



The group of

Dr. Ana Rita Brochado

At the Department of Microbiology, Biocenter at Würzburg University offers a
Postdoc position

Developing computational biology approaches to elucidate drug-drug interactions in bacteria

Bacteria are among the most difficult-to-treat infectious agents. Our lab develops high-throughput approaches to study how bacterial molecular networks re-wire in response to multi-antibiotic therapies (Brochado *et al*, Nature 2018). We have previously reported that antibiotic synergy and antagonism are highly species-specific. We are looking for a highly motivated Postdoc to **develop computational tools to investigate what drives species-specificity of drug-drug interactions in bacteria.**

We apply a wide range of state-of-the-art systems biology tools, such as high-throughput profiling of drug combinations, and phenotypic screening of bacterial libraries. 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.
- Excellent integration for developing computational tools together with experimentalists.
- Continuous scientific mentoring & academic training.
- Salary benefits according to public service positions in Germany.

Requirements:

- Excellent PhD in Computational Biology, Biotechnology, Bioinformatics or equivalent.
- Sound knowledge and strong interest in statistics and computational systems biology. e.g. chemical genomics, NGS technologies, integration of omics data, etc.
- Computational biology, scripting/programming experience.
- Experience with machine learning algorithms is a plus, 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. Deadline 28th February 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: