

**Audrey's Life Science Meeting Picks for Nov. 12, 2017 through April 2018  
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**GGPF, Monday Evening, Nov. 13, 2017**

Topic: " Electroactive Fluorinated Polymers"

Speaker: Larry Judovits, Principal Scientist, Arkema, Inc.

Date and Time: Monday, Nov. 13, 2017, 5:00 pm

6:00 PM social hour

7:00 PM dinner

8:00 PM presentation

Location: Michael's at Shoreline, 2960 N Shoreline Blvd., Mountain View

Full-price regular registration deadline is this Friday, Nov. 10, 5:00 PM

Cost:

Employed/postdocs: \$30 early registration, \$35 regular registration

Unemployed/retired/students: \$15 early registration, \$20 regular registration

Free if you attend just the lectures at 8:00 PM (but please let us know for headcount)

After deadline:

Registration not guaranteed, so contact us

Late fee applies if space available -- \$40 regular/employed, \$25

unemployed/student/retired

Deadlines for registration:

End of discounted advance registration Monday, Nov. 6, 11:59 PM

End of regular (full-price) registration Friday, Nov. 10, 5:00 PM

Because we must pay the restaurant for the ordered meal, we must ask no-shows to pay for their reservation.

However, penalty-free cancellations are allowed up until the deadline for reservations (Friday, Nov. 10, 5:00 PM).

PLEASE NOTE:

We accept cash or checks at the door, but are unable to accept payment by credit card at the event.

You may pay at the door.

Checks may be made to "GGPF"

Register at [www.GGPF.org](http://www.GGPF.org) (PayPal is enabled if desired)

Topic Description

Since the discovery of piezoelectricity in polyvinylidene fluoride (PVDF) by Kawai in 1969, polymers based on vinylidene fluoride (VDF) have attracted research interest due to their application in the fields of sensors, actuators, medical imaging, IR detectors, underwater acoustic transducers and emerging organic electronics. The piezoelectric, pyroelectric, and ferroelectric properties of VDF-based resins as well as their transition behavior were extensively studied during the 70s and 80s. However, the usage of the PVDF homopolymer was limited because it does not crystallize directly into its ferroelectric  $\beta$ -phase. In order to obtain a ferroelectric material, PVDF thick films have to be mechanically stretched and then poled under a high electric field. This fabrication process restricted the development of PVDF-based electroactive devices especially for wearable technologies. On the other hand, PVDF copolymers, such as poly(vinylidene fluoride/trifluoroethylene) P(VDF-TrFE) directly form a ferroelectric crystalline structure from solution or melt. Thin copolymer ferroelectric

films can then be easily processed as inks via printing techniques and poled using a moderate voltage.

Recently, a new class of polymers has been developed and commercialized: the relaxor ferroelectric polymers. These printable terpolymers are based on P(VDF-TrFE) with a third monomer, either chlorofluoroethylene (CFE) or chlorotrifluoroethylene (CTFE), which alters the crystalline structure to result in a relaxor ferroelectric. Compared to the normal ferroelectric polymers, such as P(VDF-TrFE), these materials exhibit a narrow electrical hysteresis curve, good mechanical properties, a high dielectric constant at ambient temperature and large deformations under an applied electric field.

This presentation will be an overview of fluorinated electroactive polymers especially in the fast-developing fields of printed and flexible electronics. An emphasis will be given on the efforts by Piezotech, the Arkema subsidiary that is commercializing electroactive fluoropolymers, on its recent work with electroactive polymers for haptic applications as well as a novel approach to computer chip cooling using a polymeric electrocaloric effect.

#### Speaker Bio

Larry Judovits, PhD, is a Principal Scientist for Arkema, and has worked for Arkema and its predecessor companies for over 30 years. He is a fellow of both ASTM and the North American Thermal Analysis Society (NATAS). Dr. Judovits has over 25 publications. In addition to his responsibilities for Arkema's King of Prussia Thermal Analysis lab he also works with Arkema's Piezotech subsidiary in developing and producing fluoropolymer sensor and actuator materials.

You should receive confirmation of your registration; if not, please contact us again.

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### **Bio2Device Group, Tuesday Evening, Nov. 14, 2017**

Topic: "Sprout Medical, Making an Impact in Critical Care"

Date and Time: Tuesday, Nov. 14, 2017, 6:00 pm

Location: Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto

Jerry Gibson, Chairman & CEO, Sprout Medical

Cost:

\$6 - Students/In-transition - Members only

\$11 - Early-bird Registration - Members only

\$20 - Late Registration and Non-Members

\$25 - Walk-ins

Register on website at [www.Bio2Devicegroup.org](http://www.Bio2Devicegroup.org)

#### Topic Description

Sprout Medical has developed a cost-effective system to increase the clinical efficiency of administering the rapid infusion of various fluids that are so important in the treatment of sepsis, trauma and other critical conditions in the ED, ICU, OR and pre-hospital environments. Mr. Gibson will review the clinical and competitive landscape as well as Sprout Medical's approach to tackling this important issue.

#### Speaker Bio

Mr. Gibson has over 35 years of executive experience in the medical device field in the capacity of Division Manager at Siemens Medical Solutions and in the positions of CEO, founding President and Senior V.P. of Sales & Marketing of several medical startups and

technology turnaround companies. In addition, Mr. Gibson presently serves on several Boards of medical technology startup companies in addition to having served as a member of the External Advisory Board of the University of California/National Science Foundation Center for Biophotonics Science and Technology. Mr. Gibson earned a Bachelor of Business Administration degree from the University of Memphis.

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### **EMBS, Wednesday Evening, Nov. 15, 2017**

Topic: "Early results from proof of concept clinical trials with G-Tech Medical's EKG for the Gut"

Speaker: Steve Axelrod, CEO of G-Tech Medical

Date and Time: Wednesday, Nov. 15, 2017, 7:30 pm

Location: Room M-114 of the Alway Bldg., Stanford University School of Medicine (see campus map at link below).

#### Topic Description

Motility, the movement through the digestive tract of what starts out as food, is usually taken for granted, until something goes wrong. There are a wide range of gastrointestinal (GI) disorders and dysfunctions that can be blamed on motility issues. Fifteen to twenty percent of the population suffer from symptoms of Irritable Bowel Syndrome – constipation, diarrhea, bloating and chronic abdominal pain – while 1.5 million live with the more serious Inflammatory Bowel Disease (IBD). In addition, regaining normal motility is key in the recovery from abdominal surgery, and determines feeding rates for patients on enteral feeding in the ICU.

Yet there aren't any very good ways to measure motility of the entire GI tract noninvasively, continuously for multiple days, while under normal physiological conditions. G-Tech has developed electrode patches worn on the abdomen that read electrical signals emanating from the muscles of the stomach, small intestine and colon when they are active – driving motility – that are thin, wireless and non-invasive. The patches use Bluetooth LE to transfer raw data to a smartphone and from there on to a cloud server for analysis.

