The 11th Biennial Congress of the Anaerobe Society of the Americas

Cynthia L. Sears, M.D.
ASA President
Johns Hopkins University
Baltimore, MD USA

Bennett Lorber, M.D.
ASA Past President
Temple University
Philadelphia, PA USA

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University of Michigan
Ann Arbor, MI

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R.M. Alden Research Laboratory
Culver City, CA USA

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Maywood, IL USA

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Founded in 1992, the Anaerobe Society of the Americas is a non-profit foundation (Tax ID # 95-4388236), serving as a forum for those interested in anaerobes, anaerobic infections, and related matters. Membership is available to anyone with an interest in the field of anaerobes. Membership includes a subscription to the ANAEROBE journal, the ASA newsletter, the ASA E-mail Network, and discount registration for the ASA Congress.

Non-attending ASA members also will receive a copy of the Anaerobe 2012 Abstract Book.

Annual dues are on a variable scale in the categories of Doctoral, Non-doctoral, and Students, based on choice of Anaerobe journal access and duration. Membership can be obtained at the Anaerobe website: www.anaerobe.org.

This activity has been planned and implemented in accordance with the Essentials Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME).

No Physician Continuing Education Units will be issued for this Congress. Attendees may request Certificates of Attendance, free of charge, on the Registration Form for pick up, at the conclusion of the Congress.

Microbiology Educational Services is accredited by the California Department of Health Services to provide continuing education for clinical laboratory scientists.

Microbiology Educational Services designates this educational activity for a maximum of 19 continuing education contact hours upon completion of the program and 14.0 continuing education contact hours upon completion of the workshop. Clinical laboratory scientists should claim only those hours of credit that they actually spent in the educational activity.

Clinical Laboratory Scientist Accreditation

CLINICAL LABORATORY SCIENTIST ACCREDITATION

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About the Anaerobe Society

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Annual dues are on a variable scale in the categories of Doctoral, Non-doctoral, and Students, based on choice of Anaerobe journal access and duration. Membership can be obtained at the Anaerobe website: www.anaerobe.org.

For additional information about the Anaerobe Society or Anaerobe 2012
Web: www.anaerobe.org  E-mail: asa@anaerobe.org  Phone: +310-216-9265
The Anaerobe Society of the Americas (ASA) hosts its 11th biennial Congress—Anaerobe 2012—June 27-July 1, 2012 in San Francisco, CA USA. This event provides a forum for vigorous discussions of both the clinical and microbiological aspects of anaerobic infections, their diagnosis, and their therapy among medical practitioners and researchers by mixing theory and practical applications. The Congress will consist of invited speakers, oral presentations, and poster presentations, representing work by researchers in 28 countries.

The Congress will consist of:

• Pre-Congress Workshop—June 27-28, Santa Clara, CA
• Oral Presentations
• Poster Presentations
• Student Presentation Competition
• Industry Exhibitions
• Congress Banquet & Social Events

TARGET AUDIENCE
Healthcare professionals and researchers in academia, government, and industry from around the world are invited to attend and participate in this Congress to engage in presentations, exchanges, and dialogue on issues related to the study of anaerobes.

- Microbiologists and Laboratory Scientists
- Infectious Disease Physicians
- Gastroenterologists
- Pathologists
- Dentists
- Epidemiologists and Infection Control Practitioners
- Pharmacists
- Nurses
- Public Health Officials
- Veterinarians
- Agricultural Scientists
- Post-Doctoral Fellows
- Students

The Pre-Congress Workshop on Anaerobic Identification and Susceptibility Testing Methods is targeted to clinical microbiology technologists (see below).

CURRICULAR GOALS & OBJECTIVES
Provide information on the latest developments in the field of anaerobic research, including the role of anaerobes in human diseases, the epidemiology of anaerobic infections, and potential prevention strategies.

Provide recommendations in the diagnosis, screening, and treatment of anaerobic infections, including new laboratory techniques, utilization of antibiotics, and potential of probiotics.

Provide an understanding for better utilization of the microbiology lab into the delivery of patient care.

PRE-Congress WORKSHOP

Anaerobic Identification and Susceptibility Testing Methods Workshop
The Pre-Congress Anaerobic Identification and Susceptibility Testing Workshop will be conducted June 27-28, 2012 on the campus of Santa Clara University in Santa Clara, CA. This 2-day course will consist of lecture and hands-on experience, covering both classical and advanced methods for identification and susceptibility testing of anaerobic bacteriology.

