

DFG-Graduiertenkolleg GRK2599

Fine-Tuners of Adaptive Immune Responses

Friedrich-Alexander-Universität
Erlangen-Nürnberg



Fast Track-Promotion

für Bewerbende mit biomedizinischen Bachelorabschlüssen

DFG

Deutsche
Forschungsgemeinschaft

Bewerbung: ab 1. März 2022

Frist: 4. April 2022

Interview: 1.- 4. Mai 2022

Beginn: 26. September 2022

DFG-Graduiertenkolleg GRK2599

Fine-Tuners of Adaptive Immune Responses

Friedrich-Alexander-Universität
Erlangen-Nürnberg



Fast Track Docotoral Program

for applicants with Bachelor's degrees in biomedical sciences

DFG

Deutsche
Forschungsgemeinschaft

Online Application: starting 1. March 2022

Deadline: 4. April 2022

Interview: 1.- 4. Mai 2022

Start: 26. September 2022

Research Training Group 2599

FAIR – Fine-Tuners of the Adaptive Immune Response



Concept

Hans-Martin Jäck



Universitätsklinikum
Erlangen



FAU FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

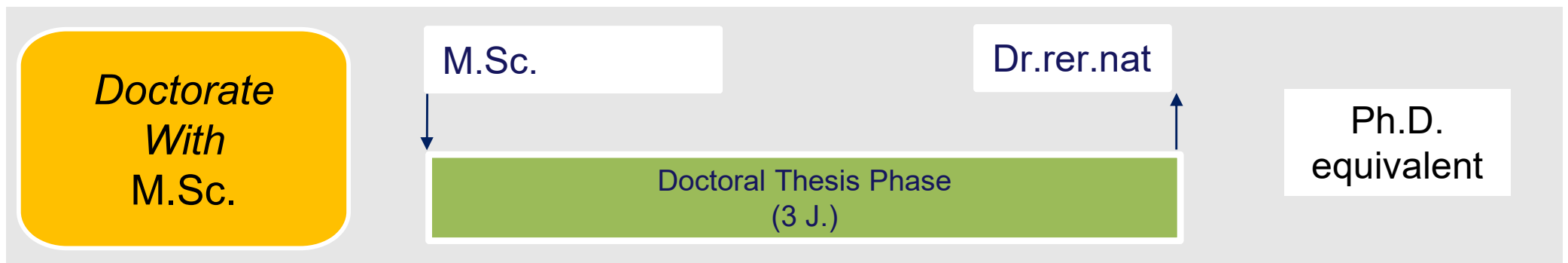


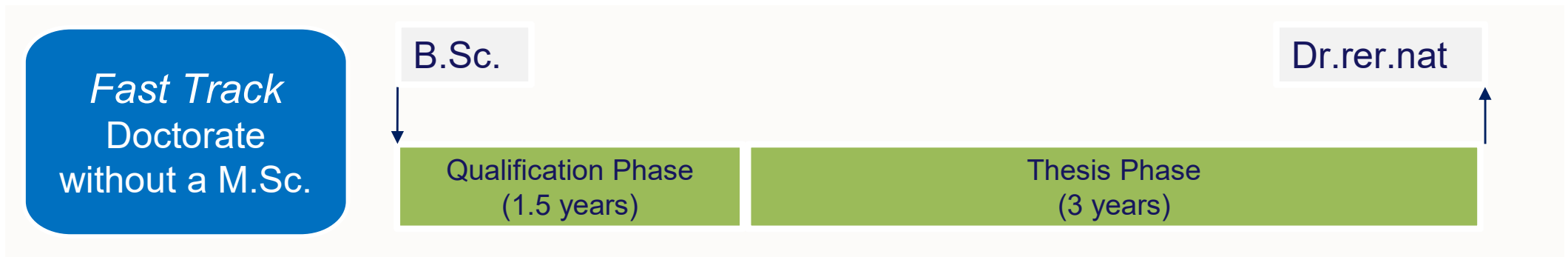
Deutsche
Forschungsgemeinschaft

Doctoral Training Program

Research Training Group = RTG
Graduiertenkolleg = GRK

- Research
- Training
- Mentoring





Short-term

- Recruitment of excellent students
- Better preparation for the doctoral phase
- Maintaining the quality standards of education
- Shorter transition periods between the qualification phase and start of the doctoral thesis
 - *Shortening of the doctoral phase*
 - *Achievement of the research goal*

Long-term

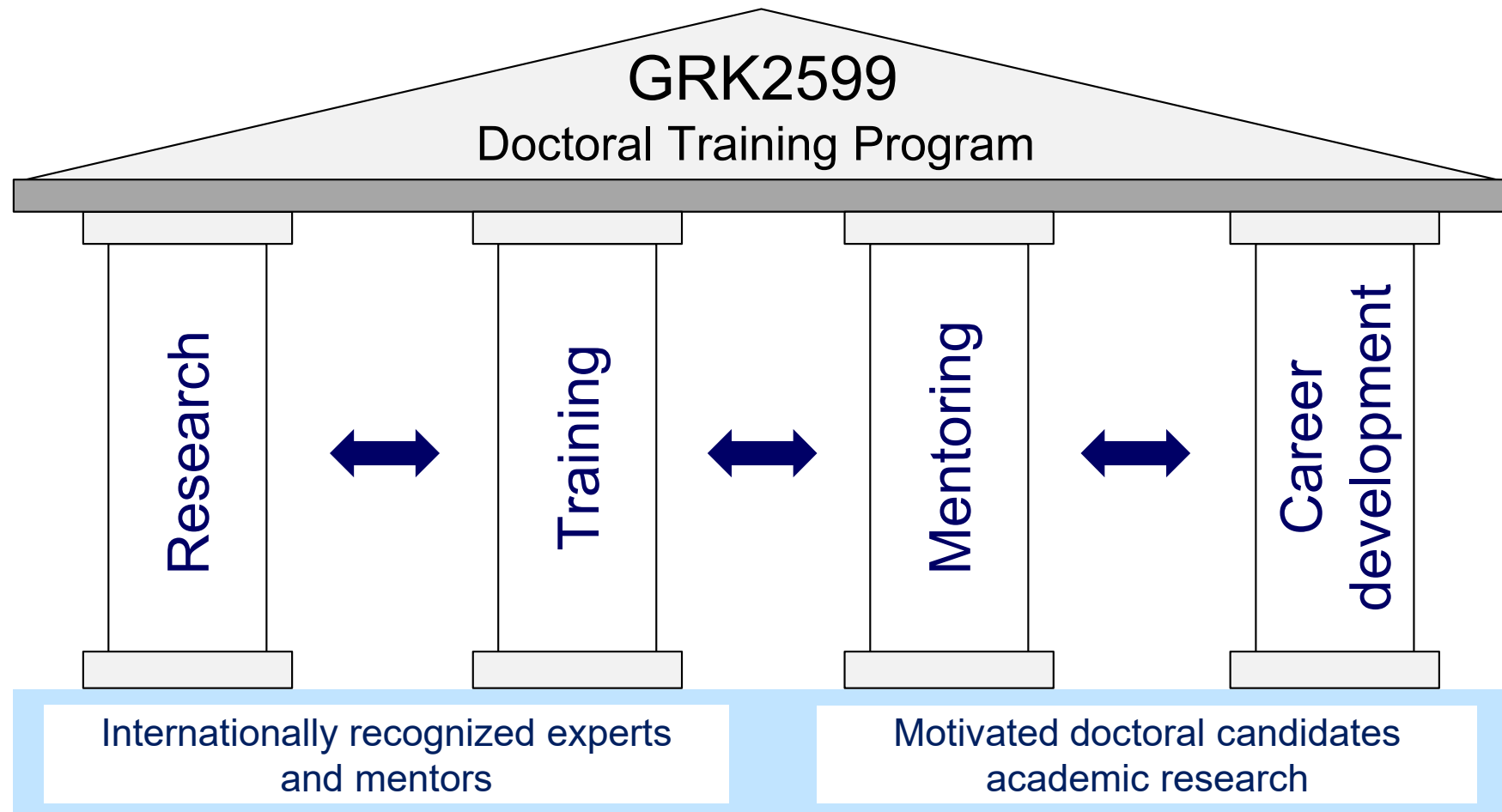
- Increased international competitiveness
- Better trained young scientists
- Advancement and increased international visibility of the local and national research community

Identify new regulators
and fine-tuners of the
adaptive immune
response

Train skilled &
competitive
immunologists

Motivate graduates to
further pursue
academic research

Train physicians who
can translate laboratory
discovery into effective
treatments





3

Genetics



3

Medicine 3

Rheumatology and Immunology

1

Dermatology

2

Medicine 1

Gastroenterology, Pneumology & Endocrinology

1

Microbiology

Clinical Microbiology, Immunology & Hygiene

1

Radiation Oncology

1

Infection Biology

2

Molecular Immunology

1

Immune Modulation

1. Dudziak, Diana
2. Gaipf, Udo
3. Jäck, Hans-Martin
4. Krönke, Gerhard
5. Lang, Roland
6. Mielenz, Dirk
7. Nitschke, Lars
8. Steinkasserer, Alexander
9. Vöhringer, David
10. Winkler, Thomas
11. Wirtz, Stefan
12. Hildner, Kai
13. Bozec, Aline
14. Steffen, Ulrike
15. Lux, Anja

■ 15 Researchers

- ✓ 3 from the Depart. of Biology
- ✓ 12 from 8 clinics and institutes at the university hospital

■ Selection Criteria

- ✓ Fine-tuners of adaptive immunity
- ✓ Publications
- ✓ Extramural funding
- ✓ Teaching experience