Since the previous talk in 2015 G-Tech has launched clinical trials on patients recovering from abdominal surgery at El Camino Hospital and from Whipple surgery at Stanford; together there have been nearly 100 patients tested. We have also been part of a study run by the Parkinson's Institute looking at the relationship of GI measures to Parkinson's Disease symptoms. Interesting results have been obtained in these cases and also in volunteer tests, and will be described in the talk. Additional studies are currently in negotiation and planning stages, including one on enteral feeding, two related to gastroparesis, and another looking at Crohn's Disease patients. The logic and goals for these will be discussed as well.

#### Speaker Bio

Steve holds a BS in Physics from UConn and a PhD in Elementary Particle Physics from Yale. He played with technologies like particle detection and fast pulse instrumentation, sub-kelvin cryogenics, superconducting magnets, NMR and ESR, high vacuum systems and data acquisition and analysis. He remembers using Bitnet and Arpanet before there was a WWW, and sending emails to friends working at distant particle accelerators using PDP-10 and VAX terminals.

After graduation he took a postdoc position at Stanford and when that ended refused to leave the Bay Area. The next 15 years were spent at Measurex (later Honeywell)

developing on-line measurement systems such as nuclear and X-ray basis weight and thickness sensors, infrared moisture sensors and large electromechanical scanning systems. In 2003 he joined Xoft Inc., a startup developing a 2mm diameter 50kV X-ray source for radiation therapy applications, and has been in the medical device field ever since. He has been CEO of G-Tech Medical since joining the company in late 2011. Steve has been in individual contributor and various levels of management roles, but has never been able to fully break away from the science and technology.

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**WIB -National Webinar, Wednesday, Nov. 15, 2017**

Topic: "Project Management – How Good Leadership Can Make or Break Project Success"

Date and Time: November 15, 2017, 1:00 p.m. – 2:00 p.m. EST\*

Registration Deadline: November 14, 2017

Venue: Registrants will receive a webinar link via confirmation email

**Webinar Description**

A project manager's role goes beyond the management of scope, budget, and schedule. Members of a project team are human beings with human feelings, and a successful project manager must also encourage, motivate, and relate to the members on his or her team. A challenge in project management is how to assure that things get done while motivating the team to deliver. During this webinar Gretchen Stup, Senior Consultant, Latham BioPharm Group, will focus on leadership styles that are effective, influential, and valuable, so as to contribute to the success of your project.

This course will result in up to one hour of PMI-approvable Professional Development Units (PDUs) for the project management field

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**Bioscience Forum, Wednesday Evening, Nov. 15, 2017**

Topic: "Mining the Microbiome for New Therapeutic Candidates for Chronic Diseases"

Speaker: Karim Dabbagh, Ph.D., Chief Scientific Officer, Second Genome

Date and Time: Wednesday, November 15, 2017 6:00 PM - 9:00 PM

6 pm - 7 pm networking

7 pm - 8 pm dinner

8 pm - 9 pm presentation

Location: The Holiday Inn, 275 S Airport Blvd, South San Francisco, California 94080,  
[Register Here](#)

Event Registration (\$3 service fee will apply)

Pre-Registration

\$50.00

On-Site Registration

\$60.00

Pre-Registration ends Monday, November 13th, at 9 pm

Cash or check accepted on the day of the event

\$10 discount for full-time students

Register on organization's website [www.BioSF.org](http://www.BioSF.org)

Or you can pay with a check made out to "BioScience Forum" and sent to:  
BioScience Forum  
1442A Walnut Street, #308  
Berkeley, CA 94709-1405  
Please do not mail checks later than Thursday, November 9th  
If paying with check, do not complete online registration with Cvent

#### Topic Description

The microbiota interacts with itself and its human host to impact health and disease. Inflammatory Bowel Disease (IBD) is a chronic and debilitating condition that results from severe inflammation of the gastrointestinal tract. Two conditions, ulcerative colitis and Crohn's disease, account for the vast majority of the 5 million IBD cases worldwide.

A growing body of scientific evidence suggests a causal link between the gut microbiome and IBD. Theories implicating the microbiome in the pathogenesis of IBD range from activation of the inflammasome through opportunistic pathogens that take advantage of barrier dysfunction, to genetic defects within the host that trigger a deleterious response to normally commensal microbiota. The microbiome is central to the development of chronic intestinal inflammation and subsequent IBD.

Second Genome is actively investigating microbially-mediated mechanisms underlying IBD. By identifying the bacteria that play a key role in IBD, scientific studies have led to identification of new therapeutic approaches and strategies for treating this debilitating condition. A lead candidate is under development that is a small molecule inhibitor of a key microbiome-mediated target to address inflammation and pain in IBD. Furthermore, proteins derived from important bacteria that are reduced in disease settings provide signals that maintain a healthy gut barrier that can be used as novel therapeutics for the treatment of IBD. Finally, the use of this approach and platform in metabolic diseases to identify bacteria and proteins that provide metabolic homeostasis in obesity and diabetes will also be discussed.

#### Speaker Biography

Karim Dabbagh leads the R&D organization at Second Genome. Prior to that, he led the immunoregulation department at Pfizer, an R&D group focused on innovative approaches to elicit homeostatic immune responses, including microbiome research, for the treatment of immune related disorders. At Pfizer, he also led external R&D innovation for autoimmune and inflammatory diseases. Past responsibilities include founding Modus BioMedicine, a start-up biotechnology company focused on treatments for transplantation and autoimmune disease, as well as spending nine years at Roche Pharmaceuticals in Inflammation Discovery Research.

Dr. Dabbagh received his PhD in biochemistry from University College, London and his BS in biotechnology from the Imperial College of Science, Technology, and Medicine in London. He completed postdoctoral fellowships at the Cardiovascular Research Institute at the University of California, San Francisco and at Stanford University where he worked on elucidating the role played by the microbiome in the hygiene hypothesis.

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**QB3, Thursday Midday, Nov. 17, 2017**

Event: Seminar for Entrepreneurs, "Destroyer of Obstacles': Going..."  
Speaker: Eric Hobbs, CEO, Berkeley Lights  
Date and Time: Thursday, Nov. 17, 2017, 12:00 to 1:00 pm  
Location: Room N-114, Genentech Hall, 600 16th Street, UCSF Mission Bay, San Francisco, CA 94158  
Fee: \$10 general admission  
Details and registration at [https://www.eventbrite.com/e/qb3-seminar-eric-hobbs-berkeley-lights-destroyer-of-obstacles-going-from-startup-to-a-commercial-tickets-38824104943?mc\\_cid=570318eeb9&mc\\_eid=cb4c38a44a#tickets](https://www.eventbrite.com/e/qb3-seminar-eric-hobbs-berkeley-lights-destroyer-of-obstacles-going-from-startup-to-a-commercial-tickets-38824104943?mc_cid=570318eeb9&mc_eid=cb4c38a44a#tickets)

**Speaker Bio**

Eric Hobbs leads Berkeley Lights, an East Bay company developing nanofluidic technology that enables cell selection for drug discovery, cell line development, and cell therapy manufacturing. The SF Business Times recently profiled Hobbs as a "destroyer of obstacles." Under his leadership, Berkeley Lights has hit revenue and budget targets, despite having lost 40 staff just before Hobbs took the helm. How does he face and overcome such challenges, and what has his professional journey been like? Join us November 16 to hear for yourself.

