

CURRICULUM VITAE



Current position

Jan Borysowski M.D. Ph.D.

Assistant Professor, Department of Clinical Immunology

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Education

- **1996-2003** – M.D. – the Medical University of Warsaw, I Faculty of Medicine

- **2017-03-02** – Ph.D. - the Medical University of Warsaw, I Faculty of Medicine

Professional career

- **2003-2004** - Postgraduate internship, the Transplantation Institute, the Medical University of Warsaw

- **2005-01-01 – 2016-09-30** - Department of Clinical Immunology, the Medical University of Warsaw (assistant professor)

- **2016-09-31 – 2016-12-31** - acting head, Department of Clinical Immunology, the Medical University of Warsaw

- **2017-01-01** – Department of Clinical Immunology, the Medical University of Warsaw (assistant professor)

Areas of professional interests

- expanded access, especially phage therapy of antibiotic-resistant infections
- medical ethics
- immunology

Active boards and positions

- **2009** – - member, Scientific Board, the Transplantation Institute, the Medical University of Warsaw

Journal articles

1. A3R Phage and Staphylococcus aureus Lysate Do Not Induce Neutrophil Degranulation. **Borysowski J**, Międzybrodzki R, Wierzbicki P, Kłosowska D, Korczak-Kowalska G, Weber-Dąbrowska B, Górski A. *Viruses*, 2017, 9: 36; doi:10.3390/v9020036
2. Phage Therapy: Combating Infections with Potential for Evolving from Merely a Treatment for Complications to Targeting Diseases. Górski A, Międzybrodzki R, Weber-Dąbrowska B, Fortuna W, Letkiewicz S, Rogóż P, Jończyk-Matysiak E, Dąbrowska K, Majewska J, **Borysowski J**. *Front Microbiol*. 2016;7:1515.
3. Mesenchymal Stem Cells from Human Amniotic Membrane and Umbilical Cord Can Diminish Immunological Response in an in vitro Allograft Model. Dąbrowski FA, Burdzinska A, Kulesza A, Chlebus M, Kaleta B, **Borysowski J**, Zolocińska A, Paczek L, Wielgos M. *Gynecol Obstet Invest*. 2016, in press
4. Rozważania na temat filozofii medycyny [article in Polish; Reflections on philosophy of medicine] Letkiewicz S, **Borysowski J**, Górski A. *Przegląd Urologiczny*, 2016/5 (99); <http://www.przegląd-urologiczny.pl/autor.php?Jan%20Borysowski>
5. The effects of T4 and A3/R bacteriophages on differentiation of human myeloid dendritic cells. Bocian K, **Borysowski J** et al., *Frontier Microbiol*, 2016, 7:1267.
6. LPS-activated monocytes are unresponsive to T4 phage and T4-generated Escherichia coli lysate. Bocian K., **Borysowski J** et al., *Frontiers Microbiol*, 2016, 7:1356