<https://www.fau.eu/research/>

Department of Clinical Microbiology

- Lang
- Vöhringer

Internal Medicine 3

- Bozek
- Krönke
- Steffen

Radiation Biology

- Gaipl

Nikolaus-Fiebiger Center

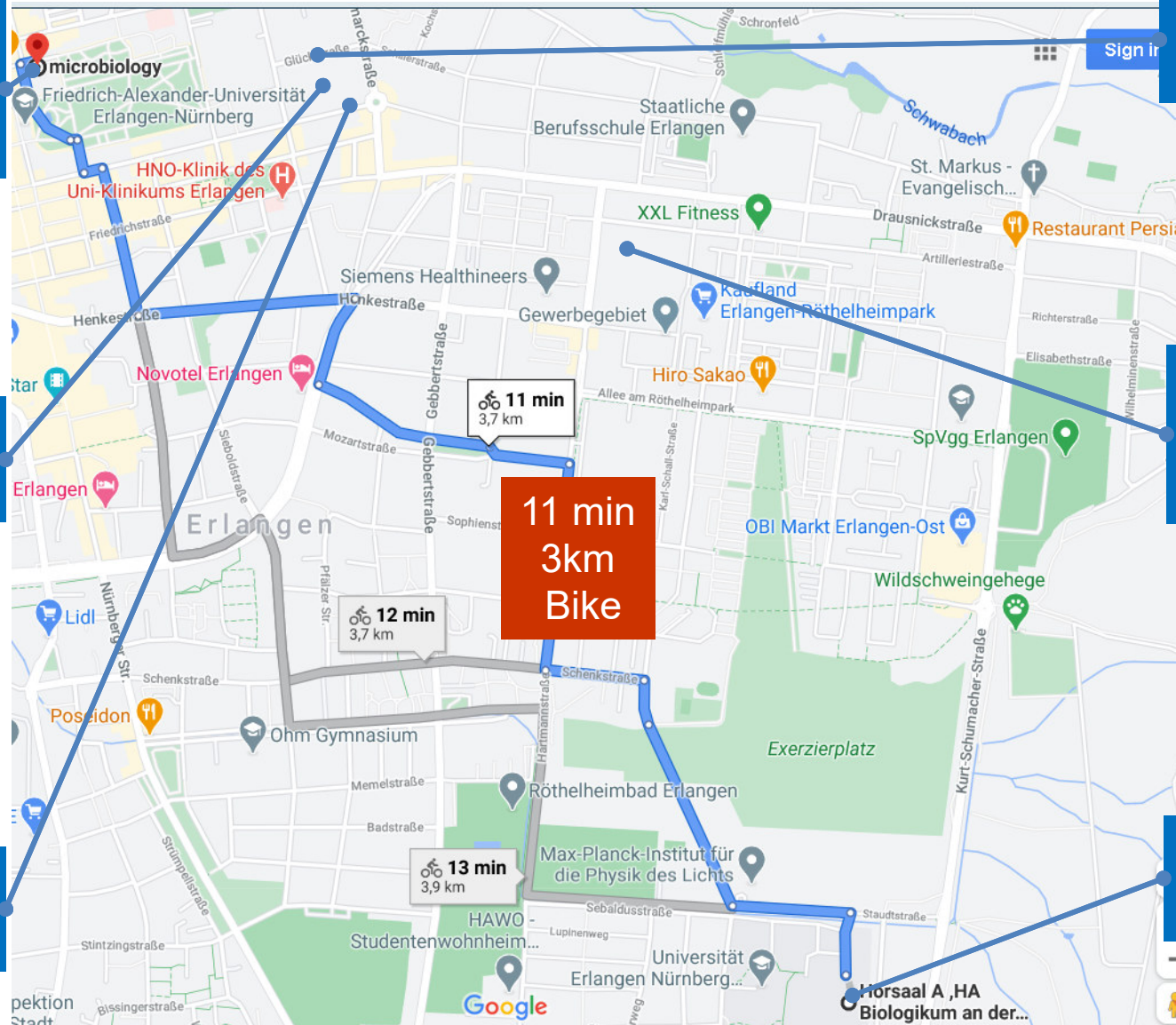
- Jäck
- Mielenz
- Winkler
- GRK office

Kussmaul Research Campus

- Wirtz
- Hildner
- Mougiakakos
- Dudziak
- Steinkasserer

Department of Biology

- Nitsche
- Lux

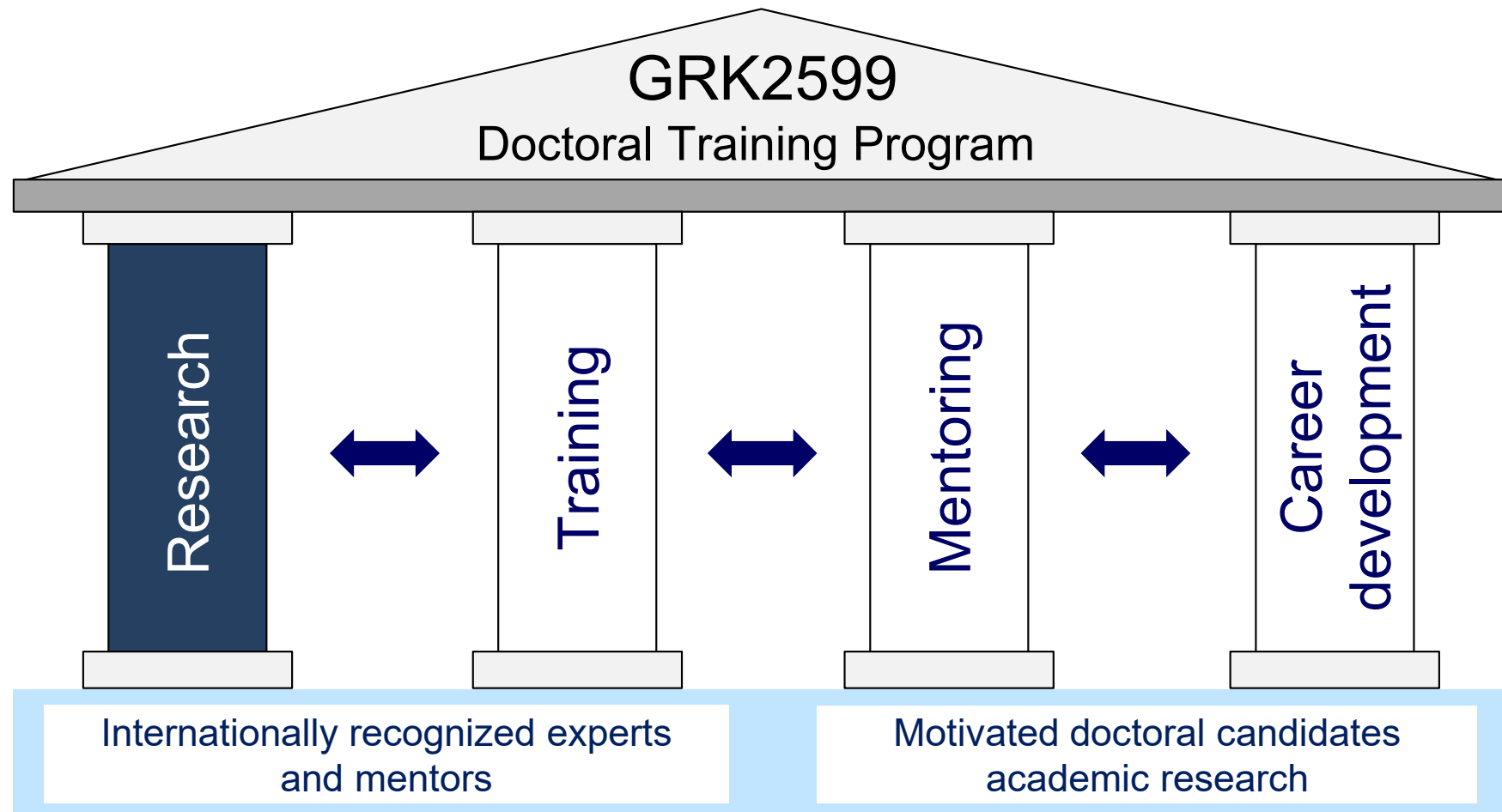


Identify new regulators
and fine-tuners of the
adaptive immune
response

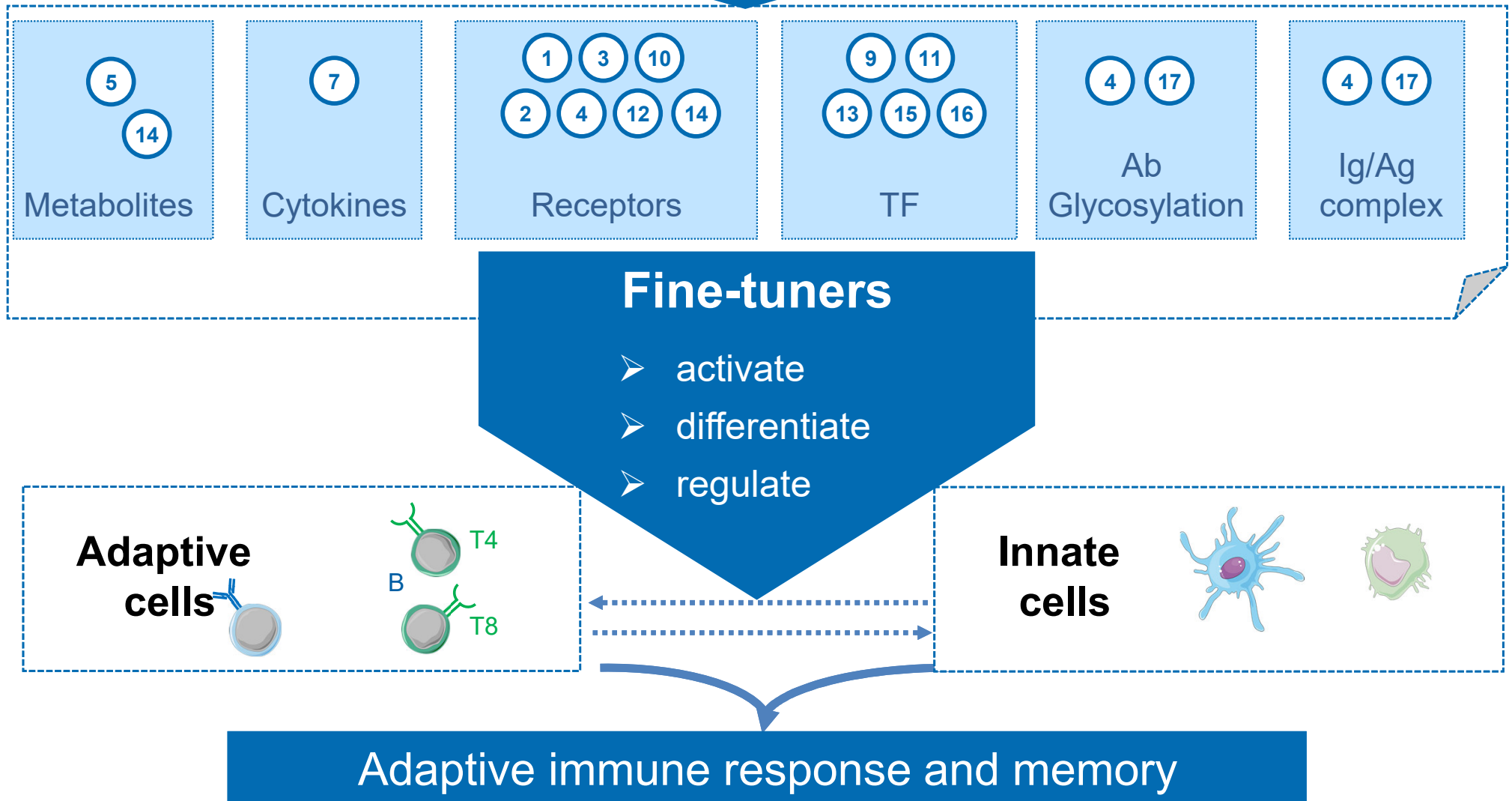
Train skilled &
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immunologists

Motivate graduates to
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academic research

Teach physicians who
can translate laboratory
discovery into effective
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15 hypothesis-driven thesis projects that address the role of factors

