

# Workshop & User Meeting: Innovation for Growing and Analyzing Cell Lines

10 February 2015, GIGA – CHU, Liège

## Case Studies Present the Latest Technologies, Improving R&D for Upstream & Downstream Processes in Bioprocesses, Cell Therapy and Regenerative Medicine

Using real cases, researchers explain how their use of new technologies helped them cope with upstream and downstream challenges. They share expertise and know-how supported by technical experts demonstrating the different innovations in six parallel workshops.

### FOR REGISTRATION CLICK HERE

Please indicate your selection of 3 workshops to attend. You can also indicate if you wish to participate to either site tours.

### PROGRAM

09:00 Welcome Note and Program overview

#### KEYNOTE PRESENTATION

- 09:10 *“The challenge of Technical Life Cycle Management”*  
**Dr Alain PRALONG** - GlaxoSmithKline Vaccines
- 09:30 *“A leader in cell therapy products for orthopedics and bone diseases”*  
**Dr Enrico BASTIANELLI** - Bone Therapeutics
- 09:50 *“Cell Therapy in an Academic Setting the Exemple of Mesenchymal Stromal Cells”* **Prof Yves BEGUIN** - LTCG ULG
- 10:10 *“From cell line development to protein/plasmid production & Characterization: Exploring innovative processes for the life sciences technologies”*  
**Dr Alexandre DI PAOLO** - Eurogentec
- 10:30 Coffee

10:50 User presentations and demonstrations: Upstream Processes & Analysis

#### 1. Bioreactor Processes For Stem Cells

**Dr. Toon LAMBRECHTS**, PhD researcher, Prometheus KUL  
*“Clinical-scale progenitor cell expansion in Pall Xpansion bioreactors for bone tissue engineering applications”*

**Philip MATHUIS**, CEO - Ovizio  
*Automating process control by using innovative label-free quantitative imaging*

##### Technology Show Case

Introducing multi plate bioreactors for traditional 2-D cell cultures, which offer the possibility of monitoring cell morphology and density by a specific holographic microscope.

#### 2. Cell Cultures With Adherent Cells

**Dr. Pascal LEFEBVRE**, Global Product manager viral vaccines, Pall Life Sciences  
*“iCELLis@: New technology that intensifies, simplifies vaccines manufacturing and increases overall process efficiency”*

##### Technology Show Case

Introducing bioreactors for fragile adherent cell culture production, with highly controlled conditions resulting in superior performance as alternative to microcarrier technology. For more traditional processing with micro-carriers in a stirred bioreactor, a case study for vaccines will be presented.

12:20 Lunch and Visit of Eurogentec or Laboratory of Cell and Gene Therapy

Networking lunch and possibility for company or laboratory visit. Please mention your selection during registration if you wish to join either visit. For both options a limited number of spaces available !

Eurogentec kindly offers the participants the opportunity to visit their biotech process development laboratories.

To participants with more interest in techniques applied during the development of stem and gene therapies, professor BEGUIN offers the opportunity to visit the Laboratory of Cell and Gene Therapy (LTCG) at the Centre Hospitalier Universitaire of Liège.

13:50 User presentations and demonstrations: Upstream processes & Analysis

#### 3. Label Free Protein Analysis

**Dr. Polina FURMANOVA HOLLENSTEIN**, PhD, Scientist, Viral Vaccines, Janssen Infectious Diseases and Vaccines  
*“Bio-Layer Interferometry (BLI) for rapid characterization of protein vaccine candidates”*

##### Technology Show Case

Introducing innovations analyzing proteins and process related impurities in crude, unpurified samples in only 5'. Study molecular interactions and binding kinetics in real-world samples that just can't be run on SPR-based platforms.

#### 4. Bioreactor Technologies with Suspension Cells

**Jolanda GERRITSEN**, Technology Expert GLD, Genmab  
*“Optimal use of HT selection of cell lines in Cell Line”*

##### Technology Show Case

Introducing rapid microbial and cell culture process development with multiwell microreactors. Demonstration of a single use bioreactor for upscale applications for research and GMP applications.

15:10 Coffee

15:30 User presentations and demonstrations: Fermentation & Cell Culture Harvesting and Further Purification

#### 5. Harvesting And Concentrating Your Bioreactor Product

**Stijn DE BACKER**, Technical Specialist, Pall Life Sciences  
*“Harvesting biotechnological processes: Selecting the best technology”*

##### Technology Show Case

Introducing options to optimize your clarification and concentration steps after your bioreactor processes, using scalable and reliable technologies for rapid process development.

#### 6. High Throughput Chromatography And Purification Technologies

**Dr. Alain DUBUS** PhD, scientific advisor, Process transfer & development, Eurogentec  
*“Development of the DownStream Purification Process of a Human Serum Globulin Using the ScreenExpert Platform”*

##### Technology Show Case

Introducing high throughput screening purification technologies, allowing for quick optimization of purification conditions without robotics

16:50 Closing reception and networking

#### Location and Access

The workshop & User meeting takes place at the GIGA conference center on the 5th floor of the GIGA-tower (B34) at the Centre Hospitalier Universitaire de Liège (CHU), Avenue de l'Hopital 1, Liège.

#### Car:

You can park the car at the Parking CHU. From the main entrance of the hospital, signs will guide you to the GIGA-Tower.

An additional free parking is available at the 'Country Hall' – follow the arrows 'P délestage'. A shuttle bus (every 10') will bring you to the main entrance of the CHU

#### Train:

Take the train till the beautiful train station 'Gare des Guillemins'. A shuttle will be organized by Pall for transport to the conference center. Please indicate during your registration if you wish to make use of this option. You can also take buses 2, 25 of 48 to CHU – infrequent schedule in the morning, so please consult the timetables at: [http://www.chu.ulg.ac.be/jcms/c\\_675012/accessibilite-du-chu-site-du-sart-tilman](http://www.chu.ulg.ac.be/jcms/c_675012/accessibilite-du-chu-site-du-sart-tilman)

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