

CURRICULUM VITAE

NAME: Robert W. Schulze, M.D. FACS

EMPLOYMENT HISTORY: 7/99-Present
Assistant Professor of Surgery
Division of Trauma/Critical Care
SUNY Downstate/Kings County Hospital
Brooklyn, NY

3/01- Present
Clinical Assistant Dean
Student Affairs
SUNY Downstate
Brooklyn, NY

11/04- Present
Director of Parenteral Nutrition
SUNY Downstate
Brooklyn NY

EDUCATION:

UNDERGRADUATE: Boston University
Boston, Massachusetts
B.A., 1986

GRADUATE: Boston University
Boston, Massachusetts
M.A., 1988

Boston University
Boston, Massachusetts
M.D., 1992

BOARD CERTIFICATIONS:

Diplomat American Board of Surgery
Certificate Number 45102
4/00

Critical Care Board Certified
Certificate Number 1849
10/00

POSTDOCTORAL TRAINING:

INTERNSHIP/
RESIDENCY:

UMDNJ-Robert Wood Johnson Medical School
Piscataway/New Brunswick, New Jersey
PGYI & PGYII – Resident in General Surgery
7/92-6/94

RESIDENCY:

UMDNJ-Robert Wood Johnson Medical School
Piscataway/New Brunswick, New Jersey
PGY III & PGYIV – Resident in General Surgery
7/95-6/97

UMDNJ-Robert Wood Johnson Medical School
Piscataway/New Brunswick, New Jersey
PGY V – Chief Resident in General Surgery
7/97-6/98

FELLOWSHIP:

University of Maryland, MIEMMS
Baltimore, Maryland
PGY VI Fellow in Trauma/Critical Care
7/98-6/99

PAST RESEARCH

7/94-6/95
Harvard University Medical School
New England Deaconess Hospital
Department of Surgical Oncology
Research Topic: Signal Transduction
In Endotoxin Stimulated Kupffer Cells

7/86-7/88
Boston, Massachusetts
Department of Pathology
Masters Dissertation: Role of Cholesterol Metabolism

And its Role In Colon Cancer

TEACHING

7/94-6/95

Northeastern University

Boston, Massachusetts

(Clinical Instructor – Emergency Medical Services)

7/94-6/95

Massachusetts Bay Community College

Wellesley, Massachusetts

(Clinical Instructor – Paramedic Program)

9/88-7/91

University of Massachusetts

Boston, Massachusetts

(Lecturer – Emergency Medical Services)

NATIONAL COMMITTEES

SCCM Graduate and Med Education Committee

SCCM Resident On-Line ICU Course Committee

UNIVERSITY SERVICE

1) GME Competency Committee 3/2006-pres

2) Internal Review of Emergency Residency Program for
GME Office, 5/2006

3) Internal Review of Neuroradiology

Fellowship and General Radiology Residency Program

Mandated by ACGME for the GME Office 4/2005

4) Director, Multidisciplinary Trauma Conf 7/99-6/04

5) Co-Director Multidisciplinary Trauma Conf 9/06-pres

6) Member, Medical Records Comm

7) Member, Pain Management Comm

8) Res Education Coordinator KCH 4/02-9/07

9) Member Surgical Education Comm

10) Medical School Admissions Committee Interviewer

11) Surgical Residents Family Leader

Chosen by residents as mentor

LICENSURE:

New Jersey: 59514

Massachusetts: 80129

New York: 214748-1

SOCIETY MEMBERSHIPS: American College of Surgeons (Fellow)

Society of Critical Care Medicine

Eastern Association for Surgery of Trauma

Mass Medical Society

Southeastern Surgical Congress

Society for Academic Surgery

Invited Presentations: Trends in the Management of Respiratory Failure
SUNY Downstate Department of Neurosurgery
Grand Rounds 12/7/00

Surgical Nutrition in the ICU
SUNY Downstate, Department of Thoracic Surgery
Grand Rounds 3/9/05

Nutrition in the ICU
SUNY Downstate, Department of Pulmonary Medicine
Grand Rounds 4/11/06

