studen concep biopsy cal reso basis. cholog Course V (2)	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) V (2)						
ster, in a) writt	formati en exar	on on whether module nination (30 to 60 min	language — if other th can be chosen to earn utes, including multipl	a bonus) e choice questions) (every seme-	
,			e each (30 to 60 minute o 3 candidates (approx	,			
Allocat				2			
	· · · ·						
Additio	onal info	ormation					
Worklo	ad						
150 h							
-	ng cycl	a					
Referre	d to in	IPOI (examination re	gulations for teaching-	degree programmes)			
Referre							
Module	e appea	rs in					
			nal Neuroscience (2015)			
	Master's degree (1 major) Translational Neuroscience (2017)						
Master	Master's degree (1 major) Translational Neuroscience (2018)						
	Supplementary course Translational Neuroscience (2018)						
			nal Neuroscience (2022	2)			
		y course Translational		enerated 19-Apr-2025 • exam	rog data ra	page 60 / 71	
(2018)	iai i majul			ECTS) Translational Neurosc	-	page 00 / /1	

Module title	Abbreviation						
Biopsychology 2 06-TN-BPSY2-152-m01							
Module coordinator	Module offered by						
holder of the Chair of Psychology I		Institute of Psychol	ogy				
ECTS Method of grading	Only after succ. con	npl. of module(s)					
5 (not) successfully completed							
Duration Module level	Other prerequisites						
1 semester graduate							
Contents							
cience. The following topics will be dis assessments, eye-tracking, autonomic gnetic resonance imaging), emotion a trol, clinical aspects (e.g., anxiety disc fundamental and current literature on	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,						
Intended learning outcomes							
Students who successfully completed concepts in biopsychology and cognit biopsychological data and they can se cal research questions. They are famil basis. Based on this knowledge, stud- chology and cognitive neuroscience a	ive neuroscience. Fur elect appropriate non- iar with general psych ents are able to critica	thermore, students a invasive techniques iological concepts ar Il read and evaluate	re able to describe and interpret to address specific psychologi- nd know about their biological current publications in biopsy-				
Courses (type, number of weekly cont	act hours, language –	- if other than Germa	in)				
S (2)			-				
Method of assessment (type, scope, l ster, information on whether module of			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 reg	ulations for toaching	dograa programmac)					
		legree programmes)					
Module appears in)					
Master's degree (1 major) Translationa Master's degree (1 major) Translationa	-						
Master's degree (1 major) Translationa							
		,					
)	Supplementary course Translational Neuroscience (2018)				
Master's degree (1 major) Translational Neuroscience (2022) Supplementary course Translational Neuroscience (2022)							

Module title					Abbreviation			
Electro	Electrophysiology in human and animals 06-TN-EPHY-182-mo1							
Modul	e coord	inator		Module offered by	-			
Depart	ment of	f Neurology, Departmer	nt of Neurosurgery	Faculty of Medicine	1			
ECTS	-	od of grading	Only after succ. con	npl. of module(s)				
5	<u> </u>	successfully completed						
Duratio		Module level	Other prerequisites					
1 seme		graduate						
Beside animal ral ana which	s a deta model lysis of plays a	ailed theoretical introdus, this module will allowed allowe	w to apply analysis to t gnals but also on a fre l as well as higher-leve	hese different types quency based analys l cognitive functions	of data. It will focus sis, i.e. oscillatory br . Different electrophy	on tempo- ain activity,		
Intend	ed lear	ning outcomes						
technie experie module rent kie spikes	ques an ence wi e will al nds of e to the l	vill give a detailed theo d the resulting data ob th such data, namely m low students to learn a electrophysiological dat ocal field, from human ulate translational thin	tained in human and a nulti-electrode recordin nalysis techniques and ta. The recording and a to the animal model, f	nimal brain recordin gs, ECoG recordings d understand the info nalysis methods inti	gs. Through hands-o and EEG/ MEG recor ormation content of roduced can build a	on analysis dings, the these diffe- bridge from		
Course	es (type	, number of weekly con	tact hours, language –	- if other than Germa	ın)			
S (2)		t in: English			,			
		essment (type, scope, on on whether module			tion offered — if not	every seme-		
b) log c) oral d) oral e) pres f) post	(10 to 3 examin examir entatio er accor	mination (30 to 60 min o pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes) or rding to specific congre ssessment: English	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or			
	tion of p							
Additio	onal inf	ormation						
Worklo	ad							
150 h								
Teachi	ng cycl	e						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)							
Modul	Module appears in							
		ee (1 major) Translation	al Neuroscience (2018)				
		y course Translational						
Master	's degr	ee (1 major) Translation	al Neuroscience (2022	2)				
Master's w (2018)	ith 1 majo	Translational Neuroscience		enerated 19-Apr-2025 • exam ECTS) Translational Neurosc	-	page 62 / 71		



