

NAME: Stella Nowicki, MD, DDS

DATE: July, 2015

PRESENT POSITION AND ADDRESS:

Professor,	Department Microbiology and Immunology	09/2005-present
Tenure,	Meharry Medical College	07/2008- 07/2018
Director	Collaborations and Partnerships Meharry Translational Research Center (MeTRC)	2010- present
Key Leader	Research Center in Minority Institution (RCMI) Network	07/2013- 2018

Meharry Medical College, 1005 Dr. D.B. Todd, Jr., Blvd., Nashville, TN 37208

BIOGRAPHICAL:

PLACE OF BIRTH:	Slupsk, Poland
CITIZENSHIP:	U.S. Citizen
MARITAL STATUS:	Married
HOME ADDRESS:	114 Governors Way Brentwood, TN 37027-8932

EDUCATION:

Medical School	Medical School, Dental Branch Gdansk University, Poland, MD and Doctor of Dental Surgery (DDS)	10/1977-10/1983
Postdoctoral	Helsinki University, Finland Scholarship in Oral Microbiology	6/1984-6/1985
Postdoctoral	Postdoctoral Fellowship, Research Associate I Department of Microbiology Baylor College of Medicine, Houston TX	6/1986 – 12/1989
Postdoctoral	Postdoctoral Fellowship, Research Associate II	

Department of Immunology
Baylor College of Medicine, Houston TX 1/1990 – 10/1991

PROFESSIONAL AND TEACHING EXPERIENCE:

A. UNIVERSITY APPOINTMENTS:

1. Research Associate II, Marine Biomedical Institute, University of Texas Medical Branch (UTMB) 1991
2. Junior Faculty-Research Instructor, Ob/Gyn, UTMB 1992-1993
3. Assistant Professor, Microbiology and Immunology, UTMB 9/1993-9/2001
4. Assistant Professor, Ob/Gyn, UTMB 9/1993-9/2001
5. Associate Professor, Head of Experimental Laboratory, Division of Infectious Diseases, Ob/Gyn, UTMB 9/2001-9/2005
6. Associate Professor, Microbiology and Immunology; UTMB 9/2001-9/2005
7. Associate Professor, Sealy Center for Vaccine Development; UTMB 9/2001-9/2005
8. Endowed Professor, OB/GYN, MMC 9/2005-9/2009
9. Professor Microbiology and Immunology, MMC 9/2005-present
10. First Scientific Director, Center for Woman's Health Research, MMC 9/2005-6/2007
11. Director for Collaborations and Partnerships, MeTRC/NIH, 05/2010-05/2014

- B. SUPERVISORY RESPONSIBILITIES:** Preceptor of 42 fellows and students.

1. Medical Student: Gregory Schulmeier Immunology Lab, Baylor College of Medicine; 1991.
2. Postdoctoral Training: Gustavo Flores, Ph.D., Bacteriology, Ob/Gyn, UTMB; 1993-1994.
3. High School Student in Summer Research Program; Kristopher Harris; 1993.
4. Science Fair Project; Kristopher Harris; 1993-1994.
5. Postdoctoral Fellowship; Anil Kaul, M.D.; 1993-1996.
6. Postdoctoral Training: Prashanth Ram, M.D., Bacteriology, Immunology and Molecular Biology, Ob/Gyn; 1994-1996.
7. Postdoctoral Training: Rashmi Kaul, Bacteriology; Ob/Gyn; 1995-1996.
8. Predoctoral Training, Sandhya Ram, B.S., Bacteriology, Immunology; 1994-1996.
9. Postdoctoral Training: Andrzej Skarpetowski, M.D., Ob/Gyn; 1995-1996.
10. Undergraduate Training: Edyta Pawelczyk; 1995.
11. Research Associate: Audrey Hart; 1996-2005.
12. Graduate Student: Khoa Nguyen; 1997-2000.
13. Medical Student: Rex Trevor Russell; 1997-1998.
14. Medical Student: Alex Gordon; 1997.
15. High School Student Summer Research Program: Keira Scanks; 1998.
16. Undergraduate A&M Student: Eric Wilder; 1997-1998.
17. Postdoctoral Training: Margaret Das, Ph.D.; 1998-2002.
18. Undergraduate Student Sharon McConley – Summer Research Program; 1999.
19. High School Student Amanda Lampton - Summer Research Program; 1999.
20. Medical Student: Michael Hold; 2001-2002.
21. Medical Student: Erik B. Motsenbocker; 2002-2003.
22. Graduate Student: Jennifer Crawford; 2002-2003.
23. Graduate Student: Rafia Hasan, Microbiology; 1998-2004.
24. Graduate Student: Edyta Pawelczyk; UTMB, 2000-2004.
25. Lesleigh Lee; Graduate Student at Meharry Medical College: 2006
26. Ob/Gyn Resident at Meharry Medical College: Dr. Kesha Robertson; 2006-Present
27. Ricardo Abahka, Dental Student at MMC; summer 2007
28. Shelane Hill, Dental Student at MMC; summer 2007
29. Jibril Palmer, Medical Student at MMC; Nov 2007 – present

30. Hoka Nyanda, Resident at Medical University of South Carolina, Nov 2007 – present
31. Candice Johnson, Graduate Student at MMC, Jan – February 2008
32. Keri McLean, Graduate Student at MMC, Jan – February 2008
33. Candice Johnson, Graduate Student at MMC, 2008-2009
34. Kelsi Hurt, Graduate Student at MMC, 2009-2010
35. Samuel Pellom, Graduate Student at MMC, 2009
36. **Rajbir Singh, MD –Postdoctoral Fellow, MMC, June 2010-2014**
37. **Tanu Rana, PhD-Postdoctoral Fellow, MMC, August 2010-2015**
38. Nicole Pace, MMC, MD student June -August 2011 (8 weeks)
39. Emon Felton, MMC, MD student June –August 2012 (8weeks)
40. Nadia Winston, MMC, MS student January-May 2012 (22weeks)
41. Mariella Ntamatungiro, MMC, MD student June –August 2013 (8 weeks)
42. Ariel Ansley, MMC, MD student June-August 2013 (8 weeks)
43. Jessica Sutton, MMC/Vanderbilt, PhD student March 2014-present

RESEARCH ACTIVITIES:

A. AREAS OF RESEARCH:

- I. The primary objective of our laboratory is infection and immunology of uro-genital tract:
 1. Immunology of preterm labor
 2. Racial disparities in preterm labor
 3. *E. coli* infection and preterm labor
 4. Low birth weight, uterine infection and nitric oxide
 5. Virulence mechanism of *Neisseria gonorrhoeae* in Pelvic Inflammatory Disease (PID) and septicemia
 6. Animal model of gonococcal infection supported by J. Sealy Foundation. (S. Nowicki et al., Infect Immun. 63:4790-94, 1995) U.S. Patent No. 5,824,480
 7. Novel diagnostic method for gonococcal PID supported by J. McLaughlin Foundation. (S. Nowicki et al., Infect Immun. 65:2094-99, 1997) U.S. Patent 1998

8. Novel microbial virulence mechanism of PID and DGI strains of *N. gonorrhoeae* that bind human complement C1q (part of human defense system) to increase bacterial virulence (survival and attachment)
9. Vaccine development for gonococcal PID. (patent)
10. *E. coli* pyelonephritis and preterm labor (past grant R01 2002-2007)
11. Cardiovascular disease (grant 2006-2008)
12. Endometriosis (active R01 grant May 2007 – May 2012)
13. Periodontal Disease and PTL (in progress)

