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Research Interests / Keywords: Recombinant protein expression; Bioprocess engineering; Plasmid instability

PhD Thesis: Effects of Human Interferon-gamma Gene Expression and Structure of ColE1-like Plasmids on Plasmid Segregation

Selected publications:

- **Popov M**, Petrov S, Kirilov K, Nacheva G, Ivanov I (2009) Segregational instability in *E. coli* of expression plasmids carrying human interferon gamma gene and its 3'-end truncated variants. *Biotechnology and Biotechnological Equipment* **23**(2), Special edition:840-843.
- **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.
- **Popov M**, Nacheva G, Reichl U, Ivanov I (2012) Effect of the 3'-terminal truncation of the human interferon-gamma gene on plasmid segregation in *Escherichia coli*. *Biotechnology and Biotechnological Equipment* **26**(2):2930-2936

Selected attendances at scientific meetings

- **Popov M**, Petrov S, Receb M, Ivanov I, Nacheva G, Reichl U. Segregational instability of expression plasmids carrying the human interferon gamma gene in *E.coli*. 34th FEBS Congress “Life’s Molecular Interactions”, July 4-9, 2009, Prague, Czech Republic

- **Popov M**, Petrov S, Nacheva G, Ivanov I, Reichl U. Segregation of bacterial plasmids expressing 3'-end truncated human interferon-gamma genes in *E. coli* cells. BIOMATH 2011, International Conference on Mathematical Methods and Models in Biosciences, June 15-18, 2011, Sofia, Bulgaria.
- **Popov M**, Petrov S, Nacheva G, Ivanov I, Reichl U. Effects of human interferon-gamma gene expression on ColE1-like plasmid segregation in *Escherichia coli*. BioProcessing, Biologics & Biotherapeutics Congress, July 20-21, 2011, Edinburgh, Scotland, UK.
- **Popov M**, Petrov S, Nacheva G, Ivanov I, Reichl U. Fermentation kinetics of recombinant *E. coli* cells producing human interferon-gamma in a chemostat culture. 6th PhD Students and Young Scientists Conference “Young Scientists Towards the Challenges of Modern Technology”, September 19-22, 2011, Warsaw, Poland.
- **Popov M**, Radi MS, Nacheva G, Ivanov I. Model-based simulations of the growth kinetics of recombinant *E.coli* cells in a membrane dialysis reactor. 25 Jahre Deutschsprachiger Studiengang "Chemische Verfahrenstechnik" - für eine saubere Welt. April 25-27, 2016, Sofia, Bulgaria.
- **Popov M**, Nacheva G, Ivanov I. Modeling of recombinant *E.coli* fed batch fermentations considering acetate inhibition effects. 30 Years Institute of Chemical Engineering, Bulgarian Academy of Sciences. November 8-9, 2016, Sofia, Bulgaria.

Scientific cooperation: University of Chemical Technology and Metallurgy, Sofia, Bulgaria

Membership in scientific organizations: Union of Scientists in Bulgaria, Section “Biochemistry, Biophysics and Molecular Biology”