

**PROGRAM 8<sup>TH</sup> PEACE**  
**SUNDAY SEPTEMBER 16<sup>TH</sup> 2007**

**15:00-18:00 Registration**

18:00 Welcome reception: Mike Butler

19:00-21:00 Keynote Speaker: Jorge Kalil, Universidade de Sao Paulo, Sao Paulo, Brazil  
*"Towards a vaccine to prevent rheumatic fever"*

**MONDAY SEPTEMBER 17<sup>TH</sup> 2007**

**07:00**

*Registration & Breakfast*

**08:30-14:30 Poster Setup by Participants**

**09h00**

**Session I: Expression System Design**  
**Opening Remarks: Kenneth Lundstrom & Mike Betenbaugh**

- 09:15 T1.1 Alan Dickson, University of Manchester, Manchester, UK  
*"Characterisation of molecular mechanisms that determine stability/instability of recombinant gene expression in NS0 myeloma cell lines"*
- 09:45 T1.2 Beate Stern, UniTargetingResearch AS, Norway  
*"UTRtech as a means to improve mRNA translatability and the productivity of mammalian cells"*
- 10:15 T1.3 Jackie Sheng, Amgen, Thousand Oaks, USA  
*"The use of expression vector engineering for improved genomic stability and enhanced protein production"*

**10:45-11:15**

*Coffee Break #1*

- 11:15 T1.4 Nicolas Mermod, Institute of Biotechnology, University of Lausanne, Switzerland  
*"High-level transgene integration and expression in mammalian cells using MAR elements"*
- 11:45 T1.5 Eelco Docter, AstraZenica, UK  
*"Comparison of different mammalian expression vector for transient transfection in HEKEBNA cells"*

**13:00**

*Lunch*

**14h00**

**Session II: Gene Delivery**  
**Opening Remarks: Reingard Grabherr & Tom Kost**

- 14:15 T2.1 Boro Dropulic, Lentigen Corporation, Baltimore, USA  
*"The Generation of Protein Expressing Cell Lines using Lentiviral Vector Mediated Gene Delivery"*
- 14:45 T2.2 Jude Samulski, University of North Carolina, Chapel Hill, USA  
*"Adeno-associated Virus Vectors for Targeted and Repeat Delivery"*
- 15:15 T2.3 Raj Haldankar, Amgen, Thousand Oaks, USA  
*"Transient Recombinant Antibody Expression in HEK 293EBNA cells at greater than 100 mg/L"*
- 15:45 T2.4 Wang Shu, The Institute of Bioengineering and Nanotechnology, Singapore  
*"Baculoviral Vectors for Gene Transfer into Human Embryonic Stem Cells"*

**16:15-16:45**

*Coffee Break #2*

16h45

**Short-Talks**  
**Chair: Kenneth Lundstrom**

- 17:00 S1. Carlos Pereira, Instituto Butantan, Brazil  
*“Enhanced production of recombinant rabies virus glycoprotein (rvgp) by drosophila melanogaster s2 cells through control of culture conditions”*
- 17:15 S2. Shilpa Shroff, BioMarin Pharmaceutical, USA  
*“Application of anti-apoptosis genes for perfusion-mode production of recombinant proteins by CHO cells”*
- 17:30 S3. Jens Pontiller, ACBT, IAM, Vienna, Austria  
*“Identification of CHO endogenous promoter elements based on a genomic library approach”*
- 17:45 S4. Ela Puchacz, Millipore Corporation, USA  
*“Accelerated Method for Production of Recombinant Proteins using UCOE Gene Expression Technology”*

**18:00-18:30****Coffee Break #3**

- 18:30 S5. William Clay, GlaxoSmithKline Molecular Discovery Research, NC, USA  
*“Engineering an improved CHO-K1 host cell line for BacMam-mediated protein expression and cell-based assay development”*
- 18:45 S6. Fay Saunders, UCB Celltech, UK  
*“The use of chromatin remodelling elements to increase antibody expression in cho-k1 cells”*
- 19:00 S7. Josef Mittermaier, Eugenex Biotechnologies, Switzerland  
*“GeneStripper: System for Choosing the Best”*

**19:15-20:00 Poster Session & Cocktail Reception****20:00-22:00****Dinner****TUESDAY SEPTEMBER 18<sup>TH</sup> 2007****07:00****Registration & Breakfast**

08h30

**Session III: Cell Engineering**  
**Opening Remarks: Mark Smales & Andy Racher**

- 08:45 T3.1 Ineke Braakman, Utrecht University, Utrecht, The Netherlands  
*“Understanding and manipulating protein folding in the secretory pathway”*
- 09:15 T3.2 Kim Stutzman-Engwall, Pfizer Global Research & Development, Groton, USA  
*“Engineering a CHO Cell Line to Express a High Value Drug Target - Cholesteryl Ester Transfer Protein (CETP)”*
- 09:45 T3.3 Linda M. Hendershot, St. Jude Children’s Research Hospital, USA  
*“Building an Antibody Factory: A Job for the Unfolded Protein Response”*