II. Study in Collaboration

1. Molecular mechanism of C1q dependent virulence of *N. gonorrhoeae*.
2. Complement C1q support development of fetal septicemia by challenging pregnant rats with *N. gonorrhoeae*.
3. Vaccine development for gonococcal PID, and septicemia identification and purification of C1q binding antigens of *N. gonorrhoeae*. Collaboration with Dr. S. Morse Director of STD at C.D.C. Atlanta, GA.
4. Influence of host factor C1q on *N. gonorrhoeae* survival, adhesion, invasion and dissemination.
5. Uropathogenic *E. coli*. Collaboration with Dr. Bogdan Nowicki and his laboratory.
6. Hormonal influence on bacterial infection Collaboration with Dr. Manubai Nagamani, Professor Ob/Gyn Department, UTMB.
7. Gonococcal transferrin binding proteins. Collaboration with Dr. Fred Sparling, Professor, Department of Microbiology, Chapel Hill, University of North Carolina.
8. DAF expression in malignancy. Collaboration with Dr. B. Nowicki, Associate Professor, Department of Ob/Gyn, UTMB and Dr. Manubai Nagamani, Professor, Department of Ob/Gyn, UTMB.
9. Infection during pregnancy and nitric oxide. Collaboration with Dr. Chandra Yallampalli, Professor, Ob/Gyn Department, UTMB.
10. Gonococcal serum resistance and complement activation, Collaboration with Dr. Peter Rice, Professor, Director, Boston University.
11. Complement binding to *N. gonorrhoeae*. Collaboration with Dr. Sanjay Ram. Assistant Professor, Boston University.
12. DAF expression in preterm labor.
13. Preterm delivery and TLR4.

14. Alzheimer's Disease.
15. Biochemistry of *E. coli* Dr. fimbriae, collaboration with Dr. Josef Kur, Professor Gdansk, University.
16. Ob/Gyn Resident Dr. Kesha Robertson – Research with Dr. Witty – Collaboration.
17. "Periodontal Disease as a Risk Factor for PTL Molecular Mechanism" Collaboration with Paulette Tempo, DDS.
18. "Periodontal Disease as a Risk Factor for PTL Molecular Mechanism" Collaboration with Paulette Tempo,
19. CD55 in Endometriosis, collaboration with Dr. Kevin Osteen, Vanderbilt University

III. Background and Significance.

1. PID - major complication of genital tract caused by *N. gonorrhoeae* and Chlamydia Trachomatis. Affects young women in the reproductive age. Major risk factor infertility, ectopic pregnancy and chronic pain. Increase (7 times) risk for HIV transmission.
2. Urinary tract infection (UTI) is a risk factor for preterm labor, low birth weight and for end stage renal disease.
3. Preterm Labor
4. Cardiovascular Disease in Women
5. Endometriosis

GRANT SUPPORT

CURRENT (4):

NIH/U54 RR-01 Adunyah (PI) 07/1/2014-06/30/2019
Meharry Clinical and Translational Research Center (MeTRC)
The goal is to establish a research center in Minority Institutions
Infrastructure for Clinical and Translational Research (RCTR)
Budget: \$17,000,000.00
Role: Director for Collaborations and Partnerships (S. Nowicki)

RCMI Translational Research Network (RTRN) Drew University, California
Funding: NIH/NCRR; 07/1/2015-06/30/2019; Keith Norris-PI
Total Budget: \$5,000,000.00
Budget: \$0
Role: RTRN Liaison (S. Nowicki)

CD55, vitamin D, and race in preterm labor;
Funding: NIH- MeTRC Big Science; 01/15/2012- 05/01/2015;
PI S. Nowicki
Budget: \$200,000.00
Role: PI (S. Nowicki)

T32 NIH NHLBI F. Villalta (PI) 07/01/2014-06/30/2019
Cardiovascular Biology
The goal of the project is to provide Cardiovascular training program for
Meharry Medical College students in graduate school
Role: Faculty Advisor (S. Nowicki)

Recent (10):

1. 5 U54 RR026140-01 Adunyah (PI) 09/30/2009-
06/30/2014
Meharry Clinical and Translational Research Center (MeTRC)
The goal is to establish a research center in Minority Institutions
Infrastructure for Clinical and Translational Research (RCTR)

Budget: \$21,000,000.00

Role: Director for Collaborations and Partnerships (S. Nowicki)

2. Title: The Prevention of Cardiovascular Disease in Women

Staff: PI: S. Nowicki

Date: 09/2006 – 03/2010;

Funding: Fannie E. Rippel Foundation; \$150,000

2. Title: **Infection and Fetal Growth Restriction**; Budget:

Staff: Co-PI; Yallampalli-PI

Date: 08/2004-09/2011

Funding: NIH, R01; \$1,125,000.00;

3. Title: CD55, Infection, and Race in Preterm Delivery.

Staff: PI: S. Nowicki

Date: 09/2004-09/2009;

Funding: NIH R01 1R01 HD41687-01;

4. Title: Loss of Complement Protective CD55 Expression

Staff: PI: K. Osteen (VU) and PI: S. Nowicki (MMC),

Sub-award with Vanderbilt University: S. Nowicki

(\$1,100,000.00/5y)

Date: 05/2007-04/2013

Funding: NIH/NICHD: R01 1R01HD055648-01; \$2,600,000.00

6. “Identification of DAF (CD55) Residues that Facilitate Invasion and Intracellular Survival of the Gestational Pathogen *Dr+ E. coli*” in 2012. Vanderbilt's Institute for Clinical and Translational Research (VICTR) grant Awarded \$2000

7. RCMI Translational Research Network (RTRN) Drew University, California

Funding: NIH/NCRR; 07/30/2009-06/30/2014; Keith Norris-PI

Total Budget: \$5,000,000.00

Budget: \$115,500.00

Role: RTRN Liaison (S. Nowicki)

8. “Microarray profiling of microRNAs expressed in HeLa cells/ECC1 cells upon Dr *E. coli* infection” in 2011. Vanderbilt's Institute for Clinical and Translational Research (VICTR) grant Awarded \$2000
9. “Serum reproductive hormone and CD55 levels in preterm labor” 07/11 Vanderbilt's Institute for Clinical and Translational Research (VICTR) grant Awarded \$2000
10. T32 NIH NHLBI F. Villalta (PI) 07/01/2009-06/30/2014
Cardiovascular Biology
The goal of the project is to provide Cardiovascular training program for Meharry Medical College students in graduate school
Role: Faculty Advisor (S. Nowicki)

PAST GRANT SUPPORT (12):

1. Title: Role of Bacterial Lectins in Kidney Disease
Staff: Co-Investigator
Date: 1991-1995
Funding: NIH DK42029; \$1,155,562.00
2. Title: Role of Bacterial Lectins in Kidney Disease
Staff: Co-Investigator
Date: 1996-2000
Funding: NIH 2 R01 DK42029-04A2; \$1,096,416.00
3. Title: Molecular Interaction Between DAF and *Escherichia coli* Dr Adhesin as the First Step of Infection in Pyelonephritis and Diarrhea
Staff: Co-Investigator
Date: 1997–1998
Funding: Sealy Center for Structure Biology: \$10,000.00
4. Title: Contribution of the *Dra* Genes to the Interstitial Tropism of Uropathogenic *Escherichia coli* Bearing Dr Adhesin
Staff: Co-mentor for Rangaraj Selvarangan, Graduate Student
Date: 1997–1999
Funding: McLaughlin Fellowship: \$96,000.00

5. Title: UTMB-WRHR Career Development Center of Excellence
Staff: Co-Mentor of MD fellows
Date: 1998-2003
Funding: NIH of child health & human developmentH/1K12 HD01269-04; \$1,989,409.00
6. Title: Molecular Characterization of DraE Domains that Facilitate Binding, Invasion and Renal Tissue Tropism of Uropathogenic *Escherichia coli*.
Staff: Sponsor for M. Das, PhD (post doc)
Date: 2000-2002
Funding: McLaughlin Fellowship Fund; \$125,964.00
7. Title: The Interaction of Complement C3 Convertase, and its Sub-Units, with DAF (CD55)
Staff: Co-Investigator
Date: 2000-2002
Funding: John Sealy Research Development Award; \$70,000.00
3. Title: Alzheimer's Disease Vaccine
Staff: PI – S. Nowicki
Date: 06/01/01–06/01/02
Funding: Sealy Center on Aging; \$12,000.00
9. Title: *CD55, Infection, and Race in Preterm Delivery.*
Staff: Co-PI S. Nowicki, PI – B. Nowicki,
Date: 2001-2005
Funding: NIH/R01 1R01 HD41687-01; \$1,490,000.00
10. Title: DAF/TLR4 Ratio in the UTI-mediated Preterm Labor
Staff: PI: E Pawelczyk, Sponsors: B. Nowicki and S. Nowicki
Date: 9/2004 – 8/2005
Funding: James W. McLaughlin Intramural Grants; \$96,000.00
11. Title: *Low Birth Weight, Uterine, Infection and Nitric Oxide*
Staff: PI: C Yallampalli, Co-I: S. Nowicki, B. Nowicki, and M. Nagamani
Date: 2002-2008

