

# What happens after biobanking?

Wednesday, 19 February 2014

Cineworld: The O2, London, SE10 0DX, UK

[www.regonline.co.uk/banksample2014](http://www.regonline.co.uk/banksample2014)

Apart from sample collection, biobanks have to commit to sample processing, purification, long-term storage and analysis. This event will discuss issues occurring after samples have been collected and stored, including sample processing, long term storage, ethics, cost and collaborations. This meeting will be an ideal opportunity to hear from the experts, to network and discuss biobanking sample processing strategy, has **CPD accreditation** and is part of **BioBanking 2014** - [www.biobanking2014.com](http://www.biobanking2014.com)

Talk times include 5 – 10 minutes for questions

9:15 – 10:00

**Registration**

10:00 – 10:15

**Introduction by the Chair:** *Dr. Lyn Healy*, NIBSC, UK Stem Cell Bank

10:15 – 10:50

**The UK Stem cell bank....10 years on**

*Dr. Lyn Healy*, NIBSC, UK Stem Cell Bank

The UK Stem Cell Bank (UKSCB) was established in 2003 to provide a 'repository of human embryonic, foetal and adult stem cell lines, as part of the UK governance for the use of human embryos for research'. The UKSCB delivers ethically sourced well characterised human stem cells for use in the stem cell community. The Bank is currently in the process of acquiring cells to prepare stocks of cell lines which are European Union Tissues and Cells Directive compliant for 'use as starting materials for the development cellular therapies'. This talk will look at the evolution and changes in the Bank and it's practices over the past ten years and examine issues that have arisen and how they have been dealt with in the context of the highly dynamic field of regenerative medicine and associated disciplines.

10:50 – 11:25

**Networks and more networks: standards and more standards**

*Dr Martin Yuille*, co-Director Centre for Integrated Genomic Medical Research / Hon Principal Scientist, University of Manchester / Salford Royal FT, UK

Government now recognises that the development and adoption of stratified medicine requires biobanking. This has to be delivered as a network and constructed as quickly as possible. However a biobanking network implies and requires a range of other networks for quality, for data, for access and for funding. As for any network, it can only function if there are standards and adherence to standards.

11:25 - 12:00

**Coffee break and exhibition**

12:00 - 12:35

**The DISCUSS Project: Induced Pluripotent Stem Cell Lines from Previously Collected Research Biospecimens and Informed Consent**

*Mrs Rosario Isasi*, Research Associate, Centre of Genomics and Policy, McGill University, Canada

Stem cell banks to date have focused predominantly on obtaining prospective consent from contemporaneous cell/tissue donors, culminating in the drafting of harmonized protocols covering a broad range of foreseeable scientific, therapeutic, and commercial applications. However, there are also large stocks of previously collected specimens of scientific value, and questions have emerged regarding consent for the utilization of these existing specimens for stem cell derivation. The "DISCUSS Project: Deriving Induced Stem Cells Using Stored Specimens" - a partnership between

the USA's National Institutes of Health, the California Institute for Regenerative Medicine and the International Stem Cell Forum - was established to address these concerns. This presentation will focus on the "Points to Consider" developed under the DISCUSS Project. It will address how somatic cells obtained under general (biomedical) research protocols can be used for stem cell derivation and research.

**12:35 – 13:30 Lunch, poster exhibition and trade show**

*Please try to visit all the exhibition stands during your day at this event. Not only do our sponsors enable Euroscicon to keep the registration fees competitive, but they are also here specifically to talk to you*

**13:30 – 14:30 Discussion session**

This discussion session is an informal question and answer session. This is an ideal opportunity to get advice and opinion from experts in this area. This session is not for questions about specific talks, which can be asked after the speakers session, but for discussing either general topics or specific issues. There are three ways you can ask questions:

1. Before the session you can *submit your question to Euroscicon staff* at the registration desk,
2. Before and during the session you can *submit a question or comments, by email*, which will be provided on the day of the event
3. During the session you can *put your hand up* and join in

**14:30 – 15:00 Afternoon Tea, last poster session and trade show**

**15:00 – 15:35 Past, present and future value of a regional placenta biobank**

*Dr Maria Fannin, University of Bristol, UK*

This talk presents findings from social science research on a regional placenta biobank held by an ongoing longitudinal study of children's health. The research draws on interviews with the creators and curators of the placenta biobank and with mothers involved in the study. We consider the changing value of the placenta collection over time for both researchers and study participants and highlight its identification as a future research resource.