On the first day, Classical Techniques for identifying anaerobes based on phenotypic characteristics will be presented by Diane Citron and Mike Cox. These methods will include appearance on gram-stain, growth on selective media, susceptibility to special potency antibiotic disks, preformed enzyme reactions, and classical biochemical reactions. The Anaerobe Educator software program will be used to present test reactions and to allow for active audience participation in the identification of organisms. Susceptibility testing methods include agar dilution, broth microdilution, and Etest.

On the second day, advanced methods to identify isolates will be explored:

MALDI-TOF Mass Spectrometry will be presented by Dr. Elisabeth Nagy, with demonstrations of some of the current technology being developed. The discussion will include limitations of the current databases and progress in their development.

16S rDNA Sequencing will be presented by Kerin Tyrrell, with discussion on the benefits and pitfalls of working with GenBank, a non-curated database. Emphasis will be placed on how to review BLAST results and choose the correct identification, not necessarily the first item on the listing. Attendees will have hands-on computer experience using GenBank and BLAST to identify challenging sequences that will be provided in the workshop. Assessment of the BLAST result listing, linking out from the result listing to individual deposit information, and recognizing various problems that can arise with some sequence deposits will be discussed.

Culture Independent Methods will be presented by Dr. Georg Conrads to investigate the mixed flora present in oral and other invasive infections.

Pyrosequencing will be presented by Laurie Cox and discussed with regard to culture independent determinations of the fecal microbiome, in light of studies that have shown conditions—such as obesity, Crohn’s disease, and autism—are linked to altered microbiome populations.

Registration Fee: $240 — Limited to 55 participants, registration includes course, continental breakfasts, breaks, Wednesday night dinner, and bus transportation to Anaerobe 2012 hotel on Thursday night for Congress registrants. Registrants will be responsible for lunch each day. Each student also will receive a copy of the Anaerobe Educator.

CEU Accreditation: This workshop is accredited for 14 continuing education contact hours for clinical laboratory scientists by Microbiology Educational Services.
**Wednesday-Thursday June 27-28**

**0900-1700 ANAEROBE IDENTIFICATION SUSCEPTIBILITY WORKSHOP**
AT SANTA CLARA UNIVERSITY
Diane M. Citron, Georg Conrads, Ph.D.
Laurie Cox, Mike Cox, Elizabeth Nagy, M.D.
Tracy Ruscetti, Ph.D., Kerin L. Tyrrell

**Thursday June 28**

**0900-1700 CONGRESS REGISTRATION OPENS**

**Friday June 29**

**0700**
REGISTRATION / BREAKFAST / EXHIBITS

**0830-0840 WELCOME**
Cynthia L. Sears, M.D., President, ASA

**0840-0940 KEYNOTE ADDRESS**
Systemic Analysis of Human-Associated Microbes:
Lessons from a Tiny Bacterium and a Large Community
Peer Bork, Ph.D.

**0940-0955 DISCUSSION**

**0955-1015 BREAK / EXHIBITS**

**1015-1145 GASTROINTESTINAL MICROBIOTA & DISEASE**
Moderator: Cynthia L. Sears, M.D.
The Microbiota & Inflammatory Bowel Disease:
Clinical Aspects
Judy Cho, M.D.
The Microbiota & Inflammatory Bowel Disease:
Insights from Disease Models
Deanna Nguyen, M.D.
Fusobacterium & Its Association with Colon Cancer
Robert A. Holt, Ph.D.

**1145-1315 LUNCH / EXHIBITS / COMMITTEE MEETINGS**

**1315-1330 DISCUSSION**

**1330-1445 STATE-OF-THE-ART LECTURE I**
Cultivating the Uncultivable: How Can We Make Progress?
Slava Epstein, Ph.D.

**1445-1600 ORAL MICROBIOTA & DISEASE**
Moderator: Purnima S. Kumar, D.D.S.
Oral Microbiota & Emerging Disease Associations
Emmanuel Mongodin, Ph.D.
The Links Between the Oral Microbiota & Pulmonary Disease
Frank Scannapieco, M.D.

**1600-1715 POSTER SESSION I / EXHIBITS**

**1715-1830 ORAL PRESENTATIONS: MICROBIOTA IN HEALTH & DISEASE**
Moderator: Sydney M. Finegold, M.D.

**SATURDAY JUNE 30**

**0700**
REGISTRATION / BREAKFAST / EXHIBITS

**0800-0845 STATE-OF-THE-ART LECTURE II**
Vaginal Health: Ecology & Disease
Jeanne Marrazzo, M.D.

**0845-0945 POSTER SESSION II / EXHIBITS**

**0945-1045 THE GENITAL MICROBIOTA**
Moderator: David Fredricks, M.D.
Clostridium Vaginal Infections
Brandi Limbago, Ph.D.
Anaerobes in Pelvic Inflammatory Disease:
An Update
Sharon Hillier, Ph.D.

