

**BIOTECHNOLOGY IN ACTION: Stem Cells & Tissue Engineering,
Biopharmaceutical Production and Cancer Biomarkers**

**The HELIX, Dublin City University
4th – 6th September 2012**

Organising Committee

Co-Chairs:

Augusto Pessina, University of Milan; John Masters, University College of London; Martin Clynes, Dublin City University.

Committee Members:

Colin Clarke, Michael Henry, Sinéad Aherne, Paul Dowling, Kenneth Shannon, Paul Kelly, Yvonne Reilly, Carol McNamara, Mairéad Callan

CONFERENCE PROGRAMME

DAY 1 - 4th September 2012

8.30 **Registration**

9.30 Conference Opening: Prof. Brian MacCraith, President, Dublin City University

Welcome: Augusto Pessina / John Masters / Martin Clynes

Stem Cells and Tissue Engineering

Sponsored by: Boland Cryo Ltd., Dublin 12, Ireland [www.bolandcryo.ie]

Chair: *Conor Murphy (RCSI, Dublin); Vincent Lynch (NICB, Dublin)*

9.40 John Masters (University College, London, England)
 "Characterisation and Authentication of Cells in Culture"

10.10 Sajjad Ahmad (Moorefields Hospital, London, England)
 "The use of ex vivo cell expansion to regenerate the ocular surface"

10.50 Finbarr O'Sullivan (NICB, Dublin)
 "Altered miRNA Profiles in Fuchs' dystrophy"

11.20 *Coffee Break/Poster Viewing*

11.50 Marika Sciandra (Istituto Ortopedico Rizzoli, Italy)
“Differentiation therapy in Sarcomas”

12.15 Augusto Pessina (University of Milan, Italy)
“Mesenchymal Stem Cells and Cancer Therapy”

12.50 Student / Postdoctoral Presentation:
12.50 Annett Linge (NICB, Dublin)
1.00 Deirdre O’Flynn (NICB, Dublin)
1.10 Alexandra Canonici (NICB, Dublin)
1.20 Questions & Answers

1.30 *Lunch and Poster Viewing*

Chair: *Augusto Pessina (Milan, Italy); John Masters (University College, London)*

2.40 Shirley O’Dea (NUI Maynooth, Co. Kildare, Ireland)
“Novel electrospray methods for gene delivery to stem cells”

3.10 Student / Postdoctoral Presentation:
3.10 Martina McDermott (NICB)
3.20 Fiona O’Neill (NICB)
3.30 Questions & Answers
3.35 Grit Baier (Max Planck Instit., Germany)
3.45 Katrin Tüking (Univ. of Siegen, Germany)
3.55 Helena Joyce (NICB, Dublin)
4.05 Questions & Answers

4.10 *Coffee break/Poster viewing*

4.40 Paul Johnson (University of Oxford, England)
“Human islet isolation, culture and transplantation”

5.20 John Dick (Ontario Cancer Institute, Canada)
“Cancer Stem Cells”

6.00 *Close*

7.15	<i>Conference Dinner at 1838 Club, Albert College, DCU (1st Floor)</i> <i>Welcome Address: John Costello, Dean, Faculty of Science & Health, DCU</i>
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DAY 2 – 5th September 2012

Biomarkers

Chair: Annemarie Larkin (NICB, Dublin); Michael Moriarty (St. Vincent's Hospital, Dublin)

9.30 Paul Dowling (NICB, Dublin)
"Novel cancer diagnostic protein panels"

10.00 Barry Dowell (Abbott Diagnostics, Chicago, USA)
"Validation and Commercialization of Biomarkers."

10.40 Mike Milburn (Metabolon, USA)
"Global Biochemical Profiling Delineates Biomarkers and Mechanistic Insights"

11.20 *Coffee break/Poster viewing*

11.50 Robert O'Connor (NICB, Dublin)
"Drug Resistance and Cancer Treatment"

12.20 Lawrence Rentoul (Merck-Millipore, Nottingham, England)
"Multiplex Analysis of Biomarkers"

12.45 *Lunch and Poster Viewing*

Cancer Biology

Chair: Rosaleen Devery (Dublin); Ray McDermott (Dublin)

2.15 Peter O'Gorman (Mater Hospital, Dublin)
"Molecular basis for therapy of multiple myeloma"

2.45 Elaine Kenny (St. James Hospital/Trinity College, Dublin)
"Next Generation Sequencing"

3.15 Sharon Glynn (NUI Galway, Ireland)
"Endogenous retroviruses in human cancers"

4.00 *Coffee Break / Poster Viewing*

- 4.30 John Crown (St. Vincent's Hospital, Dublin)
"Recent Developments in Molecularly-targeted Cancer Therapies"
- 5.00 Sharon McKenna (Cork Cancer Research Centre, University College Cork, Ireland)
"Autophagy in Cancer Cells"
- 5.30 Robert Straubinger (University of Buffalo USA)
"Preclinical combination therapy of pancreatic cancer using tumour stromal modulators and nanoparticulate drug carriers"
- 6.10 *Close*

8.00	<p><i>Conference Dinner – Clontarf Castle</i></p> <ul style="list-style-type: none"> • Presentation on behalf of ACTIP to Michael Comer from Martin Wisher (BioReliance Ltd., Glasgow, Scotland) • After Dinner Talk: Michael Comer "An eyewitness testimony on the first 30 years of European Biotechnology" Introduced by: Mark Ferguson, Director General, Science Foundation Ireland
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DAY 3 – 6th September 2012

New Developments in Cellular Biotechnology

Chair: Mark Smales (Kent); William Power, (RVEEH, Dublin)

- 9.30 Nicole Borth (Boku, Vienna, Austria)
"CHO genomics"
- 10.10 Colin Clarke (NICB, Dublin)
"Bioinformatic analysis of CHO mRNA/miRNA/protein expression data"
- 10.40 Paula Meleady (NICB, Dublin)
"Impact of miRNAs on the CHO Proteome"

11.05 *Coffee Break / Poster viewing*

- 11.35 Patrick Boyce (Waters Chromatography, Dublin)
"Characterisation of Biopharmaceutical Proteins using LC/MS"
- 12.05 Richard Shah (Pall Life Sciences)
"Biotech tools for rapid development of clinical trial material"
- 12.35 Student / Postdoctoral Presentation:
12.35 Kumar Prabhash (Dublin Institute Of Technology, Dublin)
12.45 Jessica Whelan (University College Dublin)
12.55 Questions & Answers

1.00 Lunch / Poster viewing

Cell Culture in Industry

Sponsored by: Sera Laboratories International Ltd (Seralab Ltd), UK [www.searlab.co.uk]

Chair: Susan McDonnell (UCD, Dublin); Michael Comer (Vienna)

- 2.00 Alice Redmond (CAI, Cork, Ireland)
"Hot topics from Biotechnology Regulatory"
- 2.25 Niall Barron (NICB, Dublin)
"MiRNAs in cell growth"
- 2.50 Mark Smales (University of Kent, England)
"Signalling Pathways in CHO Cells"

3.30 Coffee Break / Poster viewing

- 4.00 Patrick Gammell (Pfizer, Grange Castle, Ireland)
"Technology & Innovation Strategy for Biotechnology"
- 4.40 Mike Mulcahy (MD Scientific, Ireland)
"Monoclonal antibody production with single use technology"
- 5.00 Michael Lacey (NIBRT, Dublin)
"Research and Training activities at NIBRT"

5.20 Conference Closing