

**SURGICAL INFECTION SOCIETY 26TH ANNUAL MEETING
LA JOLLA, CA, APRIL 27 – APRIL 29, 2006**

Abbreviated Program

THURSDAY, APRIL 27, 2006

6:30-7:45 AM	Sunrise Symposium <i>"New Non-Pharmacologic Opportunities to Reduce Surgical Site Infections"</i> SIS thanks Kimberly-Clark for the Unrestricted Educational Grant in support of this session.	Grande Ballroom C
6:30-8:30 AM	Continental Breakfast	Grande Ballroom C Foyer
7:00 AM-4:00 PM	Group Registration	Grande Ballroom Foyer
8:00-10:30 AM	Plenary Session I <i>The Science of Surgical Infections</i> (Papers 1-8)	Grande Ballroom DE
10:30-12:00 PM	Plenary Session II <i>SIS Invited Lectures and Awards</i>	Grande Ballroom DE
10:30-11:00 AM	Presentation of SIS Fellowship Awards <i>Ping Wang, M.D</i> <i>Jureta Horton, Ph.D..</i>	Grande Ballroom DE
11:00-12:00 PM	Twenty-Fifth Annual Altemeier Lecture: <i>"Danger, Damage, and Ancient Alarm Signals For The Immune System"</i> <i>Polly C.E. Matzinger, Ph.D., National Institutes of Health, Bethesda, MD</i> Introduction by <i>Edwin A. Deitch, M.D.</i>	Grande Ballroom DE
12:00-1:30 PM	Luncheon Symposium <i>"An Ounce of Prevention: Reducing Surgical Site Infection"</i> SIS thanks Merck & Co., Inc. for the Unrestricted Educational Grant in support of this session.	Grande Ballroom C
1:30-3:00 PM	Poster Session I (Posters 1-21)	Scripps Ballroom
3:00-4:30 PM	Parallel Session: (Papers 9-14) Basic Science I	Grande Ballroom C
3:00-4:30 PM	Parallel Session: (Papers 15-20) Clinical Trials, Case Series & Outcomes I	Grande Ballroom DE
4:00-5:00PM	Scientific Studies Committee	Room 3095
4:30-5:30 PM	Clinical Symposium I <i>Sensing Vulnerability: A Bacterial Perspective of Its Hosts Condition</i>	Grande Ballroom DE
5:30-6:30 PM	Annual Business Meeting <i>Edwin A. Deitch, M.D., Presiding</i>	Grande Ballroom DE
7:00-10:00 PM	Welcome Reception	Birch Aquarium at Scripps

FRIDAY, APRIL 28, 2006

6:30-7:45 AM	Sunrise Symposium <i>"Multiple Drug Resistant Bacteria and Their Clinical Significance"</i> SIS thanks Wyeth Pharmaceuticals for the Unrestricted Educational Grant in support of this session.	Grande Ballroom C
6:30-8:30 AM	Continental Breakfast	Grande Ballroom Foyer
7:00 AM-4:00 PM	Group Registration	Grande Ballroom Foyer
8:00-11:00 AM	Parallel Session: (Papers 21-30) Basic Science II	Grande Ballroom DE
8:00-11:00 AM	Parallel Session: (Papers 31-40) Clinical Trials, Case Series & Outcomes II	Grande Ballroom C
11:00-12:00 PM	Presidential Address - Timothy R. Billiar, MD <i>"Making Progress in an Enlightened Era: Opportunities and Obstacles"</i> <i>Introduction by Edwin A. Deitch, M.D</i>	Grande Ballroom DE
12:00-1:30 PM	Luncheon Symposium <i>"Intra-abdominal Infections: What's New?"</i> SIS thanks Schering-Plough for the Unrestricted Educational Grant in support of this session.	Grande Ballroom C
12:00-1:30 PM	Fellowship Luncheon (by invitation)	La Jolla Canyon
1:30-3:30 PM	Poster Session II (Posters 22 - 48)	Scripps Ballroom
3:30-5:00 PM	Clinical Symposium II <i>Fungal Pathogens in Surgical Infection</i>	Grande Ballroom DE
5:00 PM	<i>Surgical Infections</i> Editorial Board Reception (by invitation)	Suite 3097
7:00-8:00 PM	Reception	Pavilion Terrace
8:00-10:00 PM	Awards Banquet	Pavilion Ballroom

SATURDAY, APRIL 29, 2006

6:30-7:45 AM	Sunrise Symposium <i>"MRSA in the Community: What's the Best Approach?"</i> SIS thanks Pfizer, Inc. for the Unrestricted Educational Grant in support of this session.	Grande Ballroom DE
6:30-8:30 AM	Continental Breakfast	Grande Ballroom Foyer
7:00-8:00AM	SIS Council Meeting	LaJolla Canyon
7:00-4:00PM	CME Return	Grande Ballroom Foyer
8:00-9:30 AM	Clinical /Therapeutics Symposium III <i>Unique Therapeutic Perspectives: Surgical Infection</i>	Grande Ballroom DE
8:00-9:30AM	<i>A Surgical Infection Perspective of the Hurricane Katrina Disaster Medical Response.</i> <i>PRO/CON Debate: Low-dose Steroids: When and Who Should Get Them?</i>	Grande Ballroom DE
9:45AM-12:00PM	Plenary Session II (Papers 41-46) <i>The Science of Surgical Infections</i>	Grande Ballroom DE

**SURGICAL INFECTION SOCIETY 26TH ANNUAL MEETING
LAJOLLA, CA, APRIL 27 – APRIL 29, 2006**

THURSDAY, April 27, 2006

06:30-07:45 AM **SUNRISE SYMPOSIUM I** *Grande Ballroom C*
**“New Non-Pharmacologic Opportunities to Reduce the Risk
of Surgical Site Infections (SSI)”**
SIS thanks Kimberly-Clark for the Unrestricted Educational Grant in support of
this session.

