

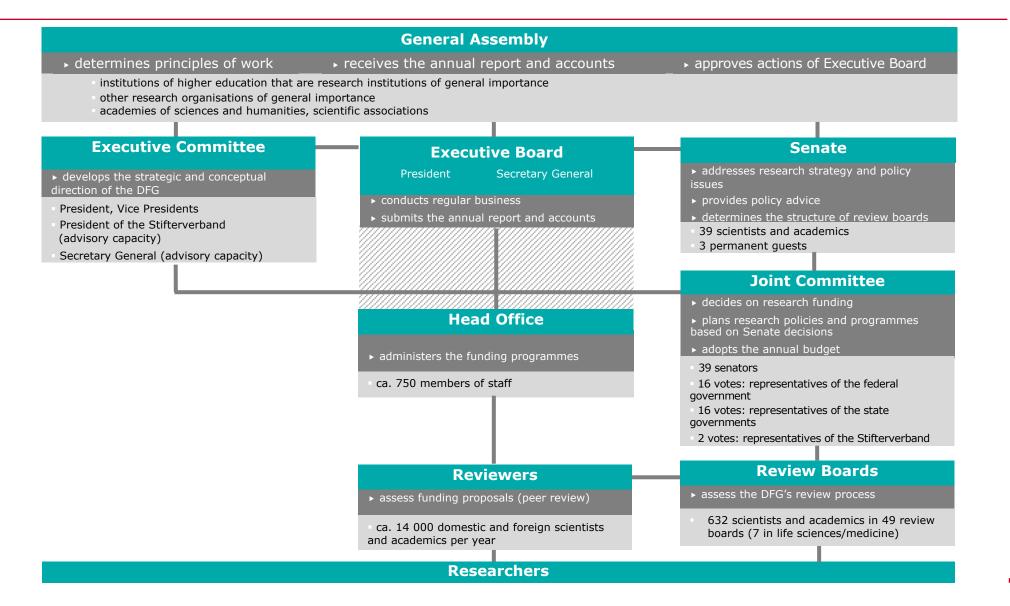
DFG Funding Opportunities from a Reviewers Perspective

Prof. Dr. Marta Rizzi Elected member of DFG Fachkollegium 204 Immunology-Virology-Microbiology-Parasitology

- DFG Structure
- Funding principles and eligibility
- Funding instruments for Postdoc / early career researchers
- Submitting and application
- How to write a good application

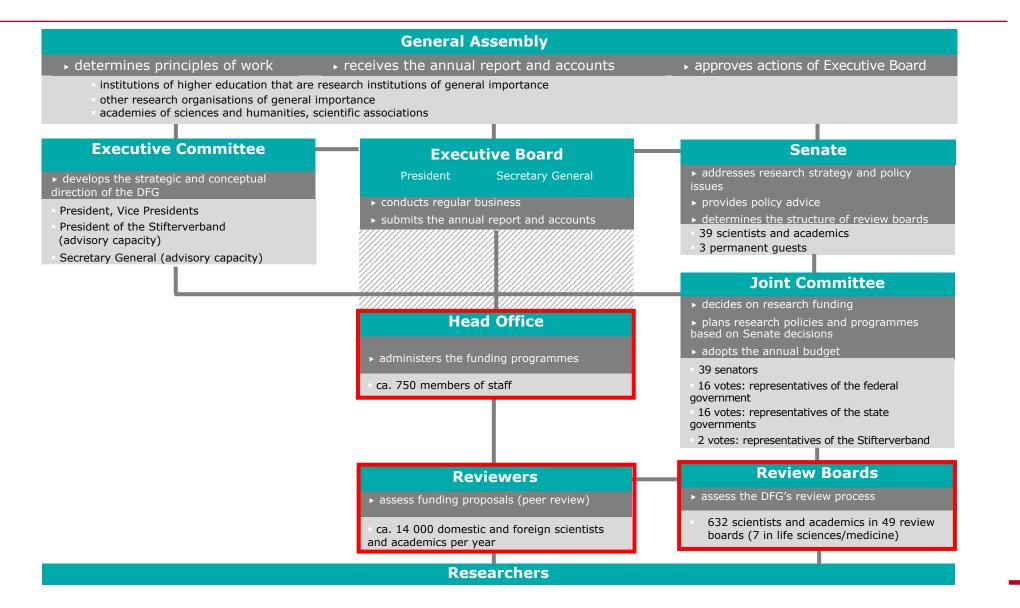


How is the DFG structured?



