

## CAMLT 2017 SPRING SEMINAR SOUTH GENERAL INFORMATION

\* CAMLT wishes to thank Kaiser Regional Laboratory as venue sponsor for this seminar.

Visit [www.camlt.org/edu\\_calendar](http://www.camlt.org/edu_calendar) for complete abstracts/objectives

**Advance Registration:** You have the best opportunity of securing a seat in your "first choice" sessions if you register early. Registration fees may be paid by check, VISA, MasterCard or money order. Sorry, American Express and Discover cards are not accepted.

**Pre-registration Deadline: Thursday, March 9, 2017 at Noon.** Registrations received after above date/time will not be processed. To register on-site, arrive at least 40 minutes prior to the beginning of your first class. On-site registrations will be accepted subject to space availability.

**Registration Fees: Note ... No CE price increase from 2016 rates!**

A standard \$10 registration fee applies to all individuals.

### **Additional fees:**

**CAMLT Members: \$45 per workshop**

**Non-Members: \$75 per workshop**

**Students: Free workshops!**

**Non-Members:** Become a CAMLT member and save! If you join CAMLT at the time of registration, you may apply the difference between member and non-member fees toward your annual membership dues. For further details, contact CAMLT at 510-792-4441. You may also go to <http://camlt.org/membership/registration> to join online or download a membership application.

### **Payment:**

#### **Make checks payable to CAMLT and mail to:**

CAMLT  
39656 Mission Boulevard  
Fremont, CA 94539-3000

#### **Or fax credit card registrations to:**

510-792-3045

**Or scan/email registration form to: [office@camlt.org](mailto:office@camlt.org)**

**Lunch:** Lunch is not included with the seminar. You may purchase lunch at nearby restaurants or bring your own.

**Hotel Room Block: Not negotiated for this seminar**

**Disclaimer:** CAMLT hereby disclaims any liability for, or endorsement of, any products, services or information presented.

**Attendance Policy:** Choice of workshops may NOT be changed on-site. In compliance with state accreditation requirements, participants must attend the entire workshop to receive credit. Partial credit cannot be awarded for late arrivals or early departures. Excessive absences from a workshop for any circumstance may result in forfeiture of CE credit. NO EXCEPTIONS.

**Accreditation:** CAMLT is approved by the California Department of Public Health as a CA CLS/MLT/CPT Accrediting Agency (#21) for Continuing Education and by the State of Nevada, Bureau of Licensing, and Certification.

**Refund Policy:** CAMLT reserves the right to cancel any program with insufficient registration. Registrants will be immediately notified and will receive a complete refund for programs cancelled by CAMLT. There may be changes in program content or faculty due to circumstances beyond our control. CAMLT is not responsible for penalties incurred as a result of cancellation, including non-refundable transportation fees and hotel room deposits.

**Cancellation Policy:** For a full refund (less \$10 fee) written notice must be postmarked or faxed by February 25, 2017. Written cancellations postmarked or faxed after this date will be issued a full CREDIT (less a \$25 cancellation fee) toward a future CAMLT state seminar or convention. No refunds or credits after March 9, 2017.

### **Location Information:**

#### **Spring Seminar South:**

**Kaiser Permanente Regional Reference Laboratory  
11668 Sherman Way  
North Hollywood, CA 91605**

**Parking:** free in Kaiser parking lot. Access to the parking lot is gate controlled. Press the button to have the gate opened. Park closest to the "East" Building – 66. The classrooms are in the first building on the left as you enter the gate.

**Note:** No part of the seminar handouts or presentation (no tape, video or digital recorders please) may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recorded, or otherwise, without prior written permission from CAMLT.

# REGISTER NOW for CAMLT's 2017 Spring Seminar South

Location: Kaiser Permanente Regional Reference Laboratory - 11668 Sherman Way, North Hollywood, CA

\* Venue proudly sponsored by Kaiser Regional Laboratory \*

We are pleased to have the following speakers join us:

## 2017 SPRING SEMINAR SOUTH – SCHEDULE-AT-A-GLANCE (Complete abstracts/objectives online: [www.caml.org/calendar](http://www.caml.org/calendar))

Saturday, March 18, 2017 ~ Registration – 7:30 – 8:30 a.m.

