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Keynote Presentations

Consumers in the Lab and the Clinic: My Daughter's DNA...and Every Little Thing About Her



Hugh Young Rienhoff, Jr., M.D., Director, MyDaughtersDNA.org

Consumer Genomics: From Niche to Mainstream



Spencer Wells, Ph.D., Explorer-in-Residence and Director, The Genographic Project, National Geographic Society



5th Annual

CONSUMER GENETICS CONFERENCE

September 25-27, 2013

Seaport World Trade Center | Boston, MA

Empowering Patients and Consumers with Advances in Genomics, Diagnostics and Personalized Healthcare

Program Topics:

- Whole Genome Debates
- Translational Genomics
- Clinical & Third-Generation Sequencing
- Personal Genome Analysis & Interpretation
- Empowering Patients: Companies & Technologies
- Molecular Diagnostics & Point-of-Care
- Investment & Funding Opportunities
- Reimbursement Models
- Five-Year Plan for Consumer Genomics
- Data Analysis & Management
- Ethics, Privacy & Regulation
- Digital Health Tracking Apps

The Consumer Genetics Conference (CGC) is a one-of-a-kind event that draws together a dynamic community of scientists, clinicians, technology innovators, and patients to discuss the burning issues around the analysis and delivery of genomics results as presented directly to patients and consumers.

Over three days, attendees will hear about disruptive diagnostic technologies, cognitive barriers to patients (and medical professionals), ethical/regulatory/privacy issues, the thorny issue of reimbursement, and the challenges of building relationships to realize the potential of personal genomics and individualized medicine. CGC provides an opportunity for all stakeholders to come together at one venue, share viewpoints and engage in an honest dialogue, and together learn how to move the elephant of change.

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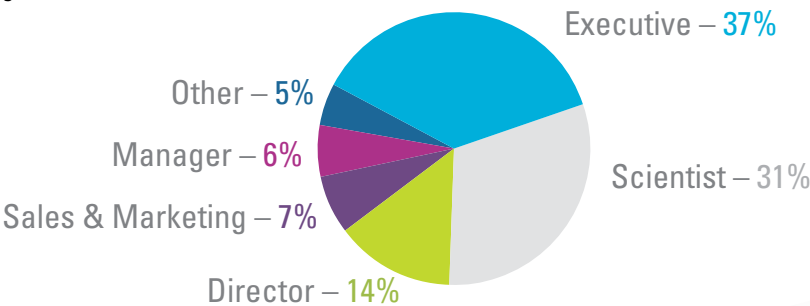
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Event History

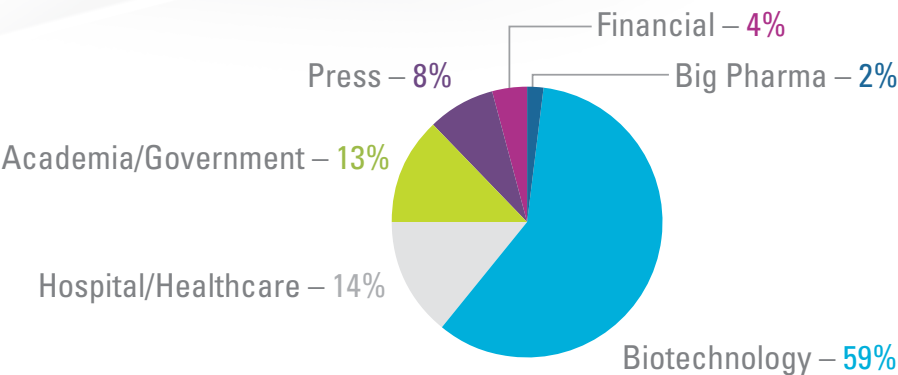
Since its debut in 2009, the annual Consumer Genetics Conference (CGC) has established itself as the original, unbiased event for advancing personal genomics to empower individualized healthcare. The program features business, academic, medical, and technology thought leaders presenting the latest research and case studies on the progress of an individual's ability to investigate their own DNA sequence, whether for health, genealogy or just plain curiosity, and the broader ecosystem behind advances in DNA sequencing, diagnostics, and forms of personalized healthcare. CGC provides a unique outlet where all voices can be heard: pro & con, physician & consumer, research & clinical, academic & corporate, financial & regulatory.

Attendee Titles



Who Attends

The Consumer Genetics Conference brings together over 500 thought leaders and stakeholders involved in the ecosystem of delivering high-value genetics and genomics results directly to patients and consumers. Stakeholders include: academic research labs and medical centers, sequencing technology companies, information technology service providers, clinical/hospital laboratories, regulators, investors, lawyers, genetic counselors, health care practitioners, patient advocacy groups, and the press.