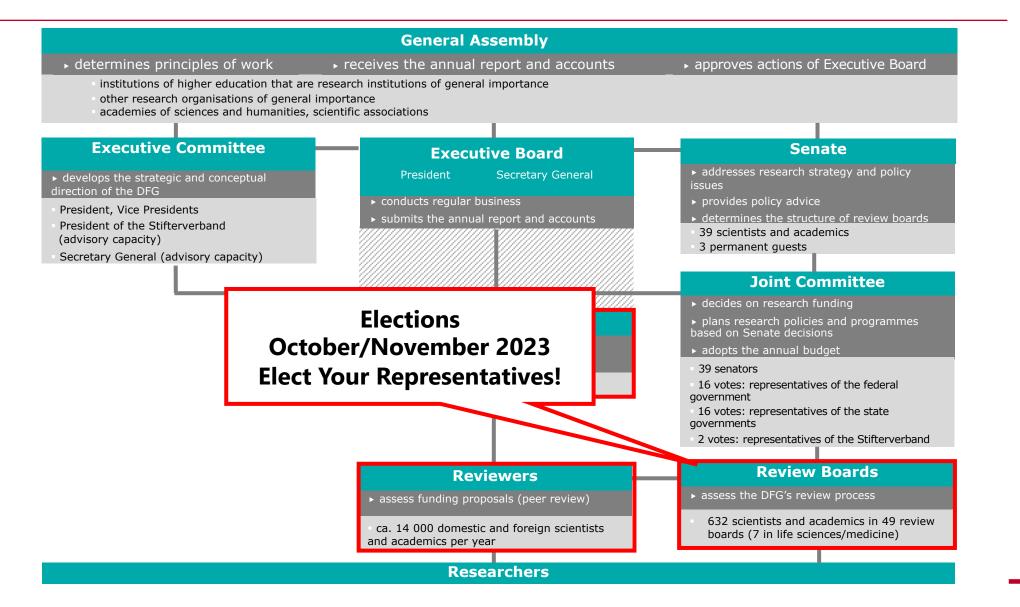


How is the DFG structured?





How is the DFG structured?



DFG Funding: Who can apply?

Researchers

- who have completed their scientific training, i.e. who hold a **doctorate** and
- ► who would like to work in Germany
- ► of any age
- ► conducting basic research



DFG Funding Principles

– Research topic: open, bottom-up*

Type of research: basic research in any field of science and the

humanities

Note: individual career phases and family-related career

breaks are considered

– Deadlines: none*

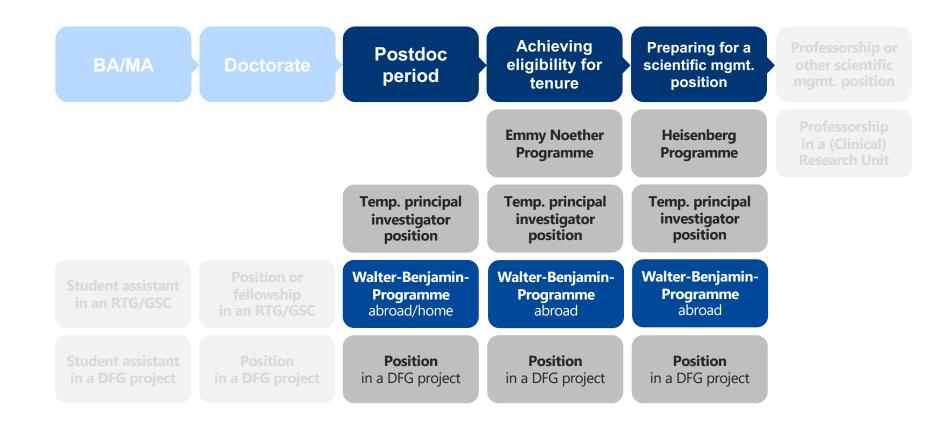


DFG Funding Opportunities for early career researchers

Achieving Preparing for a **Professorship or Postdoc** BA/MA **Doctorate** eligibility for scientific mgmt. other scientific period position mgmt. position tenure **Professorship Emmy Noether** Heisenberg in a (Clinical) **Programme Programme** Research Unit Temp. principal Temp. principal Temp. principal investigator investigator investigator position position position Walter-Benjamin-Walter-Benjamin-**Position or** Walter-Benjamin-**Student assistant** fellowship **Programme Programme Programme** in an RTG/GSC abroad/home home (abroad) in an RTG/GSC home Student assistant **Position Position Position Position** in a DFG project in a DFG project in a DFG project in a DFG project in a DFG project