**1045-1100 DISCUSSION**

**1100-1145 STATE-OF-THE-ART LECTURE III**
Fidaxomicin & New Agents in the Treatment of Clostridium difficile Recurrences
Thomas J. Louie, M.D.

**1145-1200 DISCUSSION**

**1200-1315 LUNCH / EXHIBITS**

**ANAEROBE JOURNAL AUTHORSHIP WORKSHOP**

**1315-1445 CLOSTRIDIUM DIFFICILE: PATHOGENESIS, EPIDEMIOLOGY & THERAPY**
Moderators: Dale N. Gerding, M.D.
Development of a Murine Infection Model to Understand Clostridium difficile Disease and Transmission
Trevor D. Lawley, Ph.D.
Community-Associated Clostridium difficile: How Real Is It?
Fernanda Lessa, M.D., M.P.H.
Point-Counterpoint: *Clostridium difficile*: Is it a Food-borne Disease?
Jane Marsh, Ph.D.
J. Glenn Songer, Ph.D.

1455-1500 BREAK

1500-1630 ORAL PRESENTATIONS:
*CLOSTRIDIUM DIFFICILE*
Moderators: Stuart Johnson, M.D.
The Changing Faces of *Clostridium difficile*: A Personal Reflection of the Past 34 Years
Ian Poxton, Ph.D.
Colonization Resistance: Interactions between *Clostridium difficile* and the Indigenous Gut Microbiota
Vincent B. Young, M.D., Ph.D.
Epidemiology of Community-Associated *Clostridium difficile* Infection (CA-CDI): Emerging Infections Program, 2009-2011
Amit Chitnis, M.D.
The Importance of Toxin A in Virulence of an Epidemic *Clostridium difficile* Strain
Sarah Kuehne, Ph.D.
Phenotypic Characterization of *Clostridium difficile* Clinical Isolates
Paul E. Carlson, Jr., Ph.D.
Severe *Clostridium difficile* Associated Diarrhea: Impact of High Dose Vancomycin Therapy
Marina Claros, Ph.D.

1615-1730 CLINICAL FORUM
Unknown Cases
Gonzalo Ballon-Landa, M.D.
Ellen Jo Baron, Ph.D.
Ellie J.C. Goldstein, M.D.

1800 CONGRESS BANQUET RECEPTION:
NIEMAN-MARCUS

1900 CONGRESS BANQUET

SUNDAY JULY 1, 2012

0730 REGISTRATION / BREAKFAST / EXHIBITS

0815-0905 STATE-OF-THE-ART LECTURE IV
Anaerobic Diagnostic Microbiology: *Clostridium difficile* & Beyond
Diane Citron
Is MALDI-TOF MS Superior to Commercially Available Identification Kits for Identification of Anaerobic Bacteria in Routine Laboratories?
Elisabeth Nagy, M.D., Ph.D., D.Sc.

0905-0915 DISCUSSION

0915-1000 POSTER SESSION III / EXHIBITS

1000-1110 OTHER CLOSTRIDIAL INFECTIONS
Moderator: Dennis L. Stevens, M.D., Ph.D.
Botulism: New Aspects
Steve S. Arnon, M.D.
*Clostridium* spp.: Mechanisms of Disease
David M. Aronoff, M.D.

1110-1200 ORAL PRESENTATIONS: CLOSTRIDIUM SPP.
Moderator: Glenn Songer, Ph.D.
Recent Progress in Understanding the Action of *Clostridium perfringens* Enterotoxin
Bruce McClane, Ph.D.
Evidence that the agr Quorum Sensing System is a Regulator of *Clostridium perfringens* Toxin Production and Virulence
Jianning Chen, Ph.D.
Highly Sensitive Cell Model for Botulinum Neurotoxin Detection Using Human Neurons from Induced Pluripotent Stem Cells
Eric Johnson, M.D.
Phenotype Microarrays and Cytotoxicity-Based Clostridial Toxin Assay
Xiang Lei, Ph.D.

1200-1315 LUNCH / EXHIBITS

1315-1445 PROBIOTICS: MECHANISMS & HEALTH BENEFITS
Moderator: Andrew B. Onderdonk, Ph.D.
Probiotics in Vaginal Infection Prevention
Raina N. Fichorova, M.D.
Antibiotic-Associated Diarrhea: Are Probiotics the Answer?
Mark Wilks, M.D.
Regulation: How Will Probiotics Make It to the Consumer
Marika Mikelsaar, M.D.