Nutrition in Renal Failure
SUNY Downstate, Department of Nephrology
Grand Rounds 1/9/07

TEACHING RESPONSIBILITIES: Course Director, Surgical Nutrition
4th year elective, SUNY Downstate

Third Year – Intro to Trauma
Two hour lecture – Six times a year

Third Year Abdominal Trauma
Two hour lecture – Six times a year

PGYII SICU Talks – Vent Management
Six times a year

Oral Examiner – Third year clerkship
Six times a year 9/99-6/2003

Wound Care Lecture,
Abdominal Exam

Trauma Care, PA Lectures yearly

CERTIFICATIONS:

Diplomat of the National Board of Medical Examiners 1993
Advanced Cardiac Life Support, American Heart Association
Advanced Trauma Life Support Course – Instructor
Basic Cardiac Life Support, American Heart Association
Pediatric Advanced Life Support

GRANT SUPPORT

Primary Investigator- Dean's Initiative in Research Investment Program.
"Sophorolipids block lethal effects of septic shock" (\$20,000, 7/1/04-6/31/05)

Subinvestigator, A multi-center, randomized, double blind, parallel group, placebo controlled trial to evaluate the efficacy and safety of activated recombinant factor VII in the treatment of refractory bleeding in severely injured patients.

Subinvestigator, "A comparison of Omeprazole Sodium Bicarbonate- Immediate Release powder for Suspension to Intravenous Cimetidine for the Prevention of Upper Gastrointestinal Bleeding Due to Stress-Related Mucosal Damage".
Santurus Inc, Grant # OSB-IR-C03, 2002-2004

Subinvestigator, A Prospective, Randomized, Double Blind Multicenter Trial Assessing the Safety and Efficacy of Sequential (Intravenous/Oral) Bay 12-8039 (Moxifloxacin) 400 mg every 24 hours compared to intravenous Piperacillin/Tazobactam 3.375 Grams every 12 hours for the Treatment of Patients with Intraabdominal Infections." Bayer Corporation, Grant # 100272, 2002-2003

Subinvestigator, "A Prospective, Multicenter Study of Anemia in Critical Illness Transfusion in the Critically Ill Patient." Ortho Biotech Inc, Grant # PR00-15-01, 2000-2001

Hubert Humphrey Summer Research Scholarship
6/89-8/89

Department of Health and Human Services (T32 Research Grant)
7/94-6/95

CURRENT PROJECTS

Role of Sophorolipids in Sepsis using a Rat Cecal-Ligation and Puncture Model
ACUC approved

Role of Aortic Cross Clamping in a Porcine Hemorrhagic Model during
Resuscitative Thoracotomy. ACUC approved

Importance of the Third Year Surgical Clerkship on Student's decisions to
Pursue a Surgical Career. IRB approved

PUBLICATIONS:

1. Schulze RW, Gangopadhyay A, Lazure D, Steele G, Thomas P: Tyrosine "Phosphorylation Is Important for Signal Transduction in Endotoxin Stimulated Kupffer Cells." Hepatology, Vol. 22;4 Part 2, page 305A, October,1995.
2. Schulze RW, Gangopadhyay A, Cay O, Lazure D, Thomas P: "Tyrosine Kinase Activation In LPS Stimulated Rat Kupffer Cells" In Press: Receptors and Signal Transduction,1998
3. Manoach SM,Corinaldi C,Schulze R, et al. "Comparison of needle Cricothyroidotomy with translaryngeal ventilation versus open cricothyroidotomy in a failed rapid sequence sheep model." [Abstract] . *Academic Emergency Medicine* 2003; 10: 483.
4. Safriel, Sclafani Schulze. "CT signs of Urethral Injuries". *Radiographics*. 2003 Jul-Aug;23 (4): 951-963; discussion 963-964
5. Kandil E,Zhang H, Schulze R, et al; "Sophorolipids block lethal effects of septic shock". *J Am Coll Surg* 2003;197 (3S), S40-1,
6. Manoach, Paladino, Schulze et al.; "Percutaneous Transcricoid jet ventilation compared to surgical cricothyroidotomy", *Resuscitation*, 2004;62(1): 79-87
7. Bluth, Hardin, Schulze, et all."Sophorolipids block lethal effects of septic shock in rats using a cecal ligation and puncture model of experimental sepsis". *Journal of Critical Care Medicine*, vol 34, no 1, pgs 188-195, Jan 2006
8. Bluth MH, Smith-Norowitz TA, Hagler M, Beckford R, Chice S, Shah V, Gross R, Nowakowski M, Schulze R, Zenilman ME (2006) "Sophorolipids decrease IgE production in U266 cells." *American Academy of Asthma*