Organization Type

For questions or suggestions about the meeting, please contact:

Cindy Crowninshield, RD, LDN, Conference Director
781-354-0120 | cindy@consumer-genetics-conference.com

For sponsorship and exhibit sales, information including podium presentations, contact:

Jay Mulhern, Manager, Business Development, Conferences & Media
781-972-1359 | jay@consumer-genetics-conference.com

"Concise and well run meeting on a field that is (finally) about to take off."
CEO, CBT Advisors

"Excellent conference – a must for next-generation sequencing pioneers."
Fellow, Pediatric Genetics, Children's Hospital Boston

Sponsorship, Exhibit, and Lead Generation Opportunities

Comprehensive sponsorship packages are available for your company to promote its products and/or solutions directly to organizations empowering patients and consumers with advances in genomics, diagnostics and personalized healthcare. Customizable sponsorship packages allow you to achieve your objectives before, during, and long after the event. Signing on earlier will allow you to maximize exposure to hard-to-reach decision makers!

Agenda Presentations

Showcase your solutions to a guaranteed, highly-targeted audience. Package includes a 15 or 30-minute podium presentation within the scientific agenda, exhibit space, on-site branding and access to cooperative marketing efforts.

Breakfast & Luncheon Presentations

Opportunities include a 30-minute podium presentation. Boxed lunches are delivered into the main session room, which guarantees audience attendance and participation. A limited number of presentations are available for sponsorship and they will sell out quickly. Sign on to secure your talk!

Invitation-Only VIP Dinner/Hospitality Suite

Sponsors will select their top prospects from the conference pre-registration list for an evening of networking at the hotel or at a choice local venue. We will extend invitations and deliver prospects. Evening will be customized according to sponsor's objectives (i.e. purely social, focus group, reception style or plated dinner, plated dinner with specific conversation focus).

Exhibit Information

Exhibitors will enjoy facilitated networking opportunities with qualified decision-makers at the Consumer Genetics Conference, making it the perfect platform to launch a new product, collect feedback and generate new leads. Exhibit space sells out quickly, so reserve yours today!

Additional promotional opportunities are available including:

Conference tote bags	Keynote chair drop of company literature
Badge lanyards	Session room chair drop of company literature
Tote bag inserts of company literature	Program guide sponsor
Padfolios	Poster abstract book sponsor

Looking for additional ways to drive leads to your sales team? We can help through:

Custom Lead Generation Programs:

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- Experienced marketing team promotes campaign, increasing awareness and leads

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- Assistance in procuring speakers
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We also offer market surveys, podcasts, and more!

For sponsorship & exhibit information, please contact:

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"Very informative meeting with good exposure of new technologies in the field."
CSO, ChemGenes Corp.

"On the frontier, forging the future together."
Professor, Virginia Tech

Conference-at-a-Glance

Tuesday Sept 24 1:30-4:30 pm	Pre-Conference Short Courses* Data Analysis/Management Clinical Translation of Genetic Advances Genomics 101
Tuesday Sept 24 5:00–8:00 pm (Dinner)	Dinner Short Courses*: NGS for Clinical Testing Management of Billing & Reimbursement for Molecular-Based Tests
Wednesday Sept 25	Opening Plenary Keynote Science/Research Updates on Genomics/Sequencing from Academic Medical Centers Science/Research Updates on Genomics/Sequencing from the Clinic The Funding Debate: What Insurers/Payers are Willing to Pay vs What Investors are Willing to Fund Welcome Reception with Exhibit and Poster Viewing Networking Party
Thursday Sept 26	Technology Company/Provider Spotlight: Current Trends and Visions Communicating Genetics and Science to Everyone Consumer Testing – Points and Counterpoints Impact of Patent Law on the Future of Genetic Testing Networking Party
Friday Sept 27	Digital Consumer Healthcare: Health Tracking Applications, Demos & Case Studies Consumer Landscape: Current Opportunities and the Big Picture Closing Plenary Keynote

Pre-Conference Short Courses* Tuesday, September 24, 2013

Join your colleagues for more in-depth, focused learning at an informational and interactive Short Course. Choose one of the Short Courses below for three hours of instruction and discussion in a small group setting. Get your questions answered, network with colleagues, and share ideas. See website for further details.

Afternoon Courses | 1:30 – 4:30 pm

Short Course 1: Data Analysis/Management

Caleb J Kennedy, Ph.D., Lead Scientist, Good Start Genetics, Inc.
 Vasisht Tadigotla, Ph.D., Bioinformatics Scientist, Courtagen Life Sciences, Inc.

Short Course 2: Clinical Translation of Genetic Advances

Elicia Estrella, MS, CGC, LGC, Genetic Counselor and Study Coordinator, Program in Genomics/Harvard Neuromuscular Disease Project, Children's Hospital, Boston
 Amanda Gammon, MS, CGC, Licensed Genetic Counselor, Huntsman Cancer Institute, University of Utah
 Wendy Kohlmann, MS, CGC, Licensed Genetic Counselor, Huntsman Cancer Institute, University of Utah
 Ellen T. Matloff, MS, Research Scientist, Department of Genetics and Director, Cancer Genetic Counseling, Yale Cancer Center
 Erica Ramos, MS, CGC, Clinical Genomics Specialist, Illumina, Inc.
 Tricia See, ScM, CGC, Genetic Counselor, Informed Medical Decisions