DFG Funding Opportunities for early career researchers





DFG - Walter-Benjamin-Programme

 Fellowships/positions for **postdoctoral** researchers for a research project abroad or in **Germany** to learn new methods or start in a new field of research

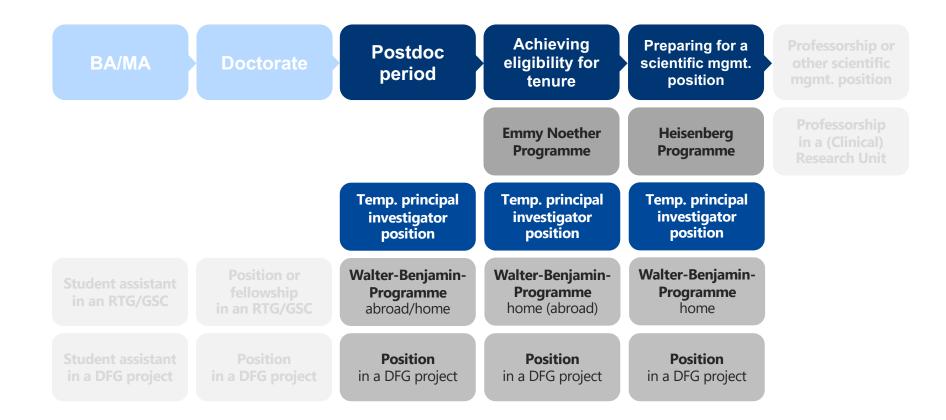
Choice of:

- Fellowship: Go abroad, training aspect is essential
- Position: Stay in Germany, a post-doctoral position is financed, projectrelated costs covered by hosting lab → extend "unfinished" PhD work, also for applicants with limited mobility
- Rotation position: clinical scientists protected research time
- Possibility of max. 6-months return grant for abroad option





DFG Funding Opportunities for early career researchers





Individual Grant Programme

- individual research project in Germany
- Allows flexibility
- No deadlines
- Funding: staff, consumables, travel, instrumentation, publication funding
- Typically three-years of funding, extendable

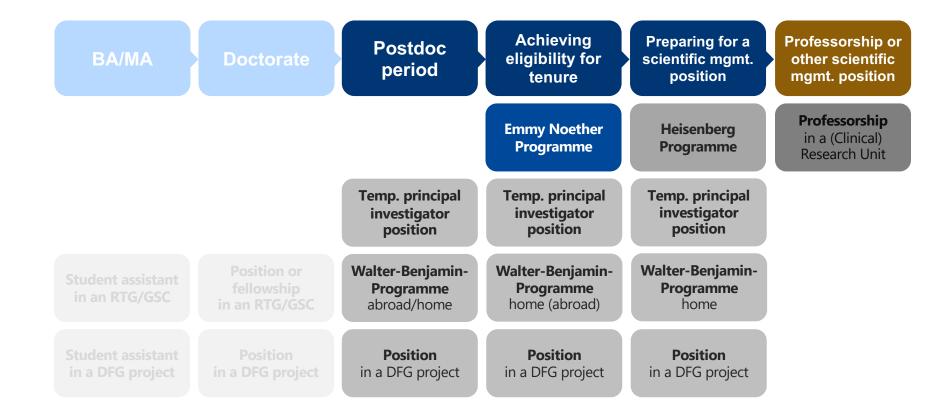


Temporary Position for Principal Investigators (*Eigene Stelle*)

- For postdoctoral researchers
- Research in Germany → the host institution becomes the employer
- Duration of generally up to 3 years, extendable
- Position (E13 to E14 TVöD/TV-L) + project funds
- Full-time commitment to conduct the project mandatory. No other funding by the DFG or any other funders can be received!
- Documented scientific independence according to career stage often required by study section (not a set condition)