Moderator: Mark Malangoni, M.D.

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| 1. The Importance of Assessing Risk for SSI | Mark Malangoni, M.D. |
| 2. Regulation of Body Temperature Decreases the
Risk of Surgical Site Infection | Leland Housman, M.D. |
| 3. Non-Pharmacologic Approaches to Reduce the
Incidence of Surgical Site Infections | William Cheadle, M.D. |

08:00-10:30 AM **PLENARY SESSION I:** *Grande Ballroom DE*
**The Science of Surgical Infections
(Papers 1-8)**

*Moderators: Timothy R. Billiar, M.D., University of Pittsburgh, Pittsburgh, PA
Alfred A. Ayala, Ph.D., Rhode Island Hospital, Brown University, Providence, RI*

**1. Hypertonic Resuscitation Modulates the Inflammatory Response in Patients with
Traumatic Hemorrhagic Shock**

*Bulger E, Cuschieri J, Warner K, Maier R; University of Washington, Seattle, WA
Discussant: David Hoyt, M.D., University of California, San Diego, San Diego, CA*

**2. Low Dose Steroid Alters In Vivo Endotoxin Induced Systemic Inflammation But Not
Autonomic Dysfunction**

*Alvarez SM, Katsamanis Karavidas M, Coyle SM, Lu S, Macor MA, Oikawa L, Lehrer PM,
Calvano SE, Lowry SF; University of Medicine and Dentistry of New Jersey, Robert Wood
Johnson Medical School, New Brunswick, NJ*

Discussant: Timothy R. Billiar M.D., University of Pittsburgh, Pittsburgh, PA

**3. Transforming Growth Factor-Beta (TGFβ) is One Component of Immune Protection
by Platelets after Severe Injury.**

*Fujimi S, MacConmara MB, Maung AA, Mannick JA, Lederer JA, Lapchak PH; Brigham and
Women's Hospital/Harvard Univ., Boston, MA*

*Discussant: Edward Sherwood, M.D., Shriners Hospital for Children, University of Texas
Medical Branch Galveston, Galveston, TX*

4. A Role For Fer Kinase in STAT3 Signaling by IL-10 and IL-6

Birch SE, Szaszi K, Kapus A, Rotstein O; St Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

Discussant: Ronald V. Maier, M.D., Harborview Medical Center, University of Washington, Seattle, WA

5. Toll-Like Receptor 4 Mutant Mice are Protected from the Development of Necrotizing Enterocolitis Through Effects on Bacterial Translocation and Enhanced Intestinal Restitution

Leaphart CL, Cavallo J, Cetin S, Levy R, Prince J, Billiar T, Sandulache V, Li J, Hackam DJ; Children's Hospital of Pittsburgh, Pittsburgh, PA

Discussant: Henri Ford, M.D., University of California, Los Angeles, Los Angeles, CA

6. TLR4-dependent uptake of LPS by liver cells is blocked by LPS-pretreatment through a SOCS1-dependent mechanism

Scott MJ, Liu S, Shapiro R, Billiar TR; University of Pittsburgh, Pittsburgh, PA

Discussant: Cora Ogle, Ph.D., Shriners Burns Hospital & University of Cincinnati, Cincinnati, OH

7. Acid Sphingomyelinase Is Required For LPS-Mediated Macrophage Activation

Cuschieri J, Bulger E, Billigren J, Garcia I, Maier RV; Harborview Medical Center/ University of Washington, Seattle, WA

Discussant: Raul Coimbra, M.D., University of California in San Diego, San Diego, CA

8. Morphine Directly Activates The Virulence Of Pseudomonas Aeruginosa And Enhances Its Barrier Dysregulating Effect Against The Epithelium

Zaborina O, Wu L, Turner J, Moss J, Gottlieb L, Bindokas V, Wang Y, Alverdy J; University of Chicago, Chicago, IL

Discussant: William G. Cioffi, M.D., Rhode Island Hospital, Brown University, Providence, RI

- 10:30 AM-12:00 PM **PLENARY SESSION II:** *Grande Ballroom DE*
INVITED LECTURES and AWARDS
Moderator: Edwin A. Deitch, M.D., SIS President
- 10:30-11:00 AM **PRESENTATION OF SIS FELLOWSHIP AWARDS**
Jureta Horton, Ph.D., University of Texas Southwestern Medical Center
Ping Wang, M.D., North Shore-Long Island Jewish Medical Center
- 11:00 AM-12:00 PM **WILLIAM A. ALTEMEIER LECTURE:** *Grande Ballroom DE*
Danger, Damage, and Ancient Alarm Signals for the Immune System
Polly C.E. Matzinger, Ph.D., National Institutes of Health, Bethesda, MD

12:00-13:30 PM

LUNCHEON SYMPOSIUM

Grande Ballroom C

“An Ounce of Prevention: Reducing Surgical Site Infections (SSI)”

SIS thanks Merck & Co. Inc. for the Unrestricted Educational Grant in support of this session.