**15:35 – 16:10 Post bio-banking troubles due to pre-biobanking bad practice**

*Dr Shapour Jalilzadeh, Wellcome Trust Centre for Human Genetics, Oxford, UK*

This talk will discuss:

- 1- Involvement of a professional Biobanker- Methodologist from A-Z of project -from Proposal writing, sample collection, transport and sample storage to samples processing and data generation
- 2- Continuous updating of system and knowledge
- 3- Choosing appropriate consumables, equipment or system for short, mid and long term plans(wide spectrum coverage-will be discussed in detail alongside with solution and suggestions)
- 4- Possibility of universalizing methodology for sample processing that could cover variation in quality and volume of samples (e.g. from whole blood to fully clotted blood - will be discussed in detail alongside with solutions)
- 5- Protocols modification of Kits and adjusting them with the needs and necessity
- 6- Flexibility, All biobankers must always consider some degree of flexibilities( time, Budget, resources...) due to changing circumstances such as changing priorities, importance and urgency, currency fluctuations, cost increase...

**16:10 - 16:30 Chairman's Summing Up and Close of Meeting**

**Registration Website:** [www.regonline.co.uk/banksample2014](http://www.regonline.co.uk/banksample2014)

**A meeting report from this event will be published by *The Biomedical Scientist***

Keywords: public good; health; innovation, blood, Stem cells, Cord, biobank, DNA, biomarkers, cells, B cell, cell lines, tissue, cord blood, tissue, Biodiversity, taxonomy, biorepository, umbilical cord; cord blood; mesenchymal; biobanking; cell therapy, Biobanking, genetics, feedback, consent, anonymity, cardiovascular magnetic resonance, population based cohort studies, surrogate endpoint, Cryopreservation, freezing, storage, biobank, automation, liquid handling, storage, placenta, social history, biobank, value, complications pregnancy international resource, biobanking, stem cells, ethics, policy, Stratified Medicine; quality management systems; market failure

### **About the Speakers**

**Martin Yuille:** After undertaking research investigations in molecular biology and genetics in model systems and humans, Martin's career is now focussed on research infrastructure. He directed the construction and development of the MRC's UK DNA Banking Network in Cambridge and Manchester and acted as Associate Coordinator for the preparatory phase of the development of a European biobanking network. He has been working with industry for the development of a UK biobanking network. He is also working with industry on European infrastructure for fit-for-purpose research education and lifelong training.

**Rosario Isasi** is currently a Research Associate at the Centre of Genomics and Policy, Faculty of Medicine, Dept. of Human Genetics at McGill University. Mrs. Isasi is the Academic Secretary of the International Stem Cell Forum Ethics Working Party and leads the Governance Working Group of the International Stem Cell Baking Initiative. Rosairo has built an international reputation as a scholar with particular expertise in the area of comparative law and ethics regarding regenerative medicine and stem cell research. Closely related to her academic work is her role as a policy adviser to government, professional and international bodies, such as the United Nations.

**Maria Fannin** is Senior Lecturer in Human Geography at the University of Bristol. Her previous research includes a comparative study of midwifery and obstetric care provision in North America and Canada. Her current research focuses on the use of human tissue in bioscience research, and she has recently completed a Wellcome Trust-funded study on the social history of a regional placenta biobank.

## **POSTER PRESENTATION**

### **UNDERSTANDING SOCIETY**

Hema Avula, Mareva Meitai

Different factors can influence our health and contribute to how long and how well we live, such as the individual's health related behaviour. One of the most important factors is the social and economic environment in which we live. Here, at FBS we had collaboration with one of our partners on the collection of biological data that involved approximately 14000 participants sample each participant donating 5 blood tubes for Phase 1 and collection of saliva and blood spots for phase 2 from all over the United Kingdom. Understanding Society has been designed to provide research findings that can be used to produce top quality research, which informs, influences and checks the success of social, economic and health policy and practice in the UK and abroad. The project involved the receipt and processing of samples, aliquoting, DNA extraction and long term storage of the precious samples at

Fisher Bio Services. The extracted DNA has been used for genotyping and serum and plasma samples for discovery of new biomarkers. The entire project was managed on Nautilus LIMS.

### **Frequently asked questions about our events**

#### ***Is the delegate list available?***

Yes this is available to everyone who attends the event and our sponsors. It is available in real time. To access the list please just log into your registration details or use the QR code on right of the agenda card which is provided on the day of the event. You will not be included in this list if you have opted out and you can do this by logging into your registration details. This list will not be sold or ever give out to third parties.

#### ***Can I have the speakers slides?***

We cannot give out the slides from our speaker's presentations as they are deleted immediately after each event. If you require a particular set of slides please approach the speaker. We will however have a meeting report and you will be emailed when this report is published.

#### ***Can I have a notepad?***

Notepads and pens are provided in the delegate bags and at the registration desk

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Please leave your name with registration before the end of lunch a certificate will be created for you and available in the afternoon

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