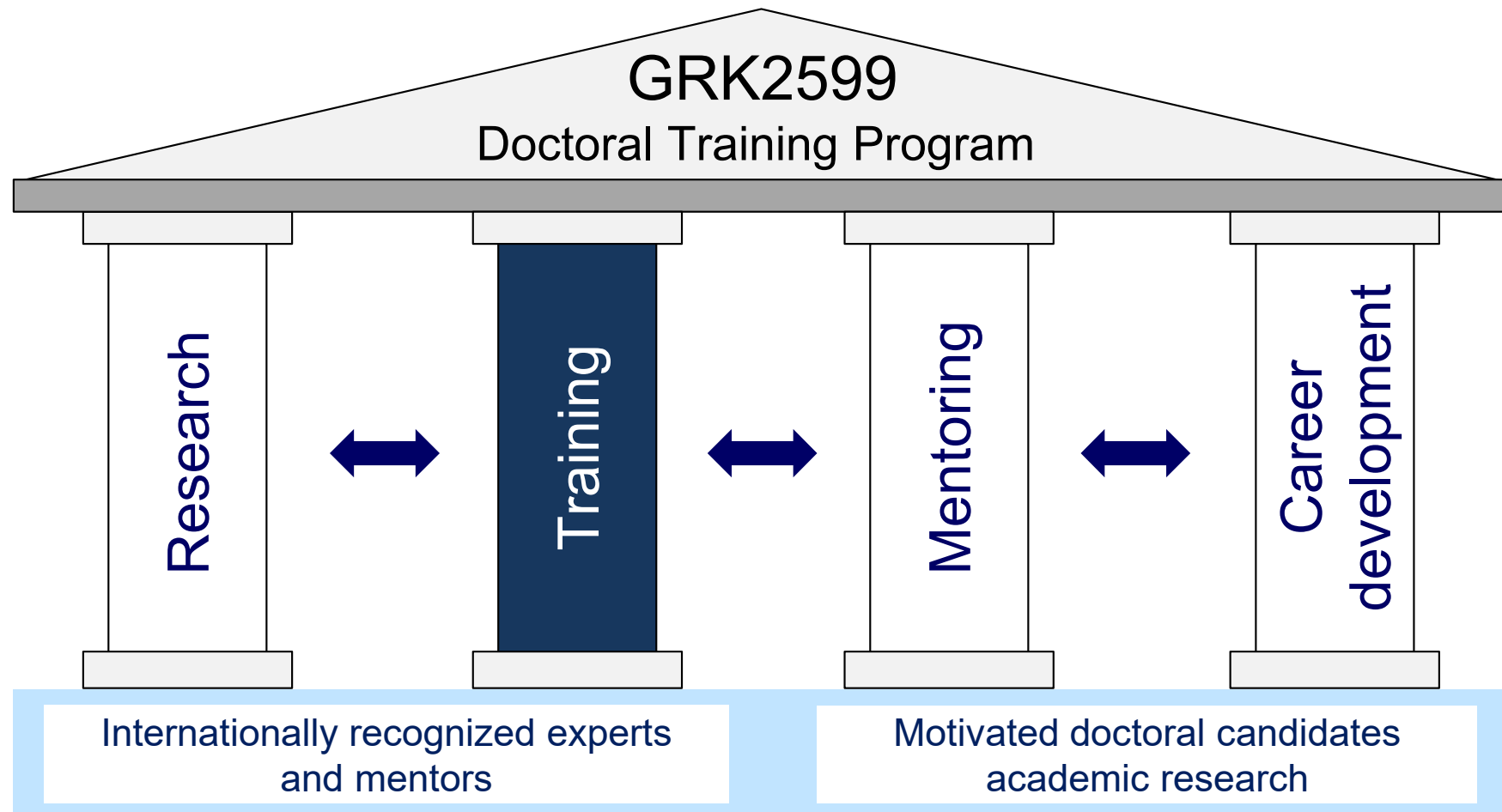


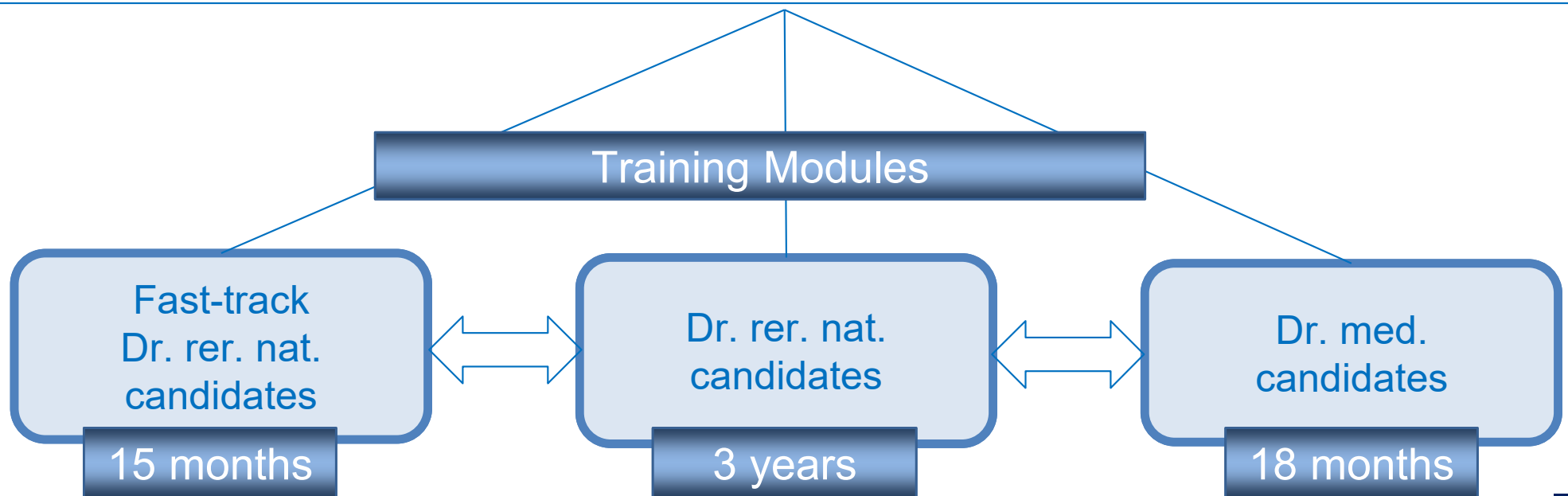
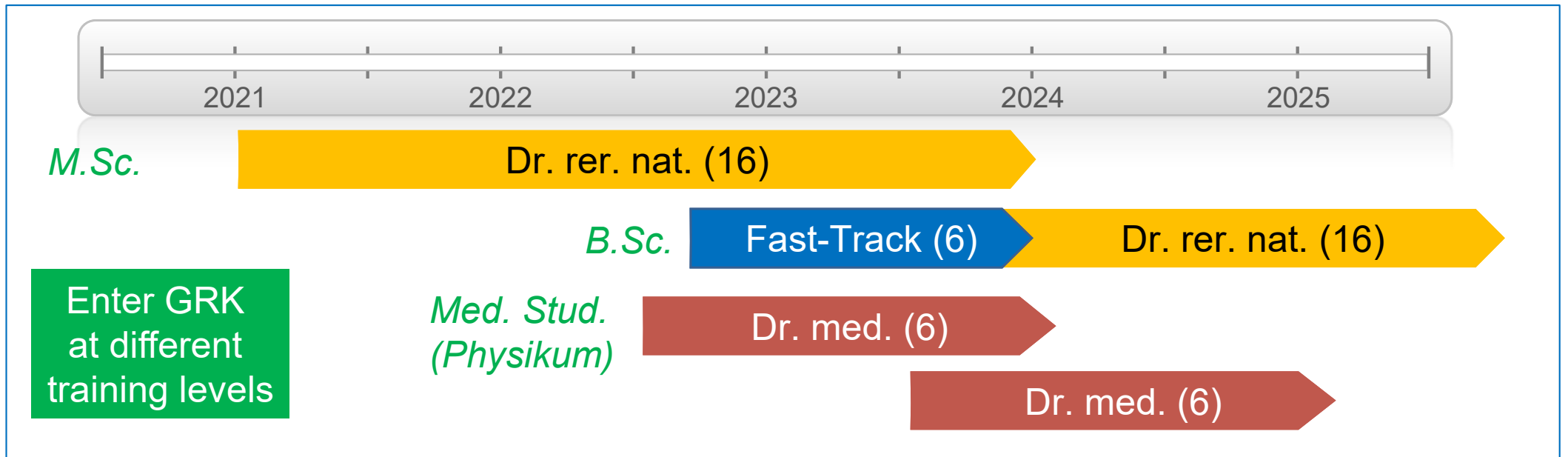
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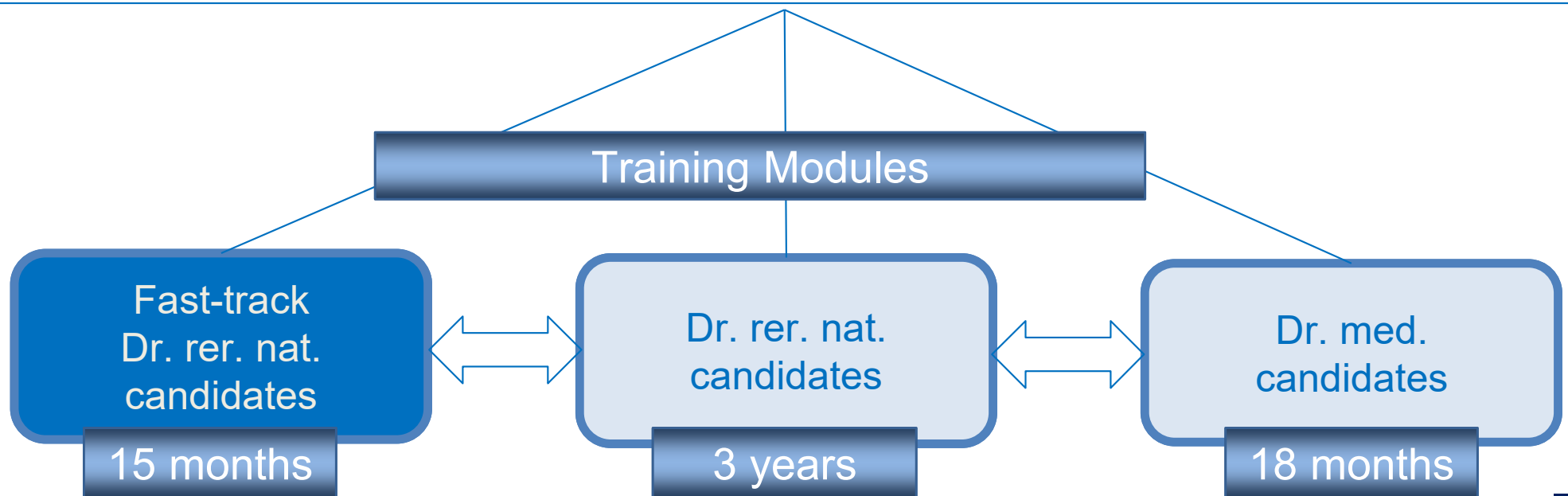
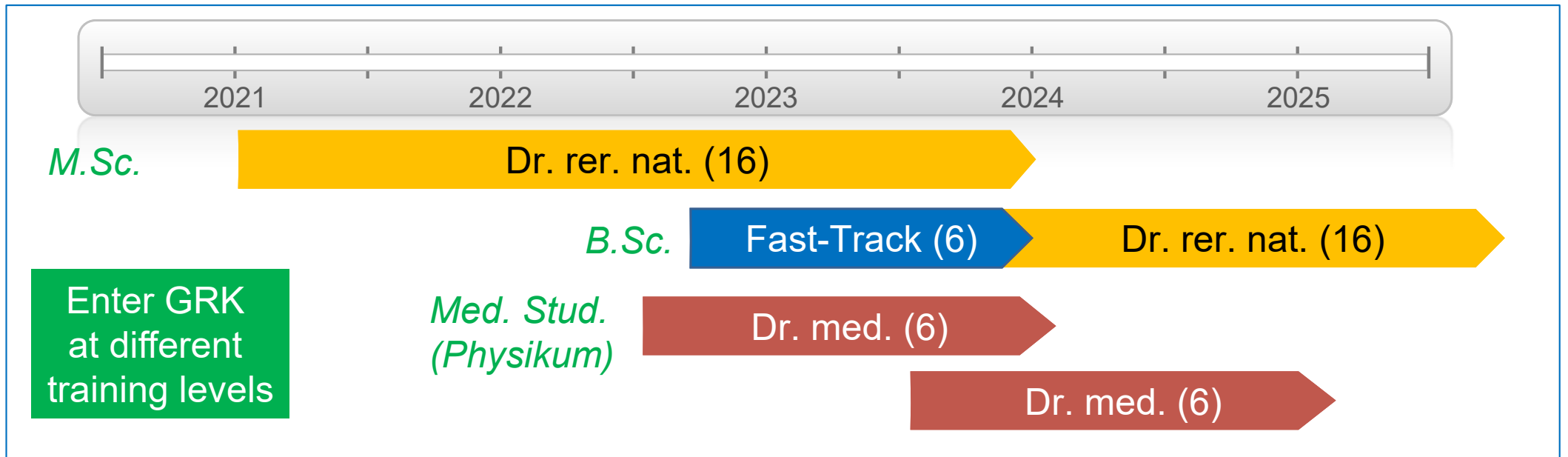
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Produce physicians who
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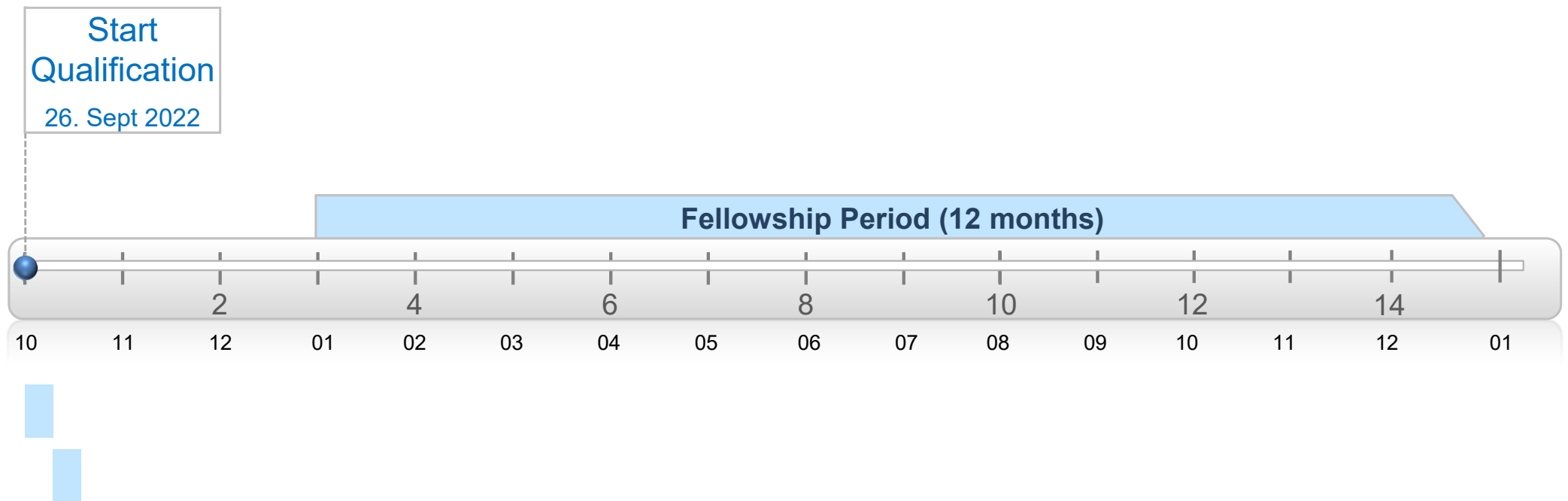






Training Concept – *Fast-Track* candidates

GRK2599
FAIR



Immunology Autumn School

GRK2599
FAIR



DGfI
German Society
for Immunology

Deutsche Gesellschaft für Immunologie

An up-to-date educational journey through the immune system for everyone including STUDENTS, POSTDOCS and GROUP LEADERS with a background in NATURAL SCIENCES or MEDICINE. The program includes lectures by internationally renowned experts, student presentations as well as interactive sessions to meet the speakers and to foster networking within our immunological community.

Application deadline: July 01, 2018
www.herbstschule.de

Key Note
Klaus Heeg (Heidelberg)
Michael Sixt (Austria)
Thorsten Buch (München)
Nigel Kileen (San Francisco)

Faculty
Stefan Bauer
Hyun-Dong Chang
Diana Dudziak
Louis Du Pasquier
Niklas Engels
Ulf Grawunder
Dirk Haller
Jochen Hühn
Ludger Klein
Roland Lang
Axel Roers
Claudia Traidl-Hoffmann
Carsten Watzl

Scientific Organizers
Hans-Martin Jäck
Sandra Beer-Hammer
Olaf Groß
Thomas Kamradt
Birgit Sawitzki
Wolfgang Schuh

Administrative Organizers
Elisabeth Lang • Erlangen
Bettina Happel • Marburg
Agnes Giniewski • Erlangen

10th Autumn School

Current Concepts in Immunology

October 07 - 12, 2018 • Merseburg • Sachsen-Anhalt

10 th Autumn School Current Concepts in Immunology					PROGRAM 2018	
Time	Sunday 07. October	Monday 08. October	Tuesday 09. October	Wednesday 10. October	Thursday 11. October	Friday 12. October
09:00	Arrival & Registration (starting at 3pm)	Hans-Martin Jäck	Diana Dudziak	Wolfgang Schuh	Dirk Haller	Departure
09:30		Overview Immunity (30 min)	How dendritic cells activate T cells (30 min)	How mature B cells develop (30 min)	Microbiome and immunity (30 min)	
09:45		Stefan Bauer	Ludger Klein	Hans-Martin Jäck	Claudia Traidl-Hoffmann	
10:15		How innate immunity protects I (30 min)	How T cells develop (30 min)	How B cells produce antibodies (30 min)	Allergy (30 min)	
10:30		Break	Break	Break	Break	
10:50		Olaf Groß	Hyun-Dong Chang	Hans-Martin Jäck	Birgit Sawitzki	
11:20		How innate immunity protects II (30 min)	Effector CD4 T cells (30 min)	B cells beyond antibodies (30 min)	Metabolism of immune cells (30 min)	
11:35		Axel Roers	Jochen Hühn	Thomas Kamradt	Ulf Grawunder	
12:05		How cells recognize foreign DNA/RNA (30 min)	How T cells regulate immunity (30 min)	Autoimmune diseases (30 min)	Onco-immunology (30 min)	
12:20						
13:00		Lunch & Meet-the-speakers	Lunch & Meet-the-speakers	Lunch & Meet-the-speakers	Lunch & Meet-the-speakers	
14:15		Meet the companies (14:15 - 15:45)	Free time	Free time	Free time	
15:30			Sandra Beer-Hammer	Round Table Discussion Groups	Louis Du Pasquier (Bedroom 15:00)	
16:00		Break	How T cells kill (30 min)	Animal research Moderators: Kamradt/Beer-Hammer	How the immune system evolved (40 min)	
16:15		Roland Lang	Carsten Watzl	Flow cytometry Moderators: Schuh/Chang	TBA	
16:45		Macrophages & Granulocytes (30 min)	How innate lymphocytes help and kill (30 min)	CRISPR/Cas Moderator: Engels/Buch	Special Event	
17:00	Welcome		Break	Break	Break	
17:30	Klaus Heeg	Nigel Kileen	Thorsten Buch	Michael Sixt		
18:15	Discovery of Cytokines (40 min)	Cellular Immunotherapy (40 min)	CRISPR/Cas and Transgenic mice (40 min)	How immune cells move (40 min)		
18:30	Dinner	Dinner & Meet-the-speakers	Dinner & Meet-the-speakers	Dinner & Meet-the-speakers	Dinner & Meet-the-speakers	
20:00	Get together	Poster Session I	Free time	Poster Session II	10 Years Autumn School	
22:00						

