

## Curriculum vitae

**Name** MUDr. Mgr. Kateřina Bogdanová, Ph.D.  
**E-mail** katerina.bogdanova@upol.cz  
katerina.bogdanova@fnol.cz  
**Date of Birth** 19. 02. 1981 in Olomouc, permanent address in Olomouc

### **Working experience**

**2009-today** Department of Microbiology  
Palacky University Olomouc  
Faculty of Medicine and Dentistry  
**2006 - 2008** Department of Pathological Physiology  
Palacky University Olomouc  
Faculty of Medicine and Dentistry

### **Education**

**2020** Specialization exam in Clinical Microbiology  
**2008-2014** Palacky University Olomouc  
Faculty of Medicine and Dentistry  
Master Degree Program – General Medicine  
**2004-2009** Doctoral Study Program, Ph.D.  
Palacky University Olomouc  
Faculty of medicine and Dentistry  
Department of Pathological Physiology  
**1999 – 2004** Palacky University Olomouc  
Faculty of Science  
Master Degree Program – Systematic Biology and Ecology  
Specialization – Hydrobiology

### **Summary of scientific activity during last 5 years**

Scientific research:

- *In vitro* research in the field of bacterial susceptibility and resistance to antibiotics
- *In vitro* testing of new potentially antimicrobial agents in collaboration with the Institute of Molecular and Translational Medicine, Department of Medical Chemistry and Biochemistry, Department of Medical Biophysics (Faculty of Medicine, Palacky University), Department of Physical Chemistry, Faculty of Science, Palacky University, Laboratory of Growth Regulators (Faculty of Science, Palacky university & Institute of Experimental Botany AS CR) and Institute of Organic Chemistry and Biochemistry (Czech Academy of Sciences).

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Author and co-author of 31 scientific publication and 1 patent. Sum of times cited without self-citations according to WOS: 603, h-index: 13.

Grants and projects participations

- Czech Health Research Council grant 17-29680A (Lipophosphonoxins in the prevention and treatment of musculoskeletal infections: a potential role of new antimicrobial compounds)
- Czech Health Research Council grant 17-31765A (The potential of xanthohumol and beta-bitter acids in the therapy of nosocomial infections)
- Czech Science Foundation grant 14-10233S (Humulus Lupulus L. - source of substances with antimicrobial effect).
- Member of research team of project NPU-I MŠMT (IČ L01304).
- Czech Health Research Council grant 15-27726A (Technologies of nano-tubes and nano-silver for antibacterial surface treatment of orthopaedic implants).

- Czech Health Research Council grant NU20-05-00165 (Possibilities of Silver Nanoparticles Potentiated Antibiotherapy in the Treatment of Serious Bacterial Infections – in vitro and in vivo study)
- Czech Health Research Council grant NU20-09-00235 (Advantages of photodynamic and sonodynamic therapy in multidrug-resistant microorganisms)
- Czech Science Foundation grant GF21-45449L (3D and 4D printing of stimuli-responsive and functionally graded biomaterials for osteochondral defects regeneration)
- Project NIVB, EXCELES LX22NPO103

**Teaching and other activities**

- Practical training in Medical Microbiology for General Medicine students
- Supervisor of 1 pregraduate student
- Supervisor of 1 postgraduate student
- Member of Subject-Area Board for Medical Microbiology