Moderator: E. Patchen Dellinger, M.D.

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| 1. National Surgical Infection Prevention Project | Dale W. Bratzler, D.O., M.P.H. |
| 2. New Challenges in Prevention of SSI | Donald E. Fry, M.D. |
| 3. Innovative Strategies for Reducing SSI | E. Patchen Dellinger, M.D. |

13:30 PM-15:00 PM **POSTER SESSION I (Poster 1-21)**

Scripps Ballroom

Moderators: *Daniel Meldrum, M.D., University of Indianapolis College of Medicine, Indianapolis, IN (Poster 1-7)*
Mark Wilson, M.D., University of Pittsburgh, Pittsburgh, PA (Poster 8-14)
Avery Nathens, M.D. Ph.D., University of Washington, Seattle, WA (Poster 15-21)

P1. Tumor Necrosis Factor Receptor 1 and the Death Inducing Signaling Complex are Localized to the Mitochondria After Induction of Apoptosis in Rat Hepatocytes

Vallabhaneni R, Wang Y, Guo F, Zhang X, Levy R, Crissman S, Stolz DB, Billiar T; University of Pittsburgh, Pittsburgh, PA

P2. Translocation of Gut Bacteria after Trauma Requires TLR4 and is Mediated by High-mobility group box 1 (HMGB1)

Levy RM, Prince JM, Liu S, Yang R, Mollen KP, Tracey KJ, Vodovotz Y, Hackam DJ, Fink MP, Billiar TR; University of Pittsburgh, Pittsburgh, PA

P3. TLR4 Mediates Hepatic Injury and Systemic Inflammation after Polytrauma

Prince JM, Levy RM, Mollen KP, Vodovotz Y, Billiar TR; University of Pittsburgh, Pittsburgh, PA

P4. Viagra Restores Pulmonary Artery Vasorelaxation in Endotoxin-Induced Acute Lung Injury

Morrell ED, Tsai BM, Wang M, Crisostomo P, Wairiuko GM, Meldrum DR; Indiana University, Indianapolis, IN

P5. Oxidant-induced Akt phosphorylation in RAW 264.7 cells involves ceramide generation and is dependent on activation of phosphatidylinositol 3-kinase (PI3 kinase)

Tawadros PS, Zou M, Wang F, Szaszi K, Kapus A, Rotstein OD; St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

P6. What Is The Role Of Toll-Like Receptor 9 In CpG Stimulation Of Isolated Human Neutrophils?

Hedrick TL, Smith RL, Du K, Pruett TL, Sawyer RG; University of Virginia, Charlottesville, VA

P7. Right ventricular sensitivity to endotoxin

Wairiuko GM, Wang M, Crisostomo P, Morrell E, Meldrum DR; Indiana University, Indianapolis, IN

P8. Reactive Oxygen Species Mediate High-Mobility Group Box 1 Release In Hepatocytes

Jeyabalan G, Allan T, Klune JR, Geller DA, Billiar TR; University of Pittsburgh Medical Center, Pittsburgh, PA

P9. Downregulation of Hepatic Cytochrome P-450 Isoforms And PPAR-gamma: Their Role In Hepatic Injury And Proinflammatory Responses In A Double-Hit Model Of Hemorrhage And Sepsis

Higuchi S, Wu R, Zhou M, Ravikumar TS, Wang P; Feinstein Institute of Medicine Research, North Shore University Hospital, Manhasset, NY

P10. ROS from NADPH Oxidase Is Required for PMN-Mediated Sensitization of Alveolar Macrophages to LPS in Hemorrhagic Shock

Fan J, Li Y, Billiar T, Wilson M; University of Pittsburgh, Pittsburgh, PA

P11. Generation Of Mitochondrial Reactive Oxygen Species By Carbon Monoxide Prevents Lipopolysaccharide-Induced Inflammation.

Zuckerbraun BS, Otterbein LE, Billiar TR; University of Pittsburgh, Pittsburgh, PA

P12. Why Does A Chemically Defined Enteral Diet Preserve Pulmonary But Not Gut Mucosal Immunity? The Role Of Lymphotoxin Beta Receptor (LTbR).

Gomez FE, Kang W, Ueno C, Kudsk KA; University of Wisconsin-Madison, Milwaukee, WI

P13. A Prospective, Noncomparative Study Of Daptomycin For The Treatment Of Superficial And Deep Surgical Site Infections.

Knapp AG, Kamepalli RK, Yankelev S, Martone W; Cubist Pharmaceuticals, Inc., Lexington, MA

P14. Phosphodiesterase Inhibition Attenuates MAPK-dependent Blood Transfusion-induced Neutrophil Activation: A Novel Adjunct to Blood Transfusion

Deree J, Lall R, Martins JO, Putnam J, de Campos T, Loomis W, Hoyt DB, Coimbra R; University of California, San Diego, San Diego, CA

P15. Divergent Patterns of Hematopoiesis After CLP-Induced Sepsis

Zettel K, Noel G, Guo X, Wang Q, Ogle CK; Shriners Burns Hospital & University of Cincinnati, Cincinnati, OH

P16. Drotrecogin Alpha (Activated) Reduces Bronchi Obstruction In Ovine Smoke Inhalation Injury Associated With Septic Shock

Maybauer MO, Maybauer DM, Fraser JF, Cox RA, Traber LD, Westphal M, Nakano YY, Enkhbaatar P, Hawkins HK, Traber DL; University of Ulm, Ulm, Germany

P17. The Priming Effect Of C5a On LPS-Induced IL-6 Production By Monocytes Is Predominantly Mediated By the P38 MAPK Pathway.