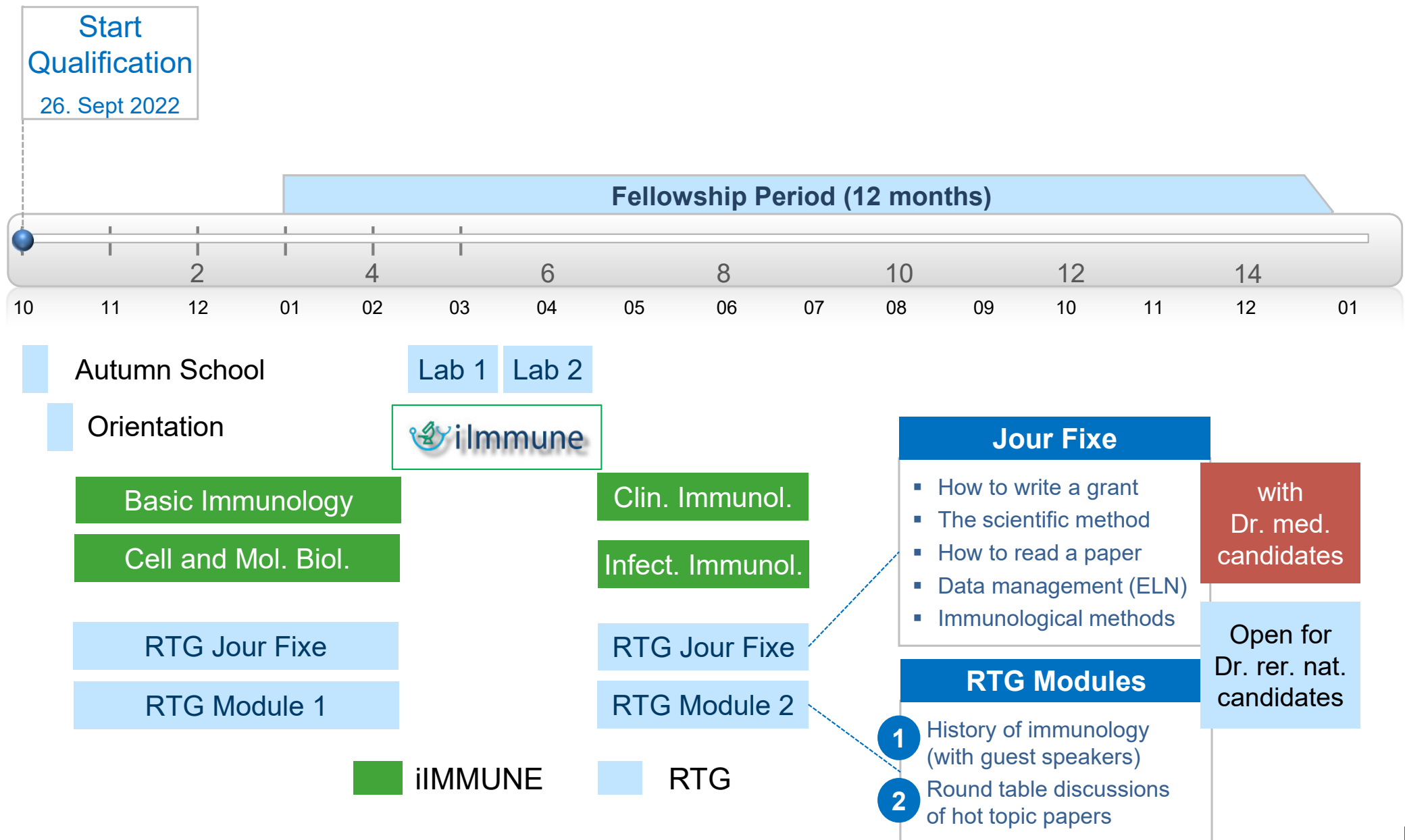
Immunology Autumn School

GRK2599
FAIR

<p>Deutsche Forschungsgemeinschaft</p> <p>An up-to-date overview of the field, with a background in immunology, to foster networking between everyone involved in the field.</p> <p>Key Note</p> <p>Klaus Heeg (Heidelberg), Michael Sixt (Austrian Academy of Sciences), Thorsten Buch (Münster), Nigel Kilean (San Francisco)</p> <p>Faculty</p> <p>Stefan Bauer, Hyun-Dong Chang, Diana Dudziak, Louis Du Pasquier, Niklas Engels, Ulf Grawunder, Dirk Haller, Jochen Hühn, Ludger Klein, Roland Lang, Axel Roers, Claudia Traidl-Hoffmann, Carsten Watzl</p> <p>10th</p> <p>Current</p> <p>October 07</p>	Monday 08. October	Tuesday 09. October	Wednesday 10. October	Thursday 11. October	PROGRAM 2018		
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	Stefan Bauer	Ludger Klein	Hans-Martin Jäck	Claudia Traidl-Hoffmann	Claudia Traidl-Hoffmann	Allergy (30 min)	
	How innate Immunity protects I (30 min)	How T cells develop (30 min)	How B cells produce antibodies (30 min)	Allergy (30 min)	Break	Birgit Sawitzki	
	Break	Break	Break	Break	Metabolism of immune cells (30 min)	Ulf Grawunder	
	Olaf Groß	Hyun-Dong Chang	Hans-Martin Jäck	Birgit Sawitzki	Onco-immunology (30 min)	Lunch & Meet-the-speakers	
	How innate immunity protects II (30 min)	Effector CD4 T cells (30 min)	B cells beyond antibodies (30 min)	Metabolism of immune cells (30 min)	Free time	Louis Du Pasquier (Bedroom 15.00)	
	Axel Roers	Jochen Hühn	Thomas Kamradt	Ulf Grawunder	How the immune system evolved (40 min)	TBA	
	How cells recognize foreign DNA/RNA (30 min)	How T cells regulate immunity (30 min)	Autoimmune diseases (30 min)	Onco-immunology (30 min)	Special Event	Break	
					Dinner & Meet-the-speakers	10 Years Autumn School	

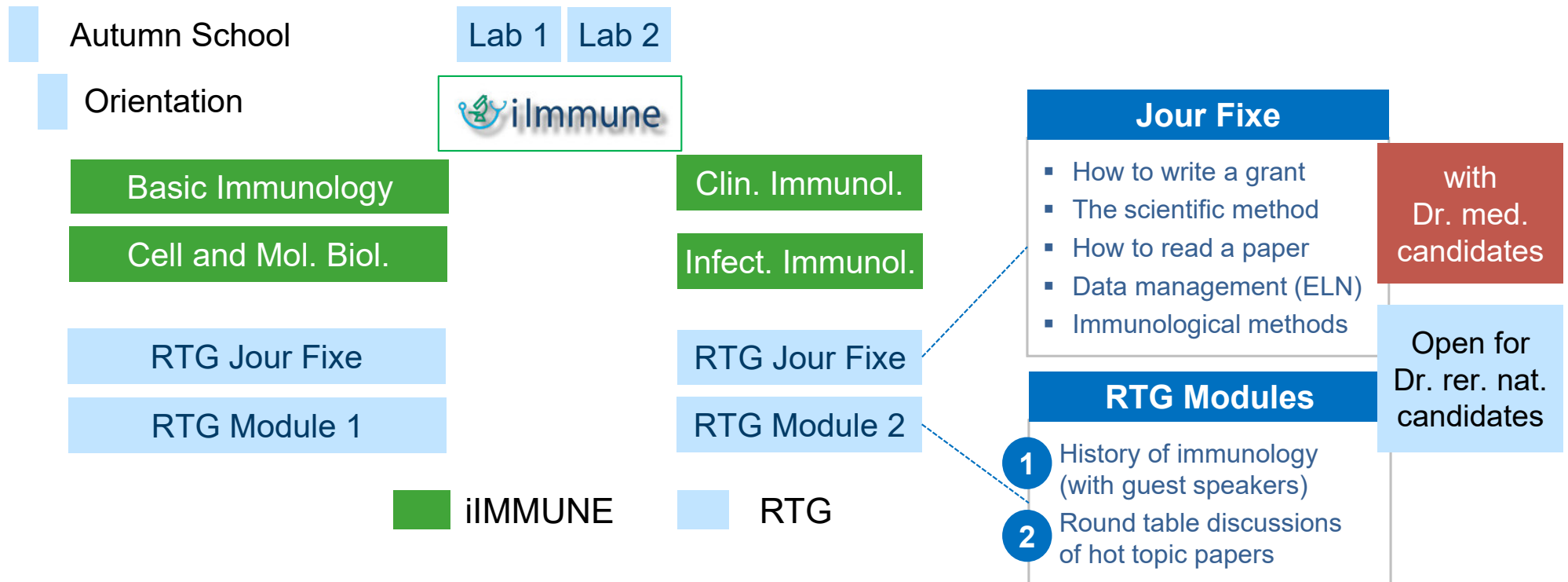
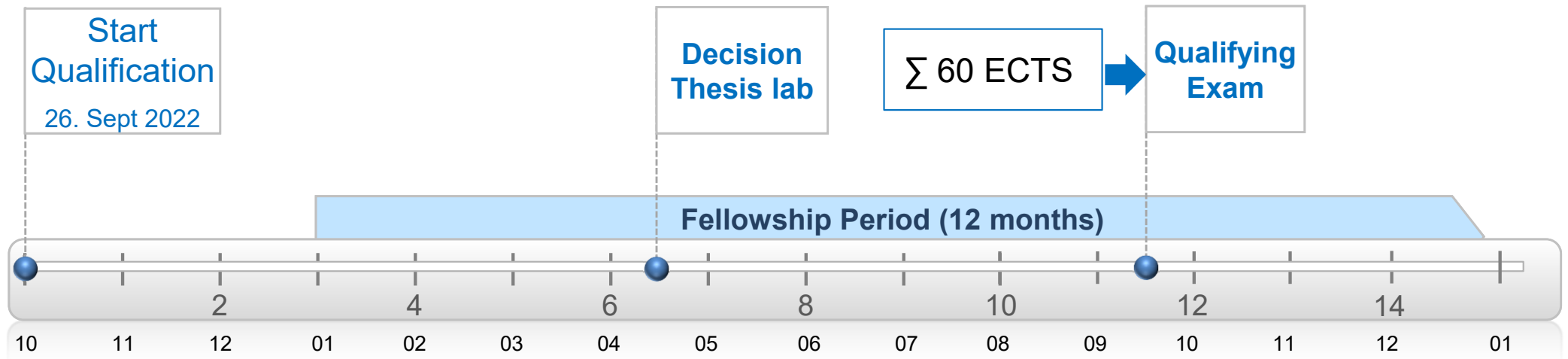
Training Concept – *Fast-Track candidates*

