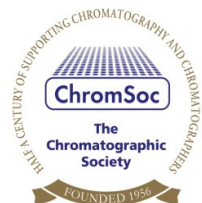


Chromatographic characterisation and purification techniques for BioPharm.

Focusing on monoclonal antibody derived drugs



GLAXOSMITHKLINE MEDICINES RESEARCH CENTRE

STEVENAGE HERTS UK

14 & 15 March 2012

Monoclonal antibodies are a very high growth segment in the biologically active molecules armoury of the Pharmaceutical industry. Annual sales are expected to exceed £35 Billion in the next four years. 23 full-size monoclonal antibodies and 3 monoclonal antibody fragments have been launched, with many reaching blockbuster status. An overview of the importance and value of large biomolecules to the pharmaceutical industry is evident from the data in the table below:

New emerging therapeutics compared with established small molecule drugs:

Rank	Product	Company	Technology	WW Sales (\$m)
1	Lipitor	Pfizer, Astellas & Almirall	Chiral chemistry	13,507
2	Plavix	BMS & Sanofi-Aventis	Small molecule chemistry	9,447
3	Advair	GlaxoSmithKline	Small molecule chemistry	7,828
4	Enbrel	Wyeth, Amgen & Takeda	Recombinant product	6,455
5	Diovan	Novartis & Ipsen	Small molecule chemistry	5,825
6	Rituxan	Roche	Monoclonal antibody	5,481
7	Remicade	SGP, J&J & Mitsubishi Tanabe	Monoclonal antibody	5,293
8	Nexium	AstraZeneca	Chiral chemistry	5,200
9	Epogen/Procrit	J&J, Amgen & Kirin	Recombinant product	5,162
10	Avastin	Roche	Monoclonal antibody	4,818

The characterisation and purification of these molecules is currently one of the biggest scientific and technical challenges facing the pharmaceutical industry.

This symposium will focus on solutions to these problems and discuss the unique issues presented by structurally complex, large molecular weight, biologically active molecules. An exhibition of tools necessary to address these problems will augment the lecture presentations.

Experts from within the pharmaceutical industry and from instrumentation and consumable suppliers will present their latest innovations.

The two day symposium will be held at the GSK R&D site at Stevenage and will facilitate delegate and exhibitor access to GSK's in-house scientists.

The afternoon of Day 2 will feature two specialist workshops run by expert analysts from within GSK and from companies with proven solutions to the many analytical and preparative challenges incurred in characterising complex biomolecules. The aim will be to inform you with as much freedom of discussion as possible to ensure your questions and problems are addressed professionally with state of the art knowledge.

In addition to chromatographic and electrophoretic separation science techniques our presenters will include mass spectrometry, NMR and structural methods to enable a more complete characterisation of these complex biomolecules.

In addition to the GSK scientists' lectures, presentations to note will be:

Analytical Development of Biopharmaceuticals and Assessment of Modification sites

Alistair D. Kippen
Director, Analytical Biochemistry, Medimmune, Cambridge



“A new approach for mAb aggregate detection – HIC with nonporous resin”

Judith Vajda, (Tosoh Bioscience)



“ High Resolution methods for speeding up Bio-Therapeutic protein analysis”

Ken Cook (THERMOFISHER DIONEX)



“Aeris: Core-Shell Technology for Proteins and Peptides”

James Rudge (PHENOMENEX)



“Advanced Analytical Workflows for Characterisation of Biological Entities – from intact mAbs to N-Glycans”

Ashley Sage (AGILENT)



"Improved Method Development Workflows for Ion Exchange and Size Exclusion Chromatography of Biotherapeutics"

Patrick Boyce (WATERS)



"Identification and characterisation of proteins"

Achim Treumann (NEPAF the North East Proteome Analysis Facility)



Possible title: “Envoy” a product for protein disaggregation

Heikki Lanckreit, Founder of Expedeon Protein Solutions Ltd, Cambridgeshire



Porous Graphitic Carbon vs Strong Cation Exchange: Which is best in a 2D proteomics workflow?

Joanna Freeke (ThermoFisher)



Back to the Future with improved Edman Sequencing

Dr Marcus Mreyen, Shimadzu, Europe



Quantitative analysis will also feature in the lectures as

Richard Kay QUOTIENT will give the following presentation:

“Challenges in quantifying monoclonal antibodies in biological matrices by LC-MS/MS.”

Our exhibitors and speakers have been drawn from companies and university departments who are experienced in the biomolecules area and represent separation science, structural characterisation and analytical methods. These will include specialists from mass spectrometry, NMR , particle size determination and stereo chemical and chiral fields.



In order to encourage social networking between delegates, presenters and exhibitors, a 10 pin bowling event with a buffet will be organised for the evening of March 14th at the Stevenage Hollywood bowl.



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Please note:

The Chromatographic Society website www.chromsoc.com will publish future updates of the symposium programme as it develops.

How to secure your place at the symposium:

Correspondence and bookings should be addressed to:

Meeting Makers Ltd, Crawford Building, 76 Southbrae Drive, Glasgow G13 1PP

Tel: 00 44 (0) 141 434 1500 Fax: 00 44 (0) 141 434 1519 <http://www.meetingmakers.co.uk>

Here is the electronic registration links for you to register as a sponsoring company and/or as a delegate:

Link for registering as sponsors/exhibitors :

https://www4.eventsinteractive.com/mm/getdemo.ei?id=170193&s=_3700LSN7V

Please use the link below to register as a delegate:

<https://www4.eventsinteractive.com/mm/getdemo.ei?id=170193&s= 2I00QVON3>

If you wish to register and do not wish to use the electronic links then please e-mail Matthew Gilmour at Meeting Makers matthew@meetingmakers.co.uk

Delegate admission prices:

Chromatographic Society members = £250

Members of the BMSS and Royal Society of Chemistry are admitted at members prices = £250

Non-members = £300

Students, unwaged and retired = £100

EXHIBITOR AND SPONSORSHIP OPPORTUNITIES AND ADMISSION CHARGES

GOLD LEVEL SPONSORSHIP £1750

Table top exhibition stand & 20 mins lecture time integrated into the programme

3 free delegate admission places

SILVER LEVEL SPONSORSHIP £1250

Table top exhibition stand & 10 mins lecture time integrated into the programme

2 free delegate admission places

BRONZE LEVEL SPONSORSHIP £750

Table top exhibition stand and 1 free delegate admission place

NOTE: VAT at 20% is additionally charged on all prices