Schaeffer V, Garcia I, Knoll M, Jelacic S, Bulger E, Cuschieri J, Maier R; Harborview Medical Center, University of Washington, Seattle, WA

P18. Evaluating the Impact of Shortening Antibiotic Duration on the Development of Multidrug Resistant Organisms

Domonoske BD, Cocanour CS, Kozar RA, Ware DN, Todd SR, Allen SJ, Vercruysse GA, Moore FA; Memorial Hermann Hospital, Houston, TX

P19. Changes In Endogenous Hormone Production Following A Major Burn.

Norbury WB, Jeschke MG, Herndon DN; Shriners Hospital for Children, University of Texas Medical Branch Galveston, Galveston, TX

P20. Impact Of Early Versus Late Tracheostomy In Severely Head Injury Patients

Ahmed N, Kuo y; Jersey Shore University Medical Center, Neptune, NJ

P21. HMGB1 Increases Permeability In Rat Lung Microvascular Endothelial Cells And Pericytes In Co-Culture

Kerkar SP, Tyburski JG, Wilson RF, Steffes CP; Wayne State University School of Medicine, Detroit, MI

15:00-16:30 PM

**PARALLEL SESSION:
Basic Science I (Papers 9-14)**

Grande Ballroom C

Moderators: *Ping Wang, M.D.*, Feinstein Institute of Medicine Research, North Shore University Hospital, Manhasset, NY

Michael West, M.D., Ph.D., Northwestern University School of Medicine, Chicago, IL

9. High Mobility Group Box 1 (HMGB-1) Signals Through Toll-like Receptor 4 (TLR4) in a CD14-dependent Manner

Mollen K, Prince J, Levy R, Vallabhaneni R, Billiar T; University of Pittsburgh, Pittsburgh, PA
Discussant: *Michael West, M.D., Ph.D.*, Northwestern University School of Medicine, Chicago, IL

10. The Gap Junction Protein Connexin43 Mediates Phagocytosis By Modulating The Formation Of Actin Cups Through Rho-Gtpase In Macrophages

Anand RJ, Neal MD, Li J, Hackam DJ; Children's Hospital of Pittsburgh, Pittsburgh, PA
Discussant: *Edmund Miller Ph.D.*, North Shore University Hospital, Manhasset, NY

11. High-Mobility Group Box-1 (Hmgb1) Enhances Toll-Like Receptor 4 Reactivity In Liver Dendritic Cells

Tsung A, Zheng N, Lina L, Billiar TR, Geller DA; University of Pittsburgh, Pittsburgh, PA
Discussant: *Ping Wang, M.D.*, Feinstein Institute of Medicine Research/North Shore University Hospital, Manhasset, NY

12. Pre-B Cell Colony-Enhancing Factor Binds to the Insulin Receptor on Neutrophils (PMN), and Delays PMN Apoptosis

Malam Z, Parodo J, Kapus A, Rotstein OD, Ali R, Jia S, Marshall JC; St. Michaels Hospital University of Toronto, Toronto, Ontario, Canada
Discussant: *Walter Biffl, M.D.*, Rhode Island Hospital, Brown University, Providence, RI

13. Female Bone Marrow Stem Cells Produce Less TNF Than Males, An Effect That Is Abrogated by Gene Ablation of the Type 1 TNF Receptor

Crisostomo PR, Wang M, Herring C, Wairiuko GM, Meldrum DR; Indiana University, Indianapolis, ID

Discussant: *Martin Schwacha, University of Alabama at Birmingham, Birmingham, AL*

14. LPS Induces Expression Of Multiple Mitogen-Activated Kinase Phosphatases In Enterocytes

Wang J, Grishin AV, Boyle P, Upperman JS, Ford HR; Childrens Hospital Los Angeles, Los Angeles, CA

Discussant: David J Hackam, M.D.; Children's Hospital of Pittsburgh, Pittsburgh, PA

15:00-16:30 PM

PARALLEL SESSION:

Grande Ballroom DE

Clinical Trials, Case Series & Outcomes (Papers 15-20)

Moderators: *John Mazuski, M.D., Washinton University School of Medicine, St. Louis, MO*
William G. Cioffi, M.D., Rhode Island Hospital, Brown University, Providence, RI

15. Aerosolized Ceftazidime Prophylaxis Against Ventilator-Associated Pneumonia In High Risk Trauma Patients: The Results Of A Double-Blinded Randomized Study

Claridge JA, Edwards NM, Swanson J, Fabian TC, Wood C, Croce MA; Case Western Reserve University, Cleveland, OH

Discussant: Robert G. Sawyer, M.D., University of Virginia Health System, Charlottesville, VA

16. Does BMI Affect Infection-Related Outcomes in the ICU?

Smith RL, Chong TW, Hedrick TL, McElearney ST, Hughes MG, Evans HL, Sawyer RG, Pruett TL; University of Virginia Health System, Charlottesville, VA

Discussant: E. Patchen Dellinger, M.D., University of Washington, Seattle, WA

17. Appropriate Antimicrobial Therapy in Critical Care: Physician Bedside Prediction of ICU-acquired Infection

Aarts M, Cook DJ, Ferguson N, Friedrich J, Rizoli S, Parkes RK, Marshall JC; St. Michaels Hospital/University of Toronto, Toronto, Ontario Canada

