**Curriculum Vitae**

**Name: RNDr. Petr Novák, PhD.**

**Born:** 8th May 1974 in Ostrava, Czech Republic

**Education, employment and stays:**1997-2002 PhD degree in Biochemistry, Faculty of Science, Charles University in Prague  
1993-1997  Master degree in Biochemistry, Faculty of Science, Charles University in Prague

2014-present head of the laboratory, Institute of Microbilogy, Academy of Sciences of the Czech Republic

2004-present senior researcher ,Faculty of Science, Charles University in Prague

2004-2013  senior researcher, Institute of Microbilogy, Academy of Sciences of the Czech Republic

1997-2002 research assistant, Faculty of Science, Charles University in Prague

1995-2002 research assistant, Institute of Microbilogy, Academy of Sciences of the Czech Republic

9-12/2005 Visiting Scientist, University of Warwick, UK  
4-5/2005 Visiting Scientist ,Sandia National Laboratories, Livermore, USA  
2002-2004 LTE at Sandia National Laboratories, Livermore, USA  
8/1999 FEBS/EMBO Course, University of Aarhus, Denmark and Heidelberg, Germany

**Awards:**  
2015 Vladimir Hanus Award (Ioannes Marcus Marci Spectroscopic Society Award)  
2005 Otto Wichterle Award (Academy of Sciences of the Czech Republic)  
2000 Ioannes Marcus Marci Spectroscopic Society Award

**Membership in organization:**American Society for Mass Spectrometry (http://www.asms.org/)  
Czech Society for Mass Spectrometry (http://www.czechms.org/)  
Czech Society for Biochemistry and Molecular Biology (http://www.csbmb.cz/)  
Czech Society for Structural Biology (<http://www.structbio.org//>)

Ioannes Marcus Marci Spectroscopic Society (http://www.spektroskopie.cz/)  
  
**Scientific output:**106 scientific articles (article and review), 3 patents, 3 chapter in book, 1869 citation (1750 without self-citation), H‑index 22

**Teaching activities:**Teaching at the Faculty of Science, Charles Univeristy in Prague( subjects:Molecular biology and genetics, Modern methods in protein research, Proteomics and biopolymers primary structure determination)

Supervisor of 6 PhD thesis (2 defended, 4 in progress), 10 master thesis (8 defended, 2 in progress) and 4 bachelor thesis (all defended).

**Membership in International, Scientific and Advisory board committees:**2017 – present The Council for International Affairs, The Czech Academy of Sciences  
2014 – present Czech representative at Management committee COST action BM1403 (Native Mass Spectrometry and Related Methods for Structural Biology)  
2011 – present Institute of Microbiology advisory board

**Brief description and research activities:**Petr Novak has nearly twenty years’ experience in biological mass spectrometry. His early focus included MS based proteomics and characterization of proteins and their post-translational modifications. Since his post-stay at Sandia National Laboratories, Livermore he changed the direction towards MS based structural biology (H/D exchange and chemical cross-linking). In this area he works on the application of structural MS techniques to describe protein interactions and conformational changes. Part of his research is also dedicated to methodological development which includes design of software for data interpretation and preparation of affinity chips for desorption mass spectrometry utilizing reactive ion landing.

**List of selected publications:**

(1) Pompach P, Benada O, Rosůlek M, Darebná P, Hausner J, Růžička V, Volný M**, Novák P.** Protein Chips Compatible with MALDI Mass Spectrometry Prepared by Ambient Ion Landing. Anal Chem. 2016 Sep 6;88(17):8526-34. **IF=6.306**

(2) Pompach, P.; Novakova, J.; Kavan, D.; Benada, O.; Ruzicka, V.; Volny, M.; **Novak, P.** Planar Functionalized Surfaces for Direct Immunoaffinity Desorption/Ionization Mass Spectrometry. Clin Chem **2016**, *62* (1), 270–278. **IF=8.003**

(3) Hermanova, I.; Arruabarrena-Aristorena, A.; Valis, K.; Nuskova, H.; Alberich-Jorda, M.; Fiser, K.; Fernandez-Ruiz, S.; Kavan, D.; Pecinova, A.; Niso-Santano, M.; Zaliova, M.; **Novak, P.**; Houstek, J.; Mracek, T.; Kroemer, G.; Carracedo, A.; Trka, J.; Starkova, J. Pharmacological Inhibition of Fatty-Acid Oxidation Synergistically Enhances the Effect of L-Asparaginase in Childhood ALL Cells. Leukemia 2016, 30 (1), 209–218. **IF=10.431**