GRK2599
FAIR



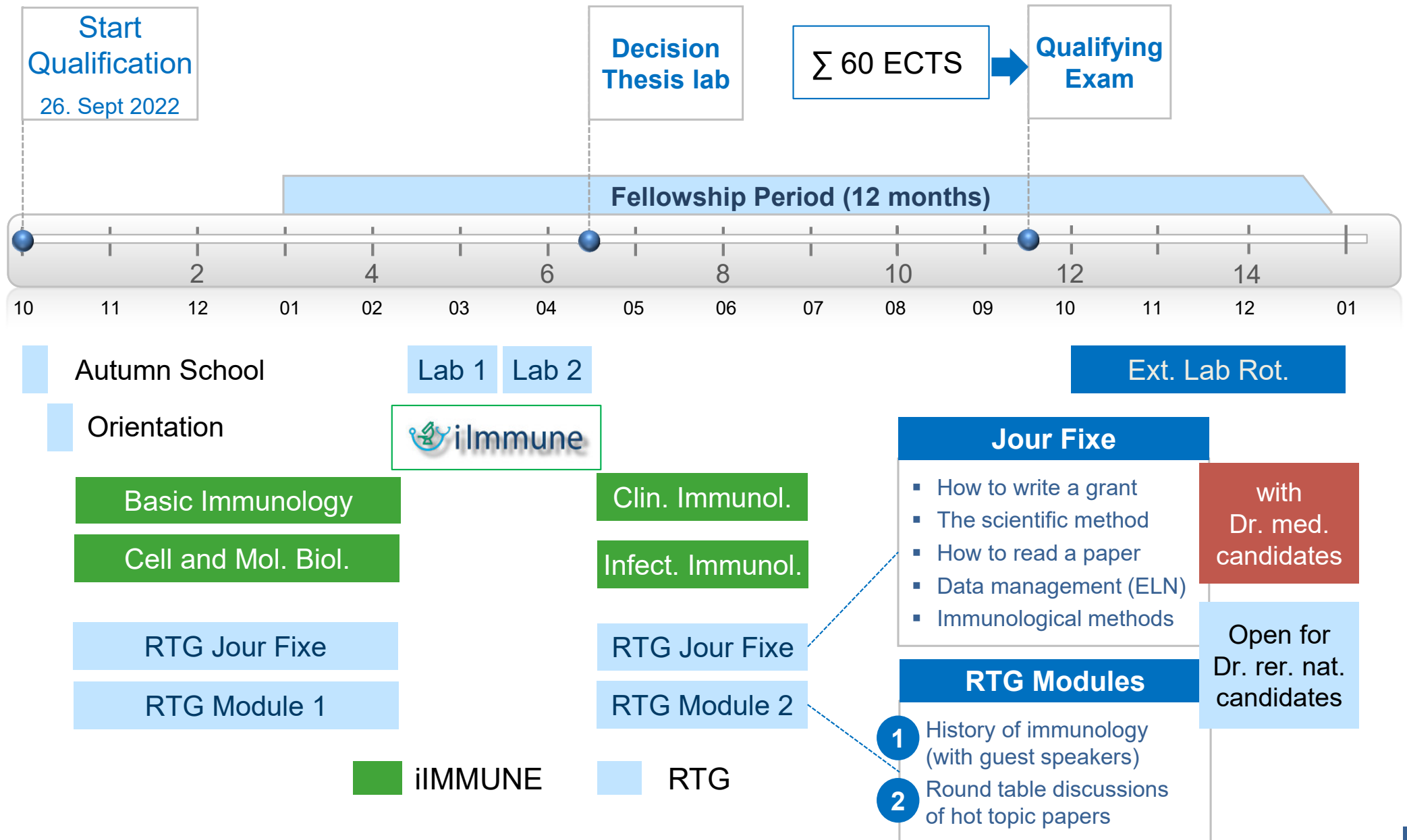
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EXTERNAL LAB ROTATIONS: International Partners

38

Europe (19)

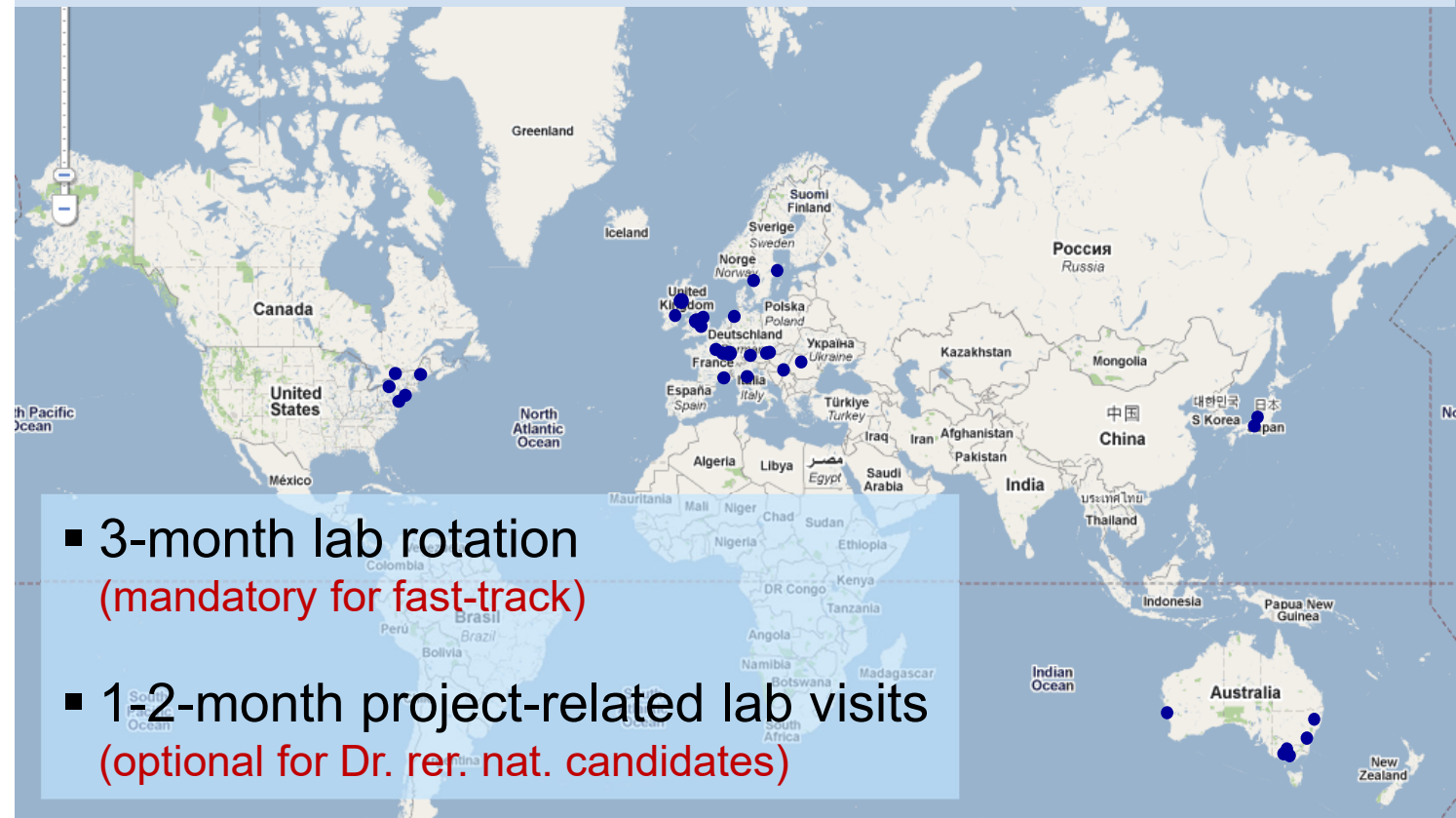
USA (5)

Japan (2)

Australia (10)

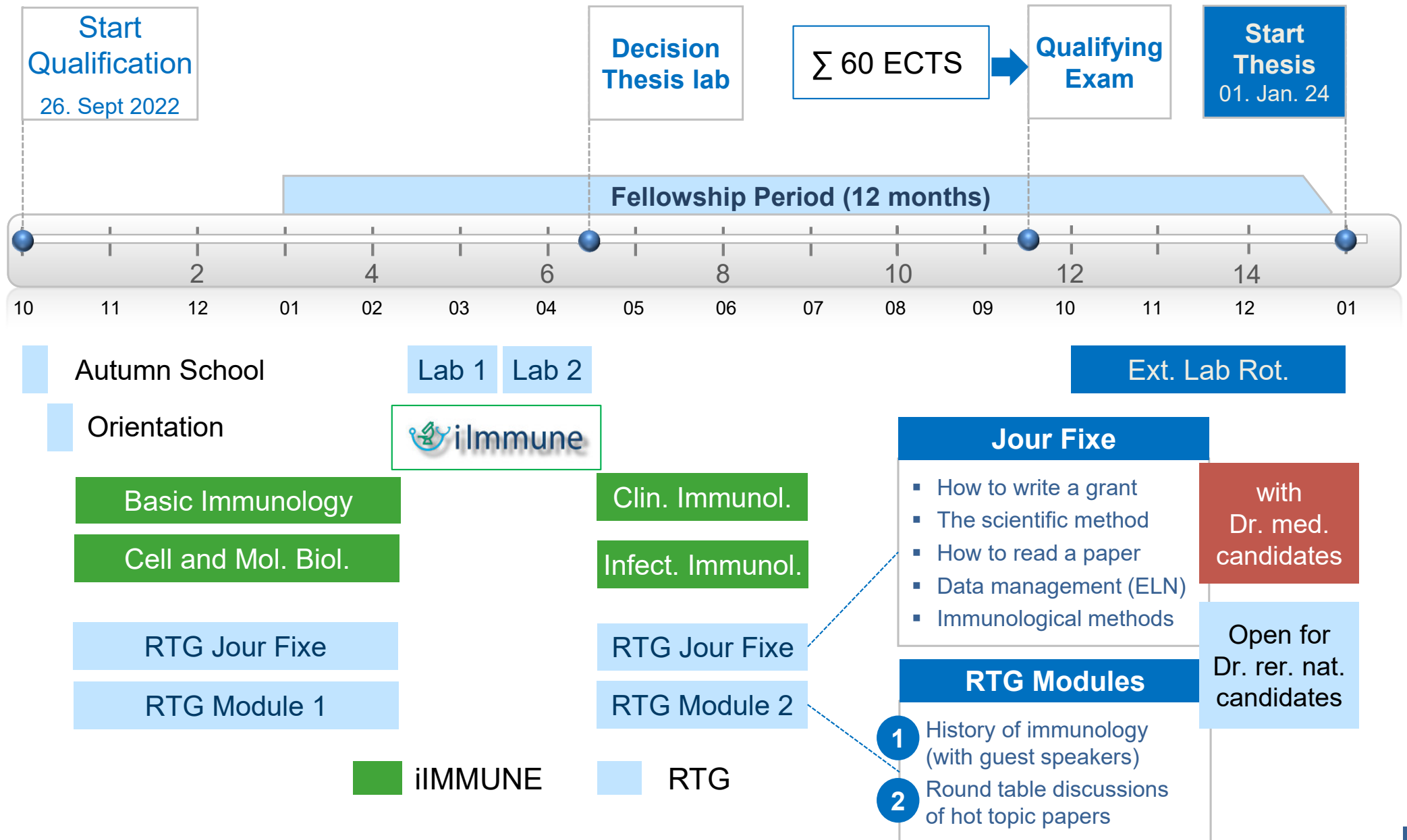
Canada (2)

RTG2599 - Financed External Lab Rotations



Training Concept – *Fast-Track* candidates

GRK2599
FAIR



Workload (obligatory)

- 2-3 hrs/wk
- 10-12 days

1st year / 2nd cohort

Start
1. Jan.
2024

Defend
Thesis
Topic



Paul-Ehrlich Club (2hrs)

Grant writing (2d)

RTG Network (3d)

Autumn School

Retreat (3d)

obligatory

Workshop 1 (2d)

Workshop 2 (2d)

optional

Course (1d)

DOI (1d)

Mini Symposium (1d)

Paul-Ehrlich Club

- Guest speakers
- Discuss hot papers
- Organize events, e.g., DOI and mini symposium
- State-of-the-art methods
- Data management (ELN)

Workshop 1 & Others

- Biostatistics
- Good Practice
- Scientific Writing
- Minisymposium
- Data management
- ELN

Softskill Courses

- Debate club
- Job application
- Career Day
- Company visit
- Poster design
- Communication
- Effective presentations

Science-related Courses

- Flow course
- Bed-side visits
- Bioinformatics
- Design clinical trials
- Animal in research
- External lab rotations

Annual Internal GRK Retreat



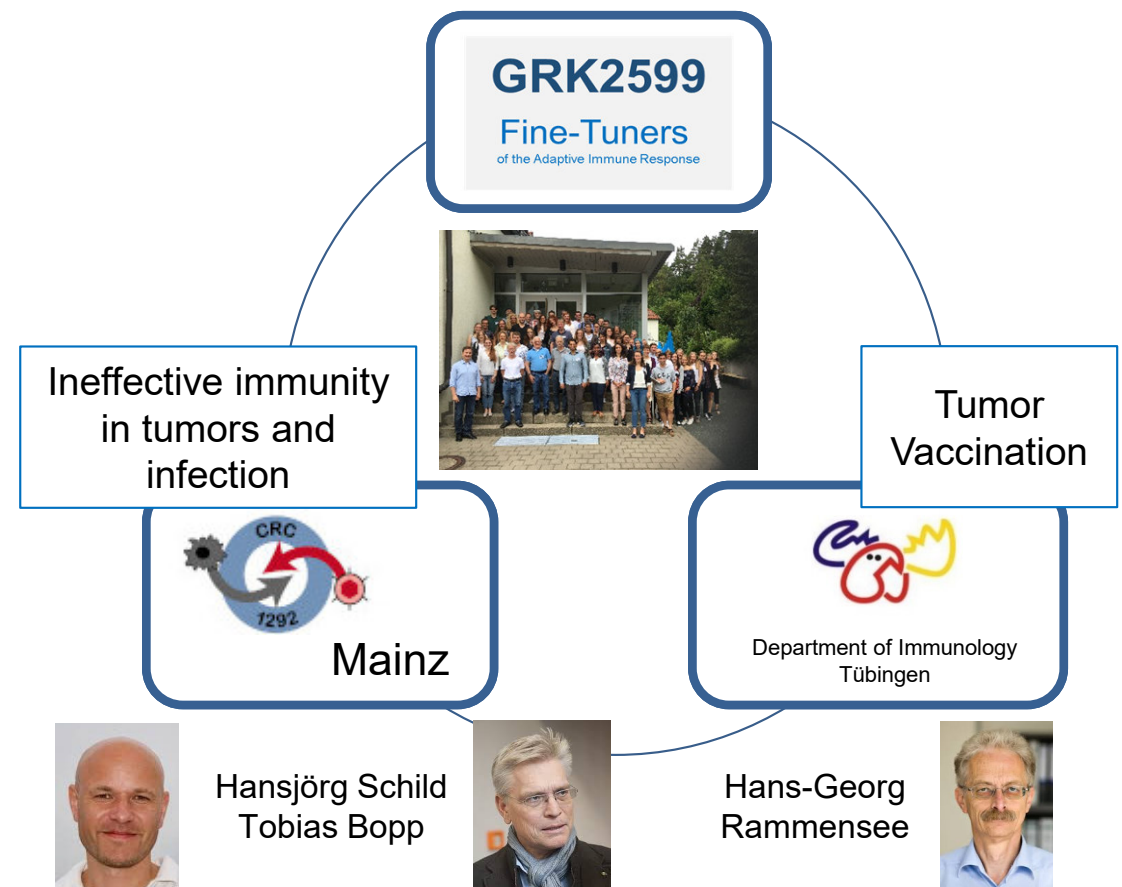
Annual RTG Network Meeting



Annual Internal GRK Retreat



Annual RTG Network Meeting



International GRK Symposium (2023)