Short Course 3: Genomics 101

Shawn C. Baker, Ph.D., CSO, BlueSEQ
 Additional Instructors to be Announced

Dinner Courses | 5:00 – 8:00 pm

Short Course 4: NGS for Clinical Testing

Nazneen Aziz, Ph.D., Director, Molecular Medicine, Transformation Program Office, College of American Pathologists
 Birgit Funke, Ph.D., FACMG, Assistant Molecular Pathologist and Director, Clinical Research and Development, Laboratory for Molecular Medicine, Massachusetts General Hospital; Assistant Professor in Pathology, Harvard Medical School

Short Course 6: Management of Billing & Reimbursement for Molecular-Based Tests

Bonnie Ancone, Vice President, Molecular Diagnostics, XIFIN, Inc.
 Rina Wolf, Vice President, Commercialization Strategies, XIFIN, Inc.
 Kyle Fetter, Associate Vice President, Molecular Diagnostics, XIFIN, Inc.

*Separate registration is required

Main Conference

Day 1: Wednesday, September 25

8:30 am Opening Remarks

John Boyce, President and CEO, GnuBIO

Meredith Salisbury, Senior Consultant, Bioscribe

8:45 Consumers in the Lab and the Clinic: My Daughter's DNA...and Every Little Thing About Her

Hugh Young Rienhoff, Jr., M.D., Director, MyDaughtersDNA.org

When his daughter was born with an undescribed syndrome, clinical geneticist and biotech entrepreneur Hugh Rienhoff launched a years-long quest to find the answer himself. In 2013, he published the results of those efforts, reporting a mutation in TGF β 3 that appears to be the root of his daughter's syndrome. In this keynote address, Dr. Rienhoff will offer his views on personalized medicine and genetic-based diagnostics from the perspective of a patient's father, a clinician, and a member of the biotech industry.

9:30 Coffee Break with Exhibit & Poster Viewing

Science/Research Updates on Genomics/Sequencing from the Clinic

10:15 Chairperson's Remarks

10:20 Customer Reactions to Consumer Genetics Services

Robert Green, M.D., MPH, Associate Professor of Medicine, Division of Genetics, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School

The Impact of Personal Genomics (PGen) Study is a collaboration between researchers at Brigham and Women's Hospital, the University of Michigan School of Public Health, and two genetic testing companies, 23andMe and Pathway Genomics. 1,740 new customers of these companies were recruited for the survey-based study at the time they submitted DNA samples. Goals of the study are to measure the extent to which the users understand the genetically-based risk information and to assess how consumer genetic testing influences users' risk perceptions, psychological wellbeing, health behaviors, healthcare utilization, and communication about results. This is the first prospective study of consumer genetics in which academic researchers are obtaining participants' genetic risk results. Researchers will thus be able to compare actual genetic information seen by consumers with risk perceptions and psychological and behavioral outcomes.

10:40 Supporting Genomic Medicine through Data Sharing

Heidi L. Rehm, Ph.D., FACMG, Chief Laboratory Director, Molecular Medicine, Partners HealthCare Center for Personalized Genetic Medicine (PCPGM); Assistant Professor of Pathology, Harvard Medical School

With clinical sequencing rapidly expanding, data interpretation has become the bottleneck. This talk will present approaches to share data in support of community-based approaches to advancing our knowledge of genomics and its application to medicine.

11:00 From Massive-Scale Genomic Data to Functional Interpretation

Daniel MacArthur, Ph.D., Assistant Professor, Massachusetts General Hospital; Co-founder, Genomes Unzipped

Accurately interpreting the variation present in any individual's genome requires placing it in the context of tens of thousands of other genomes - but these genomes must be accurately and consistently analyzed. This presentation describes the combined analysis of exome sequencing data from over 50,000

individuals, and the ways in which the resulting information can be used to more accurately identify disease-causing mutations in patient genomes. Recent work will be discussed on the use of deep RNA sequencing and whole-genome sequencing data in the diagnosis of rare, severe diseases.

11:20 Q&A/Discussion

11:30 Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

Science/Research Updates on Genomics/Sequencing from Academic Medical Centers

1:00 pm Chairperson's Remarks

Catherine Brownstein, Ph.D., Project Manager, The Gene Partnership, Boston Children's Hospital; Instructor, Pediatrics, Harvard Medical School

1:05 Lessons from CLARITY — An International Competition on Interpreting and Reporting Clinical Genomic Information

Catherine Brownstein, Ph.D., Project Manager, The Gene Partnership, Boston Children's Hospital; Instructor, Pediatrics, Harvard Medical School

CLARITY stands for Children's Leadership Award for the Reliable Interpretation and appropriate Transmission of Your genomic information. This international competition was launched in January 2012 with the goal of surveying current practices in bioinformatic analysis, interpretation and reporting of next-generation sequencing to diagnose rare genetic conditions. The Challenge provided contestants with DNA sequences and clinical data from three families with rare conditions for which no genetic cause had been identified. This presentation will present these results and summarize and discuss some of the conclusions and lessons from this competition.