**171-100 (3.0 CE) - Morning: 8:30 – 11:30 a.m. – (Note: you must attend all three parts to receive credit)**

Linda C. Rogers, PhD, DABCC, FACB | Senior Clinical Consultant, Scientific & Clinical Affairs |

Siemens Healthcare Diagnostics

**Part I: The Role of Tumor Markers in the Management of Cancer in Women**

**Part II: Update on the Diagnosis and Management of Thyroid Disorders**

**Part III: Cardiac Troponin: Impact of Assay Performance on Patient**

**Level (all three parts): Intermediate | Sponsor: Siemens Healthcare Diagnostics**

**Abstract (Part I):** Breast, ovarian, and thyroid cancer are common causes of cancer diagnoses among women. This presentation will define the risk factors, clinical presentation, and diagnosis of these cancers. The role of tumor marker assays will be explained in the management of each type of cancer. Hematologic complications will also be described.

**Objectives (Part I):** Upon completion of this course, the participant will be able to: 1) list the current immunoassay tumor markers for breast, ovarian, and thyroid cancer and explain their utilization; 2) recognize the potential hematologic complications of cancer; and 3) describe the clinical utilization of HER-2/neu in metastatic breast cancer.

**Abstract (Part II):** Abnormal secretion of thyroid hormones or the associated feedback mechanisms may cause a myriad of disorders. This presentation will begin with a review of the basic anatomy and physiology of the thyroid gland. An overview of the feedback mechanisms of the hypothalamic-pituitary-thyroidal axis will provide a basis for understanding thyroid disorders. The clinical presentation and laboratory's important role in the diagnosis and management of thyroid disorders will be presented. Autoimmune disorders of the thyroid will be discussed, introducing an immunoassay for thyroid stimulating immunoglobulin (TSI) important in the diagnosis of Grave's Disease.

**Objectives (Part II):** Upon completion of this course, the participant will be able to: 1) define hypothyroidism and hyperthyroidism and describing the common clinical presentations and the general laboratory diagnosis of each; 2) recognize and describe the differences in the reference ranges of key thyroid tests in pediatric patients and pregnant women; and 3) describe Grave's Disease and the utilization of the thyroid stimulating antibodies (TSI) assay in its diagnosis and management.

**Abstract (Part III):** Patients presenting with the chief complaint of chest pain or chest discomfort need to be assessed for an acute myocardial infarction (MI) vs. other causes of chest pain, such as gastric upset, pulmonary embolism, muscle pain, etc. It is vital that this assessment be made as quickly and accurately as possible to make sure the patient receives the best possible care. This presentation will discuss how a sensitive cardiac troponin assay is used as the diagnostic aid for MI. High sensitive troponin assays will be defined and the advantages and disadvantages of these assays will be discussed.

**Objectives (Part III):** Upon completion of this course, the participant will be able to: 1) explain the importance of troponin values in the diagnosis of MI, according to the 3<sup>rd</sup> Universal Definition of MI; 2) define "guidance acceptable", "clinically usable", and "high sensitive" troponin assays; and 3) describe how the performance characteristics of a troponin assay affect sampling protocols and the diagnosis of MI.