**About the Speaker**

Eric Hobbs

Eric D. Hobbs joined Berkeley Lights in May 2013 and was appointed Chief Executive Officer in March 2017. Prior to becoming CEO, Eric held various senior management roles, including most recently, Senior Vice President of Operations and Consumables. Prior to Berkeley Lights, Eric led the design, development, and launch of 3 new product architectures at FormFactor, Inc. as a senior member of both R&D and Operations organizations. He holds more than 62 U.S. and International patents. Eric has lectured both at UC Berkeley and Stanford speaking on Engineering Design, Invention, and Optimization Algorithms. Eric earned his Ph.D. & M.S. in MEMS Design and Microfluidic Devices at UC Berkeley. He received a B.S. in Mechanical Engineering from U.S.C.

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**Bio2Device Group, Nov. 21, 2017**

Vacation for Thanksgiving- No meeting today- Next Meeting is Nov. 28

Event Date:

11/21/2017 - 8:00am

Event Location:

With Family and Friends

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**PBSS, Friday, Nov. 24, 2017**

Event: Workshop Good Laboratory Practices (GLPs): Fundamentals, Regulatory Trends and Best Practices

Speakers: Lisa Helmonds, Vice President, MWA Consulting, Inc.

Date and Time: 10/24/2017, 8:30-12:00

8:45-9 am PBSS Welcome & Workshop Overview

9-9:30 am History of GLP Regulations

9:30-9:45 am Areas Covered by GLPs

9:45-10 am Key Definitions

10-10:15 am Break & Vendor Show

10:15-11:15 am Important Aspects of GLPs

Subpart A: General Provisions

Subpart B: Organization and Personnel  
Subparts C & D: Facilities and Equipment  
Subpart E: Testing Facilities Operations  
Subpart F: Test and Control Articles  
Subpart G: Protocol  
Subpart J: Records and Reports  
Subpart K: Disqualification  
11:15 -11:30 am FDA Actions and Misconduct  
11:30-12 pm Q & A  
Location: SF Bay Area: Foster City Crowne Plaza Registration fee (USD): Regular: \$125; Academic: \$75; For unemployed or students: \$25; For major-sponsor rep (incl lunch): \$0; For vendor-show reps: \$25;  
Registration: <http://www.PBSS.org>  
Registration deadline: 10/22/2017 (it will close sooner if the seating cap is reached)

**Event Description**

This workshop will include a discussion on the history of Good Laboratory Practices (GLP) regulations, the importance of the regulations, key definitions, areas covered by the GLPs, a review of the regulations, examples of misconduct and, potential FDA actions. After completing this workshop, participants should be able to understand the origin, purpose, and expectations of the GLP regulations.

**Speaker Bio**

Lisa Helmonds has over 30 years of experience in Manufacturing and Quality Assurance in the pharmaceutical, biotechnology and medical device industries. She has extensive GXP knowledge, has held positions as a manufacturing chemist and QA manager/director as an FTE and as a consultant with several startups and large companies such as Syva, Syntex, Roche Bioscience, Alza, Shire, Gilead, along with many others and she understands the challenges facing the industry. She holds a BS in Zoology and minor in Chemistry from the University of Rhode Island and an MBA from Santa Clara University. She is currently Vice President of MWA Consulting, Inc. where she provides consulting services to MWA clients.

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**Bio2Device Group, Tuesday Morning, Nov. 28, 2017**

Topic: "A new S curve in PCI: Devices that Actively Adapt to Vascular Physiology"  
Speaker: Vinayak D Bhat, PhD., President & Chief Operating Officer, Elixir Medical  
Date and Time: Tuesday morning, Nov. 28, 2017  
Location: Sunnyvale City Council Chambers- 456 West Olive Ave., Sunnyvale  
There are no fees or registration required for morning meetings.

**Topic Description**

The talk will provide an overview of device development in percutaneous coronary intervention, from coronary angioplasty to fully bioresorbable scaffolds. The presentation will focus on a new generation of innovative devices developed by Elixir Medical, that are designed to actively adapt to the changing needs of vascular physiological and work in harmony with the artery to heal the diseased artery. These devices return the pulsatile motion of a beating coronary artery and demonstrate adaptive vascular remodeling that is observed in normal physiologic state. The devices have potential to provide clinical benefits in range of indications from cardiovascular to peripheral vascular diseases.

Speaker Bio

Dr. Vinayak Bhat serves as the President & Chief Operating Officer of Elixir Medical. Dr. Bhat previously served as the Vice President & General Manager of DES Division of AvanteC Vascular Corporation, a subsidiary of Goodman Co. Ltd., a Nagoya, Japan based medical product company. Dr. Bhat joined AvanteC as Director of R&D, and was part of the management group which secured the sale of the company to Goodman Co. Ltd. in 2002. He also held several research and management positions within the Stent Business Unit of Guidant Corporation (currently Abbott Vascular).

Dr. Bhat is an inventor or co-inventor on 40 US and EU patents and has over 25 pending applications. He also has 15 peer-reviewed publications and book chapters. Dr. Bhat holds a Bachelor’s degree in Chemical Engineering from University of Bombay, India, Masters in Biochemical Engineering and Ph.D. in Biomedical Engineering from Duke University, North Carolina.

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**WIB-San Francisco Bay Area, Thursday Evening, Nov. 28, 2017**

Event: Get Involved with WIB-San Francisco Bay Area: Volunteer Information Session on November 28, 2017

Date and Time: Thursday, November 28, 2017, 6:00 p.m. – 8:00 p.m. PST

6:00 p.m. - 6:30 p.m. Check-in and light refreshments

6:30 p.m. - 7:15 p.m. WIB committee overview

7:15 p.m. - 8:00 p.m. Networking time with committee chairs/members

Location: Mission Bay Housing Conference Room, 1560 3rd Street, San Francisco, CA 94158

Pricing: Free

Register at <https://womeninbio.site-ym.com/events/EventDetails.aspx?id=1032848&group=>

Event Description

Want to learn more about Women In Bio? Already a member and want to take your involvement to the next level? Come volunteer with us! By volunteering, you will have the opportunity to engage with life science companies around the Bay Area, meet inspiring women leaders, and build meaningful relationships with committee chairs and fellow volunteers. Come learn about our volunteer-based organization and how to get involved in 2018!

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**Palo Alto AWIS, Thursday Evening, Nov. 30, 2017**

Event: Mini Workshop

Topic: "Speaking Up without Freaking Out"

Speaker: Matt Abrahams

Date and Time: Thursday, November 30, 2017, 7- 9 PM

7:00 - 7:25: Networking dinner

7:25 - 7:30: Announcements

7:30 - 9:00: Workshop

Location: Stanford University MSOB X303, 1265 Welch Road, 3rd Floor Stanford, CA 94305

Fees:

Palo Alto AWIS Members: \$5



Pre-registered Non-Members: \$15  
Fee at Door: \$20  
Register at <https://www.brownpapertickets.com/event/3118379>

Do you feel uneasy and nervous when speaking in public?  
Learn proven concepts that help reduce your anxiety and communicate with your audience boldly and authentically.

Join us for this mini-workshop by Matt Abrahams

Speaker Bio

Matt Abrahams is a passionate, collaborative and innovative educator and coach. He teaches Effective Virtual Communication and Essentials of Strategic Communication at Stanford Graduate School of Business. Matt is Co-Founder and Principal at Bold Echo Communications Solutions, a presentation and communication skills coaching company. He is also the author of Speaking Up Without Freaking Out, a book written to help people to present in a more confident and compelling way.

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**AWIS and Boehringer Ingelheim, Thursday Evening, Nov. 30, 2017**

Topic: Women in the Sciences Industry: Executive Company Leaders, Experts, and Decision Makers—An Inspiring Panel Discussion and Networking Eveny  
Date and Time: Thursday, November 30th 2017, 5:00 p.m. - 9:00 p.m.  
5:00 pm Arrivals/Registrations/Networking  
6:00 pm Dinner  
7:00 pm AWIS Announcements  
7:15 pm Panel Discussion  
8:15 pm Q&A, Close  
Location: Boehringer Ingelheim Fremont, Inc., 6701 Kaiser Drive, Fremont, CA 94555  
This is a free event sponsored by Boehringer Ingelheim

Topic Description

Focus on inspiring bold leadership, innovative insights, learn more about getting into industry, building careers, hear about how the panelists overcame challenges, what challenges women (and others) can expect, and general advice to build careers in the Pharma and Biotech industry.

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**WIB, Tuesday Evening, Dec. 5, 2017**

Event: WIB-San Francisco Bay Area's Holiday Party: Recapping a Successful Year!  
Date and Time: Tuesday, December 5, 2017, 6:00 p.m. – 9:00 p.m. PST  
Location: Devil's Canyon Brewing Company, 935 Washington Street, San Carlos, CA 94070  
Contact: WIB-San Francisco Bay Area  
SanFrancisco@WomenInBio.org  
Online registration is available until: 12/4/2017  
Pricing

Members: \$10

Non-Members: \$25

Details and registration at

<http://www.womeninbio.org/events/EventDetails.aspx?id=1030332&group=>

#### Event Description

Join WIB-San Francisco Bay Area chapter members at Devil's Canyon Brewing Company on December 5th to celebrate another phenomenally successful year. Our events in 2017 would not have been possible without the tireless support of our amazing volunteers and sponsors. Let us say, "Thank You," to them and wish WIB continued success!

#### Walk-Ins Accepted?

Walk-ins are not accepted – be sure to register early!

#### Parking Information

- parking lot located next to Devil's Canyon
- plenty of street parking available

#### Public Transit Information

Devil's Canyon Brewing Company is located between the San Carlos and Redwood City Caltrain stations.

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### **Biopharma Consortium with DLA Piper, Tuesday Evening, Dec. 5, 2017**

Topic: "Beyond the Hype: Big Data at Work in Healthcare & Biotech)

Speakers: Gini Deshpande, Ph.D. (Panelist) Founder and CEO of NuMedii, Tara English, MBA (Panelist) Technology Strategy & Partnerships at Kaiser Permanente National IT; Ivana Schnur, M.D., Ph.D. (Panelist) Co-Founder and Chief Medical Officer of Sensely; Mary Wheeler, Ph.D., MBA (Panelist) Chief Business Officer of SirenasMD; Erica Pascal, Ph.D. Esq. (Moderator) Founder of Ingensity IP

Date and Time: December 5, 2017, 5:00 pm

Agenda:

5:00pm | Registration & Networking

6:00pm | Panel event – Q&A

7:15pm | Networking

8pm | Close

Location: DLA Piper | 2000 University Ave, Palo Alto, CA 94303

Pricing

\$25 for early registration thru Friday Nov 17

\$30 for pre-registration thru Mon Dec 4

\$40 for walk-ins

Registration: <http://www.biopharmaconsortium.com/bay-area-events/>

\*ID required at check-in

#### Topic Description

We hear a lot of hype about what big data and analytic tools such as AI, machine learning, deep learning and neural networks can bring to healthcare. But let's talk about what's happening right now. Where are these tools being used? Where are they having the most significant impact and what areas face greater challenges and may lag behind?

Join BPC for a panel discussion of real-world examples of big data analysis and applications. We will examine how these new tools are being applied to drug discovery, in clinical trials, in the clinical setting and by healthcare providers. The panelists will examine the variety of data sources and the different challenges each bring when applied to different sectors of the healthcare and biotechnology ecosystem. For areas that to date have presented greater challenges, the panel will discuss applicable solutions they have enlisted to help move these areas along.

REGISTRATION: <http://www.biopharmaconsortium.com/bay-area-events/>

\*ID required at check-in

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**ASQ Biomedical, Wednesday Evening, Dec. 6, 2017**

Topic: "Modern Approaches To Assessment Of Bio-Compatibility - ASQ Biomedical NCDG December 6, 2017 Roundtable"

Speaker: Audrey Turley, B.S., RM(NRCM), CBA(ASQ), Technical Consultant, Nelson Laboratories, LLC

Moderator: George Marcel, ASQ NCDG

Date and Time: Wednesday, December 6, 2017 from 7:00 PM to 9:00 PM (PST)

Location: Stellartech Research Corporation, 560 Cottonwood Drive, Milpitas, CA 95035

Food: Snacks equivalent to a light meal and beverages are provided at each event at no additional cost.

Email: To be added to or removed from our email list, contact George Marcel ([gmarcel@gmail.com](mailto:gmarcel@gmail.com))

Registration Link: [NCDGDEC2017.eventbrite.com](https://www.eventbrite.com/registration-link/NCDGDEC2017)

ONLY Check or Credit Card accepted at door

Questions: For information about this session, contact George Marcel ([gmarcel@gmail.com](mailto:gmarcel@gmail.com))

Formal discussion and questions will end between 8:30 - 8:45 pm to allow time for networking after the roundtable presentation.

Materials: Handouts provided. Please limit distribution to immediate personal professional use only.

Pricing and registration at [https://www.eventbrite.com/e/modern-approaches-to-assessment-of-bio-compatibility-asq-biomedical-ncdg-december-6-2017-roundtable-tickets-39274852140?ref=enivtefor001&invite=MTMyNTA0NzMvYXVkcmlV5ZXJiZXNAYW9sLmNvbS8w&utm\\_source=eb\\_email&utm\\_medium=email&utm\\_campaign=inviteformalv2&ref=enivtefor001&utm\\_term=attend](https://www.eventbrite.com/e/modern-approaches-to-assessment-of-bio-compatibility-asq-biomedical-ncdg-december-6-2017-roundtable-tickets-39274852140?ref=enivtefor001&invite=MTMyNTA0NzMvYXVkcmlV5ZXJiZXNAYW9sLmNvbS8w&utm_source=eb_email&utm_medium=email&utm_campaign=inviteformalv2&ref=enivtefor001&utm_term=attend)

**Event Description**

Topic: This presentation will provide an overview of the most recent updates to the ISO 10993 series, FDA guidance documents touching biocompatibility, and expected changes coming up for EU and CE marks. The overarching strategy for biocompatibility evaluation in light of this rapidly shifting landscape will be outlined, with an emphasis on utilizing a risk-based approach that reduces both cost and testing burden while simultaneously providing enhanced patient safety.