7. T4 bacteriophage-mediated inhibition of adsorption and replication of human adenovirus in vitro. Przybylski M, **Borysowski J**, Jakubowska-Zahorska R, Weber-Dąbrowska B, Górski A. *Future Microbiol.* 2015;10(4):453-60.
8. Phages targeting infected tissues: novel approach to phage therapy. Górski A, Dąbrowska K, Hodyra-Stefaniak K, **Borysowski J**, Międzybrodzki R, Weber-Dąbrowska B. *Future Microbiol.* 2015;10(2):199-204.
9. Possible use of bacteriophages active against *Bacillus anthracis* and other *B. cereus* group members in the face of a bioterrorism threat. Jończyk-Matysiak E, Kłak M, Weber-Dąbrowska B, **Borysowski J**, Górski A. *Biomed Res Int.* 2014;2014:735413.
10. Clinical aspects of phage therapy. Międzybrodzki R, **Borysowski J**, Weber-Dąbrowska B, Fortuna W, Letkiewicz S, Szufnarowski K, Pawełczyk Z, Rogóż P, Kłak M, Wojtasik E, Górski A. *Adv Virus Res.* 2012;83:73-121.
11. Phage as a modulator of immune responses: practical implications for phage therapy. Górski A, Międzybrodzki R, **Borysowski J**, Dąbrowska K, Wierzbicki P, Ohams M, Korczak-Kowalska G, Olszowska-Zaremba N, Łusiak-Szelachowska M, Kłak M, Jończyk E, Kaniuga E, Gołaś A, Purchla S, Weber-Dąbrowska B, Letkiewicz S, Fortuna W, Szufnarowski K, Pawełczyk Z, Rogóż P, Kłosowska D. *Adv Virus Res.* 2012;83:41-71.
12. Potential of bacteriophages and their lysins in the treatment of MRSA. **Borysowski J**, Łobocka M, Międzybrodzki R, Weber-Dąbrowska B, Górski A. *Biodrugs* 2011; 25(6):347-55.
13. The effects of T4 and A3/R phage preparations on whole-blood monocyte and neutrophil respiratory burst. **Borysowski J**, Wierzbicki P, Kłosowska D, Korczak-Kowalska G, Weber-Dąbrowska B, Górski A. *Viral Immunol.* 2010; 23(5):541-4.
14. Prophylactic effect of bacteriophages on mice subjected to chemotherapy-induced immunosuppression and bone marrow transplant upon infection with *Staphylococcus aureus*. Zimecki M, Artym J, Kocieba M, Weber-Dąbrowska B, **Borysowski J**, Górski A. *Med Microbiol Immunol.* 2010; 199(2):71-9.
15. Rapamycin, unlike cyclosporine A, enhances suppressive functions of in vitro-induced CD4⁺CD25⁺ Tregs. Bocian K, **Borysowski J**, Wierzbicki P, Wyzgal J, Kłosowska D, Białoszewska A, Paczek L, Górski A, Korczak-Kowalska G. *Nephrol Dial Transplant.* 2010; 25(3):710-7.
16. Effects of prophylactic administration of bacteriophages to immunosuppressed mice infected with *Staphylococcus aureus*. Zimecki M, Artym J, Kocieba M, Weber-Dąbrowska B, **Borysowski J**, Górski A. *BMC Microbiol.* 2009; 9:169.

17. Fusion to cell-penetrating peptides will enable lytic enzymes to kill intracellular bacteria. **Borysowski J**, Górski A. *Med Hypotheses*. 2010; 74(1):164-6.
18. Bacteriophage therapy for the treatment of infections. Górski A, Miedzybrodzki R, **Borysowski J**, Weber-Dabrowska B, Lobočka M, Fortuna W, Letkiewicz S, Zimecki M, Filby G. *Curr Opin Investig Drugs*. 2009; 10(8):766-74.
19. The potential of phage therapy in bacterial infections of the eye. Górski A, Targońska M, **Borysowski J**, Weber-Dabrowska B. *Ophthalmologica*. 2009; 223(3):162-5.
20. Is phage therapy acceptable in the immunocompromised host? **Borysowski J**, Górski A. *Int J Infect Dis*. 2008; 12(5):466-71.
21. Bacteriophage endolysins as a novel class of antibacterial agents. **Borysowski J**, Weber-Dabrowska B, Górski A. *Exp Biol Med (Maywood)*. 2006; 231(4):366-77.
22. [The potential use of bacteriophages in view of the current antibiotic therapy crisis]. **Borysowski J**, Weber-Dabrowska B, Górski A. *Pol Arch Med Wewn*. 2005; 113(1):73-8.
23. [Phage-display technology and its application to experimental oncological therapy]. **Borysowski J**, Górski A. *Postepy Hig Med Dosw*. 2004; 58:100-7.

Books and book chapters

1. Phage Therapy. Current Research and Applications. (eds. **J. Borysowski**, R. Międzybrodzki, A. Górski), 2014, Caister Academic Press; ISBN-13: 978-1908230409
2. The use of phages as biocontrol agents in foods. **J. Borysowski**, A. Górski, In: Phage Therapy. Current Research and Applications. (eds. J. Borysowski, R. Międzybrodzki, A. Górski), 2014, Caister Academic Press, pp. 215-236
3. Clinical phage therapy. E. Kutter, **J. Borysowski**, R. Międzybrodzki, A. Górski, B. Weber-Dąbrowska, M. Kutateladze, Z. Alavidze, M. Goderdzishvili, R. Adamia. In: Phage Therapy. Current Research and Applications. (eds. J. Borysowski, R. Międzybrodzki, A. Górski), 2014, Caister Academic Press, pp. 257-288
4. Phage translocation, safety, and immunomodulation. N. Olszowska-Zaremba, J. Borysowski, K. Dąbrowska, A. Górski. In: Bacteriophages in Health and Disease. (eds. P. Hyman, S.T. Abedon), 2012, CABI, pp. 168-184

