



Meeting Schedule

(Continued from previous page)

| Time | Session | Presenter(s) |
|--------------------------|--|--|
| Friday, July 19 | | |
| 8:00 – 10:20 | Session C: <i>Microbiology/Chemistry</i> | Christopher Whitfield, Christian Raetz, Peter Van Der Ley, Shoichi Kusumoto, Robert Ernst, Shun-Ichiro Kawabata |
| 10:20 – 3:30 | Session D: <i>Toll Receptors I</i> | Douglas Golenbock, Kiyoshi Takeda, Luke O'Neill, Kensuke Miyake, Masahiro Nishijima, Stefanie Vogel, Tatsushi Muta, Amy Hise, Moshe Arditi |
| 11:40 – 1:30 | Lunch/Poster viewing | N/A |
| 3:30 – 4:50 | Session E: <i>Lps Binding</i> | Didier Heumann, Jerrold Weiss, Richard Kitchens, Hobart Harris |
| 4:50 – 5:50 | Invited Oral Presentations | Andrew Preston, Nicholas Schröder, Stephanie Traub, Minou Adib-Conquy |
| Saturday, July 20 | | |
| 8:00 – 10:40 | Session F: <i>Physiologic Responses (Concurrent Session I)</i> | Shunji Sugawara, Tsuyoshi Sugiyama, Paul Bertics, Ulrich Seydel, Jeffrey Hasday, Kathy Triantifilou, David Mosser |
| 8:00 – 10:00 | Session G: <i>Lps-Directed Therapies (Concurrent Session II)</i> | Steven Opal, Tim Axtelle, Daniel Rossignol, David Johnson, Matthias Riewald |
| 10:00 - 11:00 | Session H: <i>Late-Acting Mediators (Concurrent Session II)</i> | Kenneth Becker, Thierry Roger, Huan Yang |
| 10:40 - 11:50 | Session I: <i>Lps In Conditions Other Than Sepsis</i> | Olivier Michel, Kenneth Cooke, Daniel Podolsky |
| 11:50 - 12:30 | Business Meeting | N/A |
| 12:30 - 2:00 | Lunch/Poster viewing | N/A |
| 2:00 – 4:40 | Session J: <i>Genomics</i> | Claire Fraser, David Relman, Anthony Suffredini, Ralf Schumann, Bruce Beutler, Eric Hoffman |
| 4:40 – 5:10 | Invited Oral Presentations | Roman Dziarski, Mingfang Lu |
| 5:10 - 6:00 | Poster Viewing | |
| Sunday, July 21 | | |
| 8:00 – 10:20 | Session K: <i>Endotoxin Tolerance/Sensitization</i> | Jean-Marc Cavaillon, Marina Freudenberg, Klaus Heeg, Joan Durbin, Charles Mccall, Andrei Medvedev |
| 10:20 - 11:40 | Session L: <i>Toll-Like Receptors II</i> | David Underhill, Eicke Latz, Richard Tapping, Jianjun Gao |

A Highly Arbitrary Listing of Things To Do in Washington DC Between July 17-21...

...when you are not at the IES conference, that is.

There will be no shortage of activities to fill up those hours when you are not pondering the latest endotoxin research results at the IES conference. A great starting point for planning your off-meeting activities is the "Local Attractions" page of the IES conference website (ies.anteon.com/ies/tourist.htm). This page provides a comprehensive listing of links to the multitude of attractions that are available in Washington DC and the surrounding area. Another good online source of information is the website for the Washington Post (www.washingtonpost.com/), and in particular their "Best Bets" page (www.washingtonpost.com/bestbets). As a further aid in planning your recreation time, a brief and highly arbitrary list of museum exhibitions, musical performances, and theater productions occurring during the July 17-21 period is presented on the next page. Note that many of these events are free. Please make sure that you confirm the accuracy of the information in this table prior to making any final plans, and have a great time during your stay in Washington DC!

(Continued on next page)

Things To Do in Washington DC

(Continued from previous page)