- Updates to guidance documents that emphasize using a risk-based approach to biocompatibility
- Options and strategies to address biocompatibility with an emphasis on different classes of devices

- Examples of where material assessment has dramatically reduced testing burden

Speaker Bio

Audrey Turley has 20 years of experience working in research, laboratory, and test design functions in the medical device industry. She is a biocompatibility expert having performed all the in vitro tests offered at Nelson Laboratories, which include cytotoxicity (MEM and agar overlay), hemolysis (PTT, PT, complement activation, blood circulation, ASTM and NIH methods), and genotoxicity (Ames and chromosome aberration). Audrey is part of a team at Nelson Laboratories that recently completed round robin testing for an in vitro irritation assay in an effort to gain acceptance by regulatory bodies in the United States and Europe.

Audrey is an active committee member of many working groups with the Association for the Advancement of Medical Instrumentation (AAMI):

- BE/WG 06 – Mutagen, carcinogen, reproduction toxicity
- BE/WG 07 – Systemic toxicity
- BE/WG 08 – Irritation and sensitization
- BE/WG 10 – Implantation
- BE/WG 11 – Allowable limits for leachable substances

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**PBSS Workshop, Monday, Dec. 11, 2017**

Event Name: Clinical Pharmacology & Modeling Strategies for your Drug Development Program: Fundamentals, Best Practices and Real World Applications

Speakers: David Lau (Foresee Pharmaceuticals), Geoff Banks (Nuventra), Mark Sale (Nuventra), Lauren Lohmer (Nuventra)

Date and Time: Monday, Dec. 11, 2017, 8:45-17:00

Preliminary Agenda

8:45 – 9:00 Welcome and Intro

9:00 – 10:30 – David Lau (Senior Vice President, NCE Preclinical and Clinical Development, Foresee Pharmaceuticals)

Purpose of Clin Pharm Studies in Drug Development

Type of Clin Pharm studies (SAD, MAD, BA/BE, DDI, Disease population, QT, etc)

- What are these studies
- When to do the studies
- Typical study design
- Examples

10:30 – 11:00 – Break and Vendor Presentation

11:00 – 12:30 – Geoff Banks (CEO, Nuventra)

How to Form a Clin Pharm Strategy for your NDA / BLA

- What studies you do & don't need
- "Gap analysis" in your program
- Real world examples

12:30 – 1:30 – Lunch

1:30 – 3:00 – Mark Sale (Senior Vice President, Pharmacometrics, Nuventra)

Modeling & Simulation / Population PK Fundamentals

- What is it?
- How do you do it?
- Allometric scaling
- How do you use it for safety and efficacy?

3:00 – 3:30 Break and vendor presentation

3:30 – 5:00 – Mark Sale and Lauren Lohmer (Manager, Clinical Pharmacology, Nuventra)

## Using Modeling & Simulation to Avoid Clinical Trials

- Overview and case studies:
  - CQT
  - Exposure response
  - Additional DDI studies
  - Special population studies
  - Renal impairment

Location: SF Bay Area: Foster City Crowne Plaza

Registration fee (US\$): Academic: \$125; Regular: \$195; For unemployed or students: \$30;

For major-sponsor rep (incl lunch): \$0; For vendor-show rep: \$35;

Details and registration at <http://www.pbss.org/asp/eventInfo.aspx?eID=557>

Registration deadline: 12/8/2017 (it will close sooner if the seating cap is reached)

This is a friendly reminder that you have not registered for the following Workshop . If you plan to attend, please register at [www.pbss.org](http://www.pbss.org) before it is closed (it may close BEFORE the deadline if the seating capacity is reached early).

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### **QB3, Wednesday Afternoon, Dec. 13, 2017**

Topic: "Synbio from Chemistry to Couture"

Speaker: Dan Widmaier, Co-Founder and CEO, Bolt Threads

Date and Time: Wednesday, December 13, noon to 1:00 pm

Location: Byers Auditorium, Genentech Hall, UCSF Mission Bay

Fees: \$10 General Admission

Details and registration at [https://www.eventbrite.com/e/qb3-seminar-dan-widmaier-ceo-bolt-threads-synbio-from-chemistry-to-couture-tickets-38414463695?mc\\_cid=2acb16b329&mc\\_eid=cb4c38a44a](https://www.eventbrite.com/e/qb3-seminar-dan-widmaier-ceo-bolt-threads-synbio-from-chemistry-to-couture-tickets-38414463695?mc_cid=2acb16b329&mc_eid=cb4c38a44a)

#### Topic Description

How did Dan Widmaier, CEO of synbio company Bolt Threads, end up backstage in Paris at Stella McCartney's Spring 2018 Ready-to-Wear runway show?

Bolt has had the most remarkable trajectory of any company in the QB3 network. Widmaier (CEO), David Breslauer, and Ethan Mirsky launched Bolt in 2010 at the QB3 Garage@UCSF to develop synthetic spider silk based on their graduate research. Initially they aimed at military applications, but soon pivoted to the fashion industry.

Under Widmaier's leadership, Bolt has raised multiple rounds of funding, acquired NYC's Best Made, and partnered with Patagonia. Bolt is now front and center of the green fabric fashion movement. Wednesday, December 13 at UCSF Mission Bay, Widmaier will tell the inside story of Bolt's founding and growth, and answer your questions. Join us for what is sure to be a terrific event.

#### Speaker Bio

Dan is fascinated by finding the right conditions to grow things, whether he's cultivating the broccoli in his vegetable garden, yeast in his microbrews or the people at Bolt Threads. He's carefully tended our growth since 2009, using his passion and expertise to lead the company through technology development, expansion, and financing. He earned his Ph.D. in Chemistry and Chemical Biology from UC San Francisco, where his graduate research involved designing genetic circuits to control microbial organelles. He's also passionate about the growth of something over which he has less control: the progress of the Seattle Seahawks.

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**PBSS, Monday, Jan. 22, 2017**

Event: Workshop: Preclinical development & IND/CTA Filing  
Speakers: Tracy Chen, Jim Zhang, Peter Staehr, Anne Bonneville, Xingrong Liu  
Date and Time: 1/22/2018, 8:30-17:00  
Location: SF Bay Area: Foster City Crowne Plaza  
Registration fee (USD): Regular: \$195; Academic: \$125; For unemployed or students: \$30;  
Registration: <http://www.PBSS.org>  
Registration deadline: 1/22/2018 (it will close sooner if the seating cap is reached)  
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**JLABS, Thursday Morning, Jan. 25, 2017**

Topic: "Who's Who in 2018: A Strong Finish to 2017 Healthcare Investing?"  
Speaker: Jonathan Norris | Managing Director, Silicon Valley Bank  
Date and Time: Thursday, January 25, 2018 from 8:00 AM to 10:00 AM (PST)

Agenda:

8:00 AM | Registration, Breakfast & Networking  
8:30 AM | Presentation - Q&A  
9:30 AM | Networking  
10:00 AM | Program Close

Location:

JLABS @ SSF  
329 Oyster Point Blvd - 3rd Floor  
South San Francisco, CA

Fees:

\$12 | General Public  
\$8 | Student/Academic  
\$25 | At the door

Details and registration at <https://www.eventbrite.com/e/whos-who-in-2018-a-strong-finish-to-2017-healthcare-investing-tickets-36706212269?aff=weekly>

Event Details

2017 saw a banner first half, driven in part by advancements in artificial intelligence and machine learning for healthcare applications and a surge in Series A investments. With 2017 in the review mirror, Jon Norris takes a look at – and makes sense of – the past trends to provide an informed look into 2018.