DFG Funding Opportunities for early career researchers





Emmy Noether Programme

Emmy Noether Programme

- ► Path to early **academic independence**
- Eligibility for professorial appointment by leading own independent junior research group



Formal requirements

- ➤ Postdoctoral **research experience** of at least 2 and max. 4 years (medicine: up to 6 years), +2/1 years per child ♀/♂
- Substantial international research experience required



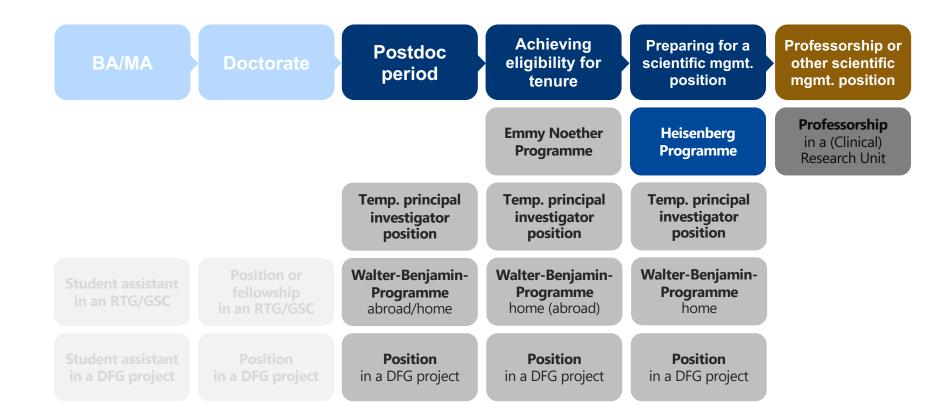
Emmy Noether Programme

- For excellently qualified **postdoctoral** researchers
- Research in **Germany** → host institution becomes the employer
- Duration of generally 6 years
- Position (E15) + project funds staff, consumables, equipment, experimental animals, travel...
- Position for temporary substitutes for clinicians





DFG Funding Opportunities for early career researchers





Heisenberg Programme

- For researchers eligible for professorial appointment
- Duration of max. 5 years
- Flexible type of funding
 - Fellowship
 - Position E-15 TVöD/TV-L
 - Position for temporary substitutes for clinicians
 - Professorship W2 or W3 → host university must establish permanent professorship
- ► Flexible research funds: € 12,000
- ► Fellowship and positions may be combined with research grant proposal
- ► Application for the Heisenberg Programme, decision on type of funding after approval





Interaction with the DFG

Important questions:

- Who is responsible for me at the DFG?
- What can I ask?
- What are DFG employees allowed to tell me?
- Can I influence the decisions of the DFG?



Interaction with the DFG

Important questions:

- Who is responsible for me at the DFG?
- What can I ask?
- What are DFG employees allowed to tell me?
- Can I influence the decisions of the DFG?

Critical points:

- Choice of the Review board
- Contact head office
- Treasure head office experience
- and advice, especially before 1st
- application EN or Heisenberg and in
- case of rejection



What happens to my application to the DFG

- Plausibility check upon receipt of the application
- Selecting experts to assess the application
- Obtaining at least two expert opinions on the application
- Discussion of the application and the reports in the Fachkollegium (=Review board-meets 3-4 times a year)
 - Two review board members read the application and the reports
 - Vote on the eligibility of the application
 - Comparative assessment of applications across disciplines
 - Funding recommendation or rejection
- Notice to Applicants



What happens to my application to the DFG

- Plausibility check upon receipt of the application
- Selecting experts to assess the application
- Obtaining at least two expert opinions on the application

- DFG Head office
- Discussion of the application and the reports in the Fachkollegium (=Review board-meets 3-4 times a year)
 - Two review board members read the application and the reports
 - Discuss / comment / vote on the eligibility of the application
 - Comparative assessment of applications across disciplines
 - Funding recommendation or rejection
- Notice to Applicants



What happens to my application to the DFG

- Plausibility check upon receipt of the application
- Selecting experts to assess the application
- Obtaining at least two expert opinions on the application
- Discussion of the application and the reports in the Fachkollegium (=Review board-meets 3-4 times a year)
 - Two review board members read the application and the reports
 - Discuss / comment / vote on the eligibility of the application
 - Comparative assessment of applications across disciplines
 - Funding recommendation or rejection
- Notice to Applicants DFG Head office

DFG Head office



- What is my topic?
- Why is the topic relevant and why is my question interesting?
- Why am I particularly qualified to work on this topic? Can I apply with someone else?
- What preparatory work do I need for an application? Publications and unpublished data...
- What kind of "support" do I need?
- Do I need collaborators?