1:25 Optimizing Analysis Pipelines for Improved Variant Discovery from Personal Genomes

Gareth Highnam, Research Scientist, David Mittelman Laboratory, Genetics and Genomic Medicine Laboratory, Virginia Polytechnic Institute

Although largely based on genotyping at the present time, DTC companies will be migrating to full sequencing very soon – whether panels or exomes or whole genomes. A major pain point is developing and evaluating analysis pipelines for analyzing next-generation sequencing data to maximize accurate detection of variants. The audience will be exposed to challenges, solutions, and opportunities that relate to the transition to next-generation sequencing in genetic testing and diagnostics.

1:45 Genetic Diagnostics Using Next-Generation Sequencing: The CEO Genome Project

Manuel L. Gonzalez-Garay, Ph.D., Assistant Professor, The University of Texas Health Science Center at Houston

Replacing traditional methods for genetic testing of inheritable disorders with next-generation sequencing (NGS) will reduce the cost analysis and increase the information available for the patients. We organized a local event directed to educate healthy influential members of our community about genetics and NGS. During the presentation, we will explain our bioinformatics analysis and decisions to assure that our genetic diagnostics were accurate to detect carrier status and serious medical conditions on our volunteers.

2:05 Q&A/Discussion

2:15 Refreshment Break with Exhibit & Poster Viewing

Main Conference

10:05 Coffee Break with Exhibit & Poster Viewing

10:55 Using a Patient's Genetic Information in the Real World

Michael Christman, Ph.D., President and CEO, Coriell Institute for Medical Research

Through the Coriell Personalized Medicine Collaborative (CPMC) research study we have defined several of the key barriers to accelerate the adoption and routine use of genomics in medicine and have proposed solutions that are generally applicable. Dr. Christman will speak to various challenges approached in a large cohort study, the CPMC, in which personal genomic information is reported to study participants and outcome measures are gathered to examine its utility. A partnership with the United States Air Force (USAF), which brings personalized medicine to 2,000 USAF Medical Service personnel, will also be discussed. Finally, lessons learned from the study and its 7,500 participants have been used to launch a commercial offering in partnership with IBM called Coriell Life Sciences. This new company aims to provide the needed technology infrastructure required to bring the era of genome-informed medicine to the clinic and will connect sequencing companies, data interpretation experts and physicians.

11:25 Sponsored Presentation (Opportunities Available)

11:55 Establishing the First CLIA Whole-Genome Sequencing Laboratory: Best Practices and Lessons Learned

Tina Hambuch, Ph.D., Associate Director, Illumina, Inc.

The barriers to accurate human genome re-sequencing have largely been surmounted, enabling considerations of routine clinical applications. Significant challenges remain for interpretation of whole genome data for diagnostic or prognostic purposes. We established a clinical service for whole genome sequencing, and describe here the challenges of implementing clinical interpretation for it. The outcome makes a compelling case for the need for a clinical grade database based on standards established by the medical and genetics communities.

Sponsored by
illumina

12:25 pm True Clinical Desktop DNA Sequencing: Sample In, Answer Out

John Boyce, President and CEO, GnuBIO

12:55 pm Luncheon Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

Communicating Genetics and Science to Everyone

1:55 Chairperson's Remarks

Peter S. Miller, COO, Genomic Healthcare Strategies

2:00 A Communications Overview of Consumer Genetics

Peter S. Miller, COO, Genomic Healthcare Strategies

This talk will provide an overview of the various forms of communication which will emerge as the consumer genetics market grows and matures. As consumer genetics become commonplace, a web of communications will connect consumers, patients, physicians, businesses, medical records, payers, and labs. Organizations seeking to have a strong presence in consumer genetics will need to build their communications capabilities.

2:20 Merging Art, Science, and Process: Key Strategies for Designing Great Experiences

Michael Hawley, Chief Design Officer, Mad Pow

During this fast-paced session, we'll discuss several core principles of the science of human factors and the art of design that lead to successful interactions. Using examples from several consumer genetics applications and services, we'll evaluate current design trends in the genetics marketplace and demonstrate how well designed products take advantage of successful design strategies.

2:40 Using Data Visualization Tools and Strategies to Help Consumers Understand Their Genetic Results

Kenneth Chahine, Ph.D., J.D., Senior Vice President and General Manager, DNA, ancestry.com

An important, but often overlooked, challenge in consumer genetics is the design of engaging and informative data visualization strategies that help consumers understand and fully appreciate the results of their genetic results. At AncestryDNA, we have considered this problem in the context of admixture prediction based on autosomal SNP testing. We will present our findings based on the conviction that the principles we have applied in our iterative development, testing and refinement of user experiences can also extend to other aspects of consumer genetics.

3:00 Hacking Health

Juhan Sonin, Creative Director, Involution Studios, MIT

Hacking Health will look at the design, data, and policy challenges, as well as the scary new ideas being invented to solve them, that make tackling the healthcare problem daunting and exciting. Healthcare is deadly. As patients and clinicians, we have long passed the threshold of comprehension when it comes to the amount of data and variables we are given to make life-critical decisions. The system needs to be redesigned and re-imagined. True change comes from establishing a vision for healthcare that will modernize how doctors and patients interact with their health data. In "Design is Medicine," design provocateur Juhan Sonin will show how linear-thinking human beings can interpret non-linear, unbalanced health metrics, and how healthcare can be saved through coordination, presentation and design.