As the 2018 investment market takes shape, what can we expect for the IPO and M&A markets? Jon will share his expertise and provide insight into:

How the 2017 healthcare landscape compares to previous years

Current and total healthcare and sector investments

Which Biopharma indications attracted the most funds

Which venture firms are most active

Changes in the past crossover phenomenon

Exits: the trends in IPOs and M&A's

At the end of this talk you should be informed as to who is investing, and the type of deals and exits that are likely to be executed in 2018.

Presenter's Biography:

Jonathan Norris | Managing Director, Silicon Valley Bank

Jon Norris is a managing director for SVB's Healthcare practice. Norris oversees business development efforts for banking and lending opportunities as well as spearheading strategic relationships with many healthcare venture capital firms. He also helps SVB Capital through sourcing and advising on direct equity co-investment and limited partnership allocations.

In addition, he has authored numerous thought leadership pieces examining the flow of capital into healthcare, including detailed analysis of venture-backed M&A and IPOs. Norris has more than thirteen years of banking experience working with life science companies and venture capital firms.

Norris earned a bachelor's degree in business administration from the University of California, Riverside and a juris doctorate from Santa Clara University.

About Jon Norris spends most of his non-banking time with his family in Los Altos, attending and coaching many youth sports. An avid baseball fan, he still plays baseball in a men's baseball league in San Jose.

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**JLABS, Thursday Morning, Feb. 2, 2018**

Event: "Meet With...Versant Ventures"

Speakers: Graham G. Walmsley | Investment Professional, Versant Ventures and Lev Osherovich | Director of Innovation Sourcing, Versant Ventures

Date and Time: Thursday, February 1, 2018 from 10:30 AM to 1:00 PM (PST)

Agenda:

10:30AM | Registration and Networking

11:00 AM | Presentation and Q&A

12:00 PM | Networking Lunch

1:00-5:15 PM | One-on-One Meeting\* (30 - minute meetings)

\*Companies must have applied for a one-on-one meeting ahead of time and been approved. Applications are due January 4, 2018. Apply Here.

Location: Johnson & Johnson Innovation, JLABS, 329 Oyster Point Blvd, 3rd Floor South San Francisco, CA

Fees:

Presentation

\$25 | General Public

\$35 | Onsite

Details and registration at <https://www.eventbrite.com/e/meet-with-versant-ventures-tickets-36705327623?aff=weekly>

One-on-One Meeting

FREE | Application

FREE | Accepted Companies

Apply to meet one-on-one with Graham Walmsley of Versant Ventures. Your application will be reviewed and you will be notified of acceptance on Wednesday, January 18th, 2018. Acceptance of a one-on-one meeting is not guaranteed as all applications must be approved.

Event Details

Committed to transforming the healthcare landscape through innovation, Versant Ventures is eager to help you make an impact in healthcare. Graham Walmsley, MD, Ph.D. and Lev Osherovich, Ph.D. of Versant Ventures will be visiting JLABS @ SSF on

February 1, 2018 to provide an overview of Versant's unique investment strategies and meet 1-on-1 with pre-selected companies.

\*The one-on-one application process is separate from the event registration process. Companies must have applied for a one-on-one meeting ahead of time and been approved. Applications are due by January 4th. [Apply Here](#).

#### Program Overview:

Versant Ventures is a leading healthcare investment firm committed to helping exceptional entrepreneurs who are building the next generation of great healthcare companies. The firm invests across the healthcare sector and at all stages of company development, with an emphasis on the discovery and development of novel therapeutics. With \$2.3 billion under management and offices in North America and Europe, Versant has built a team with deep investment, operating, and scientific expertise that enables a hands-on approach to company building. Since the firm's founding in 1999, nearly 70 Versant companies have achieved successful acquisitions or IPOs.

Graham Walmsley, MD, Ph.D. and Lev Osherovich, Ph.D. will be in attendance to provide an overview presentation of their firm's area of interest. They will be on hand to meet with a handful of applicants 1-on-1 after the presentation. To be considered for a 1-on-1 meeting complete the information required here. Applications due by January 4, 2018.

#### Speakers' Biographies:

Graham G. Walmsley | Investment Professional, Versant Ventures

Graham G. Walmsley, M.D., Ph.D. is an Investment Professional at Versant Ventures focused on biotechnology and healthcare investments. Graham joined Versant after completing his training as a Physician Scientist Fellow at Stanford University School of Medicine. At Versant, Graham helped build and launch BlueRock Therapeutics, a regenerative medicine company formed in collaboration with Bayer through one of the largest series A investments (\$225M) in biotech history.

Graham received his M.D. and Ph.D. in Stem Cell Biology and Regenerative Medicine from Stanford University and earned his B.A. in Molecular and Cell Biology with summa cum laude honors from the University of California, Berkeley. He conducted his thesis work in the laboratories of Irving Weissman and Michael Longaker with a focus on regenerative medicine, stem cells, and therapeutic approaches to fibrosis. This work was featured in TIME Magazine and resulted in several patents as well as over 60 peer-reviewed publications in journals such as Science and Cell.

Lev Osherovich | Director of Innovation Sourcing, Versant Ventures

Lev Osherovich, Ph.D. is Director of Innovation Sourcing at Versant Ventures, where he focuses on early stage therapeutic investment. Lev trained in Molecular and Cell Biology at UC Berkeley (undergraduate) and in Biochemistry at UCSF, and completed postdoctoral training at University of Kent at Canterbury and UCSF. After leaving academia, he worked as a biotech industry analyst and science journalist at BioCentury and Nature Publishing Group. Since 2014, Lev has worked at Versant and



its discovery engine, Inception Sciences, to evaluate academic research with translational potential and to create new portfolio companies.  
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**JLABS, Tuesday Morning, Feb. 6, 2018**

Topic: "The Art and Science of Productive FDA Meetings"  
Speaker: Ron Farkas, MD PhD, Vice President, Technical, PAREXEL Consulting  
Tuesday, February 6, 2018 from 10:30 AM to 1:00 PM (PST)

Agenda:

- 10:30 AM | Registration & Networking
- 11:00 AM | Presentation
- 11:40 AM | Q&A
- 12:00 PM | Networking Lunch
- 1:00 PM | Program Close

Location: JLABS @ SSF, 329 Oyster Point Blvd - 3rd Floor, South San Francisco, CA  
Fees:

- \$25 | General Public
- \$10 | Student/Academic
- \$35 | At the door

Details and registration at <https://www.eventbrite.com/e/the-art-and-science-of-productive-fda-meetings-tickets-37017978771?aff=weekly>

Event Details

Getting solutions to patients can be a long and complicated process. Working with the FDA is a key part of the sequence. Preparing for and understanding the FDA's needs is essential to smooth the way and shorten your time to approval.