5TH INTERNATIONAL GK SYMPOSIUM
REGULATORS OF ADAPTIVE IMMUNITY
SEPTEMBER 9-11, 2016

CONFIRMED SPEAKERS

David Allman • Philadelphia • USA
Dennis Burton • La Jolla • USA
Michael Cancro • Philadelphia • USA
Sidonia Fagarasan • Yokohama • Japan
Martin Flajnik • Baltimore • USA
David Gray • Edinburgh • UK
Kathryn Haskins • Denver • USA
Marco Herold • Parkville • Australia
Tasuku Honjo • Kyoto • Japan
Leszek Ignatowicz • Augusta • USA
George Kassiotis • London • UK
Janet Kelso • Leipzig • Germany
Lars Klareskog • Stockholm • Sweden
Shigeo Koyasu • Tokyo • Japan
Olivier Lantz • Paris • France
Polly Matzinger • Bethesda • USA
Michel Nussenzweig • New York • USA
Giorgio Trinchieri • Bethesda • USA
Marc Schmidt-Supprian • München • Germany
Tim Sparwasser • Hannover • Germany
Dario Vignali • Pittsburgh • USA
Arthur Weiss • San Francisco • USA

LOCATION
New Lecture Hall of Medical Faculty • Ulmenweg 18 • 91054 Erlangen

www.gk-symposium.de

Certified by the „Bayerische Landesärztekammer“ with 18 CME credits

Immunology
Dermatology
Microbiology
Genetics
Haematology / Rheumatology
Virology

Universitätsklinikum Erlangen

DFG

GRK2599

IRTC1181

FAU FRIEDRICH-ALEXANDER UNIVERSITÄT ERLANGEN-NÜRNBERG

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Dennis Burton • La Jolla • USA
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Lars Klareskog • Stockholm • Sweden
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Marc Schmidt-Supprian • München • Germany
Tim Sparwasser • Hannover • Germany
Dario Vignali • Pittsburgh • USA
Arthur Weiss • San Francisco • USA



2018

International GRK Symposium (2022)

GRK Mini Symposia

5TH INTERNATIONAL GK SYMPOSIUM
REGULATORS OF ADAPTIVE IMMUNITY
SEPTEMBER 9-11, 2016

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Dermatology

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Universitätsklinikum Erlangen, DFG, GK1660, IRTG1181, FAU FRIEDRICH-ALEXANDER UNIVERSITÄT ERLANGEN-NÜRNBERG

GK1660
ADAPTIVE IMMUNITY
Erlangen

Current Topics in Immunology
Focus: Neuroimmunology

Wednesday, June 11, 2014

13:00 **Hans-Martin Jäck (Speaker GK1660)**
Welcome and Overview

13:15 **Hartmut Wekerle**
Max-Planck-Institut für Neurobiologie, München
The intestinal origin of brain autoimmunity

14:15 **Luisa Klotz**
Klinik für Allgemeine Neurologie, Münster
Nuclear receptors and modulation of CNS autoimmunity

15:15 **Coffee Break**

15:45 **Alexander Flügel**
Universitätsmedizin, Neuroimmunologie, Göttingen
Visualizing checkpoints of autoaggressive T cell infiltration into the CNS

16:45 **Georg Pongratz**
Exp. Rheumatologie und Neuroendokrinoimmunologie, Universitätsklinikum, Regensburg
The sympathetic nervous system modulates inflammation – focus on arthritis and B cells

17:45 **General Discussion: EAE in Mice and Alzheimer in Human?**
(Chair: Alexander Steinkasserer)

18:30 **End**

19:00 **Dinner** (for persons with reservation only)

Seminarraum EG – 0.024
Nikolaus-Fiebiger Zentrum

DGfI Autumn School

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Application deadline: July 01, 2019
www.dgfi.org/akademie-fuer-immunologie/autumn-school

Keynote
Klaus Heeg
Joachim Schultze
Marco Prinz
Hubertus Hochrein

Organizers
Sandra Beer-Hammer
Olaf Groß
Thomas Kamradt
Birgit Sawitzki
Wolfgang Schuh

Administration
Iris Noetzelmann • Tübingen
Bettina Happel • Marburg
Agnes Giniewski • Erlangen

Faculty
Hyun-Dong Chang
Anne Dudeck
Diana Dudziak
Louis Du Pasquier
Georg Gasteiger
Ulf Grawunder
Dirk Haller
Jochen Hühn
Julia Jellusova
Ludger Klein
Roland Lang
Axel Roers
Marc Schmidt-Supprian
Claudia Traidl-Hoffmann

11th Autumn School
Current Concepts in Immunology
October 14 - 19, 2019 • Merseburg • Sachsen-Anhalt

Other Meetings

BIOLOGY of LYMPHOCYTES DGfI Research Focus Group



18th B Cell Forum

AllgäuSternHotel,
Sonthofen, Germany

12th to 14th March, 2020



47th Annual Meeting

of the German Society for Immunology

CELEBRATING 50 years
DGfI



12-15 September 2017 - ERLANGEN

Abstract Deadline: 7 May 2017



www.immunology-conference.de



KEYSTONE SYMPOSIA

Integrating Metabolism and Immunity

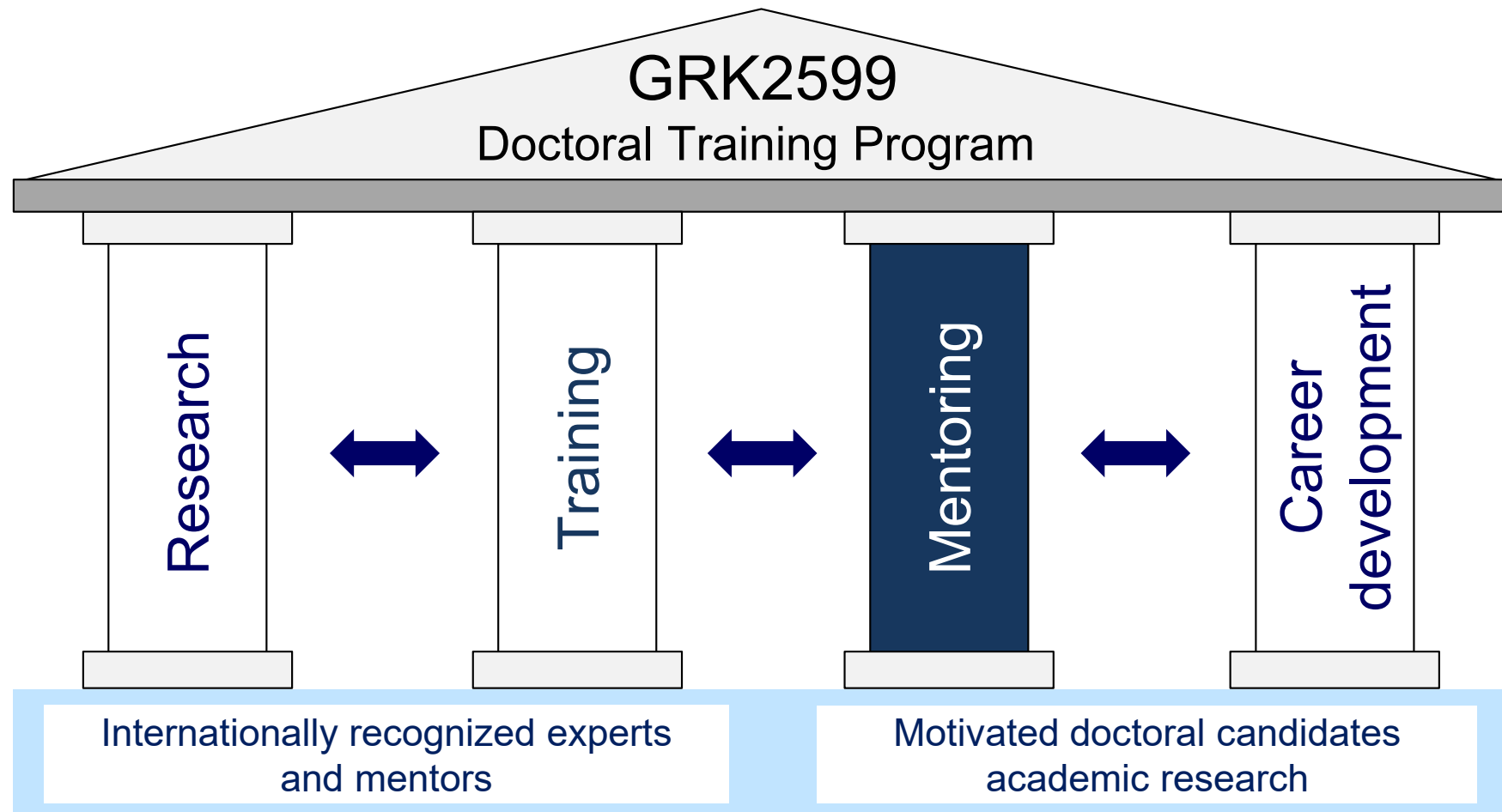
Organizers: Marc Y. Donath, Tom Thuren, Bruce M. Spiegelman and Diane Mathis
January 24–28, 2021 | Keystone Resort, Keystone, Colorado, USA

Identify new regulators
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Motivate graduates to
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Qualification Phase

For Fast-Track and Dr. med. candidates

- **Assigned advisors**
 - *One GRK PI as mentor*
 - *GRK speaker and vice-speakers*
 - *GRK coordinator*
- **Duties**
 - *Advice on course selection
& lab internship abroad*
 - *Any other questions*

Dissertation Phase

For all doctoral candidates

- **Thesis advisory
committee (TAC)**
 - *3 GRK PIs suggested by
candidate*
 - *1-2 times per year*
- **GRK coordinator**

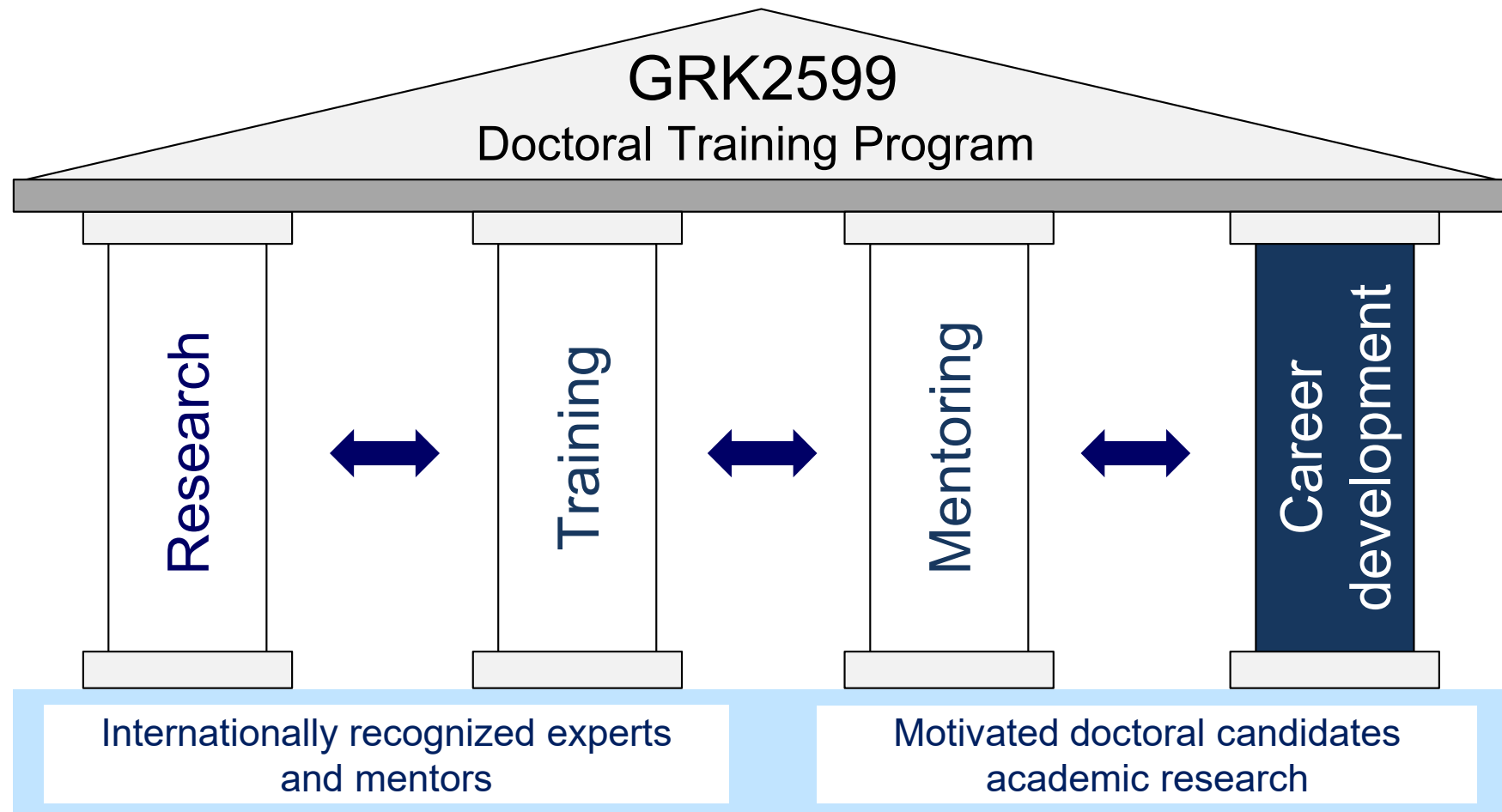
- Defense of the doctoral project (“DFG” proposal)
- Yearly Meetings with thesis advisory committee (TAC)
- Oral or poster presentations at
 - *Annual internal retreats*
 - *Annual RTG network meeting*