- What is my topic? Expertize, area of research
- Why is the topic relevant and why is my question interesting?
- Why am I particularly qualified to work on this topic? Can I apply with someone else?
- What preparatory work do I need for an application? Publications and unpublished data...
- What kind of "support" do I need?
- Do I need collaborators?



- What is my topic? Expertize, area of research
- Why is the topic relevant and why is my question interesting? State of the art – preliminary data – relevance to disease, mechanisms
- Why am I particularly qualified to work on this topic? Can I apply with someone else?
- What preparatory work do I need for an application? Publications and unpublished data...
- What kind of "support" do I need?
- Do I need collaborators?



- What is my topic? Expertize, area of research
- Why is the topic relevant and why is my question interesting? State of the art – preliminary data – relevance to disease, mechanisms
- Why am I particularly qualified to work on this topic? Can I apply with someone else? Publication, preliminary data OR collaborators!
- What preparatory work do I need for an application? Publications and unpublished data...
- What kind of "support" do I need?
- Do I need collaborators?



- What is my topic? Expertize, area of research
- Why is the topic relevant and why is my question interesting? State of the art – preliminary data – relevance to disease, mechanisms
- Why am I particularly qualified to work on this topic? Can I apply with someone else? Publication, preliminary data OR collborators!
- What preparatory work do I need for an application? Publications and unpublished data...
- What kind of "support" do I need? Core facilities, Bioinformatics, Imaging, knowledge/external expertize
- Do I need collaborators?



- Definition of topic, specific question and work program
- Write an informative abstract?
- What knowledge/information do reviewers need to understand my application? Introduction and "state-of-the-art" as well as own preparatory work...
- How do I formulate an understandable and stringent work program
 - Goals and concrete work steps in a clear work program
 - Methods
 - "Pitfalls" & "Contingency Plans"
 - "Ambition"? Is there stringency in the application?



- Definition of topic, specific question and work program
- Write an informative abstract?
- What knowledge/information do reviewers need to understand my application? Introduction and "state-of-the-art" as well as own preparatory work...
- How do I formulate an understandable and stringent work program
 - Goals and concrete work steps in a clear work program
 - Methods
 - "Pitfalls" & "Contingency Plans"
 - "Ambition"? Is there stringency in the application?



- Definition of topic, specific question and work program
- Write an informative abstract? Precise, general but informative, state the question and the importance respect to the state of the art, aims in short and reference to potential results
- What knowledge/information do reviewers need to understand my application?
 Introduction and "state-of-the-art" as well as own preparatory work...
- How do I formulate an understandable and stringent work program
 - Goals and concrete work steps in a clear work program
 - Methods
 - "Pitfalls" & "Contingency Plans"
 - "Ambition"? Is there stringency in the application?



- Definition of topic, specific question and work program
- Write an informative abstract? Precise, general but informative, state the question and the importance respect to the state of the art, aims in short and reference to potential results
- What knowledge/information do reviewers **need** to understand my application?
 Introduction and "state-of-the-art" as well as own preparatory work...
- How do I formulate an understandable and stringent work program
 - Goals and concrete work steps in a clear work program
 - Methods
 - "Pitfalls" & "Contingency Plans"
 - "Ambition"? Is there stringency in the application?



What do people like to forget?

- Detailed description of the necessary funds
- Animal testing? Estimation (statistic!) of the animals required for the experiments / ethics for patients work
- Core facilities? Separate costs can be requested
- Job description of requested positions comprehensibly justified?
- Equipment necessary to carry out the project?



General considerations for a good proposal

Make the job of the reviewer as easy as possible
 Give all necessary information, but only those
 Ensure easy reading and clear presentation

Ask colleagues / mentors for a critical reading!



General considerations for a good proposal

Never Ever:

- Neglect/omit literature contradicting your hypothesis
- cite your own papers only and ignore the competition
- re-assess or ridicule other peoples´ findings
- do not swap authors when "equally contributed": this constitutes scientific misconduct!

