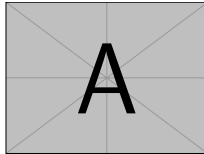


Collaborative Research Centre 9999

**Mechanisms of Host–Microbiome Communication**  
From Molecular Interactions to Organ Function



Example University

**Funding Proposal**

for the third Funding Period  
2027 | 2–2028–2029–2030–2031 | 1





Proposal for the third Funding Period of  
Collaborative Research Centre 9999

“Mechanisms of Host–Microbiome Communication: From Molecular Interactions to Organ  
Function”

funded since

2019-07-01

for

2027 | 2–2028–2029–2030–2031 | 1

Coordinating university:

Example University

---

**Spokesperson of  
the Collaborative Research Centre:**

**Morgan Sample**, Prof. Dr. med.

 0000-0000-0000-0006

Institute of Microbial Systems Medicine

Example University

University Avenue 1, 12345 Example City  
(Germany)

 +49 000 100-6000

 morgan.sample@example.org

**Management or office of  
the Collaborative Research Centre:**

**Jamie Coordinator**, Dr. rer. nat.

 0000-0000-0000-0007

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-7000

 jamie.coordinator@example.org

Example City  
<date>



---

Prof. Dr. med. Morgan Sample  
(Spokesperson of Collaborative Research Centre)

Example City  
<date>



---

Prof. Dr. Casey President  
(Rector, chancellor, or president of Partner University)

Example City  
<date>



---

Prof. Dr. Robin Rector  
(Rector, chancellor, or president of Example University)

# Contents

## 1 General information

### 1.1 Key data — 1

1.1.1 Governing bodies of the Collaborative Research Centre — 1

1.1.2 Project leaders — 1

1.1.3 Participating institutions — 2

1.1.4 Project groups and projects — 3

### 1.2 Research profile of the Collaborative Research Centre — 5

1.2.1 Summary of the research programme — 5

1.2.2 Detailed presentation of the research programme — 5

1.2.3 Positioning of the Collaborative Research Centre within its general research area — 5

1.2.4 National and international cooperation and networking — 5

### 1.3 Research profile of the applicant university — 5

1.3.1 Strategy and planning — 5

1.3.2 Staff situation — 5

1.3.3 Research infrastructure — 6

### 1.4 Support structures — 6

1.4.1 Researchers in early career phases — 6

1.4.2 Promotion of equity and diversity — 6

1.4.3 Knowledge transfer and science communication — 7

### 1.5 Risks in international cooperation — 7

### 1.6 Considerations on aspects of ecological sustainability in project planning and implementation — 7

## 2 Existing funds and requested funds

### 2.1 Existing funds — 9

2.1.1 Overview of existing funds for direct costs — 9

2.1.2 Overview of existing staff — 9

2.1.3 List of existing instrumentation — 9

### 2.2 Previous and requested funds — 9

2.2.1 Overview — 9

2.2.2 Overview of funds requested for staff — 10

2.2.3 Overview of funds requested for instrumentation — 10

### 2.3 Upkeep of laboratory animals — 11

## 3 Project details

### A Project area A – Research Projects

A01 Microbial signalling across epithelial barriers — 15

A02 N Metabolic control of tissue-resident immunity — 19

A03 Microbiome-derived metabolites and immune memory — 23

A04 N Spatial niches of host–microbe interactions — 25

**A05 Dietary control of microbial community dynamics — 27**

**A06 N Modelling microbial resilience and recovery — 29**

**B Project area B – Research Projects**

**B01 Host defence during microbiome perturbation — 31**

**B02 N Molecular signatures of tissue regeneration — 35**

**B03 Immune circuits linking intestine and liver — 37**

**B04 N Cross-organ consequences of inflammatory stress — 39**

**B05 Patient-derived models of metabolic disease — 41**

**B06 N Translating microbial biomarkers into interventions — 43**

**Q Project area Q – Central Projects**

**Q01 Integrated imaging and analysis services — 45**

**Q02 Integrated Research Training Group — 49**

**Q03 Central coordination and data stewardship — 53**

**A Project area A – Former project**

**A00 E Former project on microbial community dynamics — 55**

**4 Bylaws of the Collaborative Research Centre**

**5 Declarations**



# 1 General information

## 1.1 Key data

### 1.1.1 Governing bodies of the Collaborative Research Centre Steering Committee of the CRC 9999

**Alex Example**, Prof. Dr. phil.

 0000-0000-0000-0002  
Department of Translational  
Biosciences  
Partner University  
Research Road 2, 54321  
Partner City (Germany)  
☎ +49 000 200-2000  
✉ alex.example@example.org

**Samira Hartmann**, Prof. Dr.  
rer. nat.

 0000-0000-0000-0016  
Centre for Computational  
Microbiology  
Northbridge University  
Science Avenue 3, 34567  
Northbridge (Germany)  
☎ +49 000 300-0006  
✉ samira@example.org

**Hansi Meier**, Dr. rer. nat.

 0000-0000-0000-0003  
Department of Translational  
Biosciences  
Partner University  
Research Road 2, 54321  
Partner City (Germany)  
☎ +49 000 200-3000  
✉ hans.meier@example.org

**Friedhelm Redata**, Prof. Dr.-  
Ing.

 0000-0000-0000-0005  
Institute of Microbial Systems  
Medicine  
Example University  
University Avenue 1, 12345  
Example City (Germany)  
☎ +49 000 100-5000  
✉ friedhelm.redata@example.org

**Morgan Sample**, Prof. Dr.  
med.

 0000-0000-0000-0006  
Institute of Microbial Systems  
Medicine  
Example University  
University Avenue 1, 12345  
Example City (Germany)  
☎ +49 000 100-6000  
✉ morgan.sample@example.org

For the third funding period, the steering committee includes representatives of both research areas and the Integrated Research Training Group. The spokesperson and committee members are elected by the CRC general assembly in accordance with the bylaws. The composition is reviewed annually with regard to scientific breadth, career stage, and equitable participation.

### 1.1.2 Project leaders

| Project leader                                  | Gende | Doctorate<br>obtained in | Home institution,<br>location                                                                                      | Project(s)                      |
|-------------------------------------------------|-------|--------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Example</b> , Alex<br>Prof. Dr. phil.        | m     | 1999                     | Department of Translational Biosciences<br>Partner University<br>Research Road 2, 54321 Partner City (Germany)     | <b>A01</b><br><b>B01</b><br>Q01 |
| <b>Hartmann</b> , Samira<br>Prof. Dr. rer. nat. | f     | 2010                     | Centre for Computational Microbiology<br>Northbridge University<br>Science Avenue 3, 34567 Northbridge (Germany)   | <b>A02</b><br><b>A03</b>        |
| <b>Keller</b> , Robin<br>Prof. Dr. rer. nat.    | d     | 2010                     | Institute of Microbial Systems Medicine<br>Example University<br>University Avenue 1, 12345 Example City (Germany) | <b>B05</b><br><b>B06</b><br>Q03 |
| <b>Lindberg</b> , Noah<br>Prof. Dr. rer. nat.   | m     | 2010                     | Centre for Clinical Translation<br>Westhaven Research Centre<br>Science Avenue 3, 34567 Westhaven (Germany)        |                                 |
|                                                 |       |                          | Centre for Computational Microbiology<br>Northbridge University<br>Science Avenue 3, 34567 Northbridge (Germany)   | <b>A03</b><br><b>A04</b><br>Q01 |
|                                                 |       |                          | Department of Experimental Immunology<br>Northbridge University<br>Science Avenue 3, 34567 Northbridge (Germany)   |                                 |

Continue on the following page ...

...continuing from previous page.

| Project leader                                             | Gende | Doctorate obtained in | Home institution, location                                                                                                                                                                                                               | Project(s)                             |
|------------------------------------------------------------|-------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Meier, Hansi</b><br>Dr. rer. nat.                       | f     | 1999                  | Department of Translational Biosciences<br>Partner University<br>Research Road 2, 54321 Partner City (Germany)                                                                                                                           | <b>B01</b><br><b>B03</b><br>Q03        |
| <b>Miller, Kimmi</b><br>Prof. Dr. rer. nat.                | f     | 1999                  | Department of Translational Biosciences<br>Partner University<br>Research Road 2, 54321 Partner City (Germany)                                                                                                                           | <b>B02</b><br><b>B04</b>               |
| <b>Navarro, Leonie</b><br>Prof. Dr. rer. nat.              | f     | 2010                  | Institute of Metabolic Medicine<br>Westhaven Research Centre<br>Science Avenue 3, 34567 Westhaven (Germany)                                                                                                                              | <b>A05</b><br><b>A06</b><br>Q02        |
| <b>Okafor, Daniel</b><br>Prof. Dr. rer. nat.               | m     | 2010                  | Institute of Metabolic Medicine<br>Westhaven Research Centre<br>Science Avenue 3, 34567 Westhaven (Germany)<br><br>Centre for Clinical Translation<br>Westhaven Research Centre<br>Science Avenue 3, 34567 Westhaven (Germany)           | <b>A06</b><br><b>B02</b><br><b>B06</b> |
| <b>Redata, Friedhelm</b><br>Prof. Dr.-Ing.                 | m     | 1998                  | Institute of Microbial Systems Medicine<br>Example University<br>University Avenue 1, 12345 Example City (Germany)                                                                                                                       | <b>B05</b><br>Q02                      |
| <b>Sample, Kim</b><br>Prof. Dr. rer. nat.                  | d     | 2000                  | Institute of Microbial Systems Medicine<br>Example University<br>University Avenue 1, 12345 Example City (Germany)<br><br>Department of Translational Biosciences<br>Partner University<br>Research Road 2, 54321 Partner City (Germany) | <b>A01</b><br><b>A02</b>               |
| <b>Sato, Mira</b><br>Prof. Dr. rer. nat.                   | f     | 2010                  | Centre for Clinical Translation<br>Westhaven Research Centre<br>Science Avenue 3, 34567 Westhaven (Germany)                                                                                                                              | <b>B03</b><br><b>B04</b>               |
| <b>Winters-Scholz, Alexis-Marie</b><br>Prof. Dr. rer. nat. | d     | 2010                  | Department of Experimental Immunology<br>Northbridge University<br>Science Avenue 3, 34567 Northbridge (Germany)                                                                                                                         | <b>A04</b><br><b>A05</b>               |

### 1.1.3 Participating institutions

**Northbridge University** (Northbridge)  
Centre for Computational Microbiology  
Department of Experimental Immunology

**Westhaven Research Centre** (Westhaven)  
Institute of Metabolic Medicine  
Centre for Clinical Translation

**Example University** (Example City)  
Institute of Microbial Systems Medicine

**Partner University** (Partner City)  
Department of Translational Biosciences

## 1.1.4 Project groups and projects

### Project area A – Microbiota and metabolic pathways

| Project |   | Title                                            | Research area | Project leader(s), institute(s), location(s)                                                                                                                                                                                                              |
|---------|---|--------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A01     |   | Microbial signalling across epithelial barriers  | 2.21-02       | Kim <b>Sample</b> , Institute of Microbial Systems Medicine, Example University; Department of Translational Biosciences, Partner University<br>Alex <b>Example</b> , Department of Translational Biosciences, Partner University                         |
| A02     | N | Metabolic control of tissue-resident immunity    | 2.21-05       | Kim <b>Sample</b> , Institute of Microbial Systems Medicine, Example University; Department of Translational Biosciences, Partner University<br>Samira <b>Hartmann</b> , Centre for Computational Microbiology, Northbridge University                    |
| A03     |   | Microbiome-derived metabolites and immune memory | 2.21-02       | Samira <b>Hartmann</b> , Centre for Computational Microbiology, Northbridge University<br>Noah <b>Lindberg</b> , Centre for Computational Microbiology, Northbridge University; Department of Experimental Immunology, Northbridge University             |
| A04     | N | Spatial niches of host–microbe interactions      | 2.21-02       | Noah <b>Lindberg</b> , Centre for Computational Microbiology, Northbridge University; Department of Experimental Immunology, Northbridge University<br>Alexis-Marie <b>Winters-Scholz</b> , Department of Experimental Immunology, Northbridge University |
| A05     |   | Dietary control of microbial community dynamics  | 2.21-02       | Alexis-Marie <b>Winters-Scholz</b> , Department of Experimental Immunology, Northbridge University<br>Leonie <b>Navarro</b> , Institute of Metabolic Medicine, Westhaven Research Centre                                                                  |
| A06     | N | Modelling microbial resilience and recovery      | 2.21-02       | Leonie <b>Navarro</b> , Institute of Metabolic Medicine, Westhaven Research Centre<br>Daniel <b>Okafor</b> , Institute of Metabolic Medicine, Westhaven Research Centre; Centre for Clinical Translation, Westhaven Research Centre                       |

### Project area B – Immunological circuits

| Project |   | Title                                           | Research area                 | Project leader(s), institute(s), location(s)                                                                                                                                                                                           |
|---------|---|-------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B01     |   | Host defence during microbiome perturbation     | 2.21-03<br>2.21-05<br>2.22-15 | Hansi <b>Meier</b> , Department of Translational Biosciences, Partner University<br>Alex <b>Example</b> , Department of Translational Biosciences, Partner University                                                                  |
| B02     | N | Molecular signatures of tissue regeneration     | 2.22-15                       | Kimmi <b>Miller</b> , Department of Translational Biosciences, Partner University<br>Daniel <b>Okafor</b> , Institute of Metabolic Medicine, Westhaven Research Centre; Centre for Clinical Translation, Westhaven Research Centre     |
| B03     |   | Immune circuits linking intestine and liver     | 2.21-02                       | Hansi <b>Meier</b> , Department of Translational Biosciences, Partner University<br>Mira <b>Sato</b> , Centre for Clinical Translation, Westhaven Research Centre                                                                      |
| B04     | N | Cross-organ consequences of inflammatory stress | 2.21-02                       | Kimmi <b>Miller</b> , Department of Translational Biosciences, Partner University<br>Mira <b>Sato</b> , Centre for Clinical Translation, Westhaven Research Centre                                                                     |
| B05     |   | Patient-derived models of metabolic disease     | 2.21-02                       | Friedhelm <b>Redata</b> , Institute of Microbial Systems Medicine, Example University<br>Robin <b>Keller</b> , Institute of Microbial Systems Medicine, Example University; Centre for Clinical Translation, Westhaven Research Centre |

Continue on the following page ...