Identify new regulators
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- ❑ Improve **paper and grant writing** proficiencies
- ❑ Acquire **mentor expertise** through supervision of students
- ❑ Develop **management skills** by organizing GRK events
- ❑ Acquire **decision-making expertise** by membership in GRK steering committee
- ❑ Build **professional networks** through company visits, international internships, attending meetings and visiting potential post-doc labs
- ❑ **Prepare for job interviews** through career-relevant workshops

- ❑ Improve paper and grant writing proficiencies
- ❑ Acquire mentor expertise through supervision of students

DAAD RISE Research Internships
in Science and Engineering

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Graduate School GK1660
Prof. Dr. rer. nat. Hans-Martin Jäck

Contact Information
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University Hospital Erlangen
D-91054 Erlangen, Glückstraße 6
tobit.steinmetz@uk-erlangen.de

RISE Germany
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Project Aim and Methods

Antibodies are secreted by plasma cells (PC) that are generated in the periphery and migrate to the bone marrow to establish a long lived pool. The terminal differentiation of B lymphocytes into PC is controlled by a network of transcription factors that cross-regulate each other. RNAseq data have established a plasma cell signature and revealed many unknown genes to be up- or down-regulated in plasma cells. Elucidation of the function of these genes will help to understand the cell biology of PC that is required to support antibody production. PC differentiation and antibody secretion are tightly interlinked with ER quality control and autophagy. We seek to address the concept of cell biological remodeling of PC in relation to antibody secretion and quality control with a particular focus on a gene that is up-regulated in PC, the Tropomyosin receptor kinase (Trk) fused gene (Tf). Tf functions in ER/Golgi transport and organization and regulation of cell size, both of which increase during plasma cell differentiation. Our preliminary data obtained in Crisp/Cas-targeted CH12 murine lymphoma and MOPC104E plasmacytoma cells have revealed three phenotypes: Tf knock-out (KO) 1. decreases survival, 2. increases basal autophagy and 3. sensitizes cells towards ER stress. We generated mice carrying a constitutively targeted null allele of Tf (TfKO) but we were not able to obtain homozygous TfKO offspring. Yet, already Tf heterozygous mice show decreased serum IgA and reduced PC numbers in Peyer's patches and trends towards reduced IgM and PC numbers in various organs. We hypothesize that Tf is important for PC homeostasis in vivo by regulating ER quality control and autophagy. We want to determine how Tf prevents apoptosis, ER stress and autophagy in targeted CH12 and MOPC104E cells. We will also generate and analyze PC generation and function in mice carrying a B cell specific deletion of Tf by establishing and crossing Tf^{fl} mice with mb1-Cre and CD23-Cre mice. The results of this project will increase our understanding of plasma cell biology and is therefore relevant for normal and dysregulated humoral immunity, such as in autoimmune diseases or plasmacytoma.

Planned tasks for RISE student

The student project will contain analysis of TFG KO cell lines in terms of ER stress, unfolded protein response and autophagy with qRT-PCR, EISpot and flow cytometry or assistant to characterize the conditional KO of TFG in vivo murine B cells either with mb1-Cre or CD23-Cre using flow cytometry, ELISA and in vitro cultures of isolated B cells.

Information about the Division of Molecular Immunology

As a working group of 15-20 members around 4 group leaders under the supervision of Prof. Dr. H.M. Jäck we are interested in B lymphocyte and plasma cell development, function and homeostasis. B lymphocytes are essential for a humoral immune response and the generation of a functional memory. For our investigations we use modern techniques like "Seahorse", single cell analyses of 10x genomics or Crisp/Cas. Standard methods like flow cytometry, western blotting and PCR are common methods in our laboratory.

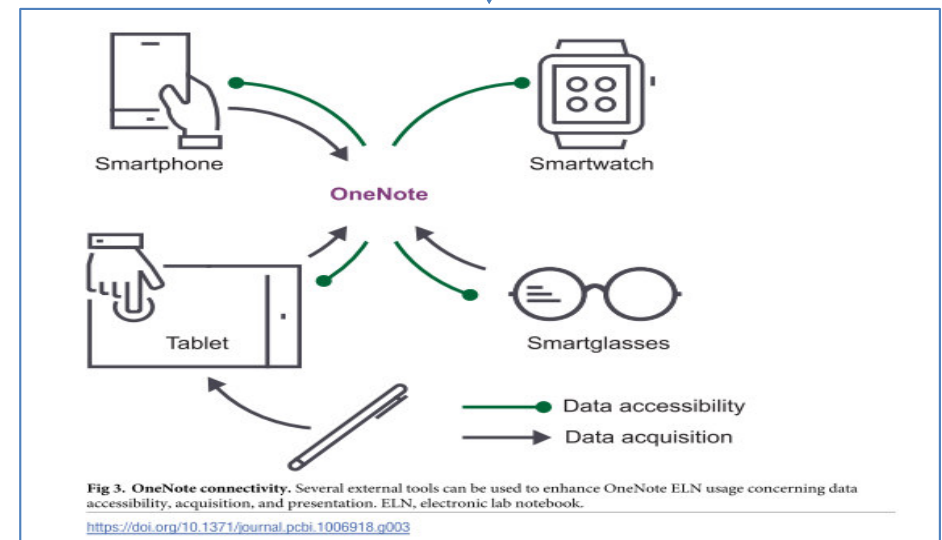
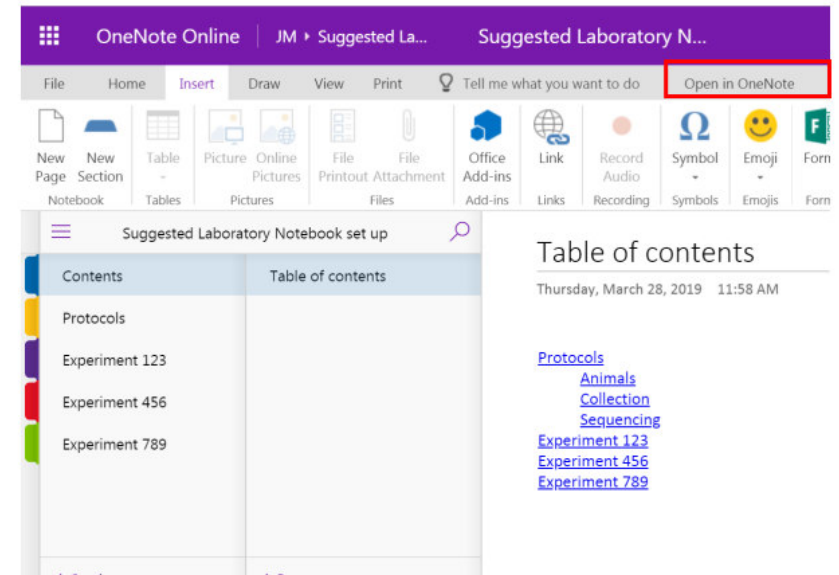
The research Institute is located in the medium sized town of Erlangen famous for its outstanding university clinic, in the middle of Bavaria. Nevertheless the city has a natural, rural charm and despite its size relaxation in the nature is never far away. The whole region of Franconia is famous for varies breweries and Bavarian beer.

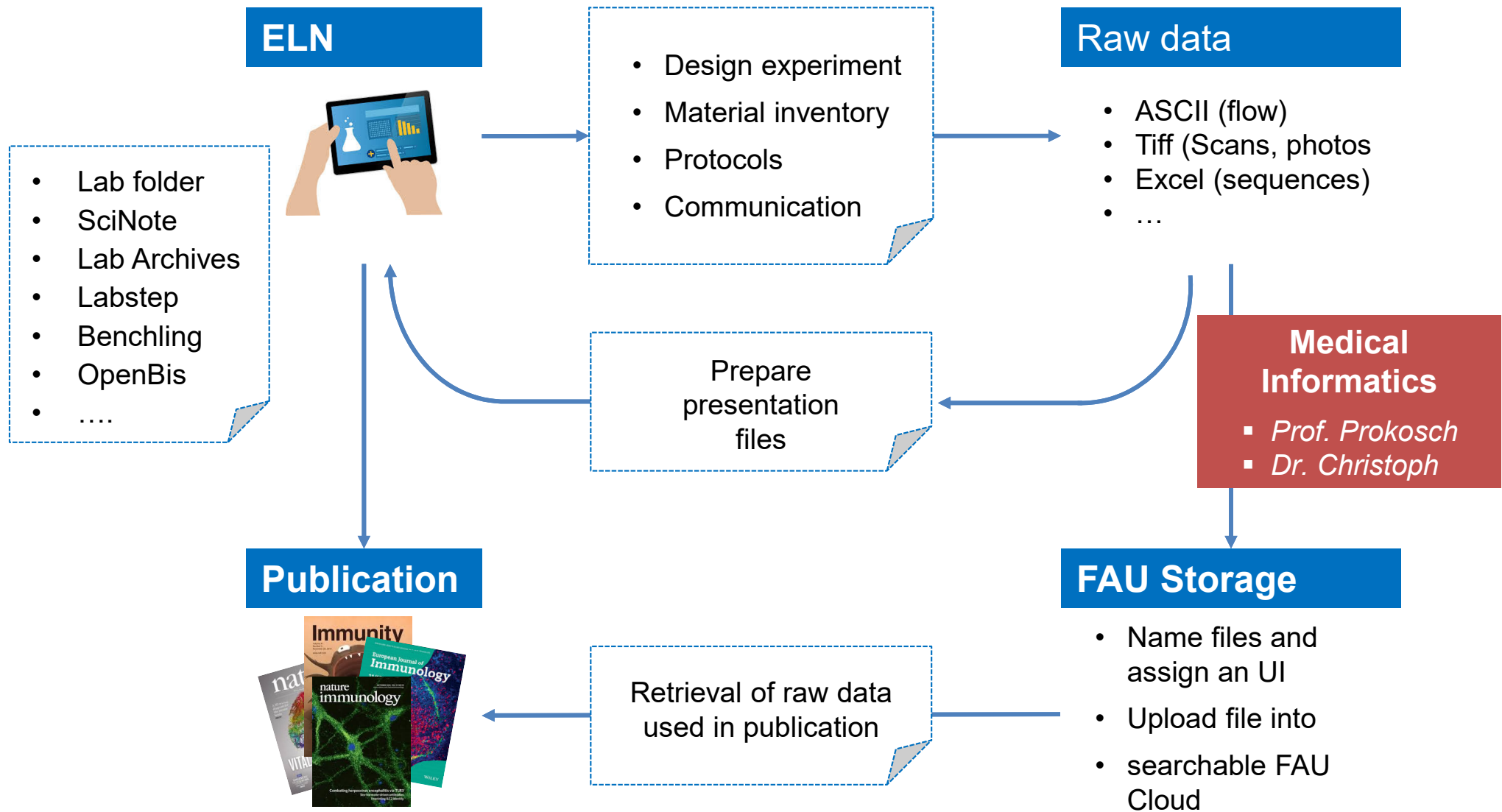
- Data documentation
- Data storage
- Communication

 **Microsoft 365**
Business Standard

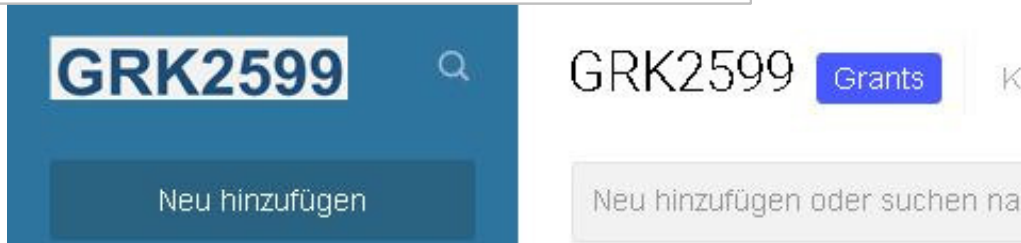


Opening a OneNote notebook





<https://www.stackfield.com/de/>



Kommunikation und Collaboration für Teams

Stackfield bietet alle Tools, die Dein Team braucht, um produktiv und sicher arbeiten zu können.