1445-1545 ORAL PRESENTATIONS
Moderator: Bennett Lorber, M.D.
Geographic Signatures of Anaerobes to Study Human-Microbe Co-Migration & Co-Evolution
Georg Conrads, Ph.D.
Polysaccharide Biosynthesis Loci Diversity Amongst *Bacteroides fragilis* Isolates
Sheila Patrick, Ph.D., D.Sc.
A Unique Homologue of Eukaryotic Ubiquitin Produced by *Bacteroides fragilis* with the Potential for Significant Host Interaction
Kelly Jobling
Effect of Antiretroviral Treatment on Selected Gut Microbiota in South African HIV Positive Patients
Valerie R. Abrah, Ph.D.
Gut Microbiota in Preterm Infants Throughout the First Year of Life
Marie-Jose Butel, Pharm.D., Ph.D.

1500-1515 DISCUSSION & CLOSING REMARKS
Cynthia L. Sears, M.D.
Valerie R. Abratt, Ph.D.
University of Cape Town
Cape Town, South Africa

David Aronoff, M.D.
University of Michigan
Ann Arbor, MI

Steve S. Arnon, M.D.
Infant Botulism Program
California Department of Health
Richmond, CA

Gonzalo Ballon-Landa, M.D.
Private Practice
San Diego, CA

Ellen Jo Baron, Ph.D.
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Palo Alto, CA

Peer Bork, Ph.D.
European Molecular Biology Lab
Heidelberg, Germany

Marie-Jose Butel, Pharm.D., Ph.D.
Paris Descartes University
Paris, France

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University of Michigan
Ann Arbor, MI

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School of Medicine
Pittsburgh, PA

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Center for Disease Control
Atlanta, GA

Judy Cho, M.D.
Inflammatory Bowel Disease Ctr.
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Bottmingen, Switzerland

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Aachen, Germany

Laurie Cox
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New York, NY

Mike Cox
Anaerobe Systems
Morgan Hill, CA

Christine Dejea
Johns Hopkins Bloomberg
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Slava Epstein, Ph.D.
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Boston, MA

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Harvard Medical School
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West Los Angeles, CA

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Columbus, OH

Trevor D. Lawley, Ph.D.
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Hinxton, United Kingdom

Paul Lawson, Ph.D.
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Norman, OK

Xiang Lei, Ph.D.
Biolig, Inc.
Hayward, CA

Fernanda Lessa, M.D., M.P.H.
Centers for Disease Control
Atlanta, GA

Brandi Limbago, Ph.D.
Centers for Disease Control
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Calgary, AB
Canada

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Seattle, WA

Jane Marsh, Ph.D.
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School of Medicine
Pittsburgh, PA

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Katowice, Poland

Bruce McClane, Ph.D.
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Pittsburgh, PA

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Baltimore, MD

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Vincent B. Young, M.D., Ph.D.
University of Michigan
Ann Arbor, MI
**THE SETTING**

*ANAEROBE 2012* takes place in America’s favorite city by the bay. San Francisco is the home to a little bit of everything, a feast for all the senses. From its sweeping vistas to its culinary delights, it offers a tapestry of cultural diversity.

Within walking distance from the Congress hotel is Chinatown, the Museum district, the Financial district, and the Cable Car going over the hill to Fisherman’s Wharf. For shopping, you will be surrounded with options, from the major department stores to boutiques, from art galleries to the discount outlets. Or for a little baseball, slip on over to AT&T Park to watch the San Francisco Giants host the Los Angeles Dodgers (June 25-27) and the Cincinnati Reds (June 28-July 1). And with a short drive, you can find yourself surrounded by ancient Redwoods or tasting the fruit of the vine in Wine Country (Napa/Sonoma). For more information about San Francisco, visit the web site: www.welcometosf.com.

**ACCOMMODATIONS**

The Congress hotel is the Grand Hyatt San Francisco, located at 345 Stockton Street, just off the city’s famed Union Square. This luxury hotel has just undergone a major renovation, with guest rooms featuring the most avant-garde amenities. The Grandviews Restaurant and Lounge on the 36th Floor offers stunning views of the city and across the bay. For information on the hotel, visit the web site: www.grandsanfrancisco.hyatt.com or call: (415) 398-1234.

Rooms are available for Congress delegates at an amazing discount room rate of $149 + tax per night. The deadline for room reservations booked on-line is June 7, 2012. The Congress discount is available at the web site: https://resweb.passkey.com/go/FINF, or link directly from the Anaerobe Society website.