Funding: NIH R01 HD42069-01; \$1,490,000

12. Title: Meharry RCMI Program in Women's Health Research
Staff: PI: James G. Townsel
Scientific Director of the CWHR: S. Nowicki, DDS (09/05 – 06/07)
Date: 08/2005 – 07/2010
Funding: NIH (NCRR) G12RR03032; \$11,168,682

COMMITTEE RESPONSIBILITIES:

A. INTERNATIONAL:

1. Program Committee, 12th International Pathogenic Neisseria Conference; 1999-2000
2. Co-organizer of 12th International Pathogenic Neisseria Conference; 1998-2000
3. **Chair Session, 8th International Congress on Autoimmunity; Spain, May 9-13, 2012**
4. **Chair, International Infectious Disease Society for Obstetrics and Gynecology, USA, May 2012**

B. NATIONAL:

1. National Students Research Forum; 1993-9/2005

C. LOCAL AT UTMB:

1. Search Committee for Research Faculty of Obstetrics and Gynecology; 1991-9/2005
2. Search Committee for Fellowship of Maternal Fetal Medicine; 1996-2005
3. Committee for McLaughlin Fellowship for Excellence in Immunology; 1997- 1999
4. Medical School Admissions (Interviewing candidates); 1993-2005
5. Search Committee for Bacteriology Faculty in Microbiology & Immunology Department; 1999
6. Judge for 13th Annual UTMB Undergraduate Research Symposium; 1999
7. Search Committee for Faculty for Pediatrics/Sealy Center for Vaccine Development; 2000

8. Judge, 16th Annual Undergraduate Research Symposium (for Underrepresented Students); 1995-2005.
9. Member of Executive Board of the Faculty Women's Caucus; 2000-9/2005

C2. LOCAL AT MEHARRY MEDICAL COLLEGE:

- faculty
1. Chair Search Committee for Center for Women's Health Research Position; 2006-2007.
 2. Search committee for National Center for Optimal Health – Director Position; 2006-2007.
 3. Search committee for National Center for Optimal Health – faculty position Epidemiologist and statistician; 2007.
 4. Search committee for Center for Women's Health Research – Program Manager; 2006
 5. Search committee for Department of Cardiovascular Research – Chair Position; 2006-2007.
 6. Internal Advisory Committee for RCMI; 2005-2008
 7. Director, Tissue Acquisition Core Facility; 2007
 8. Medical School Interviews; 2007-2010
 9. Co-director Microbiology Course in Graduate School 2009-present
 10. Director for Collaborations and Partnerships 2010-present

D. DEPARTMENTAL:

1. UTMB Ob/Gyn Fellowship Committee; 1996-2005
2. UTMB Search Committee for Research Faculty of Ob/Gyn; 1995-9/2005
3. MMC Search Committee for OB/Gyn Faculty; 2006-2007
4. MMC Microbiology and Immunology graduate students lab rotation; 2005-2010
5. MMC OB/GYN Residence interviews 2006-2010
6. Committee Member, Microbiology and Immunology Departmental Seminar Program, MMC; 2009-2010
7. Chair, Departmental Seminar Program Microbiology and Immunology MMC; 2010-2014

E. OTHER:

1. Member, Kosciuszko Foundation (Polish Literature); 1995-1997
2. Judge, Galveston County Science Fair for High School Students; 1991-9/2005
3. Journal of Infection and Immunity; AD HOC Reviewer since; - 1997
4. Journal of Clinical and Diagnostic Laboratory Immunology; AD HOC Reviewer; 2000- present
5. Journal of Molecular Microbiology; AD HOC Reviewer; since – 1999
6. Scientific Committee Member, McLaughlin Fund for Excellence in Immunology (Grants Revision); 1997 – 2005
7. The National Authors Registry, USA; 1998-present
8. American Pen Woman; 2007-present
9. PLoS ONE Journal; AD HOC Reviewer; 2011-present

TEACHING RESPONSIBILITIES AT UTMB and MMC:

a. MEDICAL SCHOOL:

1. Medical Microbiology Course; 1994-2005 at UTMB
2. Introduction to Patient Evaluation(IPE); 1996-1999 at UTMB
3. Community Continuity Experience (CCE); 1996-1999 at UTMB
4. Interactive Learning Tract (ILT); 1996-1999
5. Ob/Gyn Grand Rounds; 1997-2005
6. Medical School Interviews; 1998-2005
7. Practice of Medicine course block; First Year Medical Students; 1999-2002 at UTMB
8. Integrated Curriculum Evaluation Exercise (ICEE); 1999-2002
9. Small Group Facilitator Gross Anatomy Course; 2000
10. Small Group Facilitator Cardio-Pulmonary Course; 2000
11. Small Group Facilitator Anatomy and Neurology Course; 2001-2002
12. Small Group Facilitator Endocrinology Course; 2002 - 2003
13. Small Group Facilitator Neuro/Human Behavior; 2002
14. Facilitation CVP Lab Course/Micro Lab Part; 2002 – 2003
15. Small Group Facilitator: Renal, Fluids and Electrolytes; 2004
16. OB/Gyn Grand Rounds at MMC; 2005-2010
17. Organizing Committee Chair for Meharry Translational Research Center (MeTRC) Open House March 11, 2011

18. Medical School Interviews at MMC; 2007-2013
19. Committee Chair for Microbiology and Immunology Departmental Seminars; 2009-2014
20. Integrated Curriculum Facilitator at MMC; 2011- present
21. **Medical Microbiology (PID) Small Group Discussions at MMC; 2013**

22. Fundamentals in Microbiology: G+ Bacilli: Corynebacterium diphtheria, Listeria monocytogenes, Bacillus (anthrax and other), Actinomyces ; MMC, 2011-2015

23. MICR 707 PhD students : Gram negative cocci: Neisseria gonorrhoea, Neisseria meningitidis, Moraxella ;MMC, 2012-2015

24. Embryology; small group discussion for MD students at MMC 2012- present

b. GRADUATE SCHOOL:

1. Pathogenic Bacteriology Course at UTMB; 1995-2005
2. Advanced Immunology Course at UTMB; 1998-2001
3. Appointed a Special Member of the Graduate Faculty of The University of Texas Graduate School of Biomedical Sciences; 1998-2005
4. Medical Microbiology, Supplementation for Graduate Students; 1999-2005
5. Recruiter for UTMB at the Graduate & Professional Career Fair at Loyola University, New Orleans, LA; 10/2000
6. Mentor for 4 Ph.D. students, UTMB 1998-2005
7. Professor, Department of Biomedical Sciences, Division of Microbial Pathogenesis at Meharry Medical College, Nashville, TN, since 9/2005-2007.
8. Mentor for 2 Ph.D. Students MMC, 2007-2008
9. Mentor for 5 PhD student/rotation MMC 2007-2010
10. Immunology Course for graduate students at MMC; 2009-present
11. Judge: MMC Research Day March 23, 2011 Poster Session
12. Organizing Committee Chair for Meharry Translational Research Center (MeTRC) Open House March 11 2011
13. Pathogenic Bacteriology Course at Meharry Medical College Spring Semester 2010- 2011