3:20 Sponsored Presentation (Opportunity Available)

3:40 Q&A Discussion

3:50 Refreshment Break with Exhibit & Poster Viewing

Consumer Testing – Points and Counterpoints

4:30 Chairperson's Remarks

4:35 Direct-to-Consumer Pharmacogenomic Testing: Helpful or Harmful?

Cinnamon S. Bloss, Ph.D., Director, Social Sciences & Bioethics, Assistant Professor, Scripps Translational Science Institute

The availability of direct-to-consumer (DTC) genomic testing has generated controversy in the scientific and clinical communities. While a small number of studies have evaluated the behavioral and psychological impacts of DTC genomic testing for complex disease risk on consumers, studies that assess the impact of pharmacogenomic (PGx) risk profiling are lacking. This presentation will focus on data from the Scripps Genomic Health Initiative (SGHI), a large longitudinal cohort study designed to assess the impact of DTC genomic testing on consumer behavior. DTC PGx risk profiling among SGHI participants was associated with statistically significant increases in self-reported healthcare utilization and did not result in any adverse changes in psychological health or follow-up test-related distress.

4:55 Pros and Cons of DTC Genetic Testing

Ellen T. Matloff, MS, Research Scientist, Department of Genetics and Director, Cancer Genetic Counseling, Yale Cancer Center

Genetic testing companies are now offering direct-to-consumer (DTC) tests via kits sold on the Internet, including tests for risks of several cancers. However, such tests are typically based on single nucleotide polymorphism (SNP) panels whose accuracy has not been validated. This talk explores the pros and cons of DTC genetic testing for both consumers and physicians, illustrated with case vignettes.

Main Conference

5:15 N=1 Human Study in Clinical Neurosciences: Genomic Guided Medicine and Deep Brain Stimulation

Gholson Lyon, M.D., Ph.D., Assistant Professor of Human Genetics, Cold Spring Harbor Laboratory; Research Scientist, Utah Foundation for Biomedical Research

There is an extraordinarily rich clinical literature in clinical psychology, psychiatry and neurology of N=1 studies. This presentation discusses the detailed phenotypic characterization, clinical-grade whole genome sequencing (WGS), and two-year outcome of one man with severe obsessive-compulsive disorder successfully treated with deep brain stimulation (DBS). To my knowledge, this is the first N=1 human study in the clinical neurosciences including 1) detailed neuropsychiatric phenotyping, 2) clinical-grade WGS with management of genetic results for a person with severe mental illness, and 3) individualized treatment with deep brain stimulation for his OCD. His WGS results and positive outcome with DBS for OCD is one example of individualized medicine in neuropsychiatry, including genomics-guided preventive efforts and brain-implantable devices. We have archived and offered the genome data to him, so that he and others can manage and re-analyze his genome for years to come. This presentation discusses the implications of this for consumer genetics and the future of medicine.

5:35 Genome Hacking

Yaniv Erlich, Ph.D., Principal Investigator and Whitehead Fellow, Whitehead Institute for Biomedical Research

Sharing sequencing datasets without identifiers has become a common practice in genomics. We recently showed that some datasets can be fully re-identified by using entirely free, publicly accessible Internet resources. This talk will present quantitative analysis about the probability of identifying U.S. individuals by this technique on hundreds of genetic datasets. In addition, this talk will demonstrate the power of our approach by tracing back the identities of multiple whole genome datasets in public sequencing repositories.

5:55 Q&A Discussion

6:05 Featured Presentation: Impact of Patent Law on the Future of Genetic Testing

Antoinette F. Konski, J.D., Partner, Foley & Lardner LLP

The U.S. Supreme Court has changed the landscape of IP protection of genes and their use diagnostically. This presentation will discuss the current understanding of IP protection of human genes and their use in medical testing.

6:35 - 8:30 Networking Party Hosted by GnuBio

Day 3: Friday, September 27

7:30 am Interactive Breakout Discussions Groups & Report Outs

Grab a cup of coffee and pastry and join your peers over stimulating discussions. These concurrent discussion groups provide an opportunity for all attendees, speakers, sponsors, and exhibitors to gather, participate in active idea sharing, and network with potential collaborators. Each discussion group will be limited to 12 participants and a moderator. Additionally, each group will take notes and report key findings in a large group share at the end. These notes will be available to attendees post-conference. See website for details.

Digital Consumer Healthcare: Health Tracking Applications, Demos & Case Studies

8:30 Chairperson's Remarks

8:35 Oversight = Opportunity: Regulation, Innovation and the Power of Mobile Health Apps

Martin Mendiola, M.D., MPH, Director, Clinical Program Development, Happtique
With over 40,000 health care apps in the app marketplace and little barrier to

entry, patients and health care professionals have little information about app security, credibility, and functionality. Happtique's Health App Certification Program was developed to address those issues. With the right kind of industry oversight, apps have the power to not only change the way patients manage their health, but transform patient-centered care across the entire industry.