Discussant: Donald E. Fry, M.D., Michael Pine & Associates, Chicago, IL

18. Balancing Economics With Efficacy: An Effective Graded Oral Viral Prophylaxis Regimen In Transplant Recipients

Simmons WD, Hedrick T, Anastacio M, Sanfey H, Pruett T, Sawyer R, Brayman K; University of Virginia Health System, Charlottesville, VA

Discussant: Lena M. Napolitano, M.D., University of Michigan, Ann Arbor, MI

19. Skin Antisepsis: Efficacy of Innovative Chlorhexidine-Impregnated Surgical Skin Wipe (CIW) Compared to Traditional Chlorhexidine Surgical Prep (TCP)

Edmiston CE, Paulson DS, Beausoleil C, Seabrook GS, Johnson CP; Medical College of Wisconsin, Milwaukee, WI

Discussant: Mark A. Malangoni, M.D., Case Western Reserve University, Cleveland, OH

20. Safety of Moxifloxacin in Complicated Skin and Skin Structure Infections

Giordano P, Choudhri SH, Song J, Pertel PE; Orlando Regional Medical Center, Orlando, FL

Discussant: Karen R Wasiluk, Ph.D., University of Minnesota. Minneapolis, MN

16:30-17:30 PM **CLINICAL SYMPOSIUM I:** *Grande Ballroom DE*
Sensing Vulnerability: A Bacterial Perspective of its Host's Condition

Moderators: *John Alverdy, M.D., University of Chicago, Chicago, IL*
David Hackam, M.D., University of Pittsburgh, Pittsburgh, PA

- 1. Quorum Sensing as a Mechanism of Bacteria Virulence.**
Barbara H. Iglewski, Ph.D., University of Rochester, Rochester, NY
- 2. "Opportunistic" Bacterial Pathogenesis: Do they wait for the opportunity or do they actively seek it? -**
John Alverdy, M.D., University of Chicago, Chicago, IL

17:00-18:30 PM **SIS ANNUAL BUSINESS MEETING** *Grande Ballroom DE*
Edwin A. Deitch, M.D., Presiding

19:00-22:00 PM **WELCOME RECEPTION**
The Birch Aquarium at Scripps, LaJolla, CA

FRIDAY, APRIL 28, 2006

06:30-07:45 AM **SUNRISE SYMPOSIUM II** *Grande Ballroom C*
"Multiple-Drug-Resistant Bacteria and Their Clinical Significance"
SIS thanks Wyeth Pharmaceuticals for the Unrestricted Educational Grant in support of this session.

Moderator: Lena M. Napolitano M.D.

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| 1. Pseudomonas | John Alverdy, M.D. |
| 2. Extended-spectrum Beta-Lactamase Producers | Charles E. Edmiston, M.D. |
| 3. Gram-positives | Philip S. Barie, M.D., M.B.A. |

08:00-11:00 AM **PARALLEL SESSION:** *Grande Ballroom DE*
Basic Science II (Papers 21 – 30)

Moderators: *Stephen Lowry, M.D., UMDNJ-New Brunswick, New Brunswick, NJ*
Jeffery Upperman, M.D., University of Pittsburgh, Pittsburgh, PA

- 21. The Immunologic Synapse is Down Regulated in SIRS Patients Prior to Sepsis**
Johnson SB, Lissauer M, Bochicchio GV, Cross A, Moore R, Scalea T; R Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, MD
Discussant: Peter Lapchak, Ph.D., Brigham and Women's Hospital, Harvard University, Boston, MA

22. Macrophage Migration Inhibitory Factor (MIF) Released from the Lung During Sepsis Induces Cardio-Circulatory Dysfunction

Sakuragi T, Lin X, Metz CN, Ojamaa K, Kohn N, Al-Abed Y, Miller EJ; The Feinstein Institute for Medical Research, Manhasset, NJ

Discussant: Daniel R. Meldrum, M.D., Indiana University, Indianapolis, IN

23. Human Adipose Progenitor Cells Produce VEGF, HGF and IGF-1 In Response To TNF by a p38 Mitogen Activated Protein Kinase Dependent Mechanism.

Wang M, Herring C, Crisostomo P, Wairiuko GM, Morrell E, Meldrum DR; Indiana University, Indianapolis, IN

Discussant: James Lederer, Ph.D., Brigham and Women's Hospital, Harvard Univ., Boston, MA

24. Polymorphism In The PolyQ Region Of Glucocorticoid Receptor (GCR) Is Associated With Differential GCR Responses In The Lungs Of Mice After Burn

Cho K, Green T, Hsu K, Lim D; Shriners Hospitals for Children, Sacramento, CA

Discussant: Steven E Calvano, Ph.D., University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School, New Brunswick, NJ

25. Coculture Of Monocytes With IgA Or IgG Has Disparate Effects On PMN Activation And Chemotaxis

Diebel LN, Liberati D, Diebel M.; Wayne State University School of Medicine, Detroit, MI

Discussant: Chuck Adams, M.D., Rhode Island Hospital/Brown University, Providence, RI

26. Peptide Transduction Domain Delivery of Anti-apoptotic Compounds Decreases Radiation-Induced Apoptosis in Human Lymphocytes

McConnell KW, Chang KC, Coopersmith CM, Piwnica-Worms D, Hotchkiss RS; Washington University, St. Louis, MO

Discussant: John Marshall, M.D., St Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