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

A. INTERNATIONAL

1. International Infectious Disease Society for Obstetrics and Gynecology; 1993-present
2. Kosciuszko Foundation (Polish Literature); 1995-2002
3. International Pathogenic Neisseria Society; 1989-2003

B. NATIONAL

1. American Society for Microbiology; since 1991
2. American Association for the Advancement of Science; 1993–2002
3. Association of Professors of Gynecology and Obstetrics; 1997-2002
4. The National Authors Registry (American Literature); 1998-2002
5. Infectious Disease Society for Ob/GYN; 1998-present

C. LOCAL at UTMB

1. Texas Society of Infectious Diseases; 1991-2002
2. Faculty Women's Caucus, UTMB; 1992-2005
3. UTMB Multidisciplinary Infectious Diseases Group; 1998-2005
4. UTMB Immunology Seminar Series; –1996-2005
5. President - Faculty Women's Caucus; UTMB; 1999-2000
6. President Elect Faculty Women's Caucus; UTMB 1998-1999
7. Executive Board of the Faculty Women's Caucus; since 2000

HONORS:

1. Dean's Scholarship – Medical Student; 1977 - 1978
2. Dean's Scholarship – Medical Student; 1978 - 1979
3. Travel Award – 7th International Pathogenic Neisseria Conference, Berlin, Germany; 1990
4. ASM Press Award - Postdoctoral Fellow, Baylor College of Medicine; 1991
5. Moderator - Session 50-Beachey Memorial - ASM, Las Vegas, NV, May 1994.
6. Visiting Professor, Paris, June; 1997
7. 3 different honorable mentions - Sol Magazine for Poetry; 1999
8. Poster Award McLaughlin Foundation, Co-investigator; 1998
9. President Elect - Faculty Women's Caucus, UTMB; 1998-1999

10. Best Poster Award - "11th International Neisseria Conference, Nice, France; 1998
11. Best Poster Award - 10th International Congress of Immunology, New Delhi, India (Co-investigator); 1998
12. Co-organizer of the 12th International Pathogenic Neisseria Conference (IPNC), 1998-2000
13. President - Faculty Women's Caucus, UTMB; 1999-2000
14. Member of Organizing Committee-12th International Pathogenic Neisseria Conference; 1999-2000
15. Best Poster Award-Sharon McConley-Undergraduate Student-Summer Research Program (Mentor for Underrepresented Student); 1999
16. Poster Award – 7th European Meeting on Complement in Human Disease, 1999, Helsinki, Finland (Co-investigator); 1999
17. ASM Press Award (Mentor); 2000
18. Two Poster Awards - 12th International Pathogenic Neisseria Conference (Principle Investigator); 2000
19. Moderator, Guest Lecture - Dr. Ferid Murad, MD, PhD, Nobel Laureate, 12th; 2000
20. Faculty Research Award, John Sealy Center on Aging; 2001.
21. Life Science Symposium, UTMB, Galveston, TX, Abstract Award; 5/2002
22. Co-mentor for Graduate Student Edyta Pawelczyk who received six distinguished awards for research 2003-2004
23. Endowment Professorship, Center for Women's Health Research, MMC, 2005-207
24. First Scientific Director, Center for Woman's Health Research at MMC, supported by NIH; 2005-2007
25. Director, Collaborations and Partnerships for Meharry Translational Research Center (MeTRC) at MMC, supported by NIH; 2010-2014
26. S. Nowicki- nominated as a honorable member for The International Women's Leadership Association; May 25, 2012
27. S. Nowicki- invited Speaker "New Dimension in Immunotherapy" 3rd Annual World Congress of Immuno-diseases and Therapy, 10/12, 2013, Dalian
28. *S. Nowicki nominated **Editorial Board Member** to the World Journal of Clinical Infectious Diseases (WJCID); March 2012*
29. Reviewer /RCMI Conference (Scientific Program); 09/2011-12/2012

ADDITIONAL INFORMATION:

A. PATENTS:

1. Nowicki S, Nowicki B, Anderson GD. Method of Differentiating Pelvic Inflammatory Disease and Local Isolates of *Neisseria Gonorrhoeae*. USSN 08/644,426; May 13, 1996 – approved –10/1998
2. Nowicki S, Nowicki B, Martens M, Anderson GD. Models for Gonococcal Infection. SN 08/045,490; 4/8/1993.
3. Nowicki S. Alzheimer's Disease Vaccine; in preparation.
4. Nowicki S. et al Diagnostic Test for Preterm Labor; in preparation.
5. Nowicki S. et al Diagnostic Test for Cardiovascular Disease in AA women; in preparation 2012.

B. INVITED SPEAKER:

1. Speaker and Round Table Discussion Member, *Third World International Congress of Infectious Diseases in OB/GYN*, Acapulco, Mexico; 1993.
2. Moderator and Speaker - Session 50-Beachey Memorial-Division B lecture Molecular Mechanism of Sexually Transmitted Diseases. *American Society of Microbiology*, Las Vegas, NV; 5/1994.
3. Invited Speaker - Experimental Gonococcal Infection Caused by Pelvic Inflammatory Disease (PID) Isolates is Prevented by Anti-C1q-antibodies. *Texas Forum on Female Reproduction*, Houston, TX; 5/1995.
4. Invited Speaker-New Perspectives in Diagnosis of Gonococcal PID. *National Institute of Health*, Warsaw, Poland; 6/1997.
5. Invited Speaker – Molecular Mechanism Involves in Pathogenesis of Gonococcal Infection. *Medical School Gdansk University*, Poland; 6/1997.
6. Invited Speaker - Paradoxical Effect of Human Complement C1q on *N. Gonorrhoeae*; Protection versus Damage. *Texas ASM Conference*, Houston, TX; 11/1997.
7. Invited Speaker - Protection versus Damage of Human Complement C1q on *N. Gonorrhoeae*. *University of Gdansk*, Poland; 6/1998.
8. Invited Speaker – The Mechanism of Gonococcal Pelvic Inflammatory Disease. *University of North Carolina*, Chapel Hill, NC; 8/2000.

9. Moderator, Poster Summaries: Host Defense/ Responses to Neisserial Infections. *12th International Pathogenic Neisseria Conference*, Moody Gardens, Galveston, TX; 11/2000.
10. Moderator, Guest Lecture-Dr. Ferid Murad, MD, PhD, Director and Chairman of Biology and Pharmacology Department. University of Texas, Nobel Laureate “Cellular Signaling with Nitric Oxide and Cyclic GMP”, *12th International Pathogenic Neisseria Conference*, Moody Gardens, Galveston, TX; 11/2000.
11. Speaker – Gonococcal PID, *Department of Ob/Gyn Grand Rounds*, UTMB, Galveston, TX; 4/2002.
12. Speaker – Pathogenicity Island in Neisseria Gonorrhoeae. *UTMB Microbiology Immunology Research Seminar*. UTMB, Galveston, TX; 5/2002.
13. Co-author, Decay-Accelerating Factor: Structure-Function –Function Analysis of Residues Effecting Invasion of Dr Fimbriated *Escherichia Coli* to Epithelial Cells. *Aegean Conference*, Mykonos Greece; 2003.
14. Co-author, Preterm Labor, Infection and TLR-Receptor: Protection versus Rejection. *Symposium Gdansk Technical University*, Gdansk Poland; 2003.
15. Speaker, Grand Rounds, Department of Microbiology and Immunology, *University of Gdansk*, Poland; 6/2003.
16. Co-author, Toll-Like Receptor 4 Expression in Rat Pregnancy and its Regulation *Infectious Diseases Society for Obstetrics and Gynecology (IDSOG)*; 2003.
17. Speaker, Gender Specific Risk Factor For Complicated Gonococcal Infections *Infectious Diseases Society for Obstetrics and Gynecology (IDSOG)*; 2003.
18. Invited Speaker, Decay-Accelerating Factor: Structure-Function –Function Analysis of Residues Effecting Invasion of Dr Fimbriated *Escherichia Coli* to Epithelial Cells. *Aegean Conference*, Mykonos Greece; 2003.
19. Invited Speaker, Preterm Labor, Infection and TLR-Receptor: Protection versus Rejection. *Symposium Gdansk Technical University*, Gdansk Poland, 2003.