...continuing from previous page.

| Project    | Title                                                 | Research area | Project leader(s), institute(s), location(s)                                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B06</b> | N Translating microbial biomarkers into interventions | 2.21-02       | Daniel <b>Okafor</b> , Institute of Metabolic Medicine, Westhaven Research Centre; Centre for Clinical Translation, Westhaven Research Centre<br>Robin <b>Keller</b> , Institute of Microbial Systems Medicine, Example University; Centre for Clinical Translation, Westhaven Research Centre |

#### Project area Q – Central projects

| Project    | Title                                     | Research area      | Project leader(s), institute(s), location(s)                                                                                                                                                                                             |
|------------|-------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Q01</b> | Integrated imaging and analysis services  | 2.21-02<br>2.22-15 | Alex <b>Example</b> , Department of Translational Biosciences, Partner University<br>Noah <b>Lindberg</b> , Centre for Computational Microbiology, Northbridge University; Department of Experimental Immunology, Northbridge University |
| <b>Q02</b> | Integrated Research Training Group        |                    | Friedhelm <b>Redata</b> , Institute of Microbial Systems Medicine, Example University<br>Leonie <b>Navarro</b> , Institute of Metabolic Medicine, Westhaven Research Centre                                                              |
| <b>Q03</b> | Central coordination and data stewardship |                    | Hansi <b>Meier</b> , Department of Translational Biosciences, Partner University<br>Robin <b>Keller</b> , Institute of Microbial Systems Medicine, Example University; Centre for Clinical Translation, Westhaven Research Centre        |

N: New projects started in the third funding period; E: Ending projects not continued in the third funding period; Research areas according to the German Research Foundation (2024–2028)<sup>1</sup>: **2.21-02**: Microbial Ecology and Applied Microbiology, **2.21-03**: Medical Microbiology and Mycology, Hygiene, Molecular Infection Biology, **2.21-05**: Immunology, and **2.22-15**: Gastroenterology.

<sup>1</sup> <https://www.dfg.de/resource/blob/331950/fachsystematik-2024-2028-en.pdf>

## 1.2 Research profile of the Collaborative Research Centre

### Spotlights: Moving Forward

- ⊙ Resolve causal mechanisms of communication between microbial communities, epithelial barriers, and tissue-resident immune cells.
- ⊙ Combine spatial profiling, experimental perturbation, and predictive modelling across the participating projects.
- ⊙ Translate shared methods into reproducible services, interoperable data, and structured training for researchers in early career phases.

### 1.2.1 Summary of the research programme

The CRC investigates how microbial and host-derived signals cross epithelial barriers and influence organ function. During the previous funding periods, the consortium established shared cohorts, experimental models, imaging workflows, and computational methods. The new programme links these resources in hypothesis-driven projects that test causality across molecular, cellular, and tissue scales.

### 1.2.2 Detailed presentation of the research programme

Project area A examines microbial metabolites and barrier signalling, whereas project area B focuses on immune circuits and tissue responses. The central projects provide imaging, analysis, training, coordination, and research-data services. Common samples, harmonised metadata, and reciprocal collaborations connect the individual work programmes and enable validation across models and participating institutions.

### 1.2.3 Positioning of the Collaborative Research Centre within its general research area

The programme combines mechanistic microbiome research with systems immunology and organ physiology. Its distinguishing feature is the coordinated validation of candidate signals from discovery cohorts through controlled experimental systems to tissue-level readouts, supported by shared technology and transparent data-management standards.

### 1.2.4 National and international cooperation and networking

The CRC maintains method-oriented collaborations with national infrastructure networks and international partner laboratories. Cooperation agreements define sample and data transfer, authorship, quality assurance, and access to specialised technologies. Visiting-researcher and exchange formats are coordinated through the Integrated Research Training Group.

## 1.3 Research profile of the applicant university

### 1.3.1 Strategy and planning

Example University has identified host–microbiome research as a strategic priority and supports the CRC through permanent scientific positions, shared technical platforms, research-data infrastructure, and central administration. Annual reviews align institutional investments with the scientific milestones of the consortium.

### 1.3.2 Staff situation

The participating units contribute principal investigators, research staff, technical personnel, data stewards, and administrative support. Recruitment planning prioritises timely appointments, transparent selection procedures, career development, and continuity of essential technical expertise.



1.3.3 Research infrastructure

The CRC has access to advanced microscopy, flow cytometry, sequencing, gnotobiotic facilities, secure data storage, and high-performance computing. Central projects coordinate access, training, maintenance, and quality control so that methods and datasets remain comparable across all projects.

1.4 Support structures

1.4.1 Researchers in early career phases

Researchers in early career phases receive structured scientific and career mentoring, transferable-skills training, annual progress reviews, and access to methods courses and exchange opportunities organised by **Q02 (Redata / Navarro)**.

| Project | Surname, first name | Type of funding | Topic                                            | Duration        |
|---------|---------------------|-----------------|--------------------------------------------------|-----------------|
| A01     | Sample, Kimmi       | DFG             | Epithelial sensing of microbial metabolites      | 2025-04–2029-06 |
| B01     | Wunderlich, Kimmi   | DFG             | Immune signatures during microbiome perturbation | 2025-04–2029-06 |

*Note:* Row colours indicate category of doctoral candidates: **Dr rer. nat.**, **Dr med.**. **RS** = Rising Star. Doctoral candidates with highlighted names have obtained the doctoral degree. MD denotes medical students supported by DFG stipends for up to 6 months.

1.4.2 Promotion of equity and diversity

Recruitment, supervision, and committee appointments follow transparent criteria and are monitored by career stage and gender. Flexible working arrangements, mentoring, accessibility measures, and targeted career support are available through the central coordination project.

## A. Objectives for the participation of female researchers

|                          | Second funding period |                         |     | Third funding period |
|--------------------------|-----------------------|-------------------------|-----|----------------------|
|                          | Objective [%]         | Status Quo <sup>a</sup> |     | Objective [%]        |
|                          |                       | Number                  | [%] | f                    |
| Doctoral researchers     | 40                    | 20                      | 14  | 40                   |
| Postdoctoral researchers | 22                    | 34                      | 44  | 34                   |

<sup>a</sup> Reference date: proposal for third funding period

## B. Project leaders

| Position (female)                                                        | First funding period |          | Second funding period |           | Status Quo <sup>a</sup><br>Third funding period |          |           |
|--------------------------------------------------------------------------|----------------------|----------|-----------------------|-----------|-------------------------------------------------|----------|-----------|
|                                                                          | Number               | [%]      | Number                | [%]       | Original objective [%]                          | Number   | [%]       |
| Postdoctoral researchers                                                 | 0                    | 0        | 1                     | 100       | 34                                              | 1        | 100       |
| Research group leaders, junior research group leaders, junior professors | 0                    | 0        | 0                     | 0         | 34                                              | 0        | 0         |
| Professors W2/C3                                                         | 0                    | 0        | 1                     | 100       | 34                                              | 4        | 44        |
| Professors W3/C4                                                         | 0                    | 0        | 0                     | 0         | 34                                              | 0        | 0         |
| <b>Total</b>                                                             | <b>0</b>             | <b>0</b> | <b>2</b>              | <b>50</b> |                                                 | <b>5</b> | <b>42</b> |

<sup>a</sup> Reference date: proposal for third funding period

### 1.4.3 Knowledge transfer and science communication

The CRC communicates results through open research resources, public lectures, school and patient-group activities, and dialogue formats with clinical and societal stakeholders. Transfer opportunities are assessed early, with clear procedures for intellectual property, responsible communication, and reusable research outputs.

### 1.5 Risks in international cooperation

International partnerships are reviewed for legal, ethical, export-control, data-protection, and research-security risks. Written agreements specify permitted data and material transfers, access rights, publication principles, and responsibilities. The participating universities reassess collaborations when partners, technologies, or regulatory conditions change.

### 1.6 Considerations on aspects of ecological sustainability in project planning and implementation

The CRC considers ecological sustainability when planning experiments, procurement, travel, computing, sample storage, and shared infrastructure. Projects consolidate measurement campaigns, share equipment and reference materials, select proportionate data-retention and computing strategies, and prefer lower-emission travel or remote participation where this is compatible with the scientific objective. The steering committee reviews these measures alongside scientific feasibility, research quality, legal obligations, animal welfare, and the responsible use of resources.



## 2 Existing funds and requested funds

### 2.1 Existing funds

#### 2.1.1 Overview of existing funds for direct costs

| Financial year/<br>funding period | Core support provided<br>by applicant university | Core support provided<br>by other participating<br>institutions | Other funds   | Total          |
|-----------------------------------|--------------------------------------------------|-----------------------------------------------------------------|---------------|----------------|
| 2022 2                            | 1,000                                            | 2,000                                                           | 3,000         | 6,000          |
| 2023                              | 1,000                                            | 2,000                                                           | 3,000         | 6,000          |
| 2024                              | 1,000                                            | 2,000                                                           | 3,000         | 6,000          |
| 2025                              | 1,000                                            | 2,000                                                           | 3,000         | 6,000          |
| 2026 1                            | 1,000                                            | 2,000                                                           | 3,000         | 6,000          |
| <b>Ending Funding period</b>      | <b>5,000</b>                                     | <b>10,000</b>                                                   | <b>15,000</b> | <b>30,000</b>  |
| 2027 2                            | 13,600                                           | 3,200                                                           | 0             | 16,800         |
| 2028                              | 56,300                                           | 2,500                                                           | 0             | 58,800         |
| 2029                              | 23,600                                           | 23,100                                                          | 0             | 46,700         |
| 2030                              | 3,100                                            | 7,600                                                           | 0             | 10,700         |
| 2031 1                            | 40,800                                           | 5,400                                                           | 0             | 46,200         |
| <b>New Funding period</b>         | <b>137,400</b>                                   | <b>41,800</b>                                                   | <b>0</b>      | <b>179,200</b> |

Note: Figures in EUR

#### 2.1.2 Overview of existing staff

| Category                         | Number of persons              |                                           |
|----------------------------------|--------------------------------|-------------------------------------------|
|                                  | at the applicant<br>university | at other<br>participating<br>institutions |
|                                  | EU                             | PU                                        |
| Professors                       | 1                              | 2                                         |
| Junior research group<br>leaders | 0                              | 0                                         |
| Postdoctoral researchers         | 0                              | 0                                         |
| Doctoral researchers             | 0                              | 0                                         |
| Other research staff             | 0                              | 0                                         |
| Non-research staff               | 1                              | 1                                         |
| Student and graduate assistants  | 0                              | 0                                         |

**Affiliations:** EU: Example University; PU: Partner University.

#### 2.1.3 List of existing instrumentation

| Project        | Description of instrumentation                                    | Year of<br>purchase | Cost of<br>purchase <sup>a</sup> | Source of<br>funding |
|----------------|-------------------------------------------------------------------|---------------------|----------------------------------|----------------------|
| <b>A01</b>     | 1 × Confocal laser-scanning microscope (Example Instruments GmbH) | 2025                | 250                              | DFG                  |
| <b>A01/B01</b> | 2 × Anaerobic workstation (Laboratory Systems AG)                 | 2024                | 80                               | Institutional funds  |

<sup>a</sup> Figures in thousands

## 2.2 Previous and requested funds

### 2.2.1 Overview

| Financial year/<br>funding period | Funding for |              |                 |             |             | Total  |
|-----------------------------------|-------------|--------------|-----------------|-------------|-------------|--------|
|                                   | Staff       | Direct costs | Instrumentation | Fellowships | Globalfunds |        |
| 2022 2                            | 1,000       | 2,000        | 3,000           | 4,000       | 5,000       | 15,000 |
| 2023                              | 1,000       | 2,000        | 3,000           | 4,000       | 5,000       | 15,000 |

Continue on the following page ...

