



BIOMIT

Biomanufacturing Challenges
of Immunotherapy

15 - 19 of October

2022

Welcome..!!!!

On behalf of the Organizing Committee of **Biomanufacturing Challenges of Immunotherapy 2022** we take great pleasure in welcoming academic scientists, researchers, research scholars, students and experts of application fields to **Varadero, Cuba** for the 5th edition of **BIOMIT 2022** to foster the progress in the field of **Biotechnology and Bioengineering** by contributing with your expertise to what promises to be a very comprehensive and exciting congress.

5th International Congress Biomanufacturing Challenges of Immunotherapy (BIOMIT 2022), which will be held during **October, 15 to 19, 2022** at **Iberostar Selection Varadero Hotel, Cuba** is now an established congress, attracting participant's intent on sharing, exchanging and exploring new tendencies and challenges of **Biotechnology and Bioengineering** and related research and latest developments. The event will have plenary speakers, established keynote speakers, active invited speakers and fresh contributed speakers. In this edition we are included the virtual format for oral presentations. In addition, a variety of poster presentations along with workshops and special sessions would be interested in the audience.

We sincerely hope that **BIOMIT 2022** will be an excellent opportunity to learn about Cuban Biotech achievements, visit cuban scientific centers, to discuss, present new results, create new opportunities and new collaborations projects.

Lectures and posters will be included in **8 principal sessions**. These sessions will especially cover topics like:

1. Cell line development and protein expression systems. (Chairwoman: MSc. Tammy Bogniano)

- Protein engineering for developability enhancement.
- Protein expression systems. Transient and stable expression.
- Cellular engineering. Glycoengineering.
- Multimeric protein production.
- Influence of culture conditions on protein production in mammalian cells.
- Metabolic biomarkers on clone selection and process





optimization.

2. *Culture for glycoprotein and antibody production.*

(Chairman: MSc. Gonzalo Oliva and Bs. Julio Palacios)

- Cell culture media development for improvement of productivity in the perfusion process (feed-perfusion).
- New trends in the Perfusion systems to fermentations of mammalian cells at commercial scale productions (retention devices).
- Scale up of perfusion process.
- Impact of multivariate analysis on improving the upstream process.
- Future impact of technology 4.0 in the development of mammalian cell fermentations for production of recombinant proteins.
- Omics in process development of glycoproteins and monoclonal antibodies.

3. *Downstream platforms.* (Chairwoman: PhD Lourdes Hernández)

- Continuous downstream applications.
- Novel chromatographic resins.
- Pressure-Flow experiments, packing, and modeling for scale-up.
- Strategies for development and purification of recombinant antibodies and proteins.
- New developments in membranes for bioprocessing.

4. *Formulation: Protein stability and Aggregation .*

(Chairman: MSc. Julio F. Santo Tomas)

- Stability prediction.
- Protein-protein interaction and impact on aggregation.
- Novel excipients.
- Lyophilization challenges and concentrated proteins formulations.
- Complex formulation based in LPS platform.

5. *Quality and regulatory trends*

(Chairwoman: MSc. PhD. Mercedes Cedeño)

- New approaches in quality management of COVID-19 vaccines. What can we learn for other new products?
- Innovation, Regulations and Sanitary Registration during COVID-19 vaccines development.
- cGMP on Multiproduct/Multipurpose management of biomanufacturing facilities.
- Risk management and control strategy of adventitious





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agents in bioprocessing.

- Comparability study during process development. An ISO 9001-2015 Quality Systems Certification in a Biotech company.
- Process Analytical Technologies (PAT) and Data Analytics for the Manufacture of Monoclonal Antibodies.
- Correlation study between predictive clinical efficacy bioassay and bioassay for product release. Case Studies.
- Approach for Supplier Evaluation and Selection in a Pharma company.

6. Modern techniques in biopharmaceutical products characterization (Chairwoman: MSc. Judey A. García)

- Chemical-physical methods for the characterization of immunotherapeutics products (development, standardization, etc).
- Relationship between molecular structure and biological activity in biopharmaceutical products.
- The rol of modern mass spectrometry for biosimilar development.
- The characterization of the receptor binding domain (RBD) of the SARS-CoV-2 spike protein (S) using modern analytical methods
- Characterization of innovative products (including vaccines against covid19)

7. Improvement of regulatory challenges: logistics and technology vision (Chairman: Eng. Ramses Menendez and Yuri Abel Tamayo Sosa)

- The Supply Management of Raw Materials and Materials in the Biotechnology Industry in the Current International Context.
- Validation of the Cold Chain for the international transportation of biotechnological products (COVID-19 vaccines as study cases).
- Warehouse Management in the Biopharmaceutical Industry.
- Supply Chain Resilience: Bottlenecks & Core Capacities.
- Automatization of critical systems as support of production.
- Critical systems as support for production processes.
- Risk-based maintenance management to improve the quality and availability of critical equipment and systems in biotech industry.
- Energy efficiency and renewable energy sources.



8. Business challenges and process economics
(Chairman: MSc. Einard Blanco)

Opportunities for Conference Attendees

For Researchers:

- Speaker Presentation.
- Poster Display.
- Poster Competition (winner will get best poster award)

For Business Delegates:

- Speaker Presentations.
- Networking Opportunities.
- Audience Participation.

For Sponsors:

- Sponsor Fee: **6000 euros** (four participants with all included) or **3000 euros** (two participant with all included)
- Sponsorship Opportunities (announcement, sponsor logo, lecture/workshop, commercial poster, two specialist as participant).
- Product Launch.
- Workshop Organizing.
- Marketing and Networking with Clients.
- CIM organized two congress in the same week and hotel (BIOMIT and IT) and you could have the opportunity to participate in one of both with your specialists (For more information you could as to Organizing Committee

BIOMIT 2022).

Registration Fees:

Options	Cost per participant (€)
Single room + bus congress (participant)	650
Single room + taxi (participant)	700
Double room + bus congress (participant)	530
Double room + taxi (participant)	580





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- The registration fees will include the access to all sessions of the congress, the program and abstract book, a short report in the CIM Journal (Bioprocesos), the attendance and Speaker/Poster certificates, the coffee breaks during the congress days, accommodation, meals and all scientific and social activities organized by the congress or hotel. Any additional information related with virtual presentations, please contact with the Organizing Committee BIOMIT 2022.

Invitation Letter

The Organizing Committee will provide an invitation letter to participants, in case of it is requested, to make easier the steps for getting visa and funds.

Publications

All accepted abstract will be published in conference abstract book.

Scientific Advisory Board

-Dr. Scott Rudge USA
-Prof. Francesc Godia Spain
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-Dr. Robin Curtis UK
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- Kathya R. de la Luz, PhD
- Jesus Dominguez, Eng
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- Elio A. Infante, Bs
- Laudelina Rodríguez, Bs
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Center of Molecular Immunology



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