20. Co-I, Estrogen Increases Menopausal Host Susceptibility to Experimental Ascending Urinary Tract Infection. Nowicki B, Curran E, Estes M, Hart A, Montgomery Rice V, Nowicki S. Society for Gynecologic Investigation Annual Scientific Meeting, 03/22/2006 -03/25/2006 (Toronto, ON, Canada).
21. Co-I, Type Ia Group B Streptococcus Exploits PI3K/Akt Signaling Pathway to Invade Human Endometrial Cells. Goluszko P, Jones A, Popov V, Nowicki S, Nowicki B, Yallampalli C. Society for Gynecologic Investigation Annual Scientific Meeting, 03/22/2006 -03/25/2006 (Toronto, ON, Canada).
22. PI, Racial Disparities in Preterm Labor Role of TLR-4. Nowicki S, Hart A, Pawelczyk E, Montgomery Rice V, and Nowicki B. National Leadership Summit on Eliminating Racial and Ethnic Disparities in Health, 01/09/2006 (Washington, DC).
23. PI, Preterm Labor in African American Women is Associated with Low Level of CD55. Nowicki S, Pacheco L, Hart A, Pawelczyk E, Montgomery Rice V, and Nowicki B. Society for Gynecologic Investigation Annual Scientific Meeting, 03/22/2006 -03/25/2006 (Toronto, ON, Canada).
24. PI, Preterm Labor in African American Women is Associated with Low Level of CD55. Nowicki S, Pacheco L, Hart A, Pawelczyk E, Montgomery Rice V, Ladson G, Whitty J, and Nowicki B. Meharry Medical College Department of Obstetrics and Gynecology 3rd Annual Research Symposium, 04/06/2006, (Nashville, TN).
25. PI, Does Complement Matter in the Female Reproductive Tract? Nowicki S. 26th Annual Meeting of the American Society for Reproductive Immunology, 06/15/2006 – 06/17/2006 (Nashville, TN).
26. PI, Maternal Immune Defense in Racial Disparities of Preterm Labor. Nowicki S, Pawelczyk E, Whitty J, Montgomery-Rice V, Ladson G, Hart-Van Tasse A, and Nowicki B. The Infectious Diseases Society for Obstetrics and Gynecology 33rd Annual Scientific Meeting and Symposium, 08/02/2006-08/05/2006 (Monterey, CA).
27. PI, Can Expression of Complement Inhibitor CD55 Predict Preterm Labor in African American Women? Nowicki S, Whitty J, Pacheco L, Audrey Hart-

Van Tasse A, Pawelczyk E, Montgomery Rice V, and Nowicki B. "Why Our Babies Die" Conference 09/19/2006 (Nashville, TN).

28. PI, Infection and Immunity of Cardiovascular Disease. Nowicki S, 3rd James Symposium, 04/2007 (Nashville, TN)
29. Invited Speaker; Possible Mechanism of PTD in African American Women. Nowicki S, Pacheco L, Montgomery Rice V, Pawelczyk E and Nowicki B. National Medical Association. 08/04/2007-08/09/2007 (Honolulu, HI).
30. **Preterm Labor: Novel Molecular Methods for Diagnosis. Nowicki S.** Symposium Infectious Complications in Hospital Environment;
Society for Clinical Microbiology; Gdansk Medical University
Poland November/2009
31. **Gestational pyelonephritis: From urinary obstruction to virulence and immune adaptation. Nowicki B and Nowicki S.** Symposium Infectious Complications in Hospital Environment: Society for Microbiology. Gdansk Medical University, Poland November/2009

C. EDITORIAL RESPONSIBILITIES /INVITED REVIEWER :

1. NIH Reviewer, Newly-Formed NIH/CSR Study Section. **IRAP** (Infectious Diseases, Reproductive Health, Asthma and Pulmonary Conditions Study Section)The section reviews epidemiology applications in the areas of infectious diseases, reproductive health, asthma, and non-malignant pulmonary conditions; 2006/2007 and July 2009
2. NIH Reviewer, NIH Oral, Dental and Craniofacial Sciences Study Section (**ODCS**); 6/20/2006 – 6/21/2006
3. Invited Internal Reviewer for the MBRS SCORE Internal Advisory Committee (**IAC**), Meharry Medical College; 6/2006.
4. Invited to The Review Board of the American Journal of Health Behavior. May/June, 2006.
5. Ad-hoc reviewer /**Infection and Immunity Journal**; 2002 - present

6. Ad-hoc reviewer/**Bio-Med Central Journal/Pregnancy**; 2009 - present
7. Judge: Reproductive Immunology Poster Session SGI Conference, Miami, FL, March 7, 2011.
8. Editorial Board of World Journal of Clinical Infectious Diseases (WJCID) 2011-2015
9. Ad-hoc reviewer/PLoS ONE; 2011-present
- 10.

C. NATIONAL RECOGNITION:

1. Huong L (Editor-Author). Gene for Virulent *Neisseria Gonorrhoeae* Strain Identified as Potential PID Marker. *Clinical Lab Letter* July 2002;1 (13) 97-100.
2. Review by Editor. Pelvic Infection Tied To Bacterial Gene. *Science News*, Vol 157, Jun 2000.
3. PI, Racial Disparities in Preterm Labor- Role of TLR-4. Nowicki S, Hart A, Pawelczyk E, Montgomery Rice V, and Nowicki B. National Leadership Summit on Eliminating Racial and Ethnic Disparities in Health, 01/09/2006 (Washington, DC).

Community Service:

1. Chair Search Committee for Center for Women's Health Research faculty Position; 2006-2007.
2. Search committee for National Center for Optimal Health – Director Position; 2006-2007.
3. Search committee for National Center for Optimal Health – faculty position epidemiologist and statistician; 2007.
4. Search committee for Center for Women's Health Research – Program Manager; 2006.
5. Search committee for Department of Cardiovascular Research – Chair Position; 2006-2007.
6. Internal Advisory Committee for RCMI; 2005-2007
7. Director of Tissue Acquisition Core Facility; 2007

8. Medical School Interviews; 2007-2008
9. CWHR Community Board Member and Retreat Participant 2005-2008
10. Presentation for Undergraduate Summer School Program 2006-2007
11. CWHR Benefit Concert Participant 2006-2007
12. Leaders Forum : Committee for Research Enterprise 2006-2007
13. Science Fair Judge 1996-2005
14. Texas Chapter of Kosciuszko Foundation, Member at Large, 1995-1997
15. President of Woman's Faculty Association
16. Participant in National Leadership Summit on Eliminating Racial and Ethnic Disparities in Health, Washington D.C. 2006
17. Participant in James Research Symposium, MMC. 2006-2009
18. Endometriosis Symposium, Vanderbilt 2007
19. Speaker at Nashville's "Why Our Babies Die" Conference. September 2008
20. Prevention of Cardiovascular Disease in Woman, Community Presentation, MMC 2007
21. New diagnostic test for PTL – patent in preparation 2010
22. Served on the CWHR Membership Recruitment Committee 2007
23. Member of Vanderbilt/Meharry Microbiology Core, 2007
24. Donating Member of MMC Circle of Friends 2006-2012
25. Annual donations to Salvation Army, and Goodwill 1997-2011

PUBLICATIONS:

A. ARTICLES IN PEER-REVIEWED JOURNALS:

1. Nowicki B, Hart A, Coyne KE, Lublin DM, Nowicki S. Short Consensus Repeat-3 Domain of Recombinant Decay-Accelerating Factor is Recognized by *Escherichia Coli* Recombinant Dr Adhesin in A Model of A Cell-Cell Interaction. *J Exper Med.* (Dec) 1993;178: 2115-2121.
2. Kaul A, Nowicki BJ, Martens MG, Goluszko P, Hart A, Nagamani M, Kumar D, Pham T, Nowicki S. Decay-Accelerating Factor is Expressed in the Human Endometrium and May Serve as the Attachment Ligand for Dr Pili of *Escherichia Coli*. *Am J Reprod Immunol.* 1994;32:194-199.