...continuing from previous page.

| Financial year/<br>funding period | Funding for |              |                 |             |             | Total     |
|-----------------------------------|-------------|--------------|-----------------|-------------|-------------|-----------|
|                                   | Staff       | Direct costs | Instrumentation | Fellowships | Globalfunds |           |
| 2024                              | 1,000       | 2,000        | 3,000           | 4,000       | 5,000       | 15,000    |
| 2025                              | 1,000       | 2,000        | 3,000           | 4,000       | 5,000       | 15,000    |
| 2026   1                          | 1,000       | 2,000        | 3,000           | 4,000       | 5,000       | 15,000    |
| <b>Ending Funding period</b>      | 5,000       | 10,000       | 15,000          | 20,000      | 25,000      | 75,000    |
| 2027   2                          | 734,158     | 19,112       | 6,000           | 1,000       | 6,000       | 766,270   |
| 2028                              | 1,468,325   | 28,067       | 2,000           | 1,000       | 7,000       | 1,506,392 |
| 2029                              | 1,468,325   | 39,843       | 3,000           | 1,000       | 8,000       | 1,520,168 |
| 2030                              | 1,468,325   | 34,375       | 4,000           | 1,000       | 9,000       | 1,516,700 |
| 2031   1                          | 734,158     | 25,983       | 5,000           | 1,000       | 10,000      | 776,141   |
| <b>New Funding period</b>         | 5,873,291   | 147,380      | 20,000          | 5,000       | 40,000      | 6,085,671 |

Note: Figures in EUR

## 2.2.2 Overview of funds requested for staff

| Project      | 2027   2                 |                      |                      |                    |                                 | 2028                     |                      |                      |                    |                                 | 2029                     |                      |                      |                    |                                 | 2030                     |                      |                      |                    |                                 | 2031   1                 |                      |                      |                    |                                 |
|--------------|--------------------------|----------------------|----------------------|--------------------|---------------------------------|--------------------------|----------------------|----------------------|--------------------|---------------------------------|--------------------------|----------------------|----------------------|--------------------|---------------------------------|--------------------------|----------------------|----------------------|--------------------|---------------------------------|--------------------------|----------------------|----------------------|--------------------|---------------------------------|
|              | Postdoctoral researchers | Doctoral researchers | Other research staff | Non-research staff | Student and graduate assistants | Postdoctoral researchers | Doctoral researchers | Other research staff | Non-research staff | Student and graduate assistants | Postdoctoral researchers | Doctoral researchers | Other research staff | Non-research staff | Student and graduate assistants | Postdoctoral researchers | Doctoral researchers | Other research staff | Non-research staff | Student and graduate assistants | Postdoctoral researchers | Doctoral researchers | Other research staff | Non-research staff | Student and graduate assistants |
| A01          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| A02          | 1                        | 1                    | x                    | x                  | x                               | 1                        | 1                    | x                    | x                  | x                               | 1                        | 1                    | x                    | x                  | x                               | 1                        | 1                    | x                    | x                  | x                               | 1                        | 1                    | x                    | x                  | x                               |
| A03          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| A04          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| A05          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| A06          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| B01          | 1                        | x                    | x                    | x                  | x                               | 1                        | x                    | x                    | x                  | x                               | 1                        | x                    | x                    | x                  | x                               | 1                        | x                    | x                    | x                  | x                               | 1                        | x                    | x                    | x                  | x                               |
| B02          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| B03          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| B04          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| B05          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| B06          | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               | x                        | 1                    | x                    | x                  | x                               |
| Q01          | x                        | x                    | x                    | 1                  | x                               | x                        | x                    | x                    | 1                  | x                               | x                        | x                    | x                    | 1                  | x                               | x                        | x                    | x                    | 1                  | x                               | x                        | x                    | x                    | 1                  | x                               |
| Q02          | x                        | 1                    | x                    | 1                  | x                               | x                        | 1                    | x                    | 1                  | x                               | x                        | 1                    | x                    | 1                  | x                               | x                        | 1                    | x                    | 1                  | x                               | x                        | 1                    | x                    | 1                  | x                               |
| Q03          | x                        | x                    | x                    | 1                  | x                               | x                        | x                    | 1                    | x                  | x                               | x                        | x                    | 1                    | x                  | x                               | x                        | x                    | x                    | 1                  | x                               | x                        | x                    | 1                    | x                  | x                               |
| <b>Total</b> | 2                        | 12                   | x                    | 3                  | x                               | 2                        | 12                   | x                    | 3                  | x                               | 2                        | 12                   | x                    | 3                  | x                               | 2                        | 12                   | x                    | 3                  | x                               | 2                        | 12                   | x                    | 3                  | x                               |

## 2.2.3 Overview of funds requested for instrumentation

| Project      | Description of<br>instrumentation | Funds requested for |       |       |       |          |
|--------------|-----------------------------------|---------------------|-------|-------|-------|----------|
|              |                                   | 2027   2            | 2028  | 2029  | 2030  | 2031   1 |
| A01          | Live-cell imaging system          | 1,000               | 2,000 | 3,000 | 4,000 | 5,000    |
| A02          | Specialised instrument            | 5,000               | 0     | 0     | 0     | 0        |
| <b>Total</b> |                                   | 6,000               | 2,000 | 3,000 | 4,000 | 5,000    |

Note: Figures in EUR

2.3 Upkeep of laboratory animals

| Project   | Species             | Quantity               | Average number of weeks kept | Housing costs per animal per week <sup>a</sup> | Purchasing costs per animal <sup>a</sup> | Re-quested funds <sup>a</sup> | Existing funds <sup>a</sup> |
|-----------|---------------------|------------------------|------------------------------|------------------------------------------------|------------------------------------------|-------------------------------|-----------------------------|
| A01       | Mouse               | 1,212                  | 43                           | 0.75                                           | 23                                       | 100                           | 232                         |
| A01 / A02 | Rat                 | 2                      | 3                            | 1.4                                            | 24                                       | 1,230                         | 232                         |
| B01       | Mouse (gnotobiotic) | 3                      | 43                           | 3.9                                            | 23                                       | 201                           | 132                         |
| Total     |                     | Mice: 1,215<br>Rats: 2 |                              |                                                |                                          | 1,531                         | 596                         |

<sup>a</sup> Figures in EUR



### 3 Project details



### 3.1 General information about Project A01

#### 3.1.1 Project title: Microbial signalling across epithelial barriers

#### 3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

#### 3.1.3 Project leaders

**Kim Sample**, Prof. Dr. rer. nat.

 0000-0000-0000-0001

Institute of Microbial Systems Medicine  
Example University  
University Avenue 1, 12345 Example City  
(Germany)

Department of Translational Biosciences  
Partner University  
Research Road 2, 54321 Partner City (Germany)  
 +49 000 100-1000  
 kim.sample@example.org

**Alex Example**, Prof. Dr. phil.

 0000-0000-0000-0002

Department of Translational Biosciences  
Partner University  
Research Road 2, 54321 Partner City (Germany)  
 +49 000 200-2000  
 alex.example@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Sample), **no** (Example)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **yes** (Sample), **no** (Example)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **yes** (Sample), **no** (Example)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Sample), **yes** (Example)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |                                                                                          |
|----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. |  no |
| 2. | clinical trials                                                                    |  no |
| 3. | experiments involving vertebrates.                                                 |  no |
| 4. | experiments involving recombinant DNA.                                             |  no |
| 5. | research involving human embryonic stem cells.                                     |  no |
| 6. | research concerning the Convention on Biological Diversity.                        |  no |
| 7. | investigations involving dual use research of concern.                             |  no |

### 3.2 Summary

Summarise the continuing project's central question, progress, planned work, methods, and contribution to the Collaborative Research Centre.

### 3.3 Project progress to date

#### 3.3.1 Report and current state of research

Report the work and results from the previous funding periods, relate them to the current state of research, and explain how they motivate the new plan.

#### 3.3.2 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Define the underlying mechanism.

**Aim 2:** Validate the mechanism experimentally.

**Aim 3:** Integrate the findings across the CRC.

Refer to one aim as **Aim 1**, or to several as **Aims 1 to 3**.

#### WP 1: Mechanistic analysis

Describe the work, methods, milestones, risks, and expected results of **WP 1**.

**WP 1a:** Establish and validate the experimental system.

**WP 1b:** Perform the mechanistic experiments and define decision points.

#### WP 2: Experimental validation

Describe the validation strategy, expected results, and contingency plan of **WP 2**.

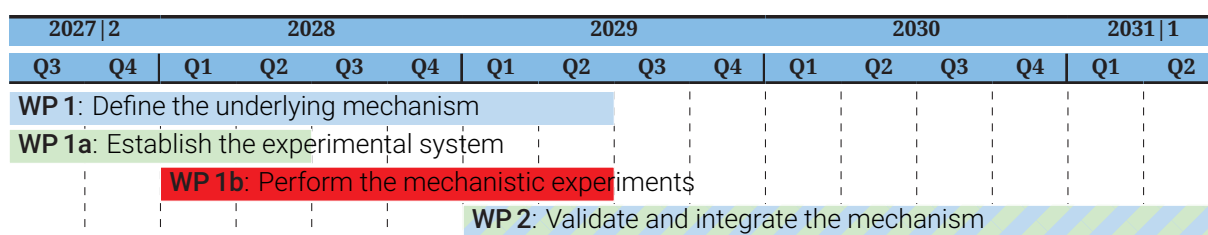


Fig. 1: Gantt chart of **A01**.

### 3.5 Relevance of sex, gender and/or diversity in the research project

Explain whether and how sex, gender, and diversity affect the research questions, design, analysis, and interpretation.

### 3.6 Role within the Collaborative Research Centre

Describe the project's contribution to the CRC and its principal collaborations.



Fig. 2: Collaborations of **A01**.

### 3.7 Differentiation from other funded projects

Explain how this project differs from, and complements, other funded work of the project leaders.

### 3.8 Project funding

#### 3.8.1 Previous funding

Funding of this project within the Collaborative Research Centre started in July 2019. Preparatory work was funded by Example University's seed-fund programme from January 2018 to June 2019 (reference number EU-EXAMPLE-01).

## 3.8.2 Requested funding

| Funding for                  | 2027 2  |         | 2028    |         | 2029    |         | 2030    |         | 2031 1  |         |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Staff                        | Qty     | Sum     | Qty     | Sum     | Qty     | Sum     | Qty     | Sum     | Qty     | Sum     |
| Professor, 100 %             | 2       | 126,600 | 2       | 253,200 | 2       | 253,200 | 2       | 253,200 | 2       | 126,600 |
| Doctoral researcher, 65 %    | 1       | 26,500  | 1       | 53,000  | 1       | 53,000  | 1       | 53,000  | 1       | 26,500  |
| Total                        |         | 153,100 |         | 306,200 |         | 306,200 |         | 306,200 |         | 153,100 |
| Direct Costs                 | Sum     |         | Sum     |         | Sum     |         | Sum     |         | Sum     |         |
| Laboratory consumables       | 2,112   |         | 67      |         | 9,843   |         | 2,375   |         | 983     |         |
| Sequencing and data analysis | 1,000   |         | 2,000   |         | 3,000   |         | 4,000   |         | 5,000   |         |
| Total                        | 3,112   |         | 2,067   |         | 12,843  |         | 6,375   |         | 5,983   |         |
| Instrumentation              | Sum     |         | Sum     |         | Sum     |         | Sum     |         | Sum     |         |
| Live-cell imaging system     | 1,000   |         | 2,000   |         | 3,000   |         | 4,000   |         | 5,000   |         |
| Total                        | 1,000   |         | 2,000   |         | 3,000   |         | 4,000   |         | 5,000   |         |
| <b>Total</b>                 | 157,212 |         | 310,267 |         | 322,043 |         | 316,575 |         | 164,083 |         |

Note: Figures in EUR

## Requested funding for staff for the new funding period

|                        | No. | Name, academic degree, position                                   | Field of research                 | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category                | Funding source |
|------------------------|-----|-------------------------------------------------------------------|-----------------------------------|----------------------------------------|-------------------------|-------------------------|----------------|
| <b>Existing staff</b>  |     |                                                                   |                                   |                                        |                         |                         |                |
| Research staff         | 1.  | <b>Sample</b> , Kim, Prof. Dr. rer. nat. (Professor and Director) | Microbiology and systems medicine | IMSM, DTB                              | 8                       |                         | State funds    |
| Non-research staff     | 2.  | <b>Example</b> , Alex, M.Sc. (Technical assistant)                | Laboratory management             | IMSM                                   | 20                      |                         | Core support   |
| <b>Requested staff</b> |     |                                                                   |                                   |                                        |                         |                         |                |
| Research staff         | 3.  | <b>TBA</b> (Postdoctoral researcher)                              | Host-microbiome interactions      | DTB                                    |                         | Postdoctoral researcher |                |
| Non-research staff     | 4.  | <b>Demo</b> , Taylor, B.Sc. (Research assistant)                  | Biobanking and data curation      | DTB                                    |                         | Research assistant      |                |

**Institutions:** **IMSM:** Institute of Microbial Systems Medicine (EU); **DTB:** Department of Translational Biosciences (PU).

**Affiliations:** **EU:** Example University; **PU:** Partner University.

Job descriptions of staff for the proposed funding period (supported through existing funds):

- Prof. Dr. rer. nat. Kim Sample** Leads the experimental programme and supervises the research staff assigned to the project.
- M.Sc. Alex Example** Maintains shared laboratory workflows and coordinates sample logistics.

Job descriptions of staff for the proposed funding period (requested funds):

- TBA** Performs the planned mechanistic experiments and integrates molecular and clinical datasets.
- B.Sc. Taylor Demo** Supports biobanking, quality control, and structured curation of the project datasets.

## Requested funding for direct costs for the new funding period

|                                                         | 2027 2 | 2028   | 2029   | 2030  | 2031 1 |
|---------------------------------------------------------|--------|--------|--------|-------|--------|
| PU: existing funds from Partner University core support | 1,200  | 500    | 21,100 | 5,600 | 3,400  |
| EU: existing funds from Example University core support | 11,100 | 53,800 | 21,100 | 600   | 38,300 |
| <b>Sum of existing funds</b>                            | 12,300 | 54,300 | 42,200 | 6,200 | 41,700 |

Continue on the following page ...