Supplementary course Translational Neuroscience (2022)

Module title Abbreviation					Abbreviation			
Gradua	ate Prog	gram Seminar Neuroscier	ICES 1		07-MLSGP-NS1-152-m01			
Module	Module coordinator Module offered by							
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology				
ECTS		od of grading	Only after succ. con					
5	(not)	successfully completed						
Duratio	on	Module level	Other prerequisites					
1 seme	ster	graduate						
Conten	ts							
					vel/current methods as well as			
		research with relevance to	o the current program	ime/topics of the re	search group.			
Intend	ed lear	ning outcomes						
Studen rent me			g edge research in th	eir field as well as a	n understanding of new and cur-			
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)			
S (2)								
Module	e taugh	t in: English						
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-			
		on (20 to 45 minutes) Issessment: English						
Allocat								
Additio	onal inf	ormation						
Worklo	ad							
150 h								
Teachi	ng cycl	e						
	- /							
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)			
		, o		<u> </u>	·			
Module	e appea	ars in						
		ee (1 major) FOKUS Life S	ciences (2015)					
	Master's degree (1 major) Translational Neuroscience (2015)							
Master	Master's degree (1 major) Translational Neuroscience (2017)							
Master	Master's degree (1 major) Translational Neuroscience (2018)							
Master	's degr	ee (1 major) Translational	Neuroscience (2022	Master's degree (1 major) Translational Neuroscience (2022)				

Modul	Module title Abbreviation					
Gradua	ate Prog	gram Seminar Neuroscier	nces 2		07-MLSGP-NS2-152-m01	
Modul	Module coordinator			Module offered by		
Dean o	of Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed				
Durati	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
		speakers present and dis research with relevance t			/el/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	an)	
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	places				
Additi	onal inf	ormation				
Workle	oad					
150 h			-			
Teachi	ing cycl	e				
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Modul	e appea	ars in				
		ee (1 major) Translationa	l Neuroscience (2015)		
Maste	Master's degree (1 major) Translational Neuroscience (2017)					
	-	ee (1 major) Translationa				
Maste	Master's degree (1 major) Translational Neuroscience (2022)					

Module title Abbreviation						
Resear	ch Gro	up Seminar Neuroscience	es 1		07-MLSRG-NS1-152-m01	
Module	Module coordinator Module offered by					
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS		od of grading	Only after succ. con			
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	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	discussion skills as well as	
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
S (2)						
Module	e taugh	t in: English				
		sessment (type, scope, la on on whether module ca			ation offered — if not every seme-	
		n (20 to 45 minutes) ssessment: English				
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cvcl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-	degree programmes		
				203.00 p.03.00)		
Module	annes	urs in				
		ee (1 major) FOKUS Life S	ciences (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)						
	's degr	ee (1 major) Translationa				