3. Nowicki B, Martens M, Hart A, Nowicki S. Gestational Age-Dependent Distribution of *Escherichia coli* Fimbriae in Pregnant Patients with Pyelonephritis. *Annals of the NY Acad of Sci.* (Aug) 1994;730:290-291.
4. Nowicki S, Nowicki B, Martens M, Kaul A, Flores G, Kumar D. Host Factors in the Attachment of Gonococcal Cells to the Pelvic Tissue. *Annals of the NY Acad of Sci.* (Aug) 1994;730:292-294.
5. Pham T, Kaul A, Hart A, Goluszko P, Moulds J, Nowicki S, Lublin D, Nowicki BJ. *Dra*-Related X Adhesins of Gestational Pyelonephritis-Associated *Escherichia Coli* Recognize SCR-3 and SCR-4 Domains of Recombinant Decay-Accelerating Factor. *Infect Immun.* (May) 1995;63(5):1663–1668.
6. Goluszko P, Nowicki S, Kaul A, Pham T, Nowicki BJ. Dr Fimbriae Coding Region Associated Hemolytic Activity of *Escherichia Coli*. *FEMS Microbiol Lett.* (July) 1995;130:13-17.
7. Goluszko P, Nowicki B, Goluszko E, Nowicki S, Kaul A, Pham T. Association of Colony Variation in *Serratia Marcescens* with the Differential Expression of Protease and Type 1 Fimbriae. *FEMS Microbiol Lett.* (Oct) 1995; 133:41-45.
8. Nowicki S, Nowicki B, Martens M. Gonococcal Infection in Nonhuman Host is Determined by Human Recombinant C1q. *Infect Immun.* (Dec) 1995;63(12):4790-4794.
9. Kaul A, Goluszko P, Hart A, Martens M, Pham T, Nowicki S, Nowicki B. Rapid Cyclic Changes in Density and Accessibility of Endometrial Ligands for *Escherichia Coli* Dr Fimbriae. *Infect Immun.* (Feb) 1996;64:611-615.
10. Hart A, Pham T, Nowicki S, Whorton ED Jr., Martens MG, Anderson GD, Nowicki BJ. Gestational Pyelonephritis-Associated *Escherichia Coli* Isolates Represent a Nonrandom, Closely Related Population. *Am J Obstet Gynecol* (Mar) 1996;174:983-989.

11. Moulds JM, Nowicki S, Nowicki B, Moulds JJ. Human Blood Groups: Incidence Receptors for Viruses and Bacteria, *Transfusion* (April) 1996;36:362-374. Invited review.
12. Goluszko P, Moseley S, Truong L, Kaul A, Williford J, Selvarangan R, Nowicki S, Nowicki B. Development of Experimental Model of Chronic Pyelonephritis with *Escherichia Coli* O75:K5:H-Bearing Dr Fimbriae: Mutation in the Dra Region Prevented Tubulointerstitial Nephritis. *J Clin Invest* (April) 1997;99(7):1662-1672.
13. Nowicki S, Ram P, Pham T, Goluszko P, Morse S, Anderson GD, Nowicki B. Pelvic Inflammatory Disease Isolates of *Neisseria gonorrhoeae* are Distinguished by C1q-dependent Virulence for Newborn Rats and by the *sac-4* Region. *Infect Immun* (June) 1997; 65:(6):2094-2099.
14. Goluszko P, Popov V, Selvarangan R, Nowicki S, Pham T, Nowicki B. Dr Fimbriae Operon of Uropathogenic *Escherichia Coli* Mediate Microtubule-Dependent Invasion to the Hela Epithelial Cell Line. *J Infect Dis* (July) 1997;176:158-67.
15. Nowicki B, Fang L, Singhal J, Nowicki S, Yallampalli C. Lethal Outcome of Uterine Infection in Pregnant But Not in Nonpregnant Rats and Increased Death Rate with Inhibition of Nitric Oxide. *Am J Reprod Immun* (Oct) 1997;38:309-312.
16. Pham TQ, Goluszko P, Popov V, Nowicki S, Nowicki BJ. Molecular Cloning and Characterization of DR-II, a Non-Fimbrial Adhesin-I-Like Adhesin Isolated from Gestational Pyelonephritis-Associated *Escherichia Coli* that Binds to Decay-Accelerating Factor. *Infect Immun* (Oct) 1997; 65(10):4309-4318.
17. Goluszko P, Moseley SL, Truong LD, Kaul A, Williford JR, Selvarangan R, Nowicki S, Nowicki BJ. Development of Experimental Model of Chronic Pyelonephritis with *Escherichia coli* O75:K5:H-Bearing Dr Fimbriae: Mutation in the Dra Region Prevented Tubulointerstitial Nephritis. *J Clin Invest* (Apr) 1997;99(7):1662-1672.

18. Nowicki BJ, Singhal J, Fang L, Nowicki S, Yallampalli C. Inverse Relationship Between Severity of Experimental Pyelonephritis and Nitric Oxide Production in C3H/HeJ Mice. *Infect Immun* 1999; 67(5):2421-2427.
19. Nowicki S, Selvarangan R, Anderson G. Experimental Transmission of *Neisseria Gonorrhoeae* from Pregnant Rat to Fetus. *Infect Immun* 1999;67(9):4974-4976.
20. Selvarangan R, Goluszko P, Popov V, Singhal J, Pham T, Lublin DM, Nowicki S, and Nowicki B. Role of Decay-Accelerating Factor Domains and Anchorage in Internalization of Dr Fimbriated *Escherichia coli*. *Infect Immun* (Mar) 2000;68(3).
21. Nowicki S, Hart A, Nowicki B. Susceptibility to Gonococcal Infection During the Menstrual Cycle *JAMA* (Mar) 2000;283(10):1291-1292.
22. Goluszko P, Selvarangan R, Nowicki BJ, Nowicki S, Hart A, Pawelczyk E, Nguyen K. Rapid Receptor-Clustering Assay to Detect Uropathogenic and Diarrheal *Escherichia coli* Bearing Adhesins of Dr Family. *J Clin Micro* (Jun) 2001;39(6):2317-20.
23. Hart A, Nowicki BJ, Reisner B, Pawelczyk E, Goluszko P, Urvil P, Anderson G, and Nowicki S. Ampicillin-resistant *Escherichia coli* in Gestational Pyelonephritis: Increased Occurrence and Association with the Colonization Factor Dr adhesin. *J Infect Dis* (May) 2001;183(10):1526-9.
24. Nowicki B, Selvarangan R, Nowicki S. Family of *Escherichia coli* Dr Adhesins: Decay-accelerating Factor Receptor Recognition and Invasiveness. *J Infect Dis* (Mar) 2001;183(Suppl 1):S24-7.
25. Goluszko P, Niesel D, Nowicki B, Selvarangan R, Nowicki S, Hart A, Pawelczyk E, Das M Urvil P and Hasan R. Dr Operon-associated Invasiveness of *Escherichia coli* from Pregnant Patients with Pyelonephritis. *Infect Immun* (Jul) 2001; 69(7):4678-4680.
26. Nowicki S, Nowicki B, Pham T, Hasan R, Nagamani M. Expression of Decay Accelerating Factor (DAF) in Endometrial Adenocarcinoma is Inversely