...continuing from previous page.

|                               | 2027   2 | 2028  | 2029   | 2030  | 2031   1 |
|-------------------------------|----------|-------|--------|-------|----------|
| <b>Sum of requested funds</b> | 3,112    | 2,067 | 12,843 | 6,375 | 5,983    |

Note: Figures in EUR

#### Text

|                                              |     |        |
|----------------------------------------------|-----|--------|
| Laboratory consumables and antibodies        | EUR | 15,000 |
| Single-cell sequencing and spatial profiling | EUR | 12,000 |
| Research data storage and analysis           | EUR | 3,000  |

#### Requested funding for instrumentation for the new funding period

#### Text

|                                    |     |        |
|------------------------------------|-----|--------|
| Automated live-cell imaging system | EUR | 95,000 |
| Environmental control module       | EUR | 18,000 |
| Analysis workstation and software  | EUR | 7,000  |

### 3.1 General information about Project A02 N

#### 3.1.1 Project title: Metabolic control of tissue-resident immunity

#### 3.1.2 Research area: 2.21-05: Immunology

#### 3.1.3 Project leaders

**Kim Sample**, Prof. Dr. rer. nat.

 0000-0000-0000-0001

Institute of Microbial Systems Medicine  
Example University  
University Avenue 1, 12345 Example City  
(Germany)

Department of Translational Biosciences  
Partner University  
Research Road 2, 54321 Partner City (Germany)  
 +49 000 100-1000  
 kim.sample@example.org

**Samira Hartmann**, Prof. Dr. rer. nat.

 0000-0000-0000-0016

Centre for Computational Microbiology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

 +49 000 300-0006  samira@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Sample), **no** (Hartmann)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **yes** (Sample), **no** (Hartmann)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **yes** (Sample), **no** (Hartmann)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Sample), **no** (Hartmann)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |                                                                                           |
|----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. |  no  |
| 2. | clinical trials                                                                    |  yes |
|    | A copy of the studies' registration is included with the proposal.                 |  no  |
| 3. | experiments involving vertebrates.                                                 |  yes |
| 4. | experiments involving recombinant DNA.                                             |  yes |
| 5. | research involving human embryonic stem cells.                                     |  no  |
| 6. | research concerning the Convention on Biological Diversity.                        |  yes |
| 7. | investigations involving dual use research of concern.                             |  no  |

### 3.2 Summary

Summarise the new project's central hypothesis, methods, expected results, and contribution to the Collaborative Research Centre.

### 3.3 Research rationale

#### 3.3.1 Current state of research and preliminary work

Describe the relevant state of research, preliminary work, open questions, and the scientific rationale for the proposed project.

#### 3.3.2 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish the experimental and analytical framework.

**Aim 2:** Test the central hypothesis and validate the findings.

#### WP 1: Framework and pilot experiments

Describe the methods, milestones, expected results, and risks of **WP 1** and its contribution to **Aim 1**.

#### WP 2: Hypothesis testing and validation

Describe the validation strategy and contingency plan for **WP 2** and **Aim 2**.

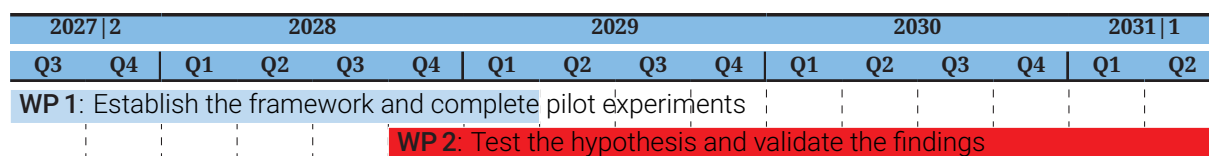


Fig. 1: Gantt chart of **A02**.

### 3.5 Relevance of sex, gender and/or diversity in the research project

Explain whether and how sex, gender, and diversity affect the research questions, design, analysis, and interpretation.

### 3.6 Role within the Collaborative Research Centre

Describe the project's contribution to the CRC and its principal collaborations.



Fig. 2: Collaborations of **A02**.

### 3.7 Differentiation from other funded projects of the project leader(s)

Explain how this new project differs from, and complements, other funded work of the project leaders.

### 3.8 Project funding

#### 3.8.1 Previous funding

State that this is a new CRC project and list related previous funding of the project leaders where applicable.

#### 3.8.2 Requested funding

| Funding for                    | 2027 2 |        | 2028 |         | 2029 |         | 2030 |         | 2031 1 |        |
|--------------------------------|--------|--------|------|---------|------|---------|------|---------|--------|--------|
| Staff                          | Qty    | Sum    | Qty  | Sum     | Qty  | Sum     | Qty  | Sum     | Qty    | Sum    |
| Postdoctoral researcher, 100 % | 1      | 45,300 | 1    | 90,600  | 1    | 90,600  | 1    | 90,600  | 1      | 45,300 |
| Doctoral researcher, 65 %      | 1      | 26,500 | 1    | 53,000  | 1    | 53,000  | 1    | 53,000  | 1      | 26,500 |
| Total                          |        | 71,800 |      | 143,600 |      | 143,600 |      | 143,600 |        | 71,800 |
| Direct Costs                   |        | Sum    |      | Sum     |      | Sum     |      | Sum     |        | Sum    |
| Consumables                    |        | 2,000  |      | 2,000   |      | 2,000   |      | 2,000   |        | 2,000  |

Continue on the following page ...

...continuing from previous page.

| Funding for            | 2027   2      | 2028           | 2029           | 2030           | 2031   1      |
|------------------------|---------------|----------------|----------------|----------------|---------------|
| Total                  | 2,000         | 2,000          | 2,000          | 2,000          | 2,000         |
| Instrumentation        | Sum           | Sum            | Sum            | Sum            | Sum           |
| Specialised instrument | 5,000         | 0              | 0              | 0              | 0             |
| Total                  | 5,000         | 0              | 0              | 0              | 0             |
| <b>Total</b>           | <b>78,800</b> | <b>145,600</b> | <b>145,600</b> | <b>145,600</b> | <b>73,800</b> |

Note: Figures in EUR

## Requested funding for staff

| No.                    | Name, academic degree, position     | Field of research             | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category                | Funding source |
|------------------------|-------------------------------------|-------------------------------|----------------------------------------|-------------------------|-------------------------|----------------|
| <b>Requested staff</b> |                                     |                               |                                        |                         |                         |                |
| Research staff         | 1. TBA<br>(Postdoctoral researcher) | Experimental systems medicine | IMSM                                   |                         | Postdoctoral researcher |                |

**Institutions:** IMSM: Institute of Microbial Systems Medicine (EU). **Affiliations:** EU: Example University.

Job descriptions of staff for the proposed funding period (requested funds):

1. **TBA** Establishes the new experimental platform, performs the mechanistic studies, and analyses the resulting datasets.

Provide the scientific and organisational justification for every requested staff position.

## Requested funding of direct costs

|                                     | 2027   2     | 2028         | 2029         | 2030         | 2031   1     |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
| EU: existing funds from State funds | 500          | 500          | 500          | 500          | 500          |
| <b>Sum of existing funds</b>        | <b>500</b>   | <b>500</b>   | <b>500</b>   | <b>500</b>   | <b>500</b>   |
| <b>Sum of requested funds</b>       | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> | <b>2,000</b> |

Note: Figures in EUR

## Text

|                                   |     |        |
|-----------------------------------|-----|--------|
| Consumables for pilot experiments | EUR | 10,000 |
| External data analysis            | EUR | 5,000  |

## Requested funding for instrumentation

## Text

|                                               |     |       |
|-----------------------------------------------|-----|-------|
| Specialised instrument including installation | EUR | 5,000 |
|-----------------------------------------------|-----|-------|



### 3.1 General information about Project A03

#### 3.1.1 Project title: Microbiome-derived metabolites and immune memory

#### 3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

#### 3.1.3 Project leaders

**Samira Hartmann**, Prof. Dr. rer. nat.

 0000-0000-0000-0016

Centre for Computational Microbiology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

 +49 000 300-0006  samira@example.org

**Noah Lindberg**, Prof. Dr. rer. nat.

Centre for Computational Microbiology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

Department of Experimental Immunology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

 +49 000 300-0007  noah@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Hartmann), **no** (Lindberg)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Hartmann), **no** (Lindberg)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Hartmann), **no** (Lindberg)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Hartmann), **no** (Lindberg)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |                                                                                          |
|----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. |  no |
| 2. | clinical trials                                                                    |  no |
| 3. | experiments involving vertebrates.                                                 |  no |
| 4. | experiments involving recombinant DNA.                                             |  no |
| 5. | research involving human embryonic stem cells.                                     |  no |
| 6. | research concerning the Convention on Biological Diversity.                        |  no |
| 7. | investigations involving dual use research of concern.                             |  no |

### 3.2 Summary

This project investigates Microbiome-derived metabolites and immune memory. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Project progress to date

The preceding funding period established the experimental models and shared datasets. The next phase tests causal mechanisms and validates their relevance across the participating projects.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

- WP 1: Experimental framework

Define the controls, sampling strategy, and analysis workflow for Aim 1.
- WP 2: Validation and integration

Test robustness and share the validated results for Aim 2.

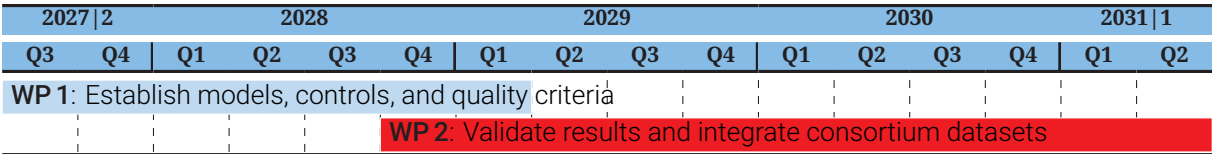


Fig. 1: Gantt chart of A03.

3.5 Relevance of sex, gender and/or diversity in the research project

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

3.6 Role within the Collaborative Research Centre

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of A03.

3.7 Differentiation from other funded projects

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

3.8 Project funding

| Funding for               | 2027   2 |        | 2028 |        | 2029 |        | 2030 |        | 2031   1 |        |
|---------------------------|----------|--------|------|--------|------|--------|------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty  | Sum    | Qty  | Sum    | Qty  | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1    | 54,405 | 1    | 54,405 | 1    | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |      | 54,405 |      | 54,405 |      | 54,405 |          | 27,202 |
| Direct Costs              |          | Sum    |      | Sum    |      | Sum    |      | Sum    |          | Sum    |
| consumables               |          | 1,000  |      | 2,000  |      | 2,000  |      | 2,000  |          | 1,000  |
| Total                     |          | 1,000  |      | 2,000  |      | 2,000  |      | 2,000  |          | 1,000  |
| Total                     |          | 28,202 |      | 56,405 |      | 56,405 |      | 56,405 |          | 28,202 |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project A04 N

3.1.1 Project title: Spatial niches of host–microbe interactions

3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

3.1.3 Project leaders

Noah Lindberg, Prof. Dr. rer. nat.

Centre for Computational Microbiology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

Department of Experimental Immunology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

☎ +49 000 300-0007 ✉ noah@example.org

Alexis-Marie Winters-Scholz, Prof. Dr. rer. nat.

Department of Experimental Immunology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)

☎ +49 000 300-0008

✉ alexis-marie@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Lindberg), **no** (Winters-Scholz)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Lindberg), **no** (Winters-Scholz)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Lindberg), **no** (Winters-Scholz)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Lindberg), **no** (Winters-Scholz)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |      |
|----|------------------------------------------------------------------------------------|------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. | ✗ no |
| 2. | clinical trials                                                                    | ✗ no |
| 3. | experiments involving vertebrates.                                                 | ✗ no |
| 4. | experiments involving recombinant DNA.                                             | ✗ no |
| 5. | research involving human embryonic stem cells.                                     | ✗ no |
| 6. | research concerning the Convention on Biological Diversity.                        | ✗ no |
| 7. | investigations involving dual use research of concern.                             | ✗ no |

### 3.2 Summary

This project investigates Spatial niches of host–microbe interactions. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Research rationale

Preliminary observations motivate a new testable hypothesis. The project establishes its experimental framework and independent validation strategy during the requested funding period.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). “The FAIR Guiding Principles for scientific data management and stewardship”. In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

3.4 Project plan

|                                                                             |
|-----------------------------------------------------------------------------|
| <b>Aim 1:</b> Establish reproducible experimental and analytical workflows. |
| <b>Aim 2:</b> Validate the findings in complementary models and datasets.   |

- WP 1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.
- WP 2: Validation and integration** Test robustness and share the validated results for Aim 2.

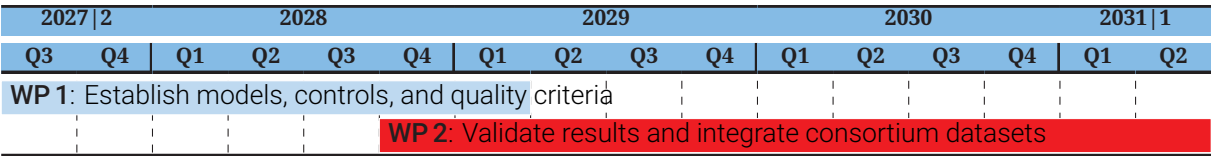


Fig. 1: Gantt chart of A04.

3.5 Relevance of sex, gender and/or diversity in the research project

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

3.6 Role within the Collaborative Research Centre

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of A04.

3.7 Differentiation from other funded projects

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

3.8 Project funding

| Funding for               | 2027 2 |        | 2028   |        | 2029   |        | 2030   |        | 2031 1 |        |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Staff                     | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    |
| Doctoral researcher, 65 % | 1      | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1      | 27,202 |
| Total                     |        | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |        | 27,202 |
| Direct Costs              | Sum    |        | Sum    |        | Sum    |        | Sum    |        | Sum    |        |
| consumables               | 1,000  |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000  |        |
| Total                     | 1,000  |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000  |        |
| Total                     | 28,202 |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202 |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project A05

3.1.1 Project title: Dietary control of microbial community dynamics

3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

3.1.3 Project leaders

**Alexis-Marie Winters-Scholz**, Prof. Dr. rer. nat.

Department of Experimental Immunology  
Northbridge University  
Science Avenue 3, 34567 Northbridge  
(Germany)  
☎ +49 000 300-0008  
✉ alexis-marie@example.org

**Leonie Navarro**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
☎ +49 000 300-0009 ✉ leonie@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Winters-Scholz), **no** (Navarro)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Winters-Scholz), **no** (Navarro)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Winters-Scholz), **no** (Navarro)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Winters-Scholz), **no** (Navarro)

#### 3.1.4 Legal issues

This project includes

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| 1. research requiring compliance with discipline-specific research ethics guidelines. | ✗ no |
| 2. clinical trials                                                                    | ✗ no |
| 3. experiments involving vertebrates.                                                 | ✗ no |
| 4. experiments involving recombinant DNA.                                             | ✗ no |
| 5. research involving human embryonic stem cells.                                     | ✗ no |
| 6. research concerning the Convention on Biological Diversity.                        | ✗ no |
| 7. investigations involving dual use research of concern.                             | ✗ no |

### 3.2 Summary

This project investigates Dietary control of microbial community dynamics. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Project progress to date

The preceding funding period established the experimental models and shared datasets. The next phase tests causal mechanisms and validates their relevance across the participating projects.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

**WP2: Validation and integration** Test robustness and share the validated results for Aim 2.

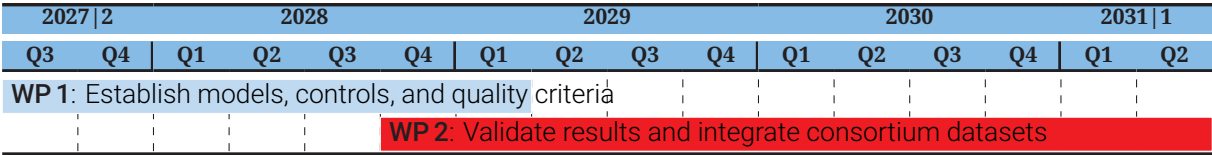


Fig. 1: Gantt chart of A05.

**3.5 Relevance of sex, gender and/or diversity in the research project**

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

**3.6 Role within the Collaborative Research Centre**

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of A05.

**3.7 Differentiation from other funded projects**

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

**3.8 Project funding**

| Funding for               | 2027   2 |        | 2028   |        | 2029   |        | 2030   |        | 2031   1 |        |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |          | 27,202 |
| Direct Costs              | Sum      |        | Sum    |        | Sum    |        | Sum    |        | Sum      |        |
| consumables               | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 28,202   |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202   |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project A06 N

#### 3.1.1 Project title: Modelling microbial resilience and recovery

#### 3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

#### 3.1.3 Project leaders

**Leonie Navarro**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
☎ +49 000 300-0009 ✉ leonie@example.org

**Daniel Okafor**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
Centre for Clinical Translation  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
☎ +49 000 300-0010 ✉ daniel@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Navarro), **no** (Okafor)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Navarro), **no** (Okafor)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Navarro), **no** (Okafor)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Navarro), **no** (Okafor)

#### 3.1.4 Legal issues

This project includes

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| 1. research requiring compliance with discipline-specific research ethics guidelines. | ✗ no |
| 2. clinical trials                                                                    | ✗ no |
| 3. experiments involving vertebrates.                                                 | ✗ no |
| 4. experiments involving recombinant DNA.                                             | ✗ no |
| 5. research involving human embryonic stem cells.                                     | ✗ no |
| 6. research concerning the Convention on Biological Diversity.                        | ✗ no |
| 7. investigations involving dual use research of concern.                             | ✗ no |

### 3.2 Summary

This project investigates Modelling microbial resilience and recovery. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Research rationale

Preliminary observations motivate a new testable hypothesis. The project establishes its experimental framework and independent validation strategy during the requested funding period.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP 1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

**WP 2: Validation and integration** Test robustness and share the validated results for Aim 2.

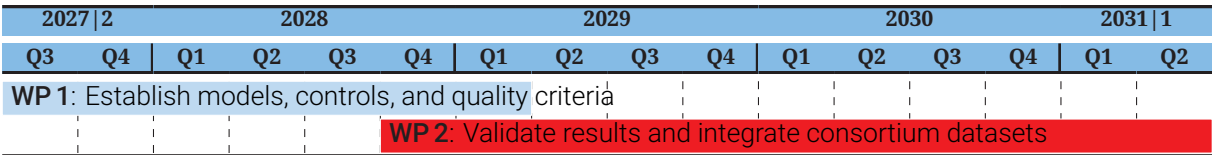


Fig. 1: Gantt chart of A06.

3.5 Relevance of sex, gender and/or diversity in the research project

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

3.6 Role within the Collaborative Research Centre

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of A06.

3.7 Differentiation from other funded projects

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

3.8 Project funding

| Funding for               | 2027   2 |        | 2028   |        | 2029   |        | 2030   |        | 2031   1 |        |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |          | 27,202 |
| Direct Costs              | Sum      |        | Sum    |        | Sum    |        | Sum    |        | Sum      |        |
| consumables               | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 28,202   |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202   |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project B01

#### 3.1.1 Project title: Host defence during microbiome perturbation

#### 3.1.2 Research areas: 2.21-03: Medical Microbiology and Mycology, Hygiene, Molecular Infection Biology, 2.21-05: Immunology, 2.22-15: Gastroenterology

#### 3.1.3 Project leaders

**Hansi Meier**, Dr. rer. nat.

 0000-0000-0000-0003

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-3000

 hansi.meier@example.org

**Alex Example**, Prof. Dr. phil.

 0000-0000-0000-0002

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-2000

 alex.example@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **yes** (Meier), **no** (Example)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Meier), **no** (Example)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Meier), **no** (Example)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **yes** (Meier), **yes** (Example)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |                                                                                          |
|----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. |  no  |
| 2. | clinical trials                                                                    |  no |
| 3. | experiments involving vertebrates.                                                 |  no |
| 4. | experiments involving recombinant DNA.                                             |  no |
| 5. | research involving human embryonic stem cells.                                     |  no |
| 6. | research concerning the Convention on Biological Diversity.                        |  no |
| 7. | investigations involving dual use research of concern.                             |  no |

### 3.2 Summary

Summarise the continuing project and the work proposed for the new funding period.

### 3.3 Project progress to date

#### 3.3.1 Report and current state of research

Report the previous work, published and unpublished results, and the current state of research.

#### 3.3.2 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Complete the mechanistic analysis.

**Aim 2:** Validate the findings with CRC partners.

**WP1: Mechanistic analysis** Describe WP 1, including methods, milestones, and risks.

**WP2: Collaborative validation** Describe WP 2 and its links to Aim 2.

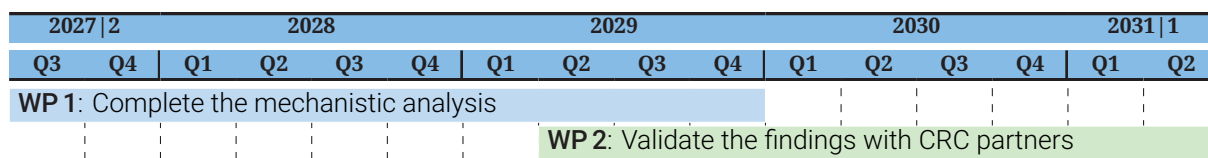


Fig. 1: Gantt chart of B01.

### 3.5 Relevance of sex, gender and/or diversity in the research project

Explain the relevance of sex, gender, and diversity, or justify why they do not affect this project's research questions and methods.

### 3.6 Role within the Collaborative Research Centre

Describe the role of the project and its reciprocal collaborations.



Fig. 2: Collaborations of B01.

### 3.7 Differentiation from other funded projects

Differentiate the project from other funded work of its project leaders.

### 3.8 Project funding

#### 3.8.1 Previous funding

State when CRC funding began and list other relevant previous funding.

#### 3.8.2 Requested funding

| Funding for                        | 2027   2 |         | 2028    |         | 2029    |         | 2030    |         | 2031   1 |         |
|------------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|
| Staff                              | Qty      | Sum     | Qty     | Sum     | Qty     | Sum     | Qty     | Sum     | Qty      | Sum     |
| (Jr.) Research group leader, 100 % | 2        | 105,000 | 2       | 210,000 | 2       | 210,000 | 2       | 210,000 | 2        | 105,000 |
| Postdoctoral researcher, 100 %     | 1        | 45,000  | 1       | 90,000  | 1       | 90,000  | 1       | 90,000  | 1        | 45,000  |
| Total                              |          | 150,000 |         | 300,000 |         | 300,000 |         | 300,000 |          | 150,000 |
| Global funds                       | Sum      |         | Sum     |         | Sum     |         | Sum     |         | Sum      |         |
| Project-wide data stewardship      | 1,000    |         | 2,000   |         | 3,000   |         | 4,000   |         | 5,000    |         |
| Total                              | 1,000    |         | 2,000   |         | 3,000   |         | 4,000   |         | 5,000    |         |
| <b>Total</b>                       | 151,000  |         | 302,000 |         | 303,000 |         | 304,000 |         | 155,000  |         |

Note: Figures in EUR

#### Requested funding for staff for the new funding period

| No.                    | Name, academic degree, position | Field of research          | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category                    | Funding source |
|------------------------|---------------------------------|----------------------------|----------------------------------------|-------------------------|-----------------------------|----------------|
| <b>Requested staff</b> |                                 |                            |                                        |                         |                             |                |
| Research staff         | 1. TBA (Research group leader)  | Translational microbiology | DTB                                    |                         | (Jr.) Research group leader |                |

**Institutions:** DTB: Department of Translational Biosciences (PU). **Affiliations:** PU: Partner University.

Job descriptions of staff for the proposed funding period (requested funds):

1. TBA Coordinates the experimental programme and the collaborative validation studies.

#### Requested funding for direct costs for the new funding period

|                                             | 2027   2 | 2028  | 2029  | 2030  | 2031   1 |
|---------------------------------------------|----------|-------|-------|-------|----------|
| PU: existing funds from Institutional funds | 1,000    | 1,000 | 1,000 | 1,000 | 1,000    |
| <b>Sum of existing funds</b>                | 1,000    | 1,000 | 1,000 | 1,000 | 1,000    |
| <b>Sum of requested funds</b>               | 0        | 0     | 0     | 0     | 0        |

Note: Figures in EUR

#### Text

|                          |     |        |
|--------------------------|-----|--------|
| Experimental consumables | EUR | 10,000 |
| Data-processing services | EUR | 5,000  |

#### Requested funding for instrumentation for the new funding period

#### Text

|                              |     |   |
|------------------------------|-----|---|
| No instrumentation requested | EUR | 0 |
|------------------------------|-----|---|



### 3.1 General information about Project B02 N

#### 3.1.1 Project title: Molecular signatures of tissue regeneration

#### 3.1.2 Research area: 2.22-15: Gastroenterology

#### 3.1.3 Project leaders

**Kimmi Miller**, Prof. Dr. rer. nat.

 0000-0000-0000-0004

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-4000

 kimmi.mueller@example.org

**Daniel Okafor**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

Centre for Clinical Translation

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

 +49 000 300-0010  daniel@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **yes** (Miller), **no** (Okafor)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Miller), **no** (Okafor)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Miller), **no** (Okafor)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **yes** (Miller), **no** (Okafor)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                                           |                                                                                           |
|----|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines.                        |  yes |
|    | A statement from the responsible ethics committee is required and will be obtained before funding starts. |  no  |
| 2. | clinical trials                                                                                           |  yes |
|    | A copy of the studies' registration is included with the proposal.                                        |  yes |
| 3. | experiments involving vertebrates.                                                                        |  yes |
| 4. | experiments involving recombinant DNA.                                                                    |  yes |
| 5. | research involving human embryonic stem cells.                                                            |  yes |
|    | Legal authorization has been obtained.                                                                    |  no  |
| 6. | research concerning the Convention on Biological Diversity.                                               |  yes |
| 7. | investigations involving dual use research of concern.                                                    |  yes |
|    | A copy of the statement by the institution's research ethics committee is included with the proposal.     |  no  |

### 3.2 Summary

This project investigates Molecular signatures of tissue regeneration. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Research rationale

Preliminary observations motivate a new testable hypothesis. The project establishes its experimental framework and independent validation strategy during the requested funding period.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP 1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

**WP 2: Validation and integration** Test robustness and share the validated results for Aim 2.

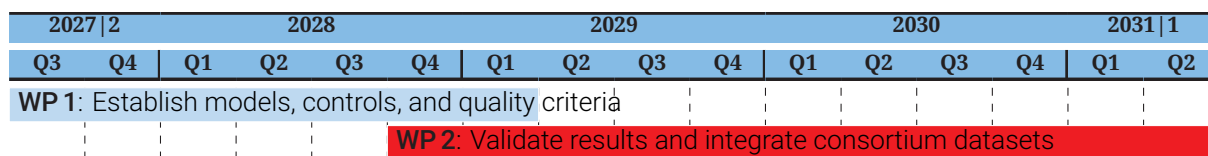


Fig. 1: Gantt chart of B02.