8:55 DTC 2.0: Genomics in a Digital Health World

Anish Sebastian, Co-Founder and CEO, 1eq

Julia Oh, CSO, 1eq

1eq has created a consumer digital health platform that integrates genetics and lifestyle information to produce a clear health picture with actionable items for its user to live a better and healthier life. Case studies will be presented to show how this platform has changed user behavior. The 1eq App offers a unique DTC technology to the masses by making genomics a piece of the overall health puzzle.

9:15 Innovative Solutions for Effective Disease Management

Georgia Mitsi, MSc, Ph.D., MBA, Founder and CEO, Apptomics LLC

Apptomics is a digital health company developing innovative solutions for neurodegenerative diseases. We will describe a mobile application that allows daily data capture (disease features, severity, medication log, etc.) in combination with a wearable sensor system that objectively measures motor symptoms. Patients stay involved with their health, caregivers can offer their help in a meaningful way, and doctors can make more informed decisions that lead to more effective disease management. Attendees will understand how the new technologies can help Parkinson's patients understand the challenges associated with new technologies in healthcare.

9:35 Quantified Self 2.0

Ayub Khattak, CEO, ruubix

Tracking our real-time hormone levels (testosterone, Vitamin D), inflammation index (CRP), cholesterol and other important molecular indicators of body-state are an important addition to tracking our heart rate, activity, and sleep, which are already well covered by wearable monitors. We are developing a mobile-based platform for regularly measuring several of these biomarkers which are of interest to the general population for meeting fitness, weight, mood, and wellness goals. The complete picture of health and wellness can be achieved by combining and analyzing data from your genetic disposition (i.e. 23andMe), your diet and activity (i.e. FitBit, Jawbone) and your body's real-time molecular response at the hormonal and protein level to how you eat, sleep, and exercise.

9:55 Sponsored Presentation (Opportunity Available)

10:15 Coffee Break, Last Chance for Exhibit & Poster Viewing

Consumer Landscape: Current Opportunities and the Big Picture

10:55 Be The Match®, The National Marrow Donor Program's Role in Consumer Genetics

Eric P. Williams, Ph.D., Senior Bioinformatics Scientist, National Marrow Donor Program

Established in 1986, The National Marrow Donor Program (NMDP) operates the Be The Match® registry and oversees operation of the C.W. Bill Young Program mandated by Congress. For most of the 10.9 million volunteer donors and 185,000 cords listed on the registry, typing is done at the DNA level and covers five genes in the Major Histocompatibility Complex (MHC) of chromosome 6. This region governs the immune system, pharmacogenomic and disease interactions and can be used to determine ancestral origin. The highly polymorphic MHC complicates the process of determining reliable genotype results for most DNA sequencing technologies including Next-generation Sequencing. There are numerous synergistic relationships that would aid NMDP efforts to increase their registry size and offer genetic population, typing results interpretation, reference sequence, and geospatial orientation help to consumer

genetics providers interested in enhancing typing results for the MHC. The NMDP has expertise that would help consumer genetics providers determine results for an area of the genome that is notoriously complicated and hard to interpret. We will present an understanding of NMDP's mission and areas of expertise, areas for collaboration, and how we could be helped by providers.

11:15 Alice in Genomeland: Lessons from A Reluctant Biotech Entrepreneur

Anne Morriss, Founder and CEO, Genepeeks

From diagnosis to fundraising to product launch, this talk captures the key lessons from one mother's experience turning her son's inheritance of a rare genetic disorder – MCAD Deficiency -- into the inspiration for a consumer genetics company. The company, Genepeeks, predicts the genetic profile of a child pre-conception by simulating the genetic reduction and recombination that occur naturally during reproduction, digitally weaving together the DNA of prospective parents.

11:35 Sponsored Presentation (Opportunity Available)

11:55 Consumer Genomics: From Niche to Mainstream

Spencer Wells, Ph.D., Explorer-in-Residence and Director, The Genographic

Project, National Geographic Society

The world of consumer genomics has transformed over the past decade. What was once an expensive, niche hobby limited to a small number of genealogists has exploded. 2013 saw the millionth person tested, and around half of these have done so through National Geographic's Genographic Project. I will discuss Genographic as a model for consumer engagement, and speculate on longer-term trends in the industry as testing goes mainstream.

12:40 pm Q&A/Discussion/Closing Remarks

1:00 Close of Conference

Top Reasons to Stay at the Seaport Hotel:

- Take advantage of the \$289 group rate!
- Complimentary wireless internet access
- No Commute, since meeting takes place at hotel
- "Pure" Rooms for those with allergies
- Lots of new restaurants within walking distances. Seaport is the up and coming area of Boston!
- Unique service-inclusive policy (i.e. No need to tip housekeeping)

Hotel & Travel Information

Conference Hotel:

Seaport Hotel
One Seaport Lane
Boston, MA 02110
Phone: 617-385-4000

Discounted Room Rate: \$289 s/d

Discounted Cut-off Date: August 26, 2013

Please call the hotel directly to reserve your sleeping accommodations. You will need to identify yourself as a Cambridge Healthtech Institute conference attendee to receive the discounted room rate with the host hotels. 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:

Special discounts have been established with American Airlines for this conference.