5. Enzybiotics and their potential applications in medicine, **J. Borysowski**, A. Górski, In: Enzybiotics: Antibiotic Enzymes as Drugs and Therapeutics. (eds. TG. Villa, P. Veiga-Crespo), 2010, Wiley, pp. 1-26
6. Anti-staphylococcal lytic enzymes, **J. Borysowski**, A. Górski, In: Enzybiotics: Antibiotic Enzymes as Drugs and Therapeutics. (eds. TG. Villa, P. Veiga-Crespo), 2010, Wiley, pp. 149-172
7. Bacteriophages in medicine, A. Górski, **J. Borysowski**, R. Międzybrodzki, B. Weber-Dąbrowska, In: Bacteriophage: Genetics and Molecular Biology. (eds. S.McGrath, D.van Sinderen), 2007, Horizon Scientific Press, pp. 125-157)

Conferences

1. Compassionate use of unapproved drugs: current regulations and challenges. **Borysowski J**, Górski A., Bioethics and Public Health, 9-10 12.2016, Warsaw, oral presentation
2. The response of the immune system to phage: potential associations with phage therapy. **Borysowski J.** et al. Bacteriophages and probiotics – alternatives to antibiotics, Tbilisi, 1-4 07.2012, oral presentation
3. The influence of A3/R and T4 phage preparations on the generation of reactive oxygen species by phagocytic cells. **Borysowski J.** et al. Viruses of Microbes, Brussels, 16-20 07.2012, poster session
4. Bacteriophage preparations do not induce a strong oxidative burst in whole-blood monocytes and neutrophils in vitro. **Borysowski J.** et al, Viruses of Microbes, 21-25.06.2010, Paris, poster session
5. T4 phage preparations do not induce the production of Il-6 and TNF- α in human monocytes in vitro (co-author), Viruses of Microbes, 21-25.06.2010, Paris, poster session
6. The effects of T4 phage on the generation of reactive oxygen species and reactive nitrogen species in mice. **Borysowski J.** et al, XIII Congress of the Polish Society of Experimental and Clinical Immunology, Cracov, 14-17.05.2008, poster session
7. Experimental phage therapy in humans as seen from a medical, legal, and administrative perspective. A. Górski, R. Międzybrodzki, B. Weber-Dąbrowska, W.

Fortuna, **Borysowski J.**, 1st Teras/Evergreen Phage/Virus Genomics and Ecology Meeting, Kingsville, USA, 12-16.05.2006, poster session

8. Expression of IFN- γ gene in T-cells of renal allograft recipients. **Borysowski J.** et al., ERA EDTA XLI Congress, 15-18. 05. 2004, Lisbon, poster session

Projects

1. The effects of bacteriophages on immune functions of intestinal epithelial cells (National Science Center, principal investigator, 2016-2018)
2. Antiviral effects of bacteriophages (National Science Centre project, UMO-2013/11/B/NZ1/02107; 2014-2016) (investigator)
3. Optimalization of characteristics and preparation of phage preparations for therapeutic use (European Regional Development Fund, POIG.01.03.01-02-003/08; 2009-2014) (investigator)
4. The effects of bacteriophages on free radical production (State Committee for Scientific Research project, 2 PO5B 012 30; 2006-2009) (principal investigator)
4. Studies on the effectiveness of the phage therapy in immunosuppressed mice (State Committee for Scientific Research project, 2 P05A 199 29; 2005-2008) (investigator)

Awards

1. Team Teaching Award of the Rector of the Medical University of Warsaw (I Degree) - 2015
2. "Supertalents in medicine 2015" - awarded by Puls Medycyny
3. Individual Scientific Award of the Rector of the Medical University of Warsaw (III Degree) - 2012
4. Individual Scientific Award of the Rector of the Medical University of Warsaw (III Degree) - 2008

Teaching

1. Clinical Immunology – I and II Faculty of Medicine, English Division (the Medical University of Warsaw), graduate level – 2010-2015/2016
2. Research Ethics – I Faculty of Medicine (the Medical University of Warsaw), graduate level – 2015 -