### 3.5 Relevance of sex, gender and/or diversity in the research project

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

### 3.6 Role within the Collaborative Research Centre

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of B02.

### 3.7 Differentiation from other funded projects

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

### 3.8 Project funding

| Funding for               | 2027 2 |        | 2028 |        | 2029 |        | 2030 |        | 2031 1 |        |
|---------------------------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| Staff                     | Qty    | Sum    | Qty  | Sum    | Qty  | Sum    | Qty  | Sum    | Qty    | Sum    |
| Doctoral researcher, 65 % | 1      | 27,202 | 1    | 54,405 | 1    | 54,405 | 1    | 54,405 | 1      | 27,202 |
| Total                     |        | 27,202 |      | 54,405 |      | 54,405 |      | 54,405 |        | 27,202 |
| Direct Costs              | Sum    |        | Sum  |        | Sum  |        | Sum  |        | Sum    |        |
| consumables               |        | 1,000  |      | 2,000  |      | 2,000  |      | 2,000  |        | 1,000  |
| Total                     |        | 1,000  |      | 2,000  |      | 2,000  |      | 2,000  |        | 1,000  |
| <b>Total</b>              |        | 28,202 |      | 56,405 |      | 56,405 |      | 56,405 |        | 28,202 |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project B03

3.1.1 Project title: Immune circuits linking intestine and liver

3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

3.1.3 Project leaders

**Hansi Meier**, Dr. rer. nat.

 0000-0000-0000-0003

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

☎ +49 000 200-3000

✉ hansi.meier@example.org

**Mira Sato**, Prof. Dr. rer. nat.

Centre for Clinical Translation

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

☎ +49 000 300-0011 ✉ mira@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **yes** (Meier), **no** (Sato)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Meier), **no** (Sato)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Meier), **no** (Sato)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **yes** (Meier), **no** (Sato)

#### 3.1.4 Legal issues

This project includes

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| 1. research requiring compliance with discipline-specific research ethics guidelines. | ✗ no |
| 2. clinical trials                                                                    | ✗ no |
| 3. experiments involving vertebrates.                                                 | ✗ no |
| 4. experiments involving recombinant DNA.                                             | ✗ no |
| 5. research involving human embryonic stem cells.                                     | ✗ no |
| 6. research concerning the Convention on Biological Diversity.                        | ✗ no |
| 7. investigations involving dual use research of concern.                             | ✗ no |

### 3.2 Summary

This project investigates Immune circuits linking intestine and liver. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Project progress to date

The preceding funding period established the experimental models and shared datasets. The next phase tests causal mechanisms and validates their relevance across the participating projects.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP 1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

**WP 2: Validation and integration** Test robustness and share the validated results for Aim 2.

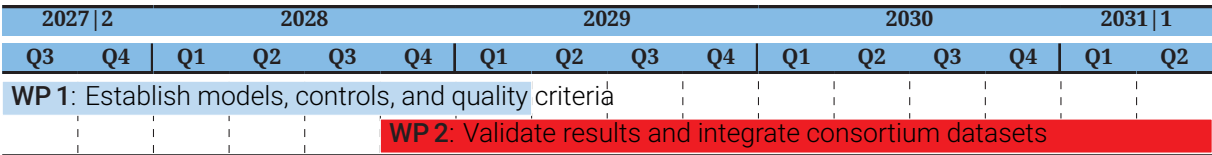


Fig. 1: Gantt chart of B03.

3.5 Relevance of sex, gender and/or diversity in the research project

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

3.6 Role within the Collaborative Research Centre

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of B03.

3.7 Differentiation from other funded projects

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

3.8 Project funding

| Funding for               | 2027   2 |        | 2028   |        | 2029   |        | 2030   |        | 2031   1 |        |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |          | 27,202 |
| Direct Costs              | Sum      |        | Sum    |        | Sum    |        | Sum    |        | Sum      |        |
| consumables               | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 28,202   |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202   |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project B04 N

#### 3.1.1 Project title: Cross-organ consequences of inflammatory stress

#### 3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

#### 3.1.3 Project leaders

**Kimmi Miller**, Prof. Dr. rer. nat.

 0000-0000-0000-0004

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

☎ +49 000 200-4000

✉ kimmi.mueller@example.org

**Mira Sato**, Prof. Dr. rer. nat.

Centre for Clinical Translation

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

☎ +49 000 300-0011 ✉ mira@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **yes** (Miller), **no** (Sato)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Miller), **no** (Sato)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Miller), **no** (Sato)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **yes** (Miller), **no** (Sato)

#### 3.1.4 Legal issues

This project includes

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| 1. research requiring compliance with discipline-specific research ethics guidelines. | ✗ no |
| 2. clinical trials                                                                    | ✗ no |
| 3. experiments involving vertebrates.                                                 | ✗ no |
| 4. experiments involving recombinant DNA.                                             | ✗ no |
| 5. research involving human embryonic stem cells.                                     | ✗ no |
| 6. research concerning the Convention on Biological Diversity.                        | ✗ no |
| 7. investigations involving dual use research of concern.                             | ✗ no |

### 3.2 Summary

This project investigates Cross-organ consequences of inflammatory stress. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Research rationale

Preliminary observations motivate a new testable hypothesis. The project establishes its experimental framework and independent validation strategy during the requested funding period.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP 1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

**WP 2: Validation and integration** Test robustness and share the validated results for Aim 2.

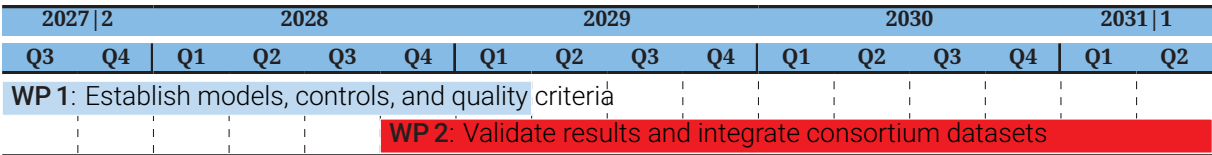


Fig. 1: Gantt chart of B04.

3.5 Relevance of sex, gender and/or diversity in the research project

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

3.6 Role within the Collaborative Research Centre

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of B04.

3.7 Differentiation from other funded projects

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

3.8 Project funding

| Funding for               | 2027   2 |        | 2028   |        | 2029   |        | 2030   |        | 2031   1 |        |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |          | 27,202 |
| Direct Costs              | Sum      |        | Sum    |        | Sum    |        | Sum    |        | Sum      |        |
| consumables               | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 28,202   |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202   |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project B05

#### 3.1.1 Project title: Patient-derived models of metabolic disease

#### 3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

#### 3.1.3 Project leaders

**Friedhelm Redata**, Prof. Dr.-Ing.

 0000-0000-0000-0005

Institute of Microbial Systems Medicine  
Example University  
University Avenue 1, 12345 Example City  
(Germany)

 +49 000 100-5000

 friedhelm.redata@example.org

**Robin Keller**, Prof. Dr. rer. nat.

Institute of Microbial Systems Medicine  
Example University  
University Avenue 1, 12345 Example City  
(Germany)

Centre for Clinical Translation

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

 +49 000 300-0012  robin@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **yes** (Redata), **no** (Keller)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **yes** (Redata), **no** (Keller)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **yes** (Redata), **no** (Keller)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Redata), **no** (Keller)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |                                                                                          |
|----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. |  no |
| 2. | clinical trials                                                                    |  no |
| 3. | experiments involving vertebrates.                                                 |  no |
| 4. | experiments involving recombinant DNA.                                             |  no |
| 5. | research involving human embryonic stem cells.                                     |  no |
| 6. | research concerning the Convention on Biological Diversity.                        |  no |
| 7. | investigations involving dual use research of concern.                             |  no |

### 3.2 Summary

This project investigates Patient-derived models of metabolic disease. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Project progress to date

The preceding funding period established the experimental models and shared datasets. The next phase tests causal mechanisms and validates their relevance across the participating projects.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

**WP2: Validation and integration** Test robustness and share the validated results for Aim 2.

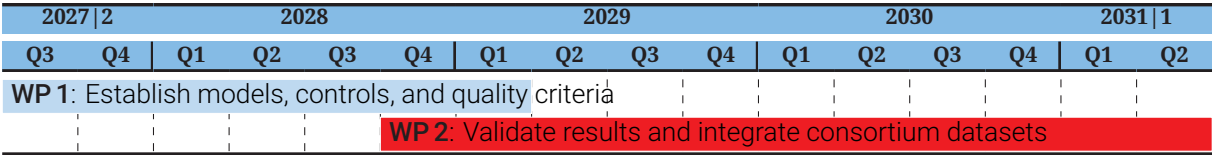


Fig. 1: Gantt chart of B05.

**3.5 Relevance of sex, gender and/or diversity in the research project**

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

**3.6 Role within the Collaborative Research Centre**

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of B05.

**3.7 Differentiation from other funded projects**

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

**3.8 Project funding**

| Funding for               | 2027   2 |        | 2028   |        | 2029   |        | 2030   |        | 2031   1 |        |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |          | 27,202 |
| Direct Costs              | Sum      |        | Sum    |        | Sum    |        | Sum    |        | Sum      |        |
| consumables               | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 28,202   |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202   |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project B06 N

#### 3.1.1 Project title: Translating microbial biomarkers into interventions

#### 3.1.2 Research area: 2.21-02: Microbial Ecology and Applied Microbiology

#### 3.1.3 Project leaders

**Daniel Okafor**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
Centre for Clinical Translation  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
☎ +49 000 300-0010 ✉ daniel@example.org

**Robin Keller**, Prof. Dr. rer. nat.

Institute of Microbial Systems Medicine  
Example University  
University Avenue 1, 12345 Example City (Germany)  
Centre for Clinical Translation  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
☎ +49 000 300-0012 ✉ robin@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Okafor), **no** (Keller)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Okafor), **no** (Keller)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Okafor), **no** (Keller)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Okafor), **no** (Keller)

#### 3.1.4 Legal issues

This project includes

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| 1. research requiring compliance with discipline-specific research ethics guidelines. | ✗ no |
| 2. clinical trials                                                                    | ✗ no |
| 3. experiments involving vertebrates.                                                 | ✗ no |
| 4. experiments involving recombinant DNA.                                             | ✗ no |
| 5. research involving human embryonic stem cells.                                     | ✗ no |
| 6. research concerning the Convention on Biological Diversity.                        | ✗ no |
| 7. investigations involving dual use research of concern.                             | ✗ no |

### 3.2 Summary

This project investigates Translating microbial biomarkers into interventions. Its project leaders combine experimental and analytical approaches within the shared research programme of CRC 9999.

### 3.3 Research rationale

Preliminary observations motivate a new testable hypothesis. The project establishes its experimental framework and independent validation strategy during the requested funding period.

#### 3.3.1 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Establish reproducible experimental and analytical workflows.

**Aim 2:** Validate the findings in complementary models and datasets.

**WP 1: Experimental framework** Define the controls, sampling strategy, and analysis workflow for Aim 1.

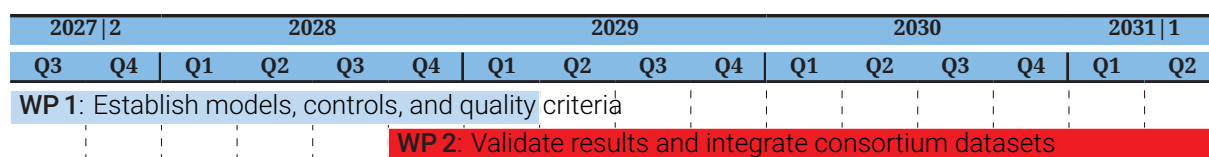
**WP2: Validation and integration** Test robustness and share the validated results for Aim 2.

Fig. 1: Gantt chart of B06.

**3.5 Relevance of sex, gender and/or diversity in the research project**

Include relevant biological variables in sampling and analysis; document the rationale for each model and the limits of generalisation.

**3.6 Role within the Collaborative Research Centre**

Share methods, data, and validation resources with the linked projects.



Fig. 2: Collaborations of B06.

**3.7 Differentiation from other funded projects**

The proposed work addresses the CRC-specific hypothesis and does not duplicate personnel or experiments supported by other grants.

**3.8 Project funding**

| Funding for               | 2027   2 |        | 2028   |        | 2029   |        | 2030   |        | 2031   1 |        |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| Staff                     | Qty      | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty      | Sum    |
| Doctoral researcher, 65 % | 1        | 27,202 | 1      | 54,405 | 1      | 54,405 | 1      | 54,405 | 1        | 27,202 |
| Total                     |          | 27,202 |        | 54,405 |        | 54,405 |        | 54,405 |          | 27,202 |
| Direct Costs              | Sum      |        | Sum    |        | Sum    |        | Sum    |        | Sum      |        |
| consumables               | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| Total                     | 1,000    |        | 2,000  |        | 2,000  |        | 2,000  |        | 1,000    |        |
| <b>Total</b>              | 28,202   |        | 56,405 |        | 56,405 |        | 56,405 |        | 28,202   |        |

Note: Figures in EUR

The doctoral researcher performs the experiments and integrates the data. Consumables cover sample preparation, assays, and independent validation.

