



INSTITUTE OF MICROBIOLOGY

of the Czech Academy of Sciences

2 Postdoctoral Fellow positions in microbial pathogenesis

The Institute of Microbiology of the Czech Academy of Sciences, Prague,
Czech Republic

The Institute of Microbiology of the Czech Academy of Sciences is looking for

two POSTDOCTORAL FELLOWS in the fields of:

Nr.1 Elucidation of the mechanism of action of *Bordetella* effector protein BteA
(**postdoc1**)

Nr. 2 Identification of factors contributing to *Bordetella pertussis* adaptation and survival within macrophages (**postdoc2**)

Qualifications and experience – who can apply:

The candidate

- must have his/her Ph.D. degree or its equivalent awarded no more than 7 years ago in a relevant field. The said period may be extended for the maternity or paternity leave period, long-term sickness (more than 90 days), care for a family member (more than 90 days), pre-attestation preparation and military training.
- must be a researcher who has worked for at least 2 years over the period of the last 3 years in an organization(s) outside the Czech Republic in the field of research, with working time at least 0.5 FTE, or who was a Ph.D. student abroad. Czech citizens are not excluded.
- must be an author of at least two publications in a journal with Impact Factor published in the last three years in a relevant field(s)
- must have an excellent writing, verbal and communication skills in English
- possess expertise and skills relevant for each position

Conditions – we offer:

- 14 months fellowship at The Institute of Microbiology of the Czech Academy of Sciences in Prague, Czech Republic
- The starting date is negotiable (see details for each position), but the employment contract can start only on the 1st day of the month
- The full-time contract for the whole period of fellowship – temporary contract



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- Gross salary: **2900 USD/month**
- Employee benefits: 30 days paid holiday per year, a financial contribution for the catering
- The position is supported by the European Union Funds - Operational Programme Research, Development and Education, project No. CZ.02.2.69/0.0/0.0/18_053/0017705 International mobility of researchers of the Institute of Microbiology of the CAS, v. v. i. No 2.

About the employer:

The Institute of Microbiology of the Czech Academy of Sciences <http://mbucas.cz/en/> represents the leading and largest institution (over 500 employees) of basic research in microbiology in Central and Eastern Europe, with a track record of scientific excellence in research on microbial ecology, microbial secondary metabolism, microbial cell biology, photosynthetic microorganisms, immunology and molecular and cellular biology of microbe interactions with the environment.

Details of each position and mentors:

No. 1 Elucidation of the mechanism of action of *Bordetella* effector protein BteA (postdoc1)

The Laboratory of Infection Biology of the Institute of Microbiology in Prague, Czech Republic is looking for a postdoctoral fellow to be involved in the analysis of the mechanism of action of *Bordetella* effector protein BteA. We offer work in a friendly international team headed by Jana Kamanova (<https://mbucas.cz/en/research/microbiology/laboratory-of-infection-biology/>). Our group addresses molecular and cellular mechanisms that underlie bacterial virulence. We are interested especially in the type III effector proteins of *Bordetella* and *Aeromonas* species and their role in bacterial virulence and/or symbiosis.

The starting date is negotiable, but this position should start between **April 2021 and August 2021** (the employment contract can start only on the 1st day of the month).



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Your qualification for this position:

- Ph.D. degree or its equivalent in the field of biology (microbiology, immunology, cell biology) or bioinformatics
- possess expertise in microbial pathogenesis and/or NGS data analysis
- the enthusiasm and high motivation

For more information, please contact Jana Kamanova (kamanova@biomed.cas.cz).

No. 2 Identification of factors contributing to *Bordetella pertussis* adaptation and survival within macrophages (postdoc2)

The Laboratory of Post-transcriptional Control of Gene Expression in Prague is looking for a highly motivated postdoctoral fellow. Successful candidate will be engaged in one of the major projects focused on regulatory mechanisms underlying physiology and virulence of *Bordetella pertussis*, a strictly human pathogen causing whooping cough. Research group currently identifies factors required for successful infection, intracellular survival and persistence within the host. We offer work in a friendly international team headed by Branislav Vecerek.

<https://mbucas.cz/en/research/microbiology/laboratory-of-post-transcriptional-control-of-gene-expression/>

The starting date is negotiable, but this position should start between **September 2021 and December 2021** (the employment contract can start only on the 1st day of the month).

Your qualification for this position:

- Ph.D. degree or its equivalent in the field of biology (microbiology, immunology, cell biology)
- knowledge and expertise in microbiology and cell biology (methods of molecular microbiology, work with bacterial pathogens and tissue cultures, FACS) and RNA biology (Northern blot, RT-qPCR)
- ability to publish results in highly impacted journals
- experience with global transcriptomic analysis (RNA-seq) is welcome

For more information, please contact Branislav Vecerek (vecerek@biomed.cas.cz)



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YOUTH AND SPORTS



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Application:

- Select one of the positions (No.1 or No.2 - see above)
- Send your professional Curriculum Vitae including the list of your publications with impact factors of the journals, a motivation letter, copies of relevant course/degree certificates (Ph.D. diploma) and contacts to at least two senior researchers, such as your previous supervisors or lead scientists, who can provide a reference, to e-mail: mobility@biomed.cas.cz no later than **March 07, 2021**. Subject of the e-mail: **postdoc1** or **postdoc2** according to your selected position. Incomplete submissions will not be considered.
- Selected candidate(s) will be invited for an online interview via skype or zoom.



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