Students might consider the Hostelling International-Downtown (www.hihostels.com) or USA Hostels (www.usahostels.com). There are also a number of low budget hotels around Union Square, which cater to students (Park Hotel, Herbert Hotel, Touchstone Hotel, Grant Hotel). Check the internet for reviews and information.

**SPECIAL EVENTS**

**Wine & Cheese Reception (Friday, June 29)**—Congress participants and spouses are invited to socialize at the Wine & Cheese Reception, following the ASA Organizational Meeting.

**Congress Banquet (Saturday, June 30)**—The Congress Banquet will be held in The Rotunda at Nieman-Marcus department store. Only steps from the Congress hotel, the restaurant is set beneath the landmark stained-glass dome and overlooks Union Square.

The evening will include a reception with hors d’oeuvres to socialize and a dinner. Over dessert, Congress awards will be presented, including the Finegold Award for Best Abstract and the Young Investigator’s Awards. In addition, Lifetime Achievement Awards will be presented to Dr. Elisabeth Nagy and Dr. Ian Poxton.

**TRANSPORTATION**

**Air Travel**: San Francisco Bay Area is served by three airports. Attendees of the Anaerobe Workshops at Santa Clara University should fly into San Jose Airport (SJI) or San Francisco Airport (SFO). Congress-only attendees can fly into San Francisco Airport (SFO) or Oakland Airport (OAK).

United Airlines and its Star Alliance members United Express, Continental, Continental Express, Lufthansa, and All Nippon Airways are offering up to 10% discounts on airfares, valid for travel June 22-July 6, 2012. Reservations can be made through a travel agent or by calling the United Airlines Convention Desk at (800) 521-4041. Use Meeting ID Code 587LN.

**Transportation**: Airport transportation options will be provided in the Information Packet, to be emailed in early June.

**REGISTRATION INFORMATION**

You can register for *Anaerobe 2012* at the web site—www.anaerobe.org or use the Registration Form on the back page. Registration fees, as stated on the form, must be paid in U.S. dollars. Discounts are offered to Members of the Anaerobe Society of the Americas, students (with submission of current identification), and for pre-registration received by June 1, 2012.

Congress Registration includes Delegate Packet, Abstract Book, admission to Congress sessions and poster areas, continental breakfasts, coffee breaks, and Thursday evening reception. Full registration also includes the Congress Banquet on Friday evening in The Rotunda at Nieman-Marcus. Additional dinner tickets may be purchased separately.

Confirmation packets will be sent out in mid-June. No advance registrations will be accepted after June 18, 2012. Registration fees at the door must be paid in cash (U.S. Dollars).

**CANCELLATION POLICY**

Congress registration and banquet fees will be refunded (minus $20 service fee) if written notification is received by June 18, 2012.
First Name _______________________________ Surname __________________________________  Degree __________
Institution ______________________________________________________________________________________________
Address ________________________________________________________________________________________________
City _______________________________________________  State/Province  ____________________________________  
Country ___________________________________________  ZIP/Postal Code ___________________________________
Country Telephone Code ______________  Telephone ________________________  Fax  _________________________  
E-mail __________________________________________________________________________________________________

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**CONGRESS REGISTRATION FEES**

*No advance registrations will be accepted after June 18, 2012*

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<thead>
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<th>Indicate Choice and Quantity</th>
<th>Received by June 1, 2012</th>
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<td><strong>MEMBERS OF ASA</strong>*</td>
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<tr>
<td>___ Full Package (including Congress Dinner, choose entree below)</td>
<td>$300</td>
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<td>___ Meeting Attendance only</td>
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<td><strong>SINGLE DAY ATTENDANCE (price per day)</strong></td>
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<td>___ Friday (6/29) ___ Saturday (6/30) ___ Sunday (7/1)</td>
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<td><strong>PRE-Congress Workshops</strong></td>
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<td>___ Anaerobic Identification &amp; Susceptibility</td>
<td>$240</td>
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<td><strong>CONGRESS BANQUET</strong> included in Full Package Registration</td>
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<td>___ Additional Congress Banquet Tickets (each)</td>
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Select entree choices:

- Oven Roasted Chicken
- Pan Seared Salmon
- Vegetable Ratatouille

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</tr>
</tbody>
</table>

**Total Payment Due**

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*NOTE: For Membership Information and Application, please see the Membership page on this web site. Complete the Membership Process before registering for the *Anaerobe 2012* Conference.*

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**Payment Options**

- [ ] Check ($US )
- [ ] Credit Card  Number _________________________________
- [ ] Visa
- [ ] MasterCard
- [ ] American Express  Signature: _________________________________

Payment will be processed in U.S. Dollars.  Expiration Date: ________/_______