- Call American Airlines 1-800-433-1790 and use Conference code **2593BF**.
- Go to www.aa.com/group and enter Conference code **2593BF** in promotion discount box.
- Contact our dedicated travel agent, Rona Meizler, at 617-559-3735 or rona.meizler@protravelinc.com.

Car Rental Discounts

Special discount rentals have been established with Hertz for this conference.

- Call Hertz 1-800-654-3131 and use our Hertz Convention Number (CV): 04KL0004
- Go to www.hertz.com and use our Hertz Convention Number (CV): 04KL0004

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Astrid Research Inc., CSO	Childrens Hospital Boston, Fellow, Pediatric Genetics	Ethicon EndoSurgery, Principal Engineer	GenoVive, CEO
Athena Diagnostics Inc., Sr Marketing Manager	Childrens Hospital Boston, Professor of Pediatrics & Director	Excel Medical Ventures, Managing Director	Genzyme Corp., Scientific Director
Atlantic Health System, Director	Childrens Hospital Boston, Project Manager, Genomics	Exosome Diagnostics Inc., Chairman & CEO	GnuBIO, CoFounder & President & CEO
Atlantis Technologies	Childrens Hospital Boston, Research Coordinator, Plastic & Oral Surgery	FDAnews, Clinical Trials Editor	GnuBIO, Design Engineer
Aurec	Childrens Mercy Hospital, Asst Professor, Pediatrics	Feinstein Kean Healthcare, Account Coordinator	GnuBIO, Executive VP Product Development
Aurum Ventures MKI, Managing Director Life Sciences	Childrens Mercy Hospital, Director Informatics	Feinstein Kean Healthcare, CEO	GnuBIO, Principal Scientist
Autodesk Inc., Research Associate	Clinical Future	Feinstein Kean Healthcare, Executive VP	GnuBIO, Scientist
AVEO Oncology, Sr VP Translational Medicine & Oncology	College of American Pathologists, Director, Molecular Medicine	Feinstein Kean Healthcare, Asst Account Executive	GnuBIO, Sr Design Engineer
Beaulieu Saucier Pharmacogenomics Center, Director	College of American Pathologists, Director, Personalized Healthcare Initiatives	Feinstein Kean Healthcare, VP	GnuBIO, Sr VP Business Operations
Bentley University, Natural & Applied Sciences	Complete Genomics Inc., CCO & Sr VP	Feinstein Kean Healthcare, VP Media Relations	GnuBIO, VP Informatics
Best Doctors Inc., Specialist	Complete Genomics Inc., Chief Business Development Officer	Feinstein Kean Healthcare, VP Media Specialist	GnuBIO, VP Molecular Biology
Best Doctors Inc., VP	Complete Genomics Inc., Director Clinical Market Development	Forbion Capital Partners, General Partner	Goldman Sachs & Co., VP Analyst
BioIT World, Editor in Chief	Coriell Institute for Medical Research, CIO	GenapSys Inc., CEO & CTO	Good Start Genetics, Founder & VP Research & Technology
Biopharm Insight	Coriell Institute for Medical Research, President & CEO	GenapSys Inc., Director Business Development & Strategy	Good Start Genetics, President & CEO
BioRealm, Bioinformatics Principal	Cornell University, Pathology and Laboratory Medicine	GenapSys Inc., Sr Director Molecular Biology & Sequencing	Good Start Genetics, Sr Scientist
BioRealm, Co Founder & Statistical Computing Principal	Courtagen Life Sciences Inc., CSO	GeneLink	Great Point Partners LLC, Analyst
BioScribe, Consultant		GeneLink BioSciences, Director Genomics	Hamamatsu Photonic Systems, Sales Engineer
BioScribe, Principal		GenePeeks, CEO	Hartford Courant, Healthcare Reporter
BioTeam Inc., Director Consulting Svcs & Principal Consulting		Genepeeks, CTO	Harvard Medical School, Co Director Center for Biomedical Informatics
Bloomberg News, Reporter			Harvard Medical School, Robert Winthrop Professor, Genetics
Blueprint Genetics			Harvard University, Analyst
Boston Globe, Science Correspondent			Harvard University, Associate Director

