

BPN 2011: Conference program:

Major Conference Sponsor:

PALL Life Sciences



Tuesday 18th October 2011

0900- 1000: Keynote Address

'Translation of hospital laboratory research into international biotherapeutic drugs: An Adelaide success story'

Professor John Hopwood

Head of Lysosomal Diseases Research Unit, South Australia Pathology, Adelaide.

1000 -
1025

Coffee Break

Tuesday 18th October 2011

Session 1: Upstream

Chairs: **Geoff Dumsday**
CSIRO Materials Science and Engineering
Scott Minns
University of New South Wales

Time	Speaker		Title
1025-1030	Chair		Introduction
1030 - 1100	Varela, C. , Kutyna, D., Schmidt, S.A., Borneman, A.R., Henschke, P.A., Krömer, J.O., Khan, A. and Chambers, P.J.	1.1	<i>Generating wine yeasts for the production of low alcohol wines</i>
1100 - 1130	Goodwin, F. , Black, J., Mazzone, A., Venegas, D. and Staxen, I. CSL Limited	1.2	<i>Implementation of QbD Concepts to Fermentation Process Development</i>
1130 - 1200	Donahue-Hjelle, L. Life Technologies	1.3	<i>Freedom™ CHO-S™: Democratisation of an industrially relevant biotherapeutic production platform</i>
1200 - 1330	Lunch Sponsored by: Tecan Australia Pty Ltd		
1330 - 1400	Zhang, H. University of Adelaide	1.4	<i>A miniaturized platform for bioprocess development</i>
1400 - 1430	Rau, T. Pall Corporation	1.5	<i>Small Scale High-throughput Bioreactor Development and Implementation into Cell Line Selection and Process Development: Scale-Up/Scale Down</i>
1430 - 1500	Prowse, A.B.J. , Gunasingh, G., Gray, P.P. and Munro, T.P. AIBN	1.6	<i>Control of human embryonic stem cell growth and differentiation via automation and parallel mini-bioreactors</i>
1500 - 1525	Coffee Break		

Tuesday 18th October 2011

Session 2: Downstream processing

Chairs **Geoff Francis**
Geoffrey Francis Consulting
Ben Hunt
Hospira Adelaide

Time	Speaker		Title
1525 - 1530	Chair		Introduction
1530 - 1600	Tatford, O. and Lontos, J. CSL Biotherapies	2.1	<i>Continuous improvement of Prothrombinex-VF manufacture</i>
1600 - 1630	Zhang, W. Su, P., Capelle, E., Tham, R. and Franco, C. Flinders University	2.2	<i>Advanced extraction and fractionation technology for microalgal biorefinery: no solvent, no drying, high selectivity</i>
1630 - 1700	McCann, K., Wu, J., Seneviratne, G. and Bertolini, J. CSL Biotherapies	2.3	<i>New technologies to increase the efficiency of downstream processing</i>
1700 - 1730	Schroeder, M. CSL Limited	2.4	<i>High throughput purification development – implementation and case studies</i>
1730 - 1900	Welcome Mixer Sponsored by: <i>Merck-Millipore Group</i>		

Wednesday 19th October 2011

800 - ***Haigh Chocolate Factory Tour***
930

1030 ***Coffee break and Poster Session***
1230 ***Sponsored by: [Life Technologies](#)***

1230 - ***Lunch***
1355 ***Sponsored by: [Thermofisher Scientific Pty Ltd](#)***

Session 3: Innovative technologies

Chairs: ***Andrew Barber***
SARDI
Ben Hughes
DSM Biologics

Time	Speaker	Title
1355 - 1400	Chair	Introduction
1400 - 1430	Zimmermann, M., Schroeder, M., Baker I. and Sandford, V. CSL Limited	3.1 <i>Developing a High Throughput Strategy for Process Development</i>
1430 - 1500	<u>Krömer, J.O.</u> , Arifin, Y., Archer, C., Quek, L- E., Sugiarto, H., Vickers, C.E., Nielsen, L.K. AIBN	3.2 <i>Characterization of Escherichia coli W during growth on sucrose or glucose using systems biology</i>
1500 - 1530	Herbert, A Polybatics Limited	3.3 <i>Bioengineered Protein-Polymer Beads (Polybind™) for High-Affinity Purification</i>
1530 - 1600	Rocky de Nys and Nicholas A. Paul	3.4 <i>Macroalgae as a biomass energy source – options and opportunities</i>
1600 - 1630	<i>Coffee Break</i>	