**171-200 (3.0 CE) - Afternoon: 1:00 - 4:00 p.m. – (Note: you must attend both parts to receive credit)**

James M. Harris, BA | Director, Scientific Affairs | Roche Diagnostics Corporation | Indianapolis, IN

**Part I: Procalcitonin (PCT) Use in Sepsis Management and Antibiotic Treatment Decisions**

**Part II: Women's Health – Biomarkers in Clinical Practice and Future Approaches**

**Level (Parts I & II): Basic | Sponsor: Roche Diagnostics Corporation**

**Abstract (Part I):** With more than 258,000 lives being lost per year, sepsis ranks as the third leading cause of death in the U.S. (after heart disease and cancer). Sepsis has been named as the expensive in-patient cost in American hospitals in 2011 at over \$20 billion each year. Forty percent of patients diagnosed with severe sepsis do not survive. Until a cure for sepsis is found, early detection is the surest hope for survival. In addition, up to 50% of survivors suffer from post-sepsis syndrome. There are biomarkers that can help provide caregivers with great clinical clarity. One such marker is Procalcitonin (PCT), a protein that consists of 116 amino acids, is the peptide precursor of calcitonin, a hormone that is synthesized by the parafollicular C cells of the thyroid and involved in calcium homeostasis. Procalcitonin arises from endopeptidase-cleaved preprocalcitonin.

**Objectives (Part I):** Upon completion of this course, the participant will be able to: 1) recognize the symptoms and discuss the staging of sepsis; 2) evaluate the prognostic value of change (fall) in serum PCT level; 3) define approaches for the use of

biomarkers for diagnosis and treatment; and 4) list procalcitonin measurements and interpretations in clinical practice.

**Abstract (Part II):** The presentation will cover diseases that are specific to female patients (breast- and ovarian cancer) or have a significantly higher prevalence in women (osteoporosis) or are related to pregnancy (preeclampsia). We will discuss the use of biomarkers for screening, diagnosis, therapy monitoring or recurrence testing and how new biomarkers might influence and improve clinical practice.

**Objectives (Part II):** Upon completion of this course, the participant will be able to: 1) describe the prevalence, morbidity, and mortality of diseases that are specific to women; 2) explain the pathology of these diseases; 3) define approaches for the use of biomarkers for diagnosis or patient management; and 4) list new biomarkers for these diseases and their possible role in clinical practice.

**Sunday, March 19, 2017 ~ Registration - 7:30 - 8:30 a.m.**

**171-300 (3.0 CE) - Morning: 8:30 – 11:30 a.m.**

**Alex L. Sterling, BS | Sales Manager, Laboratory Diagnostics | BioFire Diagnostics, LLC | Salt Lake City, UT**  
**What Made Sally Sick? The Use of Multiplex Polymerase Chain Reaction (PCR) Panels as First Line Tests for Detection of Respiratory and Intestinal Pathogens**

**Level: Intermediate | Sponsor: BioFire Diagnostics, LLC**

**Abstract:** Multiplex PCR panel has been available since 2008. Today, numerous PCR panels for detection of several respiratory and gastrointestinal pathogens are commercially available. In the area of testing for an infectious disease, these products have become a disruptive technology in their ability to integrate molecular diagnostics and microbiology. Some of these tests are labor intensive, while others provide simple workflows; all of them are more expensive than standard technique to the laboratory and patient. Many of these assay panels can detect up to 22 pathogens. More confounding to the clinician is how these pathogens can cause similar symptoms, yet lead to different manifestations of infection within the same organ system. While some laboratories and hospitals have limited the frequency at which patients can be tested, others have allowed the ordering provider to exercise clinical judgement as to whether they are appropriate for first-line diagnostic testing.

**Objectives:** Upon completion of this course, the participant will be able to: 1) describe the basic principle behind PCR testing; 2) list the organisms most commonly found on three competing Respiratory and GI panels; 3) state four benefits that define a rapid molecular platform; 4) explain the impact that rapid molecular testing has on Antimicrobial Stewardship; and 5) recognize the limitations and challenges posed by rapid molecular technology.

**171-400 (3.0 CE) – Afternoon – 1:00 – 4:00 p.m.**

**James F. DeMase, BS | Senior National Technical Sales Manager | Precision BioLogic, Inc. | Dartmouth, Nova Scotia, Canada**

**Hemostasis is Unique – The Cascade, the Diseases, and the Tests – All Mixed Up**

**Level: Intermediate | Sponsor: Precision BioLogic, Inc.**

**Abstract:** This session will review the basics of hemostasis in the coagulation lab and enhance the basic understanding of hemostasis and thrombosis, describing the stages of hemostasis as well as common bleeding and clotting disorders. We will define hemophilia, and review its symptoms, diagnosis, and common treatments. The methods and clinical application of mixing studies will be outlined. Case studies will be used throughout the workshop to help attendees relate their learnings to real-world situations.