Johnson & Johnson Innovation, JLABS is happy to be hosting Ron Farkas, MD PhD, Vice President, Technical, PAREXEL Consulting, to discuss the ins and outs of FDA meetings. Ron will pull from his vast experience which includes a decade plus run at the FDA to help guide us through these vital interactions. Topics will include:

- Understanding the FDA's position; not just what it wants but why
- What to agree on now and later; What does agreement mean?
- The key to proceed
- Understanding the dynamics within the FDA
- Flexibility and norms and what they mean
- Experts, Patients and Advocates at Meetings
- Meeting minutes and follow up

Understanding the process will help you better prepare for your meetings and build confidence in and ability to adjust your own plan. Come prepared with your questions!

Speaker Bio

Ron Farkas | Vice President, Technical, PAREXEL Consulting  
Dr. Ronald Farkas is a senior regulatory professional with over 15 years of experience in all phases of drug development from preclinical development through marketing application, advisory committee meetings, labeling negotiations, and the post-approval period. Dr. Farkas has in-depth cross-disciplinary expertise in clinical safety and efficacy, clinical pharmacology and pharmacogenomics, preclinical development, statistical analysis, and biomarker/surrogate endpoint development and utilization.

Dr. Farkas uses his extensive scientific, drug development and regulatory experience to assist clients in negotiating with regulatory authorities across the entire product life cycle to achieve their company objectives.

Prior to joining PAREXEL, Dr. Farkas was a Cross-Disciplinary Team Leader at FDA in CDER's Division of Neurology Products, with prior assignments to the Office of New Drugs Guidance and Policy Team and the CDRH Office of Device Evaluation. Prior to joining the FDA, Dr. Farkas was an assistant professor and attending surgeon at the Johns Hopkins University Wilmer Ophthalmic Institute.

Dr. Farkas completed residency training in ophthalmology at the Harvard University School of Medicine Massachusetts Eye and Ear Infirmary, subsequent to earning dual MD and PhD degrees in neuroanatomy and neuropharmacology from the University of Illinois at Chicago School of Medicine.

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**PBSS, Thursday, Feb. 22, 2017**

Event: Workshop Metabolite Detection Identification and Qualification for Drug Development

Speakers: S. Cyrus Khojasteh, Bill Fitch, Shichang Miao, Ryan Takahashi, Raju Subramanian, Shuguang Ma

Date and Time: 2/22/2018, 8:30-17:00

Location: SF Bay Area: Foster City Crowne Plaza

Registration fee (USD): Regular: \$195; Academic: \$125; For unemployed or students: \$30; For vendor-show rep: \$35; For major-sponsor rep (incl lunch): \$0; Registration deadline:2/22/2018 (it will close sooner if the seating cap is reached)

Register at <http://www.pbss.org/asp/login01.aspx?iURL=>

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**PBSS Workshop, Monday, March 12, 2017**

Topic: "Clinical Trials Essentials: An Intensive One-Week Course (register for the full week or half day sessions)"

Speakers: Edward Rozhon, Mike Huston, Narinder Singh, Gerri O'Riordan, Pete Shabe, Savita Sinha, Clarisa Tate, Frances Ann McKenney

Date and Time: 3/12/2018, 8:30-17:30

Registration fee (USD): One-week full course: \$1865; Mon AM: Drug Development Process: \$200; Mon PM: Science of Clinical Trials Design: \$200; Tue AM: GCP & ICH Investigator & Clinical Research Site: \$200; Tue PM: Global Clinical Trials Perspective & Applied Statistics in Clinical Trials: \$200; Wed AM: Monitoring Clinical Trials: \$200; Wed PM: Medical Devices: \$200; Thur AM: Clinical Data Management: \$200; Thur PM: Clinical QA/Compliance Audits and the FDA: \$200; Fri AM: Good Manufacturing Practices and the Transition to Full Scale Manufacturing: \$200; Fri PM: Business of Clinical Research; Study Site Perspective: \$200;

Location: SF Bay Area: Foster City Crowne Plaza

Registration: <http://www.PBSS.org>

Registration deadline:3/9/2018 (it will close sooner if the seating cap is reached)

Topic Description

Clinical Trials Essentials: An Intensive One-Week Course

A joint course between UCSC Extension Silicon Valley and Pharmaceutical and Bio Science Society -- San Francisco

Monday March 12, 2018 – 8:30 am—12:30 pm

Drug Development Process 4 hours – Edward Rozhon

Major players in drug development  
Assay development and discovery of new medical entities  
Non clinical and clinical development of new drugs  
History and regulatory oversight of FDA  
Structure of Phase I, II, & III clinical trials  
FDA review of New Drug Application.  
Monday March 12, 2018 – 1:30 pm—5:30 pm

Science of Clinical Trials Design 4 hours – Mike Huston

Phases of drug development  
Objectives of clinical studies  
Basic clinical trials designs  
Underlying science for clinical trials designs.  
Tuesday March 13, 2018 – 8:30 am—12:30 pm

GCP & ICH Investigator & Clinical Research Site 4 hours – Narinder Singh

Historical and legislative roads to Good Clinical Practices (GCP)  
Principles of GCP and the research-care conflict  
Role of various stakeholders in Clinical Trials  
Elements of informed consent.  
Tuesday March 13, 2018 – 1:30—3:00 pm

Study Site Perspective 1.5 hours – Gerri O’Riordan

Translational research in an academic center: fundamental strengths and weaknesses  
Research Process and Operations management as the success of a trial  
Essential conversations between academia, biomedical and pharmaceutical companies, venture capitalists and consultants  
Data Integrity and well-supported metrics (Case Studies).  
Tuesday March 13, 2018 – 3:15 pm—5:30 pm

Applied Statistics in Clinical Trials 2.25 hours – Pete Shabe

The role statistics plays in clinical research  
Basic data summarization techniques  
Estimation and Hypothesis Testing Introduction  
Estimation and Confidence Intervals  
Statistical Hypothesis Testing.  
Wednesday March 14, 2018 – 8:30 am—12:30 pm

Monitoring Clinical Trials 4 hours – Savita Sinha

Review the basic regulatory requirements of monitoring a clinical research study  
Describe the tasks that should be performed before, during, and after a monitoring visit  
Learn how to track all key parameters involved in monitoring a site  
Know how to complete visit reports and follow-up on action items after each site visit.