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1630 - Truesdale, M.R. 3.5 *Advanced Biotherapeutic Drug Screening*
1700 Molecular Devices *Technologies*

1700 - Bekard, I. 3.6 *Techniques for probing protein*
1730 CSL Biotherapies *aggregation*

1730 - Kocourek, A. 3.7 *Applications of membrane adsorbers in*
1800 Sartorius Stedim *biopharmaceutical companies*
Australia

1830 - ***Conference Dinner***
Late ***Sponsored by: Sartorius-Stedim Pty Ltd***

Thursday 20th October 2011

Session 4: Monoclonal and recombinant proteins

Chairs: **Lou Fabri**
CSL Limited
Sam Billingham
Hospira Adelaide

Time	Speaker	Title
0855 - 0900	Chair	Introduction
0900 - 0930	Tim Hughes CSL Limited	4.1 <i>Project Opus: Scope considerations for CSL's new biotech facility at Broadmeadows, VIC.: How to maximise the opportunity to build a state-of-the-art facility while minimising risks?</i>
0930 - 1000	Rayzman, V. CSL Limited	4.2 <i>Use of phage-display technologies in therapeutic mAb development</i>
1000 - 1030	van der Kamp, G.K. Merck Millipore	4.3 <i>Considerations for implementation of single-use technologies in bioprocessing</i>
1030 - 1100	Coffee Break	

Thursday 20th October 2011

- 1100 - **Goemans, M.**
1130 DSM Biologics 4.4 *Higher titre production*
- 1130 - **Payne, C.,** Vagg, M.,
Kayser, P., Tripathi, P.,
1200 Bagley, C.J. and
Billingham, S. 4.5 *Evaluation of the stability of rCHOK1SV
cells in the absence of selective pressure*
Hospira Adelaide
- 1200 - **Tripathi, P.,** Kayser,
P., Payne, C., Vagg, M.
1230 and Billingham, S. 4.6 *Evaluation of XCellerex XDR 50 and 200 L
disposable bioreactors for production of
model monoclonal antibody from rCHO cell
cultures*
Hospira Adelaide
- 1230 - **Fabri, L.J.,** Scotney,
P., Ramunno, M.,
1300 Young, A., Bradford, R.,
Xu, P., Taylor, S., and
Dower, S. 4.7 *High throughput purification technologies
used in recombinant protein production*
CSL Limited
- 1300 - **Murkerjee, S.**
13:30 Thermofisher Scientific 4.8 *Metabolic design pathway: A rational
approach to control cell function by
nutrient and process integration*
- 1330 - ***Presentation of Student Awards***
1340 ***Sponsored by: GE Healthcare***
- 1340 - ***Bioprocessing Network AGM***
1355
- 1355 - ***Lunch***
1500 ***Sponsored by: GE Healthcare***
- 1500 ***Conference close***

Posters

Sponsored by: **Life Technologies**

1	Gillard et al		<i>Engineered polymer nanoparticles for intracellular DNA delivery</i>
2	Munro et al		<i>High-throughput ClonePix™ FL analysis of mAb expressing clones using the UCOE system</i>
3	Song, M et al		<i>Engineering a better host cell through modulation of the unfolded protein response</i>
4	Ha & Bertolini		<i>Towards an efficient and productive R&D Laboratory: Lean Six Sigma and Electronic Laboratory Notebook</i>
5	Sutija et al		<i>Low volume highly sensitive immunoassays for detecting cytokines in animal fluids</i>
6	Liderfelt et al		<i>A complete single use manufacturing process of monoclonal antibodies: A case study</i>
7	Liderfelt et al		<i>Increased process productivity for influenza vaccine by disposable harvest processing</i>
8	He et al		<i>Optimisation and physicochemical characterisation of enzymatic hydrolysates of proteins from co-products of Atlantic salmon and Yellowtail kingfish</i>
9	Shi et al		<i>The high performance of imidazole-chitosan for gene therapy</i>
10	Cummings		<i>CHT™ Ceramic Hydroxyapatite: A Little Knowledge Yields Desired Productivity</i>
11	Orandi & Lewis		<i>Heavy Metal Removal with Indigenous Micro-algae Isolated from Mining Wastewater</i>
12	Su et al		<i>A comparative evaluation of lipid extracts analysis of dry algal biomass by different analytical methods</i>
13	He et al		<i>Nuvia S: A High Capacity Cation Exchanger for Process Purification of Monoclonal Antibodies</i>
14	Aberin et al		<i>Separation of Monoclonal Antibody Aggregates on Nuvia™ S Media, a Strong Cation Exchanger</i>