**10:15-10:45****Coffee Break #1**

10:45 T3.4 Trevor Collingwood, Sangamo BioSciences, Richmond, CA, USA  
“Rapid Targeted Gene Knockout and Site-Specific Gene Integration using Zinc Finger Nucleases”

11:15 T3.5 Joseph Shiloach, NIH, Biotechnology Unit Core Facility NIDDK, USA  
“Identifying genes that affect cell behavior and protein production using microarrays”

**11:45 Workshop 1: SAFC - Selection of Clonal Cell Lines to be used in Therapeutic Protein Manufacturing**

**12:15 Workshop 2: Invitrogen - Advances in gene expression and protein production technologies**

**12:45-18:30 Free for Sightseeing & Water Sports**

**13:00-14:30 Lunch**

**18:30-20:15 Poster Session & Cocktail Reception**

**20:15 Beach BBQ / BBQ Buffet**

**WEDNESDAY SEPTEMBER 19<sup>TH</sup> 2007**

**07:00 Registration & Breakfast**

**09h00 Session IV: Post-translational modifications/product integrity  
Opening Remarks: Ana Maria Moro & Mike Butler**

09:15 T4.1 Roy Jefferis, University of Birmingham, UK  
“The influence of glycosylation on antibody function: challenges and opportunities”

09:45 T4.2 Nigel Jenkins, Dublin City University, Dublin, Ireland  
“Post-Translational Modifications of Amino Acid Residues in Recombinant Proteins: Significance for Biopharmaceuticals”

10:15 T4.3 Mike Betenbaugh, Johns Hopkins University, USA  
“Glycosylation Processing Limitations in Animal Cell Cultures”

**10:45-11:15 Coffee Break #1**

11:15 T4.4 Rodney Keck, Genentech, USA  
“Oligosaccharides: Impact on recombinant monoclonal antibody clearance”

**11:45 Workshop 3: KEMP - Development of a Rapid Transient Expression System Utilizing High-Density Cryopreserved Cultures of HEK-293 and CHO Cells**

**12:15 Workshop 4: Wave Biotech - The use of Wave Bioreactors in the Pharmaceutical Industry**

**13:00 Lunch Buffet**

14h30

**Session V: Integrated process development**  
**Opening Remarks: Beth Augusto & Konstatin Konstantinov**

- 14:45 T6.3 Manon Cox, Protein Sciences Corporation, Meriden, USA  
*"A recombinant hemagglutinin protein vaccine for influenza produced in insect cells"*
- 15:15 T5.1 Octavio Ramirez, UNAM, Cuernavaca, Mexico  
*"Integrated process monitoring and development for the production of synthetic viral structures: from cell culture to purified metallic nanoparticles"*
- 15:45 T5.2 Ron Taticek, Genentech, San Francisco, USA  
*"Quality by Design & its Impact on Cell Culture Process Development"*
- 16:15 T5.3 Anne Bondgaard Tolstrup, Symphogen A/S, Denmark  
*"One-pot production of recombinant human polyclonal antibody drug product"*

**16:45-17:15** *Coffee Break #2*

**17:15** **PEIS General Assembly**

**20:00** *Gala Dinner*

**THURSDAY SEPTEMBER 20<sup>TH</sup> 2007**

*Registration & Breakfast*

08h30

**Session VI: Viral Vaccines**  
**Opening Remarks: Amine Kamen & Americo Craveiro Vallée**

- 08:45 T6.1 Carlos Augusto Pereira, Instituto Butantan, São Paulo, Brasil  
*"Synthesis of viruses and viral proteins by insect cells"*
- 09:15 T6.2 John C. Aunins, Merck, USA  
*"Development of adenovirus-vectored HIV-1 Vaccine Candidates"*
- 09:45-10:15** *Coffee Break #1*
- 10:15 T6.3 Manon Cox, Protein Sciences Corporation, Meriden, USA  
*"A recombinant hemagglutinin protein vaccine for influenza produced in insect cells"*  
 Moved to Wednesday at 14:45
- 10:15 T6.4 Matt Coffey, Oncolytics Biotech Inc., Calgary, Canada  
*"Large Scale Production Process for the Oncolytic Agent REOLYSIN® "Human Reovirus"*
- 11:45 T6.5 Johannes Gach, Institute of applied microbiology, Univ. f. Bodenkultur, Austria  
*"Anti-idiotypic antibody 3H6. A novel promising vaccine against HIV-1?"*

**11:15** **Closing Remarks: Mike Butler**

**12:00** **Lunch and**  
**DEPARTURE FOR RIO**