Instead:

- Discuss other peoples' data
- cite as in PubMed, mark shared authorships by asterisks; highlight your name



CV

- Structure it clearly
- Include prizes, fellowships and awards
- Include time away from research (relating to family or illness, dependent care, etc.)
- List up to 10 of your most important publications



Grant Budget

- No upper limits, but:
- Needs to be realistic and justified
- Supplemental, project-specific needs vs. existing resources at the higher education institution
- Seek advice from other grant applicants, recipients, institutions/organisations
- Information on staff salaries provided on the DFG website and automatically calculated upon proposal upload



From a reviewer's perspective

- Is the project important regarding its scientific impact?
- Is the project idea timely and original?
- Will the project result in significant findings? What new knowledge will be generated – what gaps in current knowledge would be filled?
- Is the applicant (or team of applicants) suitably qualified to carry out the project successfully?
- Are the proposed **methods** up to date and suitable for addressing the research question?
- Can the work programme be completed within the proposed **timeframe**?



Criteria for evaluating an application

Person

- Scientific excellence
- Experience-based performance ("puppy protection")
- Internationally visible for the subject of the application

Application

- Interesting and innovative topic
- Convincing concept
- Stringency of the work program
- Technologies and methods used are adequate and target-oriented for the successful processing of the work program
- Cost in relation to the work program



Examples of criticisms

- Overloaded overambitious not feasible in the planned time with personnel and time requested
- Lack of Novelty
- Missing focus
- Too descriptive
- 'Fishing expedition' / Large screening effort without a prioritization strategy / without a contingency plan If nothing is found
- Missing hypothesis
- Experimental models not up-to-date; other existing models not considered
- Key literature / data not cited / not considered
- Preliminary data insufficient to support the work program / hypothesis / technology planned
- Missing expertize
- Lack of contingency plan
- Choice of host institution
- Independent profile



Criteria for evaluating an application

4 categories for project evaluation

Category 1 excellent projects (publications excellent, outstanding project, two enthusiastic reviews)

Category 2 very good project (very good publication situation, very good project, two favorable reports)

cutoff

Category 3 good project (good publication situation, good project, mixed expert opinion situation)

Category 4 ok projects - rejection recommended by reviewers

Funding rate at the DFG approx. 30%



What do I do in case of rejection?

- Don't be discouraged
- Take reviewer comments seriously but not personally
- Gather information!
- Can I submit a revised application?
- What should I pay particular attention to when revising? Read reviewer comments carefully – they will give you essential advice for revising your proposal.
- You can add point-by-point reply
- What are the chances of success after a rework?
- Who sees my revised application? Reviewers, review board members?



Tips:

- Write an interesting project "with heart and soul"
- Courage to take (calculated) risks
- Write an ambitious but realistic project
- Attention to details
- Clear reasoning and planning of experiments: from hypothesis to experiment to result
- Realistic cost estimate
- Information needed for the evaluation of the project is available, formulated in a comprehensible manner and easy to find



Advice for Applicants

- 1. The proposal follows the guidelines and instructions.
- 2. The proposal is clear, precise, well structured and understandable to a non-expert audience.
- 3. The project idea is original and contributes considerably to our understanding of scientific (and social) questions.
- 4. The scientific aims are focused on central questions, theses and hypotheses, embedded in the broader context.
- 5. The descriptions of the current state of research are up to date and relate directly to the project's objectives.



Advice for Applicants

- 6. The preliminary work and personal track record reflect the qualifications and academic/scientific independence of the applicant.
- 7. The work programme is clear and follows a realistic timeline.
- 8. The methods are tailored to address the issues at hand and utilize state-of-the-art or even novel techniques
- 9. The proposed budget is consistent with the work programme.
- 10. Information relevant to the proposal, such as unpublished manuscripts are discussed and written agreements with significant cooperation partners are included.



Finger crossed for your proposals!

For more information...

- on the DFG: www.dfg.de/
- on DFG-funded projects: www.gepris.dfg.de/en
- ▶ 2018 Funding Atlas: http://www.dfg.de/sites/foerderatlas2018/
- on over 30,000 German research institutions: http://www.gerit.org/de