### 3.1 General information about Project Q01

#### 3.1.1 Project title: Integrated imaging and analysis services

#### 3.1.2 Research areas: 2.21-02: Microbial Ecology and Applied Microbiology, 2.22-15: Gastroenterology

#### 3.1.3 Project leaders

**Alex Example**, Prof. Dr. phil.

 0000-0000-0000-0002

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-2000

 alex.example@example.org

**Noah Lindberg**, Prof. Dr. rer. nat.

Centre for Computational Microbiology

Northbridge University

Science Avenue 3, 34567 Northbridge

(Germany)

Department of Experimental Immunology

Northbridge University

Science Avenue 3, 34567 Northbridge

(Germany)

 +49 000 300-0007  noah@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **no** (Example), **no** (Lindberg)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **no** (Example), **no** (Lindberg)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **no** (Example), **no** (Lindberg)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **yes** (Example), **no** (Lindberg)

#### 3.1.4 Legal issues

This project includes

|    |                                                                                    |                                                                                          |
|----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. | research requiring compliance with discipline-specific research ethics guidelines. |  no |
| 2. | clinical trials                                                                    |  no |
| 3. | experiments involving vertebrates.                                                 |  no |
| 4. | experiments involving recombinant DNA.                                             |  no |
| 5. | research involving human embryonic stem cells.                                     |  no |
| 6. | research concerning the Convention on Biological Diversity.                        |  no |
| 7. | investigations involving dual use research of concern.                             |  no |

### 3.2 Summary

Summarise the service portfolio, its scientific purpose, its users, and the developments planned for the new funding period.

### 3.3 Project progress to date

#### 3.3.1 Report and current state of research

Report completed and ongoing services, usage by CRC projects, technical developments, quality assurance, and relevant service-project research.

#### 3.3.2 Project- and subject-related list of publications

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

### 3.4 Project plan

**Aim 1:** Maintain and quality-assure the core service portfolio.

**Aim 2:** Extend the portfolio for new collaborative requirements.

**WP 1: Core service provision** Describe access, sample or data handover, turnaround, quality assurance, responsibilities, and capacity for **WP 1**.

**WP 2: Service development** Describe development milestones and the projects participating in **WP 2**.

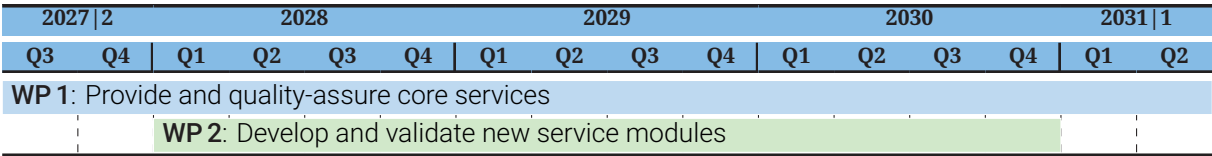


Fig. 1: Gantt chart of Q01.

### 3.5 Relevance of sex, gender and/or diversity in the research project

Explain relevance for the service methods and the studies supported by them.

### 3.6 Role within the Collaborative Research Centre

Describe which projects use the services and how priorities, access, and collaborations are coordinated.



Fig. 2: Collaborations of Q01.

### 3.7 Differentiation from other funded projects

Differentiate the CRC service from existing institutional infrastructure and other funded service activities.

### 3.8 Project funding

#### 3.8.1 Previous funding

State when the service project began and describe relevant previous funding.

#### 3.8.2 Requested funding

| Funding for              | 2027 2 |        | 2028   |        | 2029   |        | 2030   |        | 2031 1 |        |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Staff                    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    | Qty    | Sum    |
| Non-research staff, 65 % | 1      | 19,988 | 1      | 39,975 | 1      | 39,975 | 1      | 39,975 | 1      | 19,988 |
| Research assistant, 50 % | 1      | 9,000  | 1      | 18,000 | 1      | 18,000 | 1      | 18,000 | 1      | 9,000  |
| Total                    |        | 28,988 |        | 57,975 |        | 57,975 |        | 57,975 |        | 28,988 |
| Direct Costs             | Sum    |        | Sum    |        | Sum    |        | Sum    |        | Sum    |        |
| Invitation               | 1,000  |        | 2,000  |        | 3,000  |        | 4,000  |        | 5,000  |        |
| Total                    | 1,000  |        | 2,000  |        | 3,000  |        | 4,000  |        | 5,000  |        |
| Total                    | 29,988 |        | 59,975 |        | 60,975 |        | 61,975 |        | 33,988 |        |

Note: Figures in EUR

Requested funding for staff for the new funding period

| No.                | Name, academic degree, position               | Field of research      | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category           | Funding source |
|--------------------|-----------------------------------------------|------------------------|----------------------------------------|-------------------------|--------------------|----------------|
| Requested staff    |                                               |                        |                                        |                         |                    |                |
| Non-research staff | 1. Specialist, Service (Technical specialist) | Core-facility services | IMSM                                   |                         | Non-research staff |                |

**Institutions:** IMSM: Institute of Microbial Systems Medicine (EU). **Affiliations:** EU: Example University.

Job descriptions of staff for the proposed funding period (requested funds):

1. **Service Specialist** Operates the service platform, performs quality control, and supports participating projects.

Requested funding for direct costs for the new funding period

|                                             | 2027   2 | 2028  | 2029  | 2030  | 2031   1 |
|---------------------------------------------|----------|-------|-------|-------|----------|
| EU: existing funds from Core-facility funds | 1,000    | 1,000 | 1,000 | 1,000 | 1,000    |
| Sum of existing funds                       | 1,000    | 1,000 | 1,000 | 1,000 | 1,000    |
| Sum of requested funds                      | 1,000    | 2,000 | 3,000 | 4,000 | 5,000    |

Note: Figures in EUR

Text

|                                   |     |        |
|-----------------------------------|-----|--------|
| Service-specific consumables      | EUR | 10,000 |
| Maintenance and quality assurance | EUR | 5,000  |

Requested funding for instrumentation for the new funding period

Text

|                          |     |       |
|--------------------------|-----|-------|
| Service-platform upgrade | EUR | 5,000 |
|--------------------------|-----|-------|



### 3.1 General information about Project Q02

#### 3.1.1 Project title: Integrated Research Training Group

#### 3.1.2 Project leaders

**Friedhelm Redata**, Prof. Dr.-Ing.

 0000-0000-0000-0005

Institute of Microbial Systems Medicine  
Example University  
University Avenue 1, 12345 Example City  
(Germany)

 +49 000 100-5000

 friedhelm.redata@example.org

**Leonie Navarro**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine  
Westhaven Research Centre  
Science Avenue 3, 34567 Westhaven (Germany)  
 +49 000 300-0009  leonie@example.org

- ▶ Is the employment of the project leaders at the institutions indicated contractually secured for the duration of the proposed funding period? **yes** (Redata), **no** (Navarro)
- ▶ Do any of the above mentioned persons hold fixed-term positions? **yes** (Redata), **no** (Navarro)
- ▶ Will one or more of the above-mentioned persons retire during the proposed funding period? **yes** (Redata), **no** (Navarro)
- ▶ Funding for the position of the project leaders at the institutions indicated is covered by core support (state funds or similar): **no** (Redata), **no** (Navarro)

### 3.2 Summary

Summarise the objectives, development, and added value of the Integrated Research Training Group.

### 3.3 Tabular report

Provide the required tabular report of all researchers funded by the Integrated Research Training Group to date.

### 3.4 Qualification programme

Describe the qualification programme, workshops, courses, retreats, career development measures, and other training activities.

### 3.5 Management and supervision

Describe management responsibilities, recruitment, supervision arrangements, mentoring, conflict-resolution processes, and quality assurance.

### 3.6 Environment of the Integrated Research Training Group

Describe the scientific, institutional, interdisciplinary, and international training environment.

### 3.7 Interim assessment and outlook

Assess progress during the current funding period and describe priorities and measurable objectives for the next funding period.

### 3.8 Project funding

#### 3.8.1 Previous funding

The Integrated Research Training Group has been funded within the Collaborative Research Centre since April 2018. Replace this date and add any relevant funding under another programme.

### 3.8.2 Existing funds for the new funding period

Describe the coordination, training, staff, and direct-cost resources made available to the Integrated Research Training Group by the participating institutions.

#### Existing staff

|                       | No. | Name, academic degree, position        | Field of research            | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category | Funding source                |
|-----------------------|-----|----------------------------------------|------------------------------|----------------------------------------|-------------------------|----------|-------------------------------|
| <b>Existing staff</b> |     |                                        |                              |                                        |                         |          |                               |
| Non-research staff    | 1.  | Trainer, Taylor (Training coordinator) | Structured doctoral training | DTB                                    | 20                      |          | Partner University core funds |

**Institutions:** DTB: Department of Translational Biosciences (PU). **Affiliations:** PU: Partner University.

Job descriptions of staff for the proposed funding period (supported through existing funds):

- Taylor Trainer** Coordinates recruitment, course administration, progress monitoring, mentoring, and quality assurance for the qualification programme.

|                                               | 2027 2 | 2028  | 2029  | 2030  | 2031 1 |
|-----------------------------------------------|--------|-------|-------|-------|--------|
| PU: existing funds from Graduate-school funds | 1,000  | 1,000 | 1,000 | 1,000 | 1,000  |
| <b>Sum of existing funds</b>                  | 1,000  | 1,000 | 1,000 | 1,000 | 1,000  |
| <b>Sum of requested funds</b>                 | 2,000  | 2,000 | 2,000 | 2,000 | 2,000  |

Note: Figures in EUR

### 3.8.3 Requested funding

| Funding for               | 2027 2 |        | 2028 |        | 2029 |        | 2030 |        | 2031 1 |        |
|---------------------------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| Staff                     | Qty    | Sum    | Qty  | Sum    | Qty  | Sum    | Qty  | Sum    | Qty    | Sum    |
| Doctoral researcher, 65 % | 1      | 27,202 | 1    | 54,405 | 1    | 54,405 | 1    | 54,405 | 1      | 27,202 |
| Non-research staff, 50 %  | 1      | 15,000 | 1    | 30,000 | 1    | 30,000 | 1    | 30,000 | 1      | 15,000 |
| Total                     |        | 42,202 |      | 84,405 |      | 84,405 |      | 84,405 |        | 42,202 |
| <b>Direct Costs</b>       |        | Sum    |      | Sum    |      | Sum    |      | Sum    |        | Sum    |
| Qualification programme   |        | 2,000  |      | 2,000  |      | 2,000  |      | 2,000  |        | 2,000  |
| Total                     |        | 2,000  |      | 2,000  |      | 2,000  |      | 2,000  |        | 2,000  |
| <b>Fellowships</b>        |        | Sum    |      | Sum    |      | Sum    |      | Sum    |        | Sum    |
| Short-term fellowships    |        | 1,000  |      | 1,000  |      | 1,000  |      | 1,000  |        | 1,000  |
| Total                     |        | 1,000  |      | 1,000  |      | 1,000  |      | 1,000  |        | 1,000  |
| <b>Global funds</b>       |        | Sum    |      | Sum    |      | Sum    |      | Sum    |        | Sum    |
| Training and networking   |        | 3,000  |      | 3,000  |      | 3,000  |      | 3,000  |        | 3,000  |
| Total                     |        | 3,000  |      | 3,000  |      | 3,000  |      | 3,000  |        | 3,000  |
| <b>Total</b>              |        | 48,202 |      | 90,405 |      | 90,405 |      | 90,405 |        | 48,202 |

Note: Figures in EUR

### 3.8.4 Requested funding for staff

#### Text

|                                                                                                                    |     |       |
|--------------------------------------------------------------------------------------------------------------------|-----|-------|
| Doctoral-researcher position: interdisciplinary research and participation in the complete qualification programme | EUR | 5,000 |
|--------------------------------------------------------------------------------------------------------------------|-----|-------|

### 3.8.5 Requested funding for direct costs

#### Text

|                                           |     |        |
|-------------------------------------------|-----|--------|
| Workshops and transferable-skills courses | EUR | 10,000 |
| Visiting researchers and networking       | EUR | 5,000  |

3.8.6 Requested funding for fellowships

|                                                                                                                                                             |     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| Text                                                                                                                                                        |     |       |
| Short-term research fellowships: state the type of fellowship, average number of fellows, average duration, monthly allowance per person, and justification | EUR | 5,000 |

3.8.7 Requested global funds

|                                                                                                                |     |        |
|----------------------------------------------------------------------------------------------------------------|-----|--------|
| Text                                                                                                           |     |        |
| Training and networking measures: explain the purpose, allocation rules, selection process, and administration | EUR | 15,000 |



### 3.1 General information about Project Q03

#### 3.1.1 Project title: Central coordination and data stewardship

#### 3.1.2 Project leaders

**Hansi Meier**, Dr. rer. nat.

 0000-0000-0000-0003

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-3000

 hansi.meier@example.org

**Robin Keller**, Prof. Dr. rer. nat.

Institute of Microbial Systems Medicine

Example University

University Avenue 1, 12345 Example City (Germany)

Centre for Clinical Translation

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

 +49 000 300-0012  robin@example.org

### 3.2 Documentation of the central activities of the Collaborative Research Centre

Document governance and decision-making, scientific coordination, reporting, internal communication, data stewardship, publication support, equal- opportunity measures, early-career support, outreach, and the interfaces with all applicant and participating institutions. Distinguish CRC-specific tasks from permanent institutional duties and state responsibilities, workflows, results from the current period, and priorities for the new funding period.

