

Małgorzata B. Bieńkowska-Haba, PhD – informacja biograficzna

Address: Department of Microbiology and Immunology, Louisiana State University
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EDUCATION

- 2004 Ph.D. Biological Sciences,
Institute of Immunology and Experimental Therapy, Polish Academy
of Sciences, Wrocław, Poland
Dissertation: “Nitric Oxide Produced By Pulmonary Leukocytes In Bronchial
Asthma”
Supervisor: Prof. Jerzy Liebhart MD, PhD
- 1997 M.S. Eng. Biotechnology,
Wrocław University of Technology, Faculty of Fundamental Problems
of Technology, Specialty of Biotechnology, Poland
Thesis: “Production of interleukin 6 and nitric oxide in bronchoalveolar
leukocytes from patients with lung diseases”
Supervisor: Monika Cembrzyńska-Nowak, PhD

RESEARCH EXPERIENCE

- 2005 -present Postdoctoral Fellow, Department of Microbiology and Immunology,
Louisiana State University Health Sciences Center, Shreveport, LA,
USA
- 07-11/2005 Research Scientist (Adiunkt), Laboratory of Virology, Dept. of Medical
Immunology, Institute of Immunology and Experimental Therapy,
Polish Academy of Sciences, Wrocław, Poland
- 09/1997 – 06/2005 Research Assistant (Asystent), Laboratory of Virology, Dept.
of Medical Immunology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wrocław, Poland

LICENSURE AND CERTIFICATION

- 2003-present member - Laboratory diagnostician at the National Chamber
of Laboratory Diagnosticians (NCLD) no 7994-1564,
<http://www.kidl.org.pl>

PUBLICATIONS

Original Investigations:

1. DiGiuseppe S., Bieńkowska-Haba M., Guion L.G., Keiffer T.R., Sapp M.J. Human papillomavirus major capsid protein L1 remains associated with the incoming viral genome throughout the entry process *J. Virol.* Accepted manuscript posted online 31 May 2017, doi:10.1128/JVI.00537-17
2. Bieńkowska-Haba M., Luszczek W., Keiffer T.R., Guion L.G., DiGiuseppe S., Scott R.S., Sapp M. Incoming human papillomavirus 16 genome is lost in PML protein-deficient HaCaT keratinocytes. *Cell Microbiol.* 2017 May;19(5).

3. DiGiuseppe S., Luszczek W., Keiffer T.R., Bienkowska-Haba M., Guion L.G., Sapp M.J. Incoming human papillomavirus type 16 genome resides in a vesicular compartment throughout mitosis. *PNAS USA* 2016 May 31; 113(22): 6289-6294.
4. DiGiuseppe S., Keiffer T.R., Bienkowska-Haba M., Luszczek W., Guion L.G., Muller M., Sapp M. Topography of the Human Papillomavirus Minor Capsid Protein L2 During Vesicular Trafficking of Infectious Entry. *J Virol.* 2015;89(20):10442-10452.
5. Richards K.F., Mukherjee S., Bienkowska-Haba M., Pang J., Sapp M. Human papillomavirus species-specific interaction with the basement membrane-resident non-heparan sulfate receptor. *Viruses.* 2014 Dec 5; 6(12): 4856-4879.
6. DiGiuseppe S., Bienkowska-Haba M., Hilbig L., Sapp M. The nuclear retention signal of HPV16 L2 protein is essential for incoming viral genome to transverse the trans-Golgi network. *Virology.* 2014 Jun; 458-459: 93-105.
7. Richards K.F., Bienkowska-Haba M., Dasgupta J., Chen X.S., Sapp M. Multiple heparan sulfate binding site engagements are required for the infectious entry of human papillomavirus type 16. *J Virol.* 2013 Nov;87(21):11426-11437.
8. Bienkowska-Haba M., Williams C., Kim S.M., Garcea R.L., Sapp M. Cyclophilins Facilitate Dissociation of the HPV16 Capsid Protein L1 from the L2/DNA Complex Following Virus Entry. *J Virol.* 2012 Sep;86(18):9875-87.
9. Dasgupta J., Bienkowska-Haba M., Ortega M.E., Patel H.D., Bodevin S., Spillmann D., Bishop B., Sapp M., Chen X.S. Structural Basis of Oligosaccharide Receptor Recognition by Human Papillomavirus. *J Biol Chem.* 2011 Jan 28; 286(4): 2617-2624.
10. Chaitanya G.V., Franks S.E., Cromer W., Wells S.R., Bienkowska M., Jennings M.H., Ruddell A., Ando T., Wang Y., Gu Y., Sapp M., Mathis J.M., Jordan P.A., Minagar A., Alexander J.S. Differential cytokine responses in human and mouse lymphatic endothelial cells to cytokines in vitro. *Lymphat Res Biol.* 2010 Sep; 8(3): 155-164.
11. Bienkowska-Haba M., Patel H.D., and Sapp M. Target cell cyclophilins facilitate human papillomavirus type 16 infection. *PLoS Pathog.* 2009 Jul; 5 (7): e1000524.
12. Cembrzyńska-Nowak M., Liebhart J., Bieńkowska-Haba M., Liebhart E., Kulczak A., Siemieniec I., Dobek R., Dor A., Barg W., Panaszek B. The overproduction of nitric oxide associated with neutrophilic predominance is relevant to airway mycotic infections in asthmatics undergoing prolonged glucocorticoid treatment. *Cell Mol Biol Lett.* 2005; 10 (4):677-687.
13. Bieńkowska-Haba M., Liebhart J., Cembrzyńska-Nowak M. Nitric oxide production by pulmonary leukocytes from induced sputum in patients with asthma and its effect on epithelial cell viability. *Arch Immunol Ther Exp (Warsz).* 2006 May-Jun; 54 (3):201-7.
14. Żak-Nejmark T., Kraus-Filarska M., Małolepszy J., Cembrzyńska-Nowak M., Nadobna G., Bieńkowska-Haba M. Rhinoviruses stimulate chemotaxis of peripheral lymphocytes from healthy and asthmatic subjects. *Centr. Eur. J. Immunol.* 2003; 28, 14-18.
15. Liebhart J., Cembrzyńska-Nowak M., Bieńkowska M., Liebhart E., Dobek R., Zaczyńska E., Panaszek B., Małolepszy J. Relevance of the selected cytokine release (TNF- α , IL-6, IFN- γ and IFN- γ) to the exacerbation of bronchial asthma due to airway mycotic infections. Possible predominant role of IFN- γ ? *J. Invest. Allergology Clin. Immunology,* 2002; 3, 182-191.
16. Bieńkowska-Haba M., Cembrzyńska-Nowak M., Liebhart J., Dobek R., Liebhart E., Siemieniec I., Panaszek B., Obojski A., Małolepszy J. Comparison of leukocyte population from bronchoalveolar lavage and induced sputum in the evaluation of cellular composition and nitric oxide production in patients with bronchial asthma. *Arch. Immunol. Ther. Exp.,* 2002, 50, 75-82.

