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Cambridge Healthtech Institute's Fifth Annual

Genomic Sample Preparation

May 20-21, 2008 • Hilton Boston Logan Airport • Boston, MA

DISTINGUISHED PRESENTERS:

- Mark Connelly, Ph.D., Immunicon
- Steven Dodsworth, Ph.D., Tepnel Life Sciences PLC
- Tom Gilbert, Ph.D., University of Copenhagen
- Ulf Gurok, Ph.D., Abbott
- Bernhard Kaltenboeck, DMV, Auburn University
- Kevin Krenitsky, M.D., BioServe
- Helen M. Moore, Ph.D., Office of the Director, National Cancer Institute
- Henry Rodriguez, Ph.D., MBA, National Cancer Institute
- Bruce Seligmann, Ph.D., HTG, Inc.
- Austin Tanney, Ph.D., Almac
- Mingjie Zhou, Ph.D., Merck & Co., Inc.
- Huimin Kong, Ph.D., Biohelix Inc.
- Lynn Bernd-Weis, Carleton University, Environmental Health Centre

TOPICS:

- SNP Genotyping: Cost vs. Quality
- Isolation of DNA / RNA from PPF Tissues
- LCM and Microarray Analysis of Neural Progenitor Cells
- DSA Research Optimized for FFPE
- Whole Genome Amplification
- Biospecimen Research Networks
- Amplification
- Cost vs. Quality

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TUESDAY, MAY 20

1:00 Registration

ISOLATION

1:55 Chairperson's Opening Remarks

2:00 National Cancer Institute's Biospecimen Research Network

Helen M. Moore, Ph.D., Biospecimen Research Network Program Manager, Office of Biorepositories and Biospecimen Research, Office of the Director National Cancer Institute

2:30 Isolation of DNA and RNA from PPFE Tissues

Tom Gilbert, Ph.D., Associate Professor, Lektor, Department of Biology, University of Copenhagen

A diverse number of protocols have been published with regards to the recovery of nucleic acids from fixed tissues. However, in light of the wide range of downstream genetic applications that may be subsequently be applied to the extracts, a cross comparison of the methods' suitability is desirable. In this talk I summarize recent findings as to how to optimize the quality of nucleic acids from such materials.

3:00 Using a Globally Collected Repository of Human DNA Samples With Highly Annotated Data to Create Data Dense Case Control Studies on a Plate

Kevin Krenitsky, M.D., CEO, BioServe

The application of richly annotated DNA samples has the potential to be a revolutionary force for how case-control studies are conducted. Matched DNA case-control studies in ready made 96 and 360 well plate formats, across a wide range of diseases, presents a powerful new approach for researchers to efficiently validate case-control studies that lead to better diagnostic and therapeutic targets.

3:30 Networking Refreshment Break, Poster and Exhibit Viewing



AMPLIFICATION

4:15 Molecular Profiling of Circulating Tumor Cells

Mark Connelly, Ph.D., Vice President, Department of Reagent Development, Immunicon

New data and developments on:

- FDA approvals of CTC analysis in new cancer
- FISH analysis on isolating CTCs, looking for gene amplifications, Chromosome counts and rearrangements

4:45 Solution Showcase (Sponsorship Available)

5:00 Amplification of Microarray Hybridization Targets with a Fully Automated System

Mingjie Zhou, Ph.D., R&D Group, Rosetta Inpharmatics LLC, a wholly owned subsidiary Merck & Co. Inc.

5:30 RNA Next Generation Isothermal RNA and DNA Amplification Technologies

Huimin Kong, Ph.D., President & CEO, Biohelix Inc.

Two isothermal platforms are being presented:

- RT-HDA for RNA amplification
- a novel, primase-based whole genome amplification system which is useful for sample-prep and CGH

6:00 End of Day One

WEDNESDAY, MAY 21

7:30 am Morning Coffee or Breakfast Workshop (Sponsorship Available)

Keynote Presentations

8:30 Chairperson's Opening Remarks

8:40 Tackling the Challenges of Proteomics

Henry Rodriguez, Ph.D., MBA, Director, Clinical Proteomic Technologies for Cancer, Office of Technology and Industrial Relations, Office of the Director, National Cancer Institute

Proteomics have revolutionized cell biology and biochemistry by providing powerful new tools to characterize complex proteomes, multiprotein complexes and posttranslational modifications. Although proteomics technologies could address important problems in clinical and translational cancer research, attempts to use proteomics approaches to discover cancer biomarkers in biofluids and tissues have been largely unsuccessful and have engendered considerable skepticism. The National Cancer Institute has taken a leading role in facilitating the translation of proteomics from research to clinical application, through its Clinical Proteomic Technologies for Cancer initiative (CPTC) (<http://proteomics.cancer.gov>). The goal of the CPTC is to accelerate discovery and clinical research in cancer using an integrated approach that assesses and optimizes proteomic technology measurement capabilities and develops universally accepted metrics that identify and minimize experimental variability from run to run, instrument to instrument, and lab to lab. This program will enable the transition of proteomics technologies from basic research tools to reliable and robust clinical research platforms.

