

## Dipl.-Ing. Stefan Petrov, PhD

### Contact Information:

#### *Organizational unit:*

Department of Gene regulation  
Institute of Molecular Biology “Roumen Tsanev”  
Bulgarian Academy of Sciences

*Phone:* + 359 2 979 26 80

*E-mail:* [stefart@abv.bg](mailto:stefart@abv.bg)

*Room:* 213



Research Interests/Keywords: Expression and downstream processing of recombinant proteins;  
Genetic diversity and molecular phylogeny of endangered medicinal plants

**PhD Thesis:** *Molecular Design and Construction of Recombinant Human Interferon Gamma Analogues*

### Selected publications:

**Petrov S.**, Boyanova M., Berzal-Herranz A., Karshikoff A., Nacheva G., Ivanov I. (2009) Significance of the putative upstream polybasic nuclear localization sequence for the biological activity of human interferon-gamma. *Biotechnology & Biotechnological Equipment* 23(1), 1058-1062.

**Petrov S.**, Nacheva G., Ivanov I. (2010) Purification and refolding of recombinant human interferon-gamma in urea-ammonium chloride solution. *Protein Expression and Purification* 73(1), 70-73.

Popov M., **Petrov S.**, Nacheva G., Ivanov I., Reichl U. (2011) Effects of a recombinant gene expression on ColE1-like plasmid segregation in *Escherichia coli*. *BMC Biotechnology* 11:18.

Litov L., Ivanov I., Petkov P., Petkov P., Lilkova E., Markov S., Ilieva N., Nacheva G., **Petrov S.** (2012) A new approach to cope with autoimmune diseases: computer simulations and laboratory tests. *Radiotherapy and Oncology*, 102 (Suppl. 1), S134-S135.

Ivanov I., Nacheva G., **Petrov S.**, Grigoleit H.-G. (2016) Suppressor of the endogenous interferon-gamma. *United States Patent US 9,359,421 B2*.

Petrova G., **Petrov S.**, Bancheva S. (2016) Molecular characterization of *Verbascum anisophyllum* (Scrophulariaceae) genetic resources through Inter-simple sequence repeat (ISSR) markers. *Natural Product Communications*. Accepted.

Selected attendances at scientific meetings:

*6<sup>th</sup> FEBS Young Scientist Forum*, June 22-24, 2006 & *31<sup>st</sup> FEBS Congress "Molecules in Health and Disease"*, June 24 - 29, 2006, Istanbul, Turkey.

*BioProcessing, Biologics & Biotherapeutics Congress*. July 20 - 21, 2011, Edinburgh, Scotland, UK.

*6<sup>th</sup> PhD Students and Young Scientists Conference "Young Scientists Towards the Challenges of Modern Technology"*. September 19 - 22, 2011, Warsaw, Poland.

*25 Jahre Deutschsprachiger Studiengang "Chemische Verfahrenstechnik" - für eine saubere Welt*. April 25 - 27, 2016, Sofia, Bulgaria.

*9<sup>th</sup> Conference on Medicinal and Aromatic Plants of Southeast European Countries*. May 26 - 29, 2016, Plovdiv, Bulgaria.

*30 Years Institute of Chemical Engineering, Bulgarian Academy of Sciences*. November 8 - 9, 2016, Sofia, Bulgaria.

*2016 PSC Symposium "Plants for Health: from Research to Application"*. December 1, 2016, Zurich, Switzerland.

Scientific cooperation:

University of Chemical Technology and Metallurgy (UCTM)

Institute of Biodiversity and Ecosystem Research (IBER), Bulgarian Academy of Sciences

Membership in scientific organizations:

Section "Biochemistry, Biophysics and Molecular Biology" - Union of Scientists in Bulgaria