- Related to the Stage of Tumor. *Am J Reprod Immunol* (Aug) 2001; 46:144-48.
27. Hasan RJ, Pawelczyk E, Urvil P, Venkatarajan MS, Goluszko P, Kur J, Selvarangan R, Nowicki S, Braun WA, Nowicki BJ. Structure-Function Analysis of Decay Accelerating Factor. Identification of Residues Important for Binding of *Escherichia coli* Dr-adhesin and Complement Regulation. *Infect Immun* (Aug) 2002; 70(8):4485-4493.
28. Zalewska B, Piatek R, Konopa G, Nowicki B., Nowicki S., Kur, J. Chimeric Dr. Fimbriae with a Herpes Simplex Virus Type 1 Epitope as a Model for a Recombinant Vaccine. *Infect. Immun.* (Oct) 2003;71:5505-5513
29. Fang, L., Nowicki, B.J., Urvil, P., Goluszko, P., Nowicki S. Young, S.L. and Yallampalli, C. Epithelial Invasion by *Escherichia coli* Bearing Dr Fimbriae is Controlled by Nitric Oxide-Regulated Expression of CD55. *Infect Immun* (May) 2004;72:2907-2914
30. Selvarangan R, Goluszko P, Singhal J, Carnoy C, Moseley S, Hudson B, Nowicki S, Nowicki BJ. Interaction of Dr-Adhesin with Collagen Type-IV is a Critical Step in *Escherichia Coli* Renal Persistence. *Infect Immun* (Aug) 2004;72:4827-4835
31. Goluszko P, Goluszko E, Nowicki B, Nowicki S, Popov V, Wang HQ. Vaccination with Purified Dr Fimbriae Reduces Mortality Associated with Chronic Urinary Tract Infection Due to *Escherichia coli* Bearing Dr Adhesin. *Infect Immun.* (Jan) 2005;73(1):627-31.
32. Zalewska B, Piatek R, Bury K, Samet A, Nowicki B, Nowicki S, Kur J. A Surface-Exposed Drad Protein of Uropathogenic *Escherichia coli* Bearing Dr Fimbriae Maybe Expressed and Secreted Independently from Drac Usher and Drae Adhesin. *Microbiology* (Jul) 2005;151(Pt 7):2477-86.
33. Das M, Hart-Van Tassell A, Urvil PT, Lea S, Pettigrew D, Anderson KL, Samet A, Kur J, Matthews S, Nowicki S, Popov V, Goluszko P, Nowicki BJ. Hydrophilic Domain II of *Escherichia coli* Dr Fimbriae Facilitates Cell Invasion. *Infect Immun* (Sep) 2005; 73(9):6119-26.

34. Wroblewska-Seniuk K, Selvarangan R, Hart A, Pladzyk R, Goluszko P, Jafari A, du Merle L, Nowicki S, Yallampalli C, Le Bouguenec C, Nowicki B. Dra/AfaE Adhesin of Uropathogenic Dr/Afa+ *Escherichia coli* Mediates Mortality in Pregnant Rats. *Infect Immun* (Nov) 2005; 73(11):7597-601.
35. Rice JC, Peng T, Spence JS, Wang HQ, Goldblum RM, Corthesy B, Nowicki BJ, Nowicki S. Pyelonephritic *Escherichia coli* Expressing P Fimbriae Decrease Immune Response of the Mouse Kidney. *J Am Soc Nephrol* (Dec) 2005; 16(12):3583-91.
36. Rice JC, Peng T, Kuo YF, Pendyala S, Simmons L, Boughton J, Ishihara K, Nowicki S, Nowicki BJ. Renal Allograft Injury Is Associated with Urinary Tract Infection Caused by *Escherichia coli* Bearing Adherence Factors. *Am J Transplant*. (Oct) 2006;6(10):2375-83
37. Curran E, Hart-Van Tassell A, Judy BM, Nowicki B, Montgomery-Rice V, Estes DM, Nowicki S. Estrogen Increases Menopausal Host Susceptibility to Experimental Ascending Urinary Tract Infection. *Infection. J Infect Dis*. (Mar) 2007; 195(5):680-3.
38. Nowicki S, Izban MG, Pawelczyk E, Agboto V, Pratap S, Olson G, Nowicki BJ. Preterm Labor: CD55 in Maternal Blood Leukocytes. *Am J Rep Immun*. 61(5):360-7; 2009.
39. Nowicki, B., Sledzinska, A., Samet, A. and **Nowicki, S.** 2010. Pathogenesis of gestational UTI: urinary obstruction vs. immune adaptation and microbial virulence. ***British Journal of Gynecology. 2011 January;118;2:109-112***
40. Pawelczyk, E., Nowicki, B.J., Izban, M.G., Pratap, S., Sashti, N.A., and **Nowicki, S.** 2010. Spontaneous preterm labor is associated with an increase in the proinflammatory signal transducer TLR4 receptor on maternal blood monocytes. ***BMC /Pregnancy Childbirth. 2010 October 21;10:66***
41. Sledzinska, A., Mielech, A., Krawczyk, B., Samet, A., Nowicki, B.J., **Nowicki, S.**, Jankowski, Z., and Kur, J. 2010. Fatal sepsis in a 23-year-old pregnant woman with pyelonephritis caused by *Escherichia coli* bearing Dr and P adhesins: diagnostic value of postmortem genotyping of isolated strains. *British Journal of Obstetrics and Gynecology*. 2010; 118, 2, 266–269, 2011

42. Pacheco LD, Hankins GD, Costantine MM, Anderson GD, Pawelczyk E, **Nowicki S**, Nowicki BJ. 2011. The Role of Human Decay-Accelerating Factor in the Pathogenesis of Preterm Labor. *Am J Perinatol*. 2011 March 4 in press
43. Wroblewska-Seniuk K., **Nowicki S.**, Le Bouguéne C , Nowicki B. , Yallampalli C. Maternal/fetal mortality and fetal growth restriction: Role of nitric oxide and virulence factors in intrauterine infection in rats, *Am. J. Obstet. Gynecol*. 2011 March in press.
44. Nowicki B, A Sledzinska, A Samet, **S. Nowicki** Pathogenesis of gestational UTI: urinary obstruction vs. immune adaptation and microbial virulence. *BJOG* 2011 Jan; 118 (2):109-12 Editorial.
45. Michael G. Izban, Bogdan J. Nowicki and **Stella Nowicki**. 1,25-Dihydroxyvitamin D3 Promotes a Sustained LPS-induced NF- κ B-dependent Expression of CD55 in Human Monocytic THP-1 cells. *PLoS ONE*. 2012; 7(11): 49318.doi:10.1371/journal.pone.0049318
46. Nowicki B, Nowicki S. DAF as a Therapeutic Target for Steroid Hormones: Implication for Host-Pathogen Interactions. *Adv Exp Med Biol*. 2013; 734:83-96
47. Siddharth Pratap, Laura E. Brown, Michael G. Izban, Stella Nowicki, and Bogdan J. Nowicki Accurate Preterm Labor Diagnosis Using a CD55 - TLR4 Combination Biomarker Model *J. Biomed Sci & Engineering*, Accepted for publication (March 2013)
48. Samet F, Sledzinska M, Nowicki S, Kur J, Nowicki B; Leukemia and risk of recurrent E. coli bacteremia: genotyping implicates E. coli translocation from the colon to the bloodstream. *European Journal of Clinical Microbiology & Infectious Diseases* No. EJCMIID-D-13-00112 (In press May 2013)
49. Samet F, Krawczyk B, Nowicki B, Sledzinska M, Nowicki S, Kur J; A Subset of Two Adherence Systems, Acute Pro-Inflammatory pap Genes and Invasion Coding dra, fim or sfa, Increase the Risk of Escherichia coli Translocation to the Bloodstream *European Journal of Clinical Microbiology & Infectious Diseases* No. EJCMIID-D-13-00336R1 (Accepted for publication Jun 2013)
50. Putonti C, Nowicki B, Shaffer M, Fofanov Y, **Nowicki S**. Where does Neisseria acquire foreign DNA from: an examination of the source of genomic and pathogenic islands and the evolution of the Neisseria genus. *BMC Evol Biol*. 2013 Sep 4; 13(1):184
51. Rana T, Hasan RJ, **Nowicki S**, Venkatarajan MS, Singh R, Urvil PT, Popov V, Braun WA, Popik W, Goodwin JS, Nowicki BJ. Complement Protective Epitopes and CD55-Microtubule Complexes Facilitate the Invasion and Intracellular Persistence of Uropathogenic Escherichia coli. *J Infect Dis*. 2014 Apr;209(7):1066-76. PMID: 24259524