17. Cembrzyńska-Nowak M., Bieńkowska M., Weryńska B., Dyla T., Jankowska R. Contribution of endotoxins present in respiratory tract to overproduction of nitric oxide associated with impaired interleukin-6 release in bronchoalveolar leukocytes from lung cancer patients. *Arch. Immunol. Ther. Exp.*, 2000, 48, 119-125.
18. Lewandowicz-Uszyńska A., Jankowski A., Polańska B., Krukowska K., Cembrzyńska-Nowak M., Bieńkowska M., Inglot A.D. Ocena wybranych parametrów stanu zapalnego u pacjenta chorego na przewlekłą chorobę ziarniniakową. *Pediat. Pol.*, 74, 1-6, 1999 (Polish)
19. Cembrzyńska-Nowak M., Liebhart J., Banaszek B., Dobek R., Bieńkowska M., Szklarz E. TNF- α , IL-6 and IFN- γ secreted by bronchoalveolar leukocytes isolated from patients with bronchial asthma complicated by fungal airways infections. *Arch. Immunol. Ther. Exp.* 1998: 46, 381-386.
20. Cembrzyńska-Nowak M., Bieńkowska M., Szklarz E. Exogenous interleukin-2 regulates interleukin-6 and nitric oxide but not interferon- γ and tumor necrosis factor- α production in bronchoalveolar leukocytes from patients with small cell lung cancer. *Arch. Immunol. Ther. Exp.* 1998: 46, 367-374.

Review Articles:

1. DiGiuseppe S., Bienkowska-Haba M., Guion L.G., Sapp M. Cruising the cellular highways: How human papillomavirus travels from the surface to the nucleus. *Virus Res.* 2017 Mar 2;231: 1-9.
2. DiGiuseppe S., Bienkowska-Haba M., Sapp M. Human Papillomavirus Entry: Hiding in a Bubble. *J Virol.* 2016 Aug 26; 90(18):8032-8035.
3. Bienkowska-Haba M. and Sapp M. The cytoskeleton in papillomavirus infection, *Viruses*, 2011, 3(3):260-271.
4. Sapp M. and Bienkowska-Haba M. Viral entry mechanisms: human papillomavirus and a long journey from extracellular matrix to the nucleus. *FEBS J* 2009 Dec; 276 (24):7206-7216, and *FEBS J*, Virtual Issue: Membrane Trafficking April 2011.
5. Bieńkowska-Haba M. Nitric oxide produced by pulmonary leukocytes in bronchial asthma. *Postepy Hig Med Dosw (Online)*. 2005; 59: 584-601. (Polish)

SEMINARS

- 10/11/2016 "A New Cell Culture System allows the Analysis of the Complete HPV16 Life Cycle." The 2016 Fall Seminar Series, Feist-Weiller Cancer Center, Shreveport
- 06/01/2011 "Host cell factors in HPV16 entry" 2011 Spring Seminar Series, Department of Microbiology and Immunology, LSU-HSC-S, Shreveport
- 03/27/2003 "Tlenek azotu w lokalnej odpowiedzi zapalnej w astmie oskrzelowej" (Nitric oxide in local immune response during bronchial asthma) 2002/2003 Seminars Series, Institute of Immunology and Experimental Therapy, Wroclaw, Poland
- 12/14/1999 "Tlenek azotu w układzie oddechowym w warunkach fizjologicznych, w zakażeniach i w astmie oskrzelowej." (Nitric oxide in the respiratory track in physiological conditions, during infections, and bronchial asthma) Institute of immunology and Experimental Therapy, 1999/2000 Seminars Series, Poland