9:20 Pharmacogenetic Testing in the Clinical Practice

10:00 Coffee Break, Exhibit and Poster Viewing

10:45 Cost vs Quality: Opposing Forces in SNP Genotyping?

Steven Dodsworth, Ph.D., Director of Molecular Genetics, Genotyping, Tepnel Life Sciences PLC

Demands for higher throughput and lower costs are characteristic of the developing SNP genotyping market. Stringent procedures to support the generation of high quality data are essential but may reduce efficiency of the genotyping process unless carefully planned. Strategies for designing highly efficient quality based processes are discussed and illustrated.

11:15 Role of microRNAs in Colorectal Cancer

Jingfang Ju, Ph.D., Head, Cancer Genomics Laboratory; Assistant Professor of Pharmacology and Medicine University South Alabama -Mitchell Cancer Institute

Translational control mediated by non-coding miRNAs plays a key role in tumorigenesis. To realize the potential of using miRNAs as potential prognosis biomarker, the expression and stability of miRNAs in FFPE samples were systematically investigated. Our results show that miRNAs are relative stable in FFPE samples compared to mRNA transcripts and they can be used for biomarker discovery. We discovered a number of miRNAs was de-regulated due to the loss of tumor suppressor gene p53 in colorectal cancer. Some of them are associated with chemoresponse or patient's survival. We also identified important chemotherapeutic targets that are regulated by our candidate miRNAs.

11:45 Solution Showcase (Sponsorship Available)

12:15 pm Luncheon in Exhibit Hall, sponsored by

1:30 Maximizing Target Recovery for Nucleic Acid Detection in Clinical Specimens

Bernhard Kaltenboeck, DMV, Professor, Director, Molecular Diagnostics Laboratory, Pathobiology, Auburn University

The sensitivity of many assays for detection of low numbers of pathogenic

agents in chronic diseases has remained unsatisfactory, despite nucleic acid amplification techniques that consistently detect single target copies. A main reason for this failure is the lack of robust extraction methods that efficiently recover rare copies of the target nucleic acids from large sample volumes and concentrate these targets into small assay input volumes. This presentation will describe approaches for highly effective preservation, extraction, recovery, and concentration of low-copy nucleic acid targets. A streamlined combination of these methods increases detection sensitivity by up to 100-fold as compared to standard methodology.

2:00 Precise and Sensitive mRNA and miRNA Measurement from Archived FFPE Without Extraction using Lysis-only qNPA™: Application as a Prognostic Clinical Assay for Diffuse Large B-Cell Lymphoma

Bruce Seligmann, Ph.D., Chairman & CSO, HTG, Inc.

Measurement of mRNA and miRNA without the use of extraction or gene amplification is possible using the quantitative Nuclease Protection Assay (qNPA™), which delivers the precision to detect changes less than 20% (<1.2-fold) on a multiplexed array platform. qNPA measures the total mRNA and miRNA in fixed tissue (FFPE), both cross-linked and soluble RNA, without the need to reverse cross-linking, and thus is insensitive to variability in the fixation step or length of storage after fixation. Data presented will include the retrospective validation of an assay that predicts survival following treatment with chemotherapy plus the anti-CD20 antibody Rituximab (CHOP-R) using clinical samples stored for an average of over 15 years.

2:30 Refreshment Break

OPTIMIZATION FOR MICROARRAY APPLICATIONS

3:00 Cancer DSA™ – Disease Focused Microarrays Optimized for Use with FFPE Tissue

Austin Tanney, Ph.D., DSA Programme Manager, Diagnostics, Almac

To a backdrop of increasing evidence of the complexity of the human transcriptome, this presentation covers the rationale and development of a range of custom gene expression microarrays designed to better reflect the complexity a variety of human

disease transcriptomes. The work presented highlights the complexity of the tran-

scriptome of disease such as breast, lung and colorectal cancer and demonstrates the discovery of unique/novel transcripts, including extensive, previously undiscovered, endogenous antisense; that could play functionally important roles in the underlying biology of these diseases.

Examples will be shown of the use of these tools in the development of prognostic/ diagnostic signatures from formalin fixed and paraffin embedded samples.