| Venue | Exhibit/Performance |
|---|---|
| National Gallery of Art www.nga.gov/ (202) 737-4215 Mon-Sat, 10-5; Sun 11-6 Free (free) | <ul style="list-style-type: none">• The Quest for Immortality: Treasures of Ancient Egypt• Alfred Stieglitz: Known and Unknown• An American Vision: Henry Francis DuPont's Winterthur Museum• Christo and Jeanne-Claude in the Vogel Collection• Jazz in the Garden: Marshall Keys, jazz saxophone (Sculpture Garden, 7/19, 5-8 pm, free) |
| The Corcoran Gallery of Art www.corcoran.org/museum/ (888) CORCORAN Sun, Mon, Wed 9-5; Thur-Sat 9-9 \$5 (free Mon and Thurs after 5) | <ul style="list-style-type: none">• Jacqueline Kennedy: The White House Years - Selections from the John F. Kennedy Library and Museum• The Eyes of History: An Exhibition of Award-Winning Photographs by White House Photojournalists• Larry Rivers: Art and the Artist• Stanley Tretick: The Kennedy Years• The Gilded Cage: Views of American Women, 1873-1921• Peripheral Vision: The Art of William Newman• Vaughn Nark Quintet (7/17, 12:30-1:30) |
| The National Museum of Asian Art for the United States www.asia.si.edu/ (202) 357-4880 Daily 10-5:30 Free | Arthur M. Sackler Gallery <ul style="list-style-type: none">• The Adventures of Hamza• Sacred Sites: Silk Road Photographs by Kenro Izu• Hamadryad: Meditation as Sculpture Freer Gallery of Art <ul style="list-style-type: none">• Whistler's Nudes• Chinese Buddhist Sculpture in a New Light• Year of the Horse: Chinese Horse Paintings• The Potter's Brush: The Kenzan Style in Japanese Ceramics• More than Flowers: Sources of Tradition in Japanese Painting |
| Hirshhorn Museum and Sculpture Garden hirshhorn.si.edu/ (202) 357-3091 Daily 10-5:30 Plaza: 7:30-5:30 Sculpture Garden: 7:30- dusk Free | <ul style="list-style-type: none">• Metropolis in the Machine Age• Open City: Street Photographs since 1950• Directions—Ron Mueck• City Sounds: Jazz on the Plaza with Bobby Parker - Singer and guitarist Bobby Parker demonstrates the relationship between blues and jazz (7/18 at 5:30-7) |
| John F. Kennedy Center for the Performing Arts www.kennedy-center.org/ (800) 444-1324 or (202) 467-4600 | <ul style="list-style-type: none">• National Symphony Orchestra in your Neighborhood• Elton John and Tim Rice's "AIDA"• Sondheim's "Passion"• Sondheim's "Merrily We Roll Along"• Barbara Cook-"Mostly Sondheim-A Concert"• Woolly Mammoth's Big Love |
| Ford's Theatre | Sorry - closed for renovations |
| The National Theatre www.nationaltheatre.org/ (800) 447-7400 | <ul style="list-style-type: none">• "The Full Monty" |

Reader's Question -- The Readers Respond: Endotoxin Removal

**Kent Myers,
Endotoxin Editor**

In the last issue of the newsletter (*Endotoxin* 12[1]), we asked our readers for their suggestions of how best to remove contaminating endotoxin from proteins. The following useful suggestions were received:

From Peter S. Tobias (The Scripps Institute):

- Try End-X from Associates of Cape Cod.
- Try the method of Karplus, Ulevitch, and Wilson.¹ Using immobilized polymyxin (Sigma) instead of soluble polymyxin makes the method work better.

1. Karplus TE, Ulevitch RJ, Wilson CB. A new method for reduction of endotoxin contamination from protein solutions. *J Immunol Methods* **105**, 211-220(1987).

From Lin Chen (BioWhittaker, Inc.):

Dear Dr. Myers,

Thank you for the article in the recent endotoxin newsletter. Just want to share with you one similar problem we had months ago: Endotoxin was copurified with our target protein (pretty hydrophobic). We got 90% pure protein with tons of endotoxin associated (3×10^5 EU/mg protein). We tried Pierce's Detoxin-Gel and HIC in combination with guanidine hydrochloride. No success. Finally, we tried Triton X-114 two-phase extraction.¹ It worked perfectly. Two rounds of extraction, we removed endotoxin down to 43 EU/mg protein.

Thank you,
Lin Chen

1. Aida Y and Pabst MJ. Removal of endotoxin from protein solutions by phase separation using Triton X-114. *J Immunol Methods* **132**, 191-195(1990).

From Jeak L. Ding (National University of Singapore):

Hi Dr. Myers,

I read your "Reader's question" in the Spring 2002 newsletter regarding the reader's query on removal of endotoxin. Please direct the reader to our recent publication: Ding JL, Zhu Y, Ho B. High-performance affinity capture-removal of bacterial pyrogen from solutions. *J Chromatog B* **759**, 237-246(2001).