Allergy and Immunology. Abstract #779. Published as supplement in *Journal of Allergy and Clinical Immunology* **117**, S202.

9.

Hagler M, Smith-Norowitz TA, Chice S, Wallner S, Viterbo D, Mueller C, Gross R, Nowakowski M, Schulze R, Zenilman ME, Bluth MH. Sophorolipids decrease IgE production in U266 cells by downregulation of BSAP (Pax5), TLR2, STAT3 and IL-6. (2007) *American Academy of Asthma Allergy and Immunology*. Abstract #1030. Published as supplement in *Journal of Allergy and Clinical Immunology* 119, S263.

PRESENTATIONS:

1. “Tyrosine Phosphorylation is Important for Signal Transduction in Endotoxin Stimulated Kuppfer Cells.” Presented at the American Association for the Study of Liver Diseases: Chicago, Illinois, November 7, 1995
2. Gangopadhyay A, Lazure DL, Schulze RW, Jessup JM, Steele G. Thomas P: “Carcinoembryonic Antigen induces Signal Transduction in Kuppfer Cells” American Association for Cancer Research, 1996
3. Kandil, Zenilman, Schulze et al, “Sophorolipids Block Lethal effects in an Animal Model of Septic Shock”. Downstate Research Day, 2003
4. Ali, Safriel, Schulze, Sclafani. “The Last Slice:CT Signs of Urethral Injuries.” Radiologic Society of North America, Dec 1st 2001.
5. Beckles,Kandil,Schulze et al. “Emergent Thoracic Aorta Cross Clamping Offers no Additional Benefits over Fluid Resuscitation in a Hemorrhagic Porcine Shock Model” New York State Trauma Day, Dec 5th, 2003
6. Kandil,Zenilman,Schulze et al. “Sophorolipids Block Lethal Effects of Septic Shock” American College of Surgeons Surgical Forum. Oct 19,2003
7. Bluth M, Hardin R, Pierre J, Schulze R, et al.; “Sophorolipid Treatment Modulates Leukocytes Adhesion Molecule Profiles in Intraabdominal Sepsis.” FASEB, San Diego, CA, March 31-April 5th,2005. FASEB 35th Annual Meeting, San Diego Ca, March 31-April 5th, 2005. Abstract #255.5. Published as supplement in FASEB Journal 19,A352.
8. Hardin, Bluth, Schulze “Single and Sequential Dosing of Sophorolipids Improves Survival in Experimental Intraabdominal Sepsis” The American College of Surgeons Committee on Trauma, New York, NY. Dec 3, 2004
9. Mueller CM, Shah V, Schulze R, Zenilman ME,. “Sophorolipid treatment decreases inflammatory cytokine expression in an *in vitro* model of experimental

- sepsis.” *FASEB 36th annual meeting*, San Francisco, CA, April 1-5, 2006. Abstract # 148.8. Published as a supplement in *FASEB Journal* 20, A204.
10. Hardin, Pierre, Schulze, Zenilman,. “Sophorolipids Improve Survival in an Intraabdominal Sepsis Model: Effect of Dosing and Derivatives”. Academic Surgical Congress, Feb 2007.
 11. Mueller, Hardin, Pierre, Schulze, Bluth. “Decreased Serum Zinc Levels Correlate with Disease Severity in Experimental Sepsis.” Experimental Biology Meeting, Washington DC, April 28-May2, 2007. Abstract #712.6. Published in *FASEB Journal*, 21, No 6,A 767-768.