<https://slack.com>



diana dudziak 7:36 AM
Ok

Wednesday, September 2nd

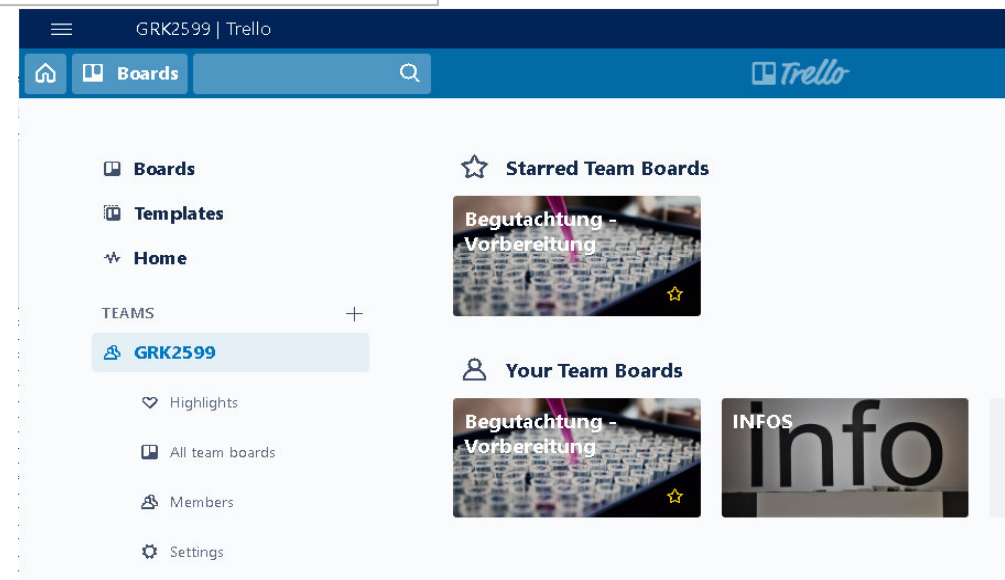
GRK2599 4:05 PM
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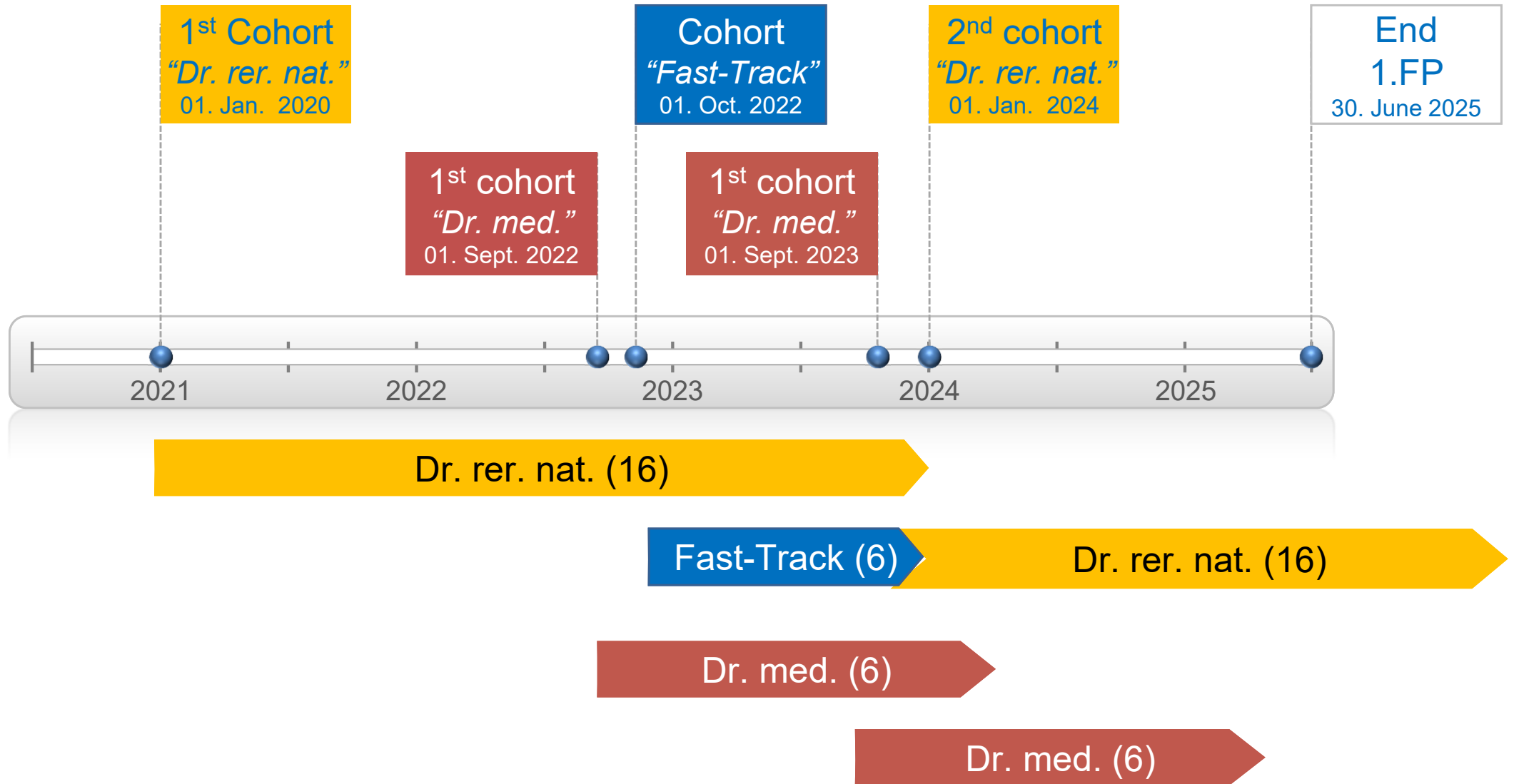
Thursday, September 3rd

udo gaipi 1:28 PM
Lieber Hans-Martin,
anbei der mit Diana abgestimmte Vorschlag zum zeitlichen Ablauf des Bewerbungssymposiums I.
Beste Grüße, Udo
Word Document

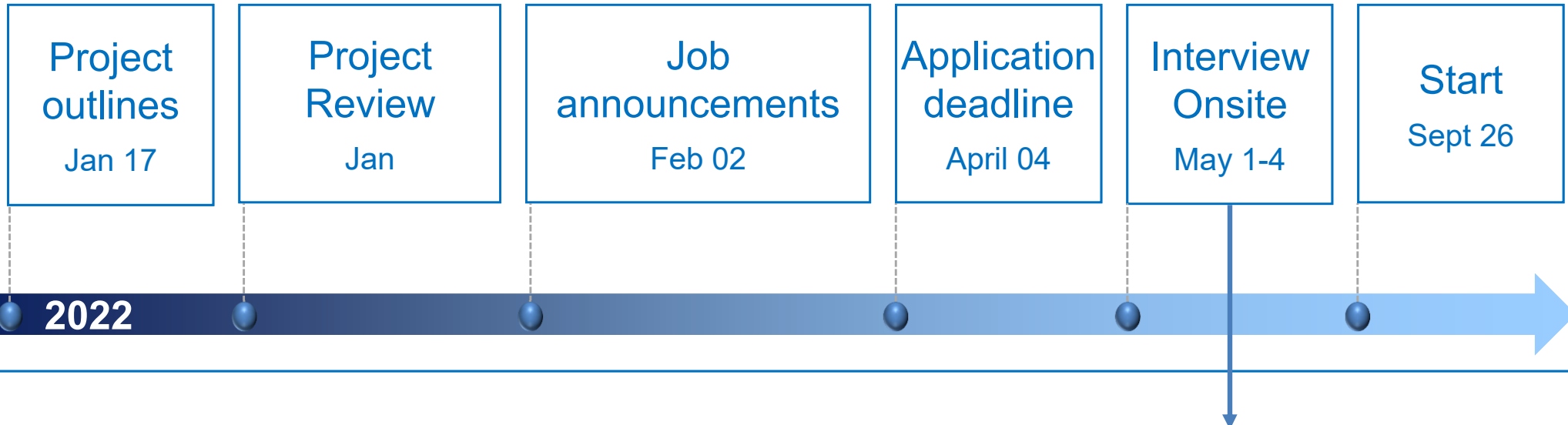
RTG2599 Zeitplan Auswahl Studenten 1. Runde
09_2020_UG.docx
77 kB Word Document

<https://trello.com/>





Fast-Track Doctoral candidates



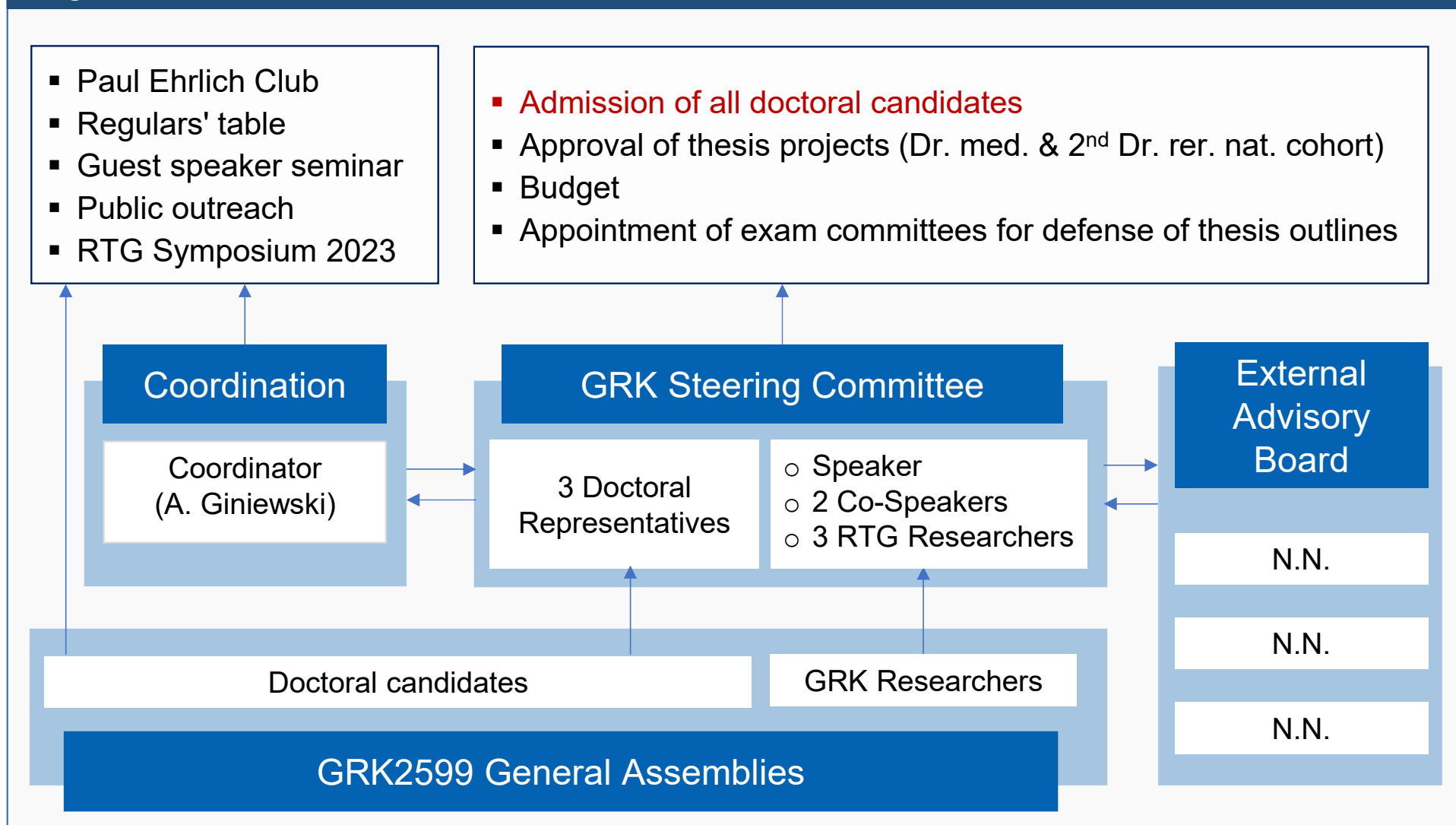
Presentations
(will be graded !!)

- *Bachelor thesis*
- *Publication*
- *POL*

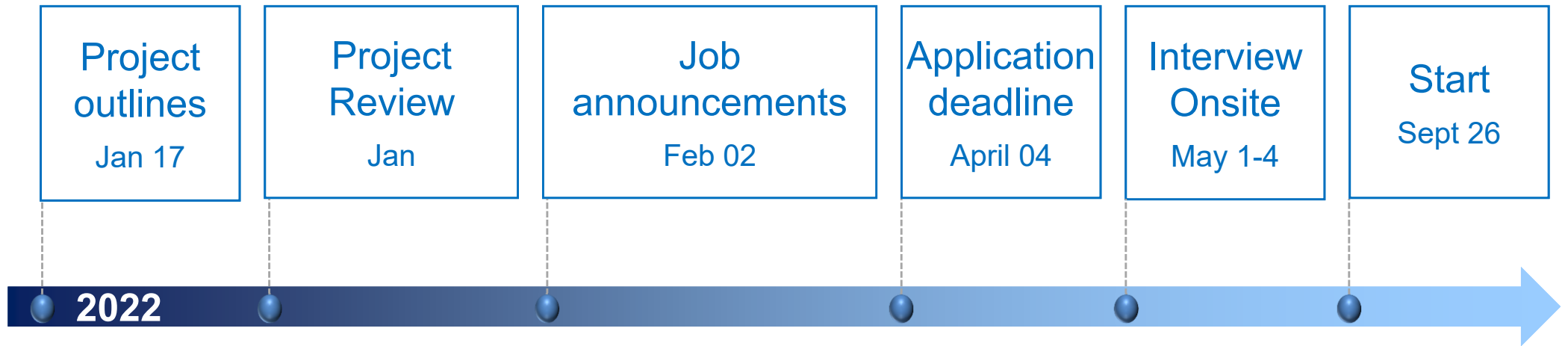
Meeting with

- *Current doctoral candidates*
- *Selected PIs*
- *GRK steering committee*

Organization Chart - GRK2599



Fast-Track Dr.rer.nat candidates



Dr. Natalie Schröter

Koordinatorin



Natalie.schroeter@uk-erlangen.de

Prof. Dr. Hans-Martin Jäck

Direktor



Hans-martin.jaeck@fau.de