### 3.3 Project funding

#### 3.3.1 Existing funds for the new funding period

Describe the central staff, facilities, and direct-cost resources contributed by the applicant and participating institutions.

#### Existing staff

|                       | No. | Name, academic degree, position                                | Field of research   | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category | Funding source                |
|-----------------------|-----|----------------------------------------------------------------|---------------------|----------------------------------------|-------------------------|----------|-------------------------------|
| <b>Existing staff</b> |     |                                                                |                     |                                        |                         |          |                               |
| Non-research staff    | 1.  | <b>Coordinator</b> , Jamie, Dr. rer. nat. (Scientific manager) | Research management | DTB                                    | 20                      |          | Partner University core funds |

**Institutions:** DTB: Department of Translational Biosciences (PU). **Affiliations:** PU: Partner University.

Job descriptions of staff for the proposed funding period (supported through existing funds):

- Dr. rer. nat. Jamie Coordinator** Coordinates governance, reporting, internal communication, central measures, and interfaces with applicant and participating institutions.

|                                                  | 2027   2 | 2028  | 2029  | 2030  | 2031   1 |
|--------------------------------------------------|----------|-------|-------|-------|----------|
| EU: existing funds from Central university funds | 1,000    | 1,000 | 1,000 | 1,000 | 1,000    |
| <b>Sum of existing funds</b>                     | 1,000    | 1,000 | 1,000 | 1,000 | 1,000    |
| <b>Sum of requested funds</b>                    | 2,000    | 2,000 | 2,000 | 2,000 | 2,000    |

Note: Figures in EUR

#### 3.3.2 Requested funding for the new funding period

| Funding for | 2027   2 |     | 2028 |     | 2029 |     | 2030 |     | 2031   1 |     |
|-------------|----------|-----|------|-----|------|-----|------|-----|----------|-----|
| Staff       | Qty      | Sum | Qty  | Sum | Qty  | Sum | Qty  | Sum | Qty      | Sum |

Continue on the following page ...

...continuing from previous page.

| Funding for                            | 2027   2 | 2028   | 2029   | 2030   | 2031   1 |        |   |        |   |        |
|----------------------------------------|----------|--------|--------|--------|----------|--------|---|--------|---|--------|
| Non-research staff, 100 %              | 1        | 30,750 | 1      | 61,500 | 1        | 61,500 | 1 | 61,500 | 1 | 30,750 |
| Research assistant, 50 %               | 1        | 12,500 | 1      | 25,000 | 1        | 25,000 | 1 | 25,000 | 1 | 12,500 |
| Total                                  |          | 43,250 |        | 86,500 |          | 86,500 |   | 86,500 |   | 43,250 |
| Direct Costs                           | Sum      | Sum    | Sum    | Sum    | Sum      |        |   |        |   |        |
| Central coordination and communication | 2,000    | 2,000  | 2,000  | 2,000  | 2,000    |        |   |        |   |        |
| Total                                  | 2,000    | 2,000  | 2,000  | 2,000  | 2,000    |        |   |        |   |        |
| Globalfunds                            | Sum      | Sum    | Sum    | Sum    | Sum      |        |   |        |   |        |
| Central measures                       | 2,000    | 2,000  | 2,000  | 2,000  | 2,000    |        |   |        |   |        |
| Total                                  | 2,000    | 2,000  | 2,000  | 2,000  | 2,000    |        |   |        |   |        |
| Total                                  | 47,250   | 90,500 | 90,500 | 90,500 | 47,250   |        |   |        |   |        |

Note: Figures in EUR

### 3.3.3 Requested funding for staff

#### Text

|                                                                                                      |     |       |
|------------------------------------------------------------------------------------------------------|-----|-------|
| Scientific coordination: justify the category, percentage, period, and CRC-specific responsibilities | EUR | 5,000 |
|------------------------------------------------------------------------------------------------------|-----|-------|

### 3.3.4 Requested funding for direct costs

#### Text

|                                             |     |        |
|---------------------------------------------|-----|--------|
| Governance meetings and scientific exchange | EUR | 10,000 |
| Communication and outreach                  | EUR | 5,000  |

### 3.3.5 Requested global funds

#### Text

|                                                                                                |     |        |
|------------------------------------------------------------------------------------------------|-----|--------|
| Central measures: explain the purpose, allocation rules, selection process, and administration | EUR | 10,000 |
|------------------------------------------------------------------------------------------------|-----|--------|

### 3.1 General information about Project A00 (former project) E

#### 3.1.1 Project title: Former project on microbial community dynamics

#### 3.1.2 Project leaders

**Kimmi Miller**, Prof. Dr. rer. nat.

 0000-0000-0000-0004

Department of Translational Biosciences

Partner University

Research Road 2, 54321 Partner City (Germany)

 +49 000 200-4000

 kimmi.mueller@example.org

**Daniel Okafor**, Prof. Dr. rer. nat.

Institute of Metabolic Medicine

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

Centre for Clinical Translation

Westhaven Research Centre

Science Avenue 3, 34567 Westhaven (Germany)

 +49 000 300-0010  daniel@example.org

### 3.2 Project history

#### 3.2.1 Report

Describe the complete funding history, objectives, methods, results, and contribution of the ending project. Citations used only in the report are printed automatically at the end of this environment. This dummy citation also demonstrates the exclusion of a result listed below (Wilkinson et al. 2016).

#### References

#### 3.2.2 Published project results

##### Publications with scientific quality assurance

Wilkinson, M. D. et al. (2016). "The FAIR Guiding Principles for scientific data management and stewardship". In: *Scientific Data* 3.1, p. 160018. DOI: 10.1038/sdata.2016.18. (Visited on 05/31/2021).

##### Other publications and published results

None.

##### Patents

None.

### 3.3 Funding

Funding of this project within the Collaborative Research Centre started in April 2018. The project will be completed by the end of the current funding period. Replace these dates and, where applicable, add previous funding under another DFG programme and its reference number.

#### 3.3.1 Project staff in the ending funding period

|                                               | No. | Name, academic degree, position                                      | Field of research             | Departm. of (non-)univers. institution | Project commitm. (h/wk) | Category                | Funding source |
|-----------------------------------------------|-----|----------------------------------------------------------------------|-------------------------------|----------------------------------------|-------------------------|-------------------------|----------------|
| <b>Existing staff</b>                         |     |                                                                      |                               |                                        |                         |                         |                |
| Research staff                                | 1.  | Miller, Kimmi, Prof. Dr. rer. nat. (Professor of Molecular Medicine) | Molecular tissue regeneration | DTB                                    | 8                       |                         | State funds    |
| <b>Staff funded with approved grant money</b> |     |                                                                      |                               |                                        |                         |                         |                |
| Research staff                                | 2.  | TBA (Postdoctoral researcher)                                        | Regenerative cell biology     | DTB                                    |                         | Postdoctoral researcher |                |

**Institutions:** DTB: Department of Translational Biosciences (PU). **Affiliations:** PU: Partner University.

Job descriptions of staff (supported through existing funds):

1. **Prof. Dr. rer. nat. Kimmi Miller** Led the project, supervised the experimental work, and integrated its results across the CRC throughout the ending funding period.

Job descriptions of staff (funded with approved grant money):

2. **TBA** Completed the final validation experiments and data publication from April 2025 until the end of the current funding period.

## 4 Bylaws of the Collaborative Research Centre

### **§1 Name, coordinating university, and purpose of the Collaborative Research Centre**

- §1.1 The Collaborative Research Centre (CRC) “Mechanisms of Host–Microbiome Communication – From Molecular Interactions to Organ Function” is a legally dependent institution of Example University.
- §1.2 The Collaborative Research Centre conducts interrelated research on microbial signalling, epithelial barriers, immune regulation, and organ function. It is divided into research project areas and central projects.
- §1.3 The Collaborative Research Centre promotes interaction with other research institutions, supports researchers in early career phases, and fosters responsible international cooperation, equity, and equal opportunity.

### **§2 Membership and governing bodies**

- §2.1 Members are the project leaders and persons appointed to central scientific or administrative responsibilities by the general assembly.
- §2.2 The governing bodies are the general assembly, the spokesperson, and the steering committee. The general assembly elects the spokesperson and steering committee for the applicable funding period.
- §2.3 The steering committee prepares strategic and budgetary decisions, monitors milestones, and reports to the general assembly at least once per year.

### **§3 Decisions and allocation of shared resources**

- §3.1 Decisions are normally taken by simple majority of members present; changes to these bylaws require a two-thirds majority.
- §3.2 Shared funds and infrastructure are allocated through documented, transparent procedures based on scientific need, feasibility, and equal access across participating projects.
- §3.3 Members disclose conflicts of interest and do not participate in the corresponding deliberation or decision.

### **§4 Research integrity, equity, and conflict resolution**

- §4.1 All members follow the applicable rules of good research practice, data protection, animal welfare, research ethics, and occupational safety.
- §4.2 The CRC implements equal-opportunity and accessibility measures and monitors participation in recruitment, training, and governance.
- §4.3 Concerns may be raised confidentially with the spokesperson, the CRC management, or the competent independent offices of the participating institutions.

### **§5 Research-data governance**

- §5.1 Projects document data, code, samples, access rights, retention, and publication in project-specific data-management plans.
- §5.2 Central data stewardship defines common metadata and quality standards, manages controlled access, and supports publication according to the FAIR principles and applicable legal requirements.



## 5 Declarations

I/We hereby confirm the accuracy of the information contained in the proposal, including the research profiles.

The *DFG Rules of Procedure for Dealing with Scientific Misconduct (known as VerfOWF)* apply to individuals with a high level of scientific/academic responsibility in connection with funding proposals submitted by universities. The applicant university confirms that all individuals with a high level of scientific/academic responsibility in the project proposal submitted by the university (cf. programme guidelines, DFG form 50.06) recognise the *DFG Rules of Procedure for Dealing with Scientific Misconduct* as legally binding by submitting a corresponding declaration of commitment.

In submitting this proposal, all project leaders undertake to comply with the relevant discipline-specific research ethics guidelines, to determine whether a statement from the responsible ethics committee is required and, where necessary, to obtain it in good time before the start of funding. They will inform the DFG immediately if an ethics committee expresses substantive concerns or issues a negative statement and will submit the statement if the DFG requests it.

The DFG takes the protection of your personal data very seriously. Please note the DFG's data protection notice on research funding, which can be viewed and downloaded at [www.dfg.de/privacy\\_policy](http://www.dfg.de/privacy_policy)

Please forward this information to those individuals whose data will be processed by the DFG because they are mentioned in your proposal.

I/We have read the DFG's data protection notice.

I/We consent to the processing and transfer of special categories of personal data (including the data of all parties involved) for the purposes stated in the Privacy Policy if, after careful consideration, I/we provide such data either now or at a later date.

Example City  
<date>



---

Prof. Dr. med. Morgan Sample  
(Spokesperson of Collaborative Research Centre)

Example City  
<date>



---

Prof. Dr. Casey President  
(Rector, chancellor, or president of Partner University)

Example City  
<date>



---

Prof. Dr. Robin Rector  
(Rector, chancellor, or president of Example University)



| Project      | Title                                               | Project leader(s)                                           |
|--------------|-----------------------------------------------------|-------------------------------------------------------------|
| <b>A01</b>   | Microbial signalling across epithelial barriers     | Kim <b>Sample</b><br>Alex <b>Example</b>                    |
| <b>A02 N</b> | Metabolic control of tissue-resident immunity       | Kim <b>Sample</b><br>Samira <b>Hartmann</b>                 |
| <b>A03</b>   | Microbiome-derived metabolites and immune memory    | Samira <b>Hartmann</b><br>Noah <b>Lindberg</b>              |
| <b>A04 N</b> | Spatial niches of host-microbe interactions         | Noah <b>Lindberg</b><br>Alexis-Marie <b>Winters-Scholz</b>  |
| <b>A05</b>   | Dietary control of microbial community dynamics     | Alexis-Marie <b>Winters-Scholz</b><br>Leonie <b>Navarro</b> |
| <b>A06 N</b> | Modelling microbial resilience and recovery         | Leonie <b>Navarro</b><br>Daniel <b>Okafor</b>               |
| <b>B01</b>   | Host defence during microbiome perturbation         | Hansi <b>Meier</b><br>Alex <b>Example</b>                   |
| <b>B02 N</b> | Molecular signatures of tissue regeneration         | Kimmi <b>Miller</b><br>Daniel <b>Okafor</b>                 |
| <b>B03</b>   | Immune circuits linking intestine and liver         | Hansi <b>Meier</b><br>Mira <b>Sato</b>                      |
| <b>B04 N</b> | Cross-organ consequences of inflammatory stress     | Kimmi <b>Miller</b><br>Mira <b>Sato</b>                     |
| <b>B05</b>   | Patient-derived models of metabolic disease         | Friedhelm <b>Redata</b><br>Robin <b>Keller</b>              |
| <b>B06 N</b> | Translating microbial biomarkers into interventions | Daniel <b>Okafor</b><br>Robin <b>Keller</b>                 |
| <b>Q01</b>   | Integrated imaging and analysis services            | Alex <b>Example</b><br>Noah <b>Lindberg</b>                 |
| <b>Q02</b>   | Integrated Research Training Group                  | Friedhelm <b>Redata</b><br>Leonie <b>Navarro</b>            |
| <b>Q03</b>   | Central coordination and data stewardship           | Hansi <b>Meier</b><br>Robin <b>Keller</b>                   |