52. Banadakoppa M1, Goluszko P, Liebenenthal D, Nowicki BJ, **Nowicki S**, Yallampalli C. PI3K/Akt pathway restricts epithelial adhesion of Dr+ Escherichia coli by down-regulating the expression of decay accelerating factor. *Exp Biol Med (Maywood)*. 2014 May;239(5):581-94
53. Ansley AJ, Rana T, **Nowicki S**, Nowicki B. Progesterone Receptors Signaling and Upregulation of Decay-Accelerating Factor (DAF/CD55). *Obstet. Gynecol.* 2014 May;123 Suppl 1:135S-6S
54. Rana T, Udoko AN, Johnson CA, Singh R, Rachakonda G, Lima MF, Villalta F, Mandape SN, Lawler J, Pratap S, **Nowicki S**, Nowicki B, and Nde PN. THROMBOSPONDIN-1 IN HOST PATHOGEN INTERACTIONS; *Circulation*. 2014 June

B. ARTICLES IN BOOKS:

1. Nowicki S. Possible Mechanisms of Serum Resistance of *Neisseria Gonorrhoeae* from Disseminating Infections. In: Achtman M, Kohn P, Marchal C, Morelli G, Seiler A, Thiesen B. *Neisseria 1990*. New York: Walter de Gruyter; 1991: 621-6.
2. Nowicki S, Martens MG. Host Response to Fungal Infection. In: *Clinical Advances in the Treatment of Fungal Infection*. New York: KSF Publication; 1991:1-12.
3. Nowicki S, Martens M, Kaul A, Nowicki B. Gonococcal Attachment to Human Ovarian Tissue. In: Broome C, Knapp J, Morse S, Rice P, del Rio C, Kohl P, Normark S, Sparling F, eds. *Pathobiology and Immunobiology of Neisseria*. Mexico: National Institute of Public Health, 1993, 730-734.
4. Nowicki S, Locksmith G, Nowicki B. Antiphospholipid Antibody Syndrome and Pregnancy. *Medicine, Ob/Gyn, Psychiatry, and Surgery in www.emedicine.com*, 2001.

5. Nowicki S, Goldblum R, Amniotic Fluid and the Fetal Mucosal Immune System. In: Mestechy J, Bienenstock J, Lamm M, Mayer L, McGhee J, Strober W, eds. *Mucosal Immunology*. 3 rd ed. San Diego, CA: Elsevier Inc; 2004: Chapter 99.
6. Nowicki S, Locksmith G, Nowicki B. Antiphospholipid Antibody Syndrome and Pregnancy. *Medicine, Ob/Gyn, Psychiatry, and Surgery* in www.emedicine.com, 2005.
7. Nowicki S, Goldblum R, Amniotic Fluid and the Fetal Mucosal Immune System. In: Mestechy J, Bienenstock J, Lamm M, Mayer L, McGhee J, Strober W, eds. *Mucosal Immunology*. 4 rd ed. San Diego, CA: Elsevier Inc; 2013: Chapter 112 in preparation

C. MANUSCRIPTS IN PROGRESS(3):

D. PUBLISHED ABSTRACTS:

1. Nowicki S, Hull R, Rossen RD. Possible Mechanisms of Serum Resistance of *N. Gonorrhoeae* from Disseminated Infections. *Seventh International Pathogenic Neisseria Conference*, West Berlin; 9/1990.
2. Nowicki S, Mader JT. Bactericidal Activity of Aerobic and Anaerobic Leukocytes Against *Bacteroides Fragilis*. *Undersea and Hyperbaric Medical Society Annual Scientific Meeting*, Anaheim, CA; 1991.
3. Nowicki S, Martens M, Nowicki B. Binding of C1q to Outer Membrane Proteins of *Neisseria Gonorrhoeae* and Potential Role in Pathogenicity (Oral Presentation). *31st ICAAC Conference*, Chicago, IL; 10/1991.
4. Nowicki B, Martens M, Hart A, Taylor B, Nowicki S. Host Factors Affecting Tissue Adherence by Pathogenic *Escherichia coli* in Pregnancy (Oral Presentation). *31st ICAAC Meeting*, Chicago, IL; 1991.
5. Rossen RD, Schulmeier GA, Nowicki S, Hall B, Michael LH, Entman ML, Baughn RE. *Identification of C1q Binding Molecules in Cardiac Mitochondria that Contain Cardiolipin (Oral Presentation)*. *FASEB*; 1991.

6. Conde-Glez CJ, Nowicki S, Hull RA. Frequency of a Gene Sequence Encoding Serum Gonococcal Resistance Among Clinical and Reference Strains of the *Neisseria*. *Department of Microbiology and Immunology, Baylor College of Medicine, Society of Microbiology, Houston, TX; 1991.*
7. Nowicki B, Martens M, Hart A, Taylor B, Nowicki S. Factors Affecting Tissue Adherence by Pathogenic *Escherichia coli* In Pregnancy (Oral Presentation). *Meeting of the Infectious Disease Society for Obstetrics-Gynecology; 1991.*
8. Nowicki B, Hart A, Lublin D, Nowicki S. Molecular Characterization of Binding Epitopes on Decay Accelerating Factor (DAF) for *Escherichia coli* Clones that Express Dr, AFA1, AFA111, and F1845 Adhesins. *American Society of Microbiology General Meeting, New Orleans, LA; 5/1992.*
9. Nowicki B, Hart A, Nowicki S. Molecular Mechanism of Interaction Between *Escherichia coli* and Human Chorionic Gonadotropin Hormone (HCG). *American Society of Microbiology General Meeting, New Orleans, LA; 5/1992.*
10. Nowicki B, Martens M, Hart A, Nowicki S. Pyelonephritis-Associated Gram-Negative Species in Pregnant Women of Different Gestational Age (Oral Presentation). *First International Congress for Infectious Diseases in Obstetrics and Gynecology, Taormina-Giardini Naxos, Italy; 6/1992.*
11. Nowicki B, Martens M, Hart A, Moulds J, Nowicki S. *Escherichia Coli* Virulence and Host Factors Affecting Development of Pyelonephritis in Pregnant Women (Oral Presentation). *Annual Meeting, Infectious Disease Society for Obstetrics-Gynecology; 8/1992.*
12. Nowicki B, Pham T, Martens M, Hart A, Nowicki S. Molecular Characterization of Human Chorionic Gonadotropin Hormone-Like Peptides of *Escherichia coli* (Oral Presentation). *Annual Meeting, Infectious Disease Society for Obstetrics-Gynecology; 8/1992.*

13. Nowicki B, Kaul A, Nagamani M, Martens M, Kumar D, Goluszko P, Nowicki S. Dynamic Change in The Expression of Dr Receptors for *Escherichia coli* Fimbriae During Proliferative and Secretory Phase in Human Endometrium. *Society for Gynecologic Investigation*; 10/2/1992.
14. Nowicki S, Martens M. Gonococcal Attachment to Human Leukocytes is Enhanced by Complement C1q (Oral Presentation). *1992 American Society of Microbiology General Meeting*, New Orleans, LA; 5/1992.
15. Nowicki S, Nowicki B, Martens M. Gonococcal Attachment to Human Ovarian Tissue. *Eighth International Pathogenic Neisseria Conference*, Cuernavaca, Mor., Mexico; 10/1992.
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120. Bogdan J Nowicki, MD,PhD¹, Rafia J Hasan, PhD³, Werner A Braun, PhD⁴ and **Stella Nowicki, DDS²**. **Gestational Pyelonephritis and the Structure-Function Analysis of E. coli Invasion to the Uroepithelium Oral Presentation SGI; Orlando April 2010