



The group of

**Dr. Ana Rita Brochado**

At the Department of Microbiology, Biocenter at Würzburg University offers a  
**PhD student position**

### **Investigating the molecular mechanism of antimicrobial drug combinations**

Bacteria are among the most difficult-to-treat infectious agents. Our recently established lab develops high-throughput approaches to study antimicrobial mode of action, and decipher how bacterial molecular networks re-wire in response to multi-antibiotic therapies (Brochado *et al*, Nature 2018). We are looking for a highly motivated PhD student to elucidate the molecular mechanism underlying species-specificity of drug combinations against *P. aeruginosa*. This exciting project combines high-throughput screening of mutant libraries with detailed in-depth molecular investigation.

We apply a wide range of state-of-the-art systems biology tools, such as high-throughput phenotypic screening of bacterial knockout libraries to elucidate antibiotic mode of action. We are part of the Biocenter and the ZINF, Würzburg University in Germany, which offer a vibrant and international research environment.

#### **We offer:**

- The opportunity to work on a timely topic – antibiotics – in an exciting environment, using cutting edge technologies for high-throughput systems biology approaches in bacteria.
- Continuous scientific mentoring & academic training.
- Salary benefits according to public service positions in Germany.

#### **Requirements:**

- Excellent MSc in Biological Sciences, Molecular Biology or equivalent.
- Sound knowledge and strong interest in microbiology and molecular biology
- Computational biology knowledge is an advantage, but not required
- Fluent English speaking and writing skills, German is not required.

#### **How to apply:**

Want to know more about our research and how to apply? Visit us at <https://www.biozentrum.uni-wuerzburg.de/en/mikrobio/staff/dr-ana-rita-brochado>

You will need to fill out our application form, attach your CV, certificates and a motivation letter. **Send all-in-1 pdf file to [brochado.recruit@biozentrum.uni-wuerzburg.de](mailto:brochado.recruit@biozentrum.uni-wuerzburg.de). Deadline 21<sup>th</sup> June or until position is filled.**

The University of Würzburg aims to increase the number of women in science. Therefore, women are especially encouraged to apply for this position. Physically handicapped persons will be preferred in case they are equally qualified.

# Application form to Brochado Lab

## Personal data

|                       |               |
|-----------------------|---------------|
| Name:                 |               |
| Email Address:        | Phone number: |
| Country of residency: |               |
| Address:              |               |
| Postal code:          | City:         |

## Academic record

Are you currently working in Academia?

Yes  No

What is your highest academic degree?

BSc  MSc  PhD

What position are you applying for\*?

PhD student  Postdoc  Scientist

\*Please note that 2 years postdoc in a relevant field (bacterial genetics or cell biology) are required for you to be considered for the Scientist position.

|  |          |
|--|----------|
| Current employer or university:                    |          |
| City:  | Country: |
| Current position:                                  |          |
| Supervisor (if applicable):                        |          |
| Year of highest academic degree (BSc, MSc or PhD): |          |
| Title of most relevant publication:                |          |
| Journal of most relevant publication:              |          |
| Year of most relevant publication:                 |          |

## References

Please list up to three referees

### Referee 1

|                               |               |
|-------------------------------|---------------|
| Name:                         |               |
| Position:                     |               |
| Email Address:                | Phone number: |
| University/Institute/Company: |               |
| City:                         | Country:      |

### Referee 2

|                               |               |
|-------------------------------|---------------|
| Name:                         |               |
| Position:                     |               |
| Email Address:                | Phone number: |
| University/Institute/Company: |               |
| City:                         | Country:      |

### Referee 3

|                               |               |
|-------------------------------|---------------|
| Name:                         |               |
| Position:                     |               |
| Email Address:                | Phone number: |
| University/Institute/Company: |               |
| City:                         | Country:      |