Best wishes,
JL Ding

*Thanks very much to Drs. Tobias, Chen, and Ding
for taking the time to send in these helpful comments.*

Note: Gender-Related Differences in the Febrile Response of Rabbits to Endotoxin

**Kent Myers,
Endotoxin Editor**

Over the 21 plus years that Ribi ImmunoChem Research (now Corixa Corporation) has been in existence, we have used the USP Rabbit Pyrogen Test on innumerable occasions to test our products for pyrogenic activity. We recently obtained a pyrogenic response on a sample that had been tested previously and was initially non-pyrogenic. On further investigation, we discovered that the laboratory had switched from use of female to male rabbits between the first and second tests. A subsequent experiment was performed in which male and female rabbits were tested in parallel with a Control Standard Endotoxin (Cape Cod Associates), and the following results were obtained:

| Endotoxin dose | Total temperature rise (3 animals) | |
|----------------|------------------------------------|--------------|
| | Female Rabbits | Male Rabbits |
| 0.5 ng/kg | 0.5°C | 1.5°C |
| 5.0 ng/kg | 2.9°C | 2.8°C |

We were surprised by the apparent difference in response of male and female rabbits at the lower challenge dose, as we were previously unaware of gender differences in the febrile response of rabbits to endotoxin. The USP does not specify gender in its description of the rabbit pyrogen test.¹ A brief review of the literature confirmed that gender differences are observed in the response of rabbits to pyrogens.^{2,3} We therefore recommend that researchers consider possible gender effects when using the USP rabbit pyrogen test to evaluate endotoxin-related compounds.

1. USP 24 <151>.
2. JM Lipton and CB Ticknor. Influence of sex and age on febrile responses to peripheral and central administration of pyrogens in the rabbit. *J. Physiol.* **295**, 263-272(1979).
3. LB Deeter, LW Martin, and JM Lipton. Age- and sex-related differences in febrile responses to peripheral pyrogens in the rabbit. *Gerontology* **35**, 297-304(1989).

SOCIETY NEWS

New IES Members

Anup Datta, PhD
Univ of Georgia
Athens, GA USA

Baoxue Ge, PhD
The Scripps Research Institute
La Jolla, CA USA

Robin Ingalls, MD
Boston Medical Center
Boston, MA USA

Mingfang Lu
UT Southwestern Medical Ctr
Dallas, TX USA

Akiko Eto, MD
Kyushu Univ
Fukuoka JAPAN

Xinbing Han
Children's Memorial Hospital
Chicago, IL USA

Richard J. Kao
Eisai Inc
Teaneck, NJ USA

Dr. Isao Nagaoka
Juntendo Univ School of Medicine
Tokyo JAPAN

Amelia Feulner
UT Southwestern Med Center
Dallas, TX USA

Amy Hise, MD, MPH
Case Western Reserve Univ
Cleveland, OH USA

Dr. Fazlollah B. Kasravi
UCSF
San Francisco, CA USA

Dr. Robert J. Noveck
Clinical Research Center
New Orleans, LA USA

Kate Fitzgerald, PhD
Univ of Mass Medical School
Worcester, MA USA

Michael Howard, MS
Virginia Tech
Blacksburg, VA USA

Diana H. Lee, BS
Univ of Calif - San Francisco
San Francisco, CA USA

Richard Ridge, PhD
Associates of Cape Cod Inc
Falmouth, MA USA

(Continued on next page)

5

New IES Members, cont'd

W. Edward Swords, PhD
Wake Forest Univ
Winston-Salem, NC USA

Dr. Sabine Totemeyer
Univ of Cambridge
Cambridgeshire UK

Danielle Wroblewski, BS
Albany Medical College
Albany, NY USA

Welcome

**Also, welcome back
to all past members
that have re-joined!**

IES Contact Information

Need to update your address information? Wondering why you have not received a copy of the newsletter? (It probably has not been mailed yet!) Want to pay your dues but are not sure how? You can get answers to these and all other questions related to your IES membership from the following individuals. See your directory for other means of contact, i.e. mailing addresses and phone numbers.

Membership:

Dr J. Chris Hodgson (UK)
IES Membership Chairman
Phone: 0131 445 6133
Fax: 0131 445 6111
Email: hodgc@mri.sari.ac.uk

Change of address:

Dr. Richard Silverstein (USA)
IES Secretary
Phone: 001 913 588 6954
Fax: 001 913 588 7440
Email: rsilvers@kumc.edu

Dues and subscription payments:

Dr. Kuni Takayama (USA)
IES Treasurer
Phone: 001 608 256 1901
Fax: 001 608 280 7108
Email: takayama@itis.com

Missing newsletter:

Dr. Kent Myers (USA)
IES Editor
Phone: 001 406 375 2135
Fax: 001 406 363 6129
Email: kmyers@corixa.com

Please check your mailing label. If at any time you see that your mailing label is incorrect, let us know at IntlEndotoxinSoc@aol.com. This label information is created directly from the database used for updates and projects like the IES directory.

International Endotoxin Society
c/o Kent R. Myers, PhD
Corixa Corporation
553 Old Corvallis Road
Hamilton, MT 59840-3131
USA