27. A Diminished Systemic Inflammatory Response Occurs In Soft Tissue Infections Treated with Daptomycin

Chipman JG, Skarda DE, Banton KL, Mulier KE, Wasiluk KR; University of Minnesota, Minneapolis, MN

Discussant: William Cheadle, University of Louisville, Louisville, KY

28. Beta TCRKO, but not delta TCRKO, Mice Treated with Anti-asialoGM1 are Resistant to CLP-induced Injury

Sherwood E, Lin C, Enoh V; Shriners Burns Hospital for Children/University of Texas Medical Branch Galveston, Galveston, TX

Discussant: David L. Williams, Ph.D., East Tennessee State University, Johnson City, TN

29. Cardiac Mitochondrial Damage by Sepsis

Zang QS, Maass D; UT Southwestern Medical Center, Dallas, TX

Discussant: Mark Wilson, M.D., University of Pittsburgh, Pittsburgh, PA

30. Burn-induced Organ Dysfunction: Lipopolysaccharide-binding protein (LBP) attenuates Cardiomyocyte Contraction Deficits

Niederbichler AD, Ipaktchi KR, Hoesel LM, Olivarez L, Minter RM, Su GL, Arbabi S, Westfall MV, Wang SC, Hemmila MR; University of Michigan, Ann Arbor, MI

Discussant: Daniel Traber, Ph.D., University of Texas Medical Branch Galveston, Galveston, TX

08:00-11:00 AM

PARALLEL SESSION:

Grande Ballroom C

Clinical Trials, Case Series & Outcomes II (Papers 31-40)

Moderators: *Ronald V. Maier, M.D.*, Harborview Med Center/ University of Washington, Seattle, WA,

Donald E. Fry, M.D., Michael Pine & Associates, Chicago, IL

31. Efficacy Of Sequential (IV/PO) Moxifloxacin Therapy vs Sequential Therapy With Standard Comparators In The Treatment Of Cellulitis/Complicated Erysipelas

Giordano P, Vick Fragoso R, Choudhri SH, Pertel PE, Arvis P, Kruesmann F; Orlando Regional Medical Center, Orlando, FL

Discussant: Charles E. Edmiston, Ph.D., Medical College of Wisconsin, Milwaukee, WI

32. Antimicrobial Susceptibility of E. coli Isolated From Intra-abdominal Infection Sites in the United States: Results from SMART 2002, 2003, & 2004

Bochicchio GV, Snyder TA, Satishchandran V, McCarroll K, Rawlins S, Gallagher G, Abramson MA, DiNubile MJ, Chow JW; Merck & Co., Inc.

Discussant: Donald E. Fry, M.D., Michael Pine Associates, Chicago, IL

33. Are Patients On Isolation At Greater Risk For Developing An Infection?

Swoboda S, Lipsett P; Johns Hopkins University, Baltimore, MD

Discussant: David Mercer, M.D., Lyndon B Johnson Hospital, University of Texas Medical Center, Houston, TX

34. Race and Insurance-Related Utilization Patterns of Laparoscopic Appendectomy versus Open Appendectomy for Acute Appendicitis in New York State: Secondary Data Analysis of 26,104 Adult Patients Using a Standardized Dataset

Pieracci FM, Eachempati S; Weill Medical College of Cornell University, New York, NY

Discussant: Timothy Pruett, M.D., University of Virginia, Charlottesville, VA

35. Outcome of Acinetobacter baumannii infection in critically ill surgical patients.

Trottier V, Namias N, Pust DG, Nuwayhid Z, Manning R, Marttos AC, Dunham MB, Schulman CI; University of Miami/ Jackson Memorial Hospital, Miami, FL

Discussant: David Dunn, M.D., University of Minnesota, Minneapolis, MN

36. Incidence of Post-Discharge Surgical Site Infection in the Injured Patient

Warner KJ, Nester TA, McIntyre LK, Nathens AB; Harborview Medical Center/University of Washington, Seattle, WA

Discussant: Pamela A. Lipsett, M.D., Johns Hopkins, Baltimore, MD

P22. Leukocyte Dectin-1 surface expression is differentially modulated in fungal versus polymicrobial sepsis

Ozment-Skelton TR, Ferguson DA, Kalbfleisch JH, Brown GD, Gordon S, Williams DL; East Tennessee State University, Johnson City, TN

P23. A Peptide Based On The Lipopolysaccharide (LPS)-Binding Domain Of Limulus Anti-LPS factor (LALF) Neutralizes LPS And Is Bactericidal Against Strains Of Yersinia enterocolitica With Or Without A Virulence Plasmid

Wasiluk KR, Banton KL, Dunn DL; University of Minnesota, Minneapolis, MN

P24. Enhanced Lipopolysaccharide (LPS)-Neutralization Activity Of A Single-Chain Fv (scFv) Derived From An Anti-Deep Core/Lipid A (DCLA) Monoclonal Antibody (mAb) to LPS

Wasiluk KR, Banton KL, Dunn DL; University of Minnesota, Minneapolis, MN

P25. CD154 Release by Platelets may Provide Protection after Severe Injury.