**Objectives:** Upon completion of this course, the participant will be able to: 1) describe the stages of hemostasis as well as common bleeding and thrombotic disorders; 2) explain the types of hemophilia, symptoms, diagnosis, and common treatments; and 3) relate the methods and clinical application for a mixing study and the steps to perform one.

# 2017 Spring Seminar South – REGISTRATION FORM

March 18 & 19, 2017

Location: Kaiser Permanente SCPMG Regional Reference Laboratory  
11668 Sherman Way  
North Hollywood, CA 91605

Name:

CLS/MLT License / CPT Cert. #:

Home Address:

City, State, Zip:

Day Tel:

Preferred Email:

Employer:

Work Address:

City: State: Zip:

Work Phone:

CAMLT Member?  Yes  No

Member # / Chapter:

If member, do you have 20/20 Option?  Y  N

ATTENTION STUDENTS: Your program coordinator/school counselor must sign/provide email/telephone contact here for acceptance:

(Email / phone)

(Signature of program coordinator/school counselor)

(Accredited program/school)

**FEE SCHEDULE:** Course fees are based upon a base registration fee of \$10.00, plus a fee based upon the number of continuing education units.

**Registration Fee: \$10.00**

+

**Number of workshops** \_\_\_\_\_ x \$ \_\_\_\_\_

(example: 2 x \$45.00 = \$90.00)

Members: \$45.00 per workshop (\$15.00 per unit)

Non-Members: \$75.00 per workshop (\$25.00 per unit)

Student Member: Free workshops (does not include CEUs)

**Less 20/20 Option Discount: \$ - \_\_\_\_\_**

**(If applicable) (Applies only to course fees at this seminar)**

**Total Due: \$ \_\_\_\_\_**

## Check Your Selected Courses – 3.0 CE Each

(Note: if a session is in multiple parts, you must attend entire session to receive credit)

### Saturday, AM – 3/18/17 (8:30 – 11:30 AM) – 3.0 CE

171-100 – Part I: The Role of Tumor Markers in the Management of Cancer in Women; Part II: Update on the Diagnosis and Management of Thyroid Disorders; and Part III: Cardiac Troponin: Impact of Assay Performance on Patient

### Saturday, PM – 3/18/17 (1:00 – 4:00 PM) – 3.0 CE

171-200 – Part I: Procalcitonin (PCT) Use in Sepsis Management and Antibiotic Treatment Decisions; Part II: Women's Health – Biomarkers in Clinical Practice and Future Approaches

### Sunday, AM – 3/19/17 (8:30 – 11:30 AM) – 3.0 CE

171-300 – What Made Sally Sick? The Use of Multiplex Polymerase Chain Reaction (PCR) Panels as First Line Tests for Detection of Respiratory and Intestinal Pathogens

### Sunday, PM – 3/19/17 (1:00 – 4:00 PM) – 3.0 CE

171-400 – Hemostasis is Unique – The Cascade, the Diseases, and the Tests – All Mixed Up

**Method of Payment:** Credit card, check, or money order

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Expiration date: \_\_\_\_\_

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Signature (required for cc processing)

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**CAMLT**

**39656 Mission Boulevard  
Fremont, CA 94539-3000**

- **FAX: 510.792.3045**

- **Scan/email to: office@camlt.org**

**Questions? Contact CAMLT Executive Office:  
510.792.4441**

**Returned checks subject to a \$20 fee**

**Pre-Registration Deadline:  
Thursday, 3/9/2017 at Noon**

**(Registrations received after the above date/time  
will not be processed. Please register on-site.)**