Module title Abbreviation						
Resear	ch Gro	up Seminar Neuroscience	25 2		07-MLSRG-NS2-152-m01	
Module	Module coordinator Module offered by					
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	1	od of grading	Only after succ. con	, -,		
5	(not)	successfully completed				
Duratio	on	Module level	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	ice, ability to critical	ly read, present and discuss the	
Course	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-	legree programmes)		
				_ , _ ,		
Module	e appea	ars in				
		ee (1 major) Translationa	l Neuroscience (2015)		
Master's degree (1 major) Translational Neuroscience (2017)						
	•	ee (1 major) Translationa	-			
Master	's degr	ee (1 major) Translationa	l Neuroscience (2022)		

Module title Abbreviation						
Retreat Neurosciences 1 07-MLSRNS1-152-m01					07-MLSRNS1-152-m01	
Module	a coord	inator		Module offered by	<u> </u>	
		es Biologie (Biology)		Faculty of Biology		
ECTS	1	od of grading	Only after succ. con			
5		successfully completed				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten		Siddade	<u> </u>			
and the pervise	eir disc ors/exa	ussion in the research co mination committee and	mmunity. Discussior		alk. Critical evaluation of results nterim progress reports with su-	
Intende	ed lear	ning outcomes				
		skills, (oral) presentation e field, troubleshooting s			s taking into consideration current orts.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)	
S (2) Module	e taugh	t in: English				
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-	
		n (20 to 45 minutes) ssessment: English				
Allocat	ion of j	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) FOKUS Life S	ciences (2015)			
	-	ee (1 major) Translational	-)		
	Master's degree (1 major) Translational Neuroscience (2017)					
	-	ee (1 major) Translationa				
Master	's degr	ee (1 major) Translationa	Neuroscience (2022	2)		

Module title Abbreviation						
Retreat Neurosciences 2 07-MLSRNS2-152-mo1						
Modul	e coord	linator		Module offered by	<u> </u>	
Dean o	of Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Ť	od of grading	Only after succ. con			
5	(not)	successfully completed				
Durati	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
and th	eir disc		mmunity. Discussior		Ik. 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	n (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				
	Master's degree (1 major) Translational Neuroscience (2018)					
Maste	r's degr	ee (1 major) Translationa	l Neuroscience (2022	2)		

Module title Abbreviation					Abbreviation	
Works	nop Ne	urosciences 1			07-MLSWS-NS1-152-m01	
Module	e coord	inator		Module offered by	ļ	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
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					
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	,			
Studen	its acqu	uire proficiency in those r	nethods and techniq	ues that are required	d in their lab projects.	
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	an)	
W (2) Module	e taugh	t in: English				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
e) pres Studen	entatio Its will	nation in groups of up to g n (20 to 45 minutes) be informed about the m ssessment: English		-		
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-o	legree programmes)		
Module	e appea	ars in				
		ee (1 major) FOKUS Life S	ciences (2015)			
	Master's degree (1 major) Translational Neuroscience (2015)					
	-	ee (1 major) Translationa				
	-	ee (1 major) Translationa				
Master	's degr	ee (1 major) Translationa	l Neuroscience (2022)		

Module title					Abbreviation
Workshop Neurosciences 2 07-MLSWS-NS2-152-mo1					
Module coordinator				Module offered by	
Dean of Studies Biologie (Biology)				Faculty of Biology	
ECTS	Meth	od of grading	Only after succ. compl. of module(s)		
5	(not)	successfully completed			
Duration Module level			Other prerequisites		
1 semester graduate		graduate			
Conter	nts				
Discussion of current methods and techniques required in lab projects. Insights into and training in novel me- thods.					
Intended learning outcomes					
Students acquire proficiency in those methods and techniques that are required in their lab projects.					
Courses (type, number of weekly contact hours, language $-$ if other than German)					
W (2)					
c) oral d) oral e) pres Allocat	examin examin sentatio tion of J	. 10 to 30 pages) or ation of one candidate en nation in groups of up to 3 n (20 to 45 minutes) places ormation		-	or
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears 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)	