MacConmara MB, Fujimi S, Maung AA, Mannick JA, Lederer JA, Lapchak PH; Brigham and Women's Hospital, Harvard University, Boston, MA

P26. Perioperative Infection Control And Its Effectiveness In Hepatectomy Patients

Togo S; Yokohama City University, Yokohama, Japan

P27. Effects Of Smoke Inhalation Injury And Septic Shock On Ovine Cerebral Blood Flow

Maybauer DM, Maybauer MO, Traber LD, Gordon AH, Westphal M, Enkhbaatar P, Nakano YY, Hoch N, Traber DL; University of Ulm, Ulm, Germany

P28. A Model Of Soft Tissue Infection With Methicillin-Sensitive Staphylococcus aureus In Non-Neutropenic Mice

Wasiluk KR, Skarda DE, Banton KL, Mulier KE, Beilman GJ, Chipman JG; University of Minnesota, Minneapolis, MN

P29. Effect of Ciprofloxacin-Induced PGE2 on LPS-Treated Monocyte

Iwagaki H, Takahashi HK, Xue D, Katsuno G, Saito S, Nishibori M, Tanaka N; Okayama University Medical School, Okayama, Japan

P30. Synthetic Liver X receptor Agonist T0901317 Reduces Liver Injury And Dysfunction Caused By LPS In The Rat

Wang Y, Dahle MK, Collins JL, Thiemermann C, Aasen AO, Wang JE; Rikshospitalet University Hospital, Oslo, Norway

P31. The Spectrum Of Staph aureus Bacteremia In A Tertiary Care VA Hospital

Francis WP, Newman CL, Tennenberg SD; Wayne State University School of Medicine, Detroit, MI

P32. Hepatic Acute Phase Response Reflects Pro-Inflammatory Cytokine Expression at the Site of Injury

Bauza G, Nadraga Y, Kakar S, Silkman L, Al-Sebaei M, Wang K, Gerstenfeld LC, Einhorn TA, Burke PA; Boston University Medical Center, Boston, MA

P33. Effects of Ketamine on Lipopolysaccharide (LPS) Induced Changes in Gastrointestinal Transit

Adams SD, Daigle CE, Radhakrishnan RS, Weisbrodt NW, Mercer DW; University of Texas Health Science Center at Houston, Houston, TX

P34. Lipopolysaccharide Attenuates Expression Of Several Adenylyl Cyclase Isoforms

Risoe PK, Wang Y, Stuestol J, Aasen AO, Wang JE, Dahle MK; Rikshospitalet University Hospital, Oslo, Norway

P35. Infections Following Gastric Injury

Edelman DA, Donoghue L, White MT, Tyburski J, Wilson RF; Wayne State University, Detroit Medical Center, Detroit, MI

P36. A Novel Model of Antibiotic Treated Chronic Intraperitoneal Infection and Pneumonia

Woods DR, Peyton J, Turina M, Cheadle W; University of Louisville, Louisville, KY

P37. Liver X Receptor Is A Key Regulator Of Lipopolysaccharide-Induced Cytokine Release

Myhre AE, Agren J, Dahle MK, Thiemermann C, Lyngstadaas SP, Collins JL, Aasen AO, Wang JE; Rikshospitalet University Hospital, Oslo, Norway

P38. Severely Burned Pediatric Patients who are Septic Develop Extreme Immune Exhaustion Prior to Death

Finnerty CC, Herndon DN, Jeschke MG; Shriners Burns Hospital for Children, University of Texas Medical Branch Galveston, Galveston, TX

P39. Normoglycemia, With Or Without Insulin Administration, Is Associated With Lower Infection Rates

McElearney S, Hedrick T, Evans H, Schulman A, Pruett T, Sawyer R; University of Virginia, Charlottesville, VA

P40. Microbiology of Infected Acellular Dermal Matrix (Alloderm®) in Patients Requiring Complex Abdominal Closure After Emergency Surgery

Awad SS, Rao R, Berger DH, Albo D, Bellows CF; Baylor College of Medicine, Houston, TX

P41. Novel Model Of Ovine Sepsis

Enkhbaatar P, Gordon A, Traber LD, Nakano Y, Maybauer MO, Cox R, Hawkins H, Schmalstieg F, Herndon D, Traber D; University of Texas Medical Branch Galveston, Galveston, TX

P42. Defining the Attributable Mortality of Surgical Infection

Evans H, Anastacio M, Hedrick T, Schulman A, McElearney S, Pruett T, Sawyer R; University of Virginia Health System, Charlottesville, VA

P43. Does Season Impact the Incidence and Microbiology of Pneumonia in Trauma Patients?

Bochicchio KM, Bochicchio GV, Joshi M, Mills M, Meyer W, Pyle AM, Schaub S, Scalea T; University of Maryland, Baltimore, MD

P44. Affordable and Secure Data Management in Multi-Institutional Clinical Trials

Schell SR; University of Medicine and Dentistry of New Jersey, New Brunswick, NJ

P45. Sequential Antimicrobial Therapy with Fluoroquinolone for Peritonitis

Mikamo H, Izumi K, Tanaka K, Tamaya T, Watanabe K; Gifu University Life Science Research Center Division, Gifu, Japan

P46. The Effect of High-Dose Antibiotic Irrigation on Human Fibroblast Proliferation, Viability and Production of Collagen in vitro

Nemeth N, Levesque A, Phillips L; Shriners Burns Hospital for Children, University of Texas Medical Branch Galveston, Galveston, TX

P47. Complications Associated with Morbid Obesity and Trauma

Perez JM, Hong J, Coyle S, Nackman G, Hammond J; University of Medicine and Dentistry of New Jersey, Newark, NJ

P48. The Use Of Aerosolized Aminoglycosides In The Treatment Of Gram Negative Ventilator-Associated Pneumonia