Wednesday March 14, 2018 – 1:30 pm—5:30 pm

Medical Devices, An Overview 4 hours – Clarisa Tate

What is a medical device, a general overview of regulations  
Medical devices regulatory pathways: 510(k), PMA, and HDE  
Medical device clinical trials: Focus on Investigational Device Exemptions  
Post-market surveillance: Focus on 522, complaints, and recalls  
Globalization and changing regulatory environment.  
Thursday March 15, 2018 – 8:30 am—12:30 pm

Clinical Data Management 4 hours – Instructor TBA

Key data management activities for study startup, conduct, and closeout  
Regulations applicable to data management activities  
Clinical data management systems and electronic data capture (EDC)  
Working with contract research organizations (CROs) for data management.  
Thursday March 15, 2018 – 1:30 pm—5:30 pm

Clinical QA/Compliance Audits and the FDA 4 hours – Frances Ann McKenney

Qualifications needed for GXP auditors and FDA Inspectors  
Objectives of sponsor audits and regulatory inspections  
Similarities and differences between sponsor audits and regulatory inspections  
General approach to hosting an audit or inspection  
Types of findings that cause concern for auditors or inspectors.  
Friday March 16, 2018 – 8:30 am—12:30 pm

Good Manufacturing Practices and regulatory trends 4 hours – Narinder Singh

Good Manufacturing Practices (GMP) for drugs  
GMP for biologics and related products, including Good Tissue Practices  
Considerations for Quality Systems.  
Friday March 16, 2018 – 1:30 pm—3:00 pm

Global Clinical Trials Perspective 1.5 hour – Narinder Singh

Trends in global clinical trials.  
Role of FDA and local regulatory culture.  
Friday March 16, 2018 – 3:15 pm—5:30 pm

Business of Clinical Research 2 hours – Mike Huston

The Market Players – Pharma, Biotech, Contract Research Organizations (CROs)  
Cost of Doing Business – Cost of conducting clinical research  
Outsourcing and CROs – It costs money to make money  
Innovative Ways to Reduce Cost – Business Strategies and Process Innovations.  
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**JLABS, Thursday Mid Day, March 29, 2018**

Event: Meet With... Frazier Healthcare Partners  
Speakers: James W. Brush, M.D. | Senior Associate, Frazier Healthcare Partners and  
Patrick Heron, MBA | Managing General Partner, Frazier Healthcare Partners

Date and Time: Thursday, March 29, 2018 from 10:30 AM to 1:00 PM (PDT)

Agenda:

10:30AM | Registration and Networking

11:00 AM | Presentation and Q&A

12:00 PM | Networking Lunch

1:00-5:15 PM | One-on-One Meeting\* (30 - minute meetings)

\*Companies must have applied for a one-on-one meeting ahead of time and been approved. Applications are due February 22,, 2018. Apply Here.

Location: JLABS @ SSF, 329 Oyster Point Blvd - 3rd Floor, South San Francisco, California

Fees:

Presentation

\$25 | General Public

\$35 | Onsite

One-on-One Meeting

FREE | Application

FREE | Accepted Companies

Apply to meet one-on-one with Jamie Brush of Frazier Healthcare Partners. Your application will be reviewed and you will be notified of acceptance on March 13th. Acceptance of a one-on-one meeting is not guaranteed as all applications must be approved.

Details and registration at <https://www.eventbrite.com/e/meet-with-frazier-healthcare-partners-tickets-36705859213?aff=weekly>

Event Description

With over 26 years of exclusively investing in over 170 healthcare companies, Frazier Healthcare Partners has a great deal of experience building successful life science businesses. On March 29, 2018, Jamie Brush MD, and Patrick Heron, MBA will be visiting JLABS @ SSF to provide an overview of Frazier Healthcare Partners' unique investment strategies and meet 1-on-1 with pre-selected companies.

\*The one-on-one application process is separate from the event registration process. Companies must have applied for a one-on-one meeting ahead of time and been approved. Applications are due by February 22nd. Apply Here.

Program Overview:

Frazier Healthcare Partners is committed to helping great healthcare companies who are working hard to make a difference in the future of life sciences. The firm has partnered with exceptional entrepreneurs at all stages and focuses on therapeutic development. With \$3 billion under management, investments in over 170 companies and 35 IPOs, Frazier Healthcare Partners has built a team with deep knowledge and scientific expertise that enables company building.

Jamie Brush, MD and Patrick Heron, MBA will be in attendance to provide an overview presentation of the firm's areas of interest. They will be on hand to meet with a handful of applicants 1-on-1 after the presentation. To be considered for a 1-on-1 meeting, please complete the information required here. Applications due by Feb 22, 2018.

Speakers' Biographies:

James W. Brush, M.D. | Senior Associate, Frazier Healthcare Partners  
Jamie joined Frazier Healthcare Partners in 2016 and focuses on investment identification, due diligence, and deal closing.

Before joining Frazier, Jamie was a management consultant with the Boston Consulting Group, where he was a core member of the Healthcare Practice. In this capacity, he led projects involving Biotechnology mergers and acquisitions, R&D, manufacturing and business development strategy.

Jamie received his M.D. from the University of Southern California, where he was inducted into Alpha Omega Alpha honors society, and his B.A. from Middlebury College. He completed his postgraduate training in Internal Medicine at Beth Israel Deaconess Medical Center in Boston. He has co-authored several papers in top-tier journals on genomic instability and its role in cancer, and is a member of the board of directors of Longwood Symphony Orchestra.

Patrick Heron, MBA| Managing General Partner, Frazier Healthcare Partners

Patrick is a Managing General Partner of Frazier's Life Sciences team. He joined the firm in 1999 and opened Frazier's Menlo Park office in 2003. Throughout his 12 years as General Partner, Patrick has led or co-led investments across nearly 20 companies.

Patrick has successfully partnered with entrepreneurs across a range of company types and stages, from early – stage anti-infectives companies to >\$100M commercial-stage dermatology companies. Patrick has also been active in company formation around both early – and later – stage assets. He has led and served as director for many successful Frazier Life Sciences investments, including Tobira Therapeutics (acquired by Valeant), MedPointe (acquired by Meda), and Collegium (NASDAQ: COLL). He currently serves on the boards of Imago BioSciences, Iterum Therapeutics, Silvergate Pharmaceuticals, SutroVax and Zavante Therapeutics.

Prior to joining Frazier, Patrick helped develop McKinsey & Company's West Coast biotechnology consulting practices, where he led projects involving mergers and acquisitions, product launches, sales force optimization, corporate partnering, and research prioritization.

Patrick received his M.B.A. from Harvard Business School. He also holds a B.A. from the University of North Carolina at Chapel Hill, where he is a Phi Beta Kappa graduate and Morehead Scholar.

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**PBSS Workshop, Tuesday Afternoon, April 24, 2017**

Topic: "Regulatory Authority Inspection Preparation and Outcomes"

Speakers: Kim Burson (Achaogen)

Date and Time: Tuesday, 4/24/2018, 12:30-17:00

Location: SF Bay Area: Foster City Crowne Plaza

Registration fee (USD): Regular: \$125; Academic: \$75; For unemployed or students: \$25; For vendor-show reps: \$25; For major-sponsor rep (incl lunch): \$0;

Registration: <http://www.PBSS.org>

Registration deadline:4/24/2018 (it will close sooner if the seating cap is reached)