Harvard University, Gordon McKay Professor, Applied Physics	Life Technologies, VP Clinical & Applied Market Development	Partners Healthcare System, Associate Director, Research Ventures & Licensing	Syapse, Founder & President
Harvard University, PhD Candidate, Systems Biology	Life Technologies, VP Communications	Partners Healthcare System, Executive Director, Business Development	SynapDx Corp., Founder & President & CEO
Health Advances LLC, VP	Manning & Napier Advisors	Partners Healthcare System, Executive Director, IT	SynapDx Lab, Director Strategic & Process Planning
Hearst Interactive Media	Mass High Tech, Editor	Partners Healthcare System, Manager, Business Development	Technology Review, Editor
HITSphere, Managing Editor	Massachusetts General Hospital, Asst, Genetics	Partners Healthcare System, Research Analyst, Center for Connected Health	Technomy, Contributing Editor
Huntsman Cancer Institute, Licensed Genetic Counselor	Massachusetts General Hospital, Software	Pathway Genomics Corp., CSO	Texas A&M University, Associate Professor
Huntsman Cancer Institute, Research Associate	Massachusetts Institute of Technology, Commercialization Manager	PerkinElmer, Product Specialist	Third Rock Ventures, Entrepreneur in Residence
Illumina, Sr Applications Scientist	Massachusetts Institute of Technology, Group Leader, Bioengineering	Philips Healthcare, Director, Strategy & Business Development	Toray Industries, New Frontiers Research Labs
Illumina, Technical Team Lead, Sequencing	Massachusetts Institute of Technology, PhD Candidate, Biological Engineering	PKL Diagnostics, President	Trillium Advisors, Principal
Impact Genetics, CEO	Massachusetts Institute of Technology, Technical Staff, Bioengineering Systems	Princeton University, Professor, Molecular Biology	TSI Biocomputing
Incite Advisors, Managing Director	McMaster University, Medical Centre	Quantum Corp., Partner	Tufts Medical Center, Director, ORBIT
Ingenuity Systems, President & CEO	Morristown Medical Center, Internal Medicine	RainDance Technologies, Global Product Manager Targeted Sequencing	Tufts Medical Center, Executive Director & Professor, Pediatrics
Ingenuity Systems, Sr VP Corporate Development	Mount Sinai School of Medicine, Biomedical Software Development, Genetics & Genomics	Reason Magazine, Science Correspondent	Tulane Medical Center
Ingenuity Systems, Sr VP Products & Marketing	MPEG LA, Exec Director Librassay	Roche Diagnostics, Bioinformatics Scientist, Genomics	UMDNJ, Adjunct Associate Professor
Integrated Genetics, AVP	N of One Therapeutics, President & Founder	SafeGenomics LLC, CEO	University of Connecticut Farmington, Associate Dean, Neuroscience
Interleukin Genetics, VP Development	NABSys Inc, President & CEO	SafeGenomics LLC, Chairman	University of Helsinki, Postdoctoral Researcher, Pathology
ISI Group, Associate Managing Director Healthcare	Nature, Writer	Sanofi Oncology, Lead Scientist & Lab Head Applied Genomics	University of Nevada Reno, Associate Professor, Bioinformatics Center
Jackson Lab, Genetic Resource Sciences	New England BioLabs, Research Assistant	Scripps Translational Science Institute, Director & Asst Professor	University of Oklahoma Norman
John Wayne Cancer Institute, Chief Administrative Officer & VP	New England Journal of Medicine, Deputy Editor	SEQUENOM, Executive VP Strategic Planning	University of Pittsburgh, Information Specialist in Molecular Biology
Johns Hopkins University, Analyst Genetics Research	New Scientist Magazine, Reporter	SEQUENOM, VP Business Development	University of The Pacific, Executive Director
KNODE, Head	New York Times, Healthcare Reporter	SeraCare Life Sciences, CSO	UsabilityResources, Managing Editor
Knome, Account Manager	NIH	SK Corp, Research Scientist, Bioinformatics Lab	Utah Foundation for Biomedical Research, Research Scientist
Knome, Director Research	NIH NIDA, Genetics & Molecular Neurobiology Research	Sk Telecom, Manager	VA Medical Ctr Boston, Biostatistician
Knome, VP Sales & Business Development	NIST, Group Leader, Multiplexed Biomolecular Science	SNPedia.com, Founder	Virginia Polytechnic Institute & State University, Associate Professor
KT, Manager	NJTC Venture Fund	SomaLogic, CMO Emeritus	Virginia Polytechnic Institute & State University, Graduate Research Assistant
LABCORP, VP R&D	NobleGen Biosciences, CEO	Sonder Grp LLC, President	Virginia Polytechnic Institute & State University, Science & Technology
Lana Mgmt & Business Research Intl LLC, Principal	NobleGen Biosciences, Chairman	Sorenson Genomics, CSO	VitaPath Genetics, Founder & CSO
Life Technologies, Bioinformatics	North Bridge Venture Partners, CEO	St Johns Health System, Staff Pathologist	Wall Street Journal, Writer
Life Technologies, CEO	Oasis Diagnostics, CEO	Standard Process Inc., Leader	WBUR Radio
Life Technologies, CMO	Omicia Inc., President & CEO	Stanford University, Sr Research Fellow, Biomedical Ethics	X Prize Foundation, Sr Director, Prize Lead
Life Technologies, District Manager	Parabase Genomics, CEO & Founder	State Farm Insurance, Technical Analyst	Yet2.Com, VP Consulting
Life Technologies, Head, Medical Science Informatics	Partners HealthCare Inc, Privacy Specialist	Stratavate, Principal	Yorkville Advisors LLC, Managing Director