Mohr AM, Savetamal A, Sadek R, Horng HS, Sifri ZC, Hauser CJ, Livingston DH; University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, NJ

15:30-17:00 PM

**CLINICAL SYMPOSIUM II:
Fungal Pathogens in Surgical Infection**

Grande Ballroom DE

Moderators: *Robert G. Sawyer, M.D.*, University of VA-Charlottesville, Charlottesville, VA
William Cheadle, M.D., University of Louisville, Louisville, KY

1. **The Present State of Fungal Infections in the SICU-Changing Bugs/Changing Drugs**
Pamela A. Lipsett, M.D., Johns Hopkins, Baltimore, MD
2. **Glucans, Dectins and the Innate Immune Response to Fungal Pathogens**
David L. Williams, Ph.D., East Tennessee State University, Johnson City, TN
3. **Hsp90 and its Role in Fungal Drug Resistance**
Leah E. Cowen, Ph.D., Massachusetts Institute of Technology, Boston, MA

19:00-20:00 PM

RECEPTION

Pavilion Terrace

20:00-22:00 PM

AWARDS BANQUET

Pavilion Ballroom

SATURDAY, APRIL 29, 2006

06:30-07:45 AM **SUNRISE SYMPOSIUM III** *Grande Ballroom DE*
“MRSA in the Community: What’s the Best Approach”
SIS thanks Pfizer, Inc. for the Unrestricted Educational Grant in support of this session.

Moderator: Eileen Bulger, M.D.

1. CA-MRSA and HA-MRSA: Differences? Gregory J. Beilman, M.D.

2. Antimicrobial Treatment Strategies in CA-MRSA: What Works? Addison May, M.D.

3. Surgical Treatment and Infection Control of CA-MRSA Lena M. Napolitano, M.D.

08:00-09:30 AM **CLINICAL/THERAPEUTICS SYMPOSIUM III:** *Grande Ballroom DE*
Unique Therapeutic Perspectives: Surgical Infection

Moderators: Soumitra R. Eachempati, M.D., Cornell Medical School, New York, NY
Craig M. Coopersmith, M.D., Washington University, St. Louis, MO

A Surgical Infection Perspective of the Hurricane Katrina Disaster Medical Response
Rena Stafford, M.D., University of North Carolina, Chapel Hill, NC

Followed by

PRO/CON DEBATE: Low-dose Steroids: When and Who Should Get Them?

PRO: All patients with refractory septic shock should get low-dose steroid therapy
Craig M. Coopersmith, M.D., Washington University School of Medicine, St. Louis, MO

CON: Baseline cortisol levels should dictate low-dose steroid treatment of septic patient
Philip S. Barie, M.D., M.B.A., Weill Medical College of Cornell University, New York, NY

09:45-12:00 PM **PLENARY SESSION II:** *Grande Ballroom DE*
The Science of Surgical Infections (Papers 41-46)

Moderators: Eileen Bulger, M.D., University of Washington, Seattle, WA
Ori Rotstein, M.D., St. Michael’s Hospital, University of Toronto, Ontario, Canada

41. Regulation of the Post-Burn Wound Inflammatory Response by Gamma-Delta T-Cells

Schwacha MG, Daniel T, Hubbard WJ, Chaudry IH; University of Alabama at Birmingham, Birmingham, AL

Discussant: Toliver-Kinsky TE; Shriners Burns Hospital for Children, University of Texas Medical Branch Galveston, Galveston, TX

42. Liver Cell Apoptosis During Ischemia/Reperfusion Injury Is Prevented By Antecedent Hind Limb Ischemia

Wang F, Tawadros PS, Zou M, Birch S, Rotstein OD; St. Michael's Hospital/University of Toronto, Toronto, Ont, Canada

Discussant: Peter A. Burke, M.D., Boston University Medical Center, Boston, MA

43. Trauma Suppresses PMN Function by Inhibiting Lysophospholipid-dependent Ca²⁺ Entry

Hauser CJ; UMDNJ-New Jersey Medical School, Newark, NJ

Discussant: Lawrence Diebel, M.D., Wayne State University School of Medicine, Detroit, MI

44. The Myeloid Immune Response In Sepsis: A Case For 'What Doesn't Kill Us Makes Us Stronger'!

Perl M, Perl U, Lomas-Neira J, van Rooijen N, Chung C, Ayala A; RI Hospital/Brown University, Providence, RI

Discussant: Craig M. Coopersmith, M.D., Washington School of Medicine, St. Louis, MO

45. Stimulation of Hemopoiesis by Fms-Like Tyrosine Kinase-3 Ligand Improves Survival in Mice with Infected Burn Wounds

Przkora R, Herndon DN, Cui W, Sherwood ER, Toliver-Kinsky TE; Shriners Burns Hospital for Children, University of Texas Medical Branch Galveston, Galveston, TX

Discussant: Joseph Cuschieri, M.D., University of Washington, Seattle, WA

46. Insulin Decreases Inflammatory Signal Transcription Factor Expression in Primary Human Hepatocytes after LPS Challenge

Jeschke MG, Weiss T, Thasler W, Bolder U, Schlitt HJ, Jauch K, Klein D, Herndon DN; Shriners Burns Hospital for Children, University of Texas Medical Branch Galveston, Galveston, TX

Discussant: Jacob E Wang, Ph.D., Rikshospitalet University Hospital, Oslo, Norway