

## Short Curriculum Vitae

### Robert Nawrot, Ph.D.

Date and place of birth: 21st August 1979 in Gostyn, Poland  
Mailing address: Adam Mickiewicz University, Faculty of Biology, Institute of Experimental Biology, Department of Molecular Virology, Umultowska 89, 61-614 Poznan, Poland  
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#### ACADEMIC QUALIFICATIONS:

2003 – 2007 Doctor of Biological Sciences in the area of Biology, Adam Mickiewicz University in Poznan, Poland, June 2007. Ph.D. thesis entitled „Characteristics of nucleases isolated from *Chelidonium majus* L. milky sap.”  
2001 – 2003 Master of Science Degree in Biotechnology, Adam Mickiewicz University in Poznan, Poland, March 2003. Master thesis entitled „Characteristics of several human papillomavirus (HPV16) proteins overexpressed in procaryotic and eucaryotic systems.”  
1998 – 2001 Bachelor of Science Degree in Biotechnology, Adam Mickiewicz University in Poznan, Poland.

#### POSITIONS HELD:

2007 - Assistant Professor position at Faculty of Biology, Adam Mickiewicz University in Poznan, Poland.  
2003 – 2007 Ph.D. student, Faculty of Biology, Adam Mickiewicz University in Poznan, Poland.

#### RESEARCH EXPERIENCE:

07.2010 Germany, Max-Planck-Institute of Molecular Plant Physiology, Potsdam-Golm, Department 2: Metabolic Networks, Group: Signaling Proteomics, monthly stay (German Academic Exchange Service scholarship - DAAD).  
2003-2007 Ph.D. studies, Faculty of Biology, Adam Mickiewicz University in Poznan, Poland.  
10.2003 France, Institut National de la Recherche Agronomique (INRA), Laboratoire d'Etude des Interactions des Molécules Alimentaires, Nantes, monthly stay.  
10.2001-03.2002 Germany, Berlin, Socrates/Erasmus Exchange Program, Study at Technische Universität Berlin in winter semester of 2001/2002 academic year.

#### MAJOR FIELDS OF TRAINING:

- Biochemistry.
- Plant proteomics.
- Molecular biology.
- Molecular virology.

#### RESEARCH OBJECTIVES:

Revealing the proteomes and plant defense proteins from pharmacologically active plants from the family Papaveraceae: *Chelidonium majus* L. and *Corydalis cava* Schweigg. et Koerte, which possess antiviral, antibacterial, antifungal and antitumor activities. The main goal is to explain the mechanisms of pharmacological activities of the extracts isolated from these plant species.

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### Recent publications

#### Plant proteomics:

1. Nawrot R., Wolun-Cholewa M., Bialas W., Wyrzykowska D., Balcerkiewicz S., Goździcka-Józefiak A. 2010. Cytotoxic activity of proteins isolated from extracts of *Corydalis cava* tubers in human cervical carcinoma HeLa cells, ***BMC Complement Altern Med***, 10, 78.
2. Nawrot R., Wołuń-Cholewa M., Goździcka-Józefiak A. 2008. Nucleases isolated from *Chelidonium majus* L. milky sap can induce apoptosis in human cervical carcinoma HeLa cells but not in Chinese Hamster Ovary CHO cells, ***Folia Histochem Cytobiol***, 46, 79-83.
3. Nawrot R., Kalinowski A., Goździcka-Józefiak A. 2007. Proteomic analysis of *Chelidonium majus* milky sap using two-dimensional gel electrophoresis and tandem mass spectrometry, ***Phytochemistry***, 68, 1612-1622.
4. Nawrot R., Lesniewicz K., Pienkowska J., Goździcka-Józefiak A. 2007. A novel extracellular peroxidase and nucleases from a milky sap of *Chelidonium majus* L., ***Fitoterapia***, 78, 496-501.
5. Bialas W., Nawrot R., Goździcka-Józefiak A., Jankowski T., Dembinska A., Harajda-Cytacka E. 2007. Thermoseparating of aqueous two-phase systems (ATPS) as an alternative process method for the recovery and purification of the nuclease from *Chelidonium majus*. ***Pol J Environ Stud***, 16 (5C), Part I, 32 - 39.
6. Nawrot R., Goździcka-Józefiak A. 2007. [Plant defensins], ***Biotechnologia***, 77, 27-41. Polish.
7. Nawrot R., Obrepalska-Stepłowska A., Pacholska- Bogalska J., Broniarczyk J., Goździcka-Józefiak A. 2006. [Plant pathogenesis-related proteins]. In: H. Koroniak, J. Barciszewski (ed.), ***Na Pograniczu Chemii i Biologii***. Vol. XV, 117-139, Adam Mickiewicz University Press. Polish.

#### Others:

8. Nawrot R., Kamieniarz K., Malinowska M., Józefiak A., Kędzia W., Kwaśniewska A., Kuźma D., Goździcka-Józefiak A. 2010. The prevalence of *Leptotrichia amnionii* in cervical swabs of HPV positive and negative women, ***Eur J Gynaecol Oncol***, 31, 425-428.
9. Nawrot R., Barylski J., Tomaszewski Ł., Jerzak L., Goździcka-Józefiak A., Jędrzejewski Sz., Tryjanowski P. 2009. Identification of bacterial species in white stork chicks in Poland using PCR method and sequencing of bacterial 16SrRNA, ***Pol J Env Stud***, 18, 301-304.
10. Kędzia W., Olejnik A., Schmidt M., Nawrot R., Goździcka-Józefiak A., Kędzia H., Spaczyński M., 2006. The level of antibody against E6 HPV16 oncoprotein in blood sera of women with chronic HPV16 infection and cervical cancer, ***Eur J Gynaecol Oncol***, 27(1), 65-68.
11. Kwaśniewska A., Nawrot R., Skoczyński M., Semczuk-Sikora A., Goździcka-Józefiak A. 2006. [Prevalence of *Leptotrichia amnionii* sp. nov. in pregnant women], ***Ginekol. Pol.***, 77(7), 523-526. Polish.