3:30 Laser Capture Microdissection and Microarray Analysis of Rat Neural Progenitor Cells

Ulf Gurok, Ph.D., Technical Leader, Abbott

Molecular changes during disease are specific to different cell types. These changes are difficult to detect in tissues with multiple cell types. A new protocol enabled the identification of neural progenitor cells in the rat brain with a rapid immunohistochemical staining procedure. This protocol employs RNA-preserving conditions and allows the preparation of RNA from the cells after isolation by laser capture microdissection. Such RNA was used for microarray analyses to reveal molecular changes associated with an induction of cell proliferation

4:00 QA for DNA Microarrays

Lynn Bernd-Weis, Biologist, Carleton University, Environmental Health Centre

4:30 Panel Discussion: Influence of Sample Collection Parameters on Functional Assays

5:00 End of Summit



Media Partners:

Summit – At – A – Glance

Sponsorship & Exhibit

Sponsorship Information

Custom designed sponsorship programs enable you to competitively position your company as a leader in the industry, while collecting quality leads. Sponsored presentations allow your company to educate leading scientific and executive decision-makers on your latest technology or solution.

Sponsorships Include:

Embedded Agenda Presentation – Speak to a captive audience! This Sponsorship includes a podium presentation given during the scientific agenda, onsite branding, cooperative marketing efforts, and more.

Breakfast or Luncheon Workshop - These workshops include presentation time with a Q&A session over breakfast or lunch. CHI will provide the room and AV and will promote workshop attendance onsite.

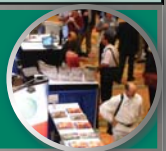
CHI can also work with you to customize an Invitation-Only VIP Dinner, or Networking Reception. Please call for details.

Exhibitor Information

WHY EXHIBIT?

- Demonstrate your expertise to top decision-makers representing biotech, academic research institutions, national labs, and clinical research organizations.
- Dedicated time from the conference program for delegates to view posters and exhibits.
- Market your technology/products/services to all delegates.
- Identify new business leads.
- Perfect platform to introduce a new product.
- The Exhibit Hall is strategically located near the session rooms to allow delegates to easily view your demonstration and meet you face-to-face.

For sponsorship and exhibit details, contact Suzanne Carroll at 781-972-5452 or scarroll@healthtech.com



	Microarrays in Medicine	Proteomic Sample Preparation	
Monday, May 19	7:00 am – 6:00 pm Registration Open		
	8:10 – 9:40 Keynote Presentations		
	9:40 – 10:25 Grand Opening Coffee Break in Exhibit Hall		
	10:25 – 12:00	Data Analysis	Optimization
	12:00 – 1:25 Luncheon Technology Workshops (Sponsorship Available)		
	1:25 – 3:00	Models to Predict Responses	Biomarkers
	3:00 – 3:45 Networking Refreshment Break		
	3:45 – 5:15	Stability and Standardization	Protein Analysis
	5:15 – 6:30 Reception in Exhibit Hall		
Tuesday, May 20	7:45 am – 6:00 pm Registration Open		
	8:30 – 10:15	Applied Microarrays	Morning Session
	10:15 – 11:00 Networking Coffee Break		
	11:00 – 12:35	Data Analysis	Tissue Proteomics
	12:35 End of Conferences		
	1 pm – 1:55 pm Registration Open		
	1:55 – 3:30	Isolation	Protein Microarrays
	3:30 – 4:15 Networking Refreshment Break		
	4:15 – 6:00	Amplification	Proteomics as a Tool
	6:00 End of Conference Day		
Wednesday, May 21	7:30 am Morning Coffee		
	8:30 – 10:00 Keynote Presentations		
	10:00 – 10:45 Coffee Break in Exhibit Hall		
	10:45 – 12:10	Morning Session	Morning Session
	12:15 – 1:30 Luncheon in Exhibit Hall, sponsored by CHI		
	1:30 – 2:30		Biomarkers in Diagnostics
	2:30-3:00 Networking Refreshment Break		
	3:00 – 5:00	Optimization for Microarrays	Protein Analysis

Hotel & Travel

Conference Venue:

Hilton Boston Logan Airport
 One Hotel Drive
 Boston, MA 02128
 Tel: 617-568-6700
 Fax: 617-568-6800
 Discounted Room Rate: \$209 s/d
 Reduced Room Rate Cut-off Date: April 21, 2008

To make hotel reservations:

To book your room online please visit our website and click on the hotel and travel page or you may call the hotel directly to make your room reservation. Identify yourself as a Cambridge Healthtech Institute conference attendee to receive the reduced room rate. Reservations made after the cut-off date or after the group room block has been filled (whichever comes first) will be accepted on a space-and-rate-availability basis. Rooms are limited, so please book early.



Flight Discounts:

To receive a 5% discount on American Airlines, American Eagle and American Connections call and make your flight reservations at 1-800-433-1790. Please refer to the authorization number AN# A2418SS.

Car Rental Discounts:

Special discount rentals have been established with AVIS for this conference. You can book your rental online by visiting our website hotel and travel page or by calling AVIS directly at 800-331-1600 and referencing our Avis Worldwide Discount (AWD) Number J868190.

Weekly Update

The latest industry news, commentary and highlights from Bio•IT World

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Cambridge Healthtech Institute's Eighth Annual

Genomic Sample Preparation

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REGISTRATION INFORMATION

Mr. Ms. Mrs. Dr. Prof.
Name

REGISTER 3 — 4th IS FREE Individuals must register for the same conference or conference combination and submit completed registration forms together for discount to apply. Please reproduce this registration form as needed

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Country

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Would you like to receive event updates via fax? Yes No Fax

Email*

*Email is not a mandatory field. However, by excluding your email you will not receive notification about online access to pre-conference presenter materials, conference updates, networking opportunities and requested eNewsletters.

PRICING INFORMATION:

PREMIUM Attend the *ENTIRE* GOT Summit (May 19-21)

	Commercial		Academic, Government, Hospital-Affiliated
Advanced Registration until April 11, 2008	<input type="checkbox"/> \$1745		<input type="checkbox"/> \$875
Registration after April 11, 2008 and Onsite	<input type="checkbox"/> \$1995		<input type="checkbox"/> \$995

Please select the conference combination you will most likely attend:

- Microarrays in Medicine AND Genomic Sample Preparation
- Microarrays in Medicine AND Proteomic Tools for Diagnostics
- Proteomic Sample Preparation AND Genomic Sample Preparation
- Proteomic Sample Preparation AND Proteomic Tools for Diagnostics

STANDARD Attend one conference ONLY

	Commercial	Academic, Government, Hospital-Affiliated
Advanced Registration until April 11, 2008	<input type="checkbox"/> \$1245	<input type="checkbox"/> \$645
Registration after April 11, 2008 and Onsite	<input type="checkbox"/> \$1495	<input type="checkbox"/> \$745

Please select the single conference you will attend:

- Microarrays in Medicine (May 19-20)
- Proteomic Sample Preparation (May 19-20)
- Genomic Sample Preparation (May 20-21)
- Proteomic Tools for Diagnostics (May 20-21)

Poster Discount \$50 Off \$50 Off

- I cannot attend but would like to purchase the entire GOT Summit CD for \$750 (plus shipping). Massachusetts delivery will include 5% sales tax.
- Please send information on exhibiting and opportunities to present workshops.

PAYMENT INFORMATION:

- Enclosed is a check or money order payable to Cambridge Healthtech Institute, drawn on a U.S. bank, in U.S. currency.
 - Invoice me, but reserve my space with credit card information listed below.
- Invoices unpaid two weeks prior to conference will be billed to credit card at full registration rate. Invoices must be paid in full and checks received by the deadline date to retain registration discount. If you plan to register on site, please check with CHI beforehand for space availability.

Please charge: AMEX (15 digits) Visa (13-16 digits) MasterCard (16 digits) Diners Club (14 digits)

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Present a Poster and Save \$50!

Cambridge Healthtech Institute encourages attendees to gain further exposure by presenting their work in the poster sessions.

To secure a poster board and inclusion in the conference CD, your abstract must be submitted, accepted and registration paid in full by April 28, 2008. Register online to use the Poster Abstract Submission form or, if you register by phone, fax, or mail, you will receive Poster Abstract Submission guidelines via email.

I am interested in presenting a poster at **Genomic Sample Preparation** and will submit a completed one-page abstract by April 28, 2008 (Please Note: Registration must be paid in full to present poster.)

Title _____

CHI Insight Pharma Reports

A series of reports that evaluate the salient trends in pharmaceutical technology, business, and therapy markets. Keep abreast of the latest advances in pharmaceutical R&D, their potential applications and business impacts, and their current and future position in the marketplace. For a list of reports, visit InsightPharmaReports.com, or contact Rose LaRaia, rlaraia@healthtech.com, 781-972-5444

Additional Registration Details

Each registration includes all conference sessions, posters and exhibits, food functions, and a copy of the conference CD.

Group Discounts

Special rates are available for multiple attendees from the same organization. Contact David Cunningham at 781-972-5472 to discuss your options and take advantage of the savings.



Handicapped Equal Access

In accordance with the ADA, Cambridge Healthtech Institute is pleased to arrange special accommodations for attendees with special needs. All requests for such assistance must be submitted in writing to CHI at least 30 days prior to the start of the meeting.

Substitution/Cancellation Policy

In the event that you need to cancel a registration, you may: Transfer your registration to a colleague within your organization, credit your registration to another Cambridge Healthtech Institute program, request a refund minus a \$100 processing fee per conference.

Request a refund minus the cost (\$750) of ordering a copy of the CD

NOTE: Cancellations will only be accepted up to two weeks prior to the conference.

Program and speakers are subject to change.

Video and or audio recording of any kind is prohibited onsite at all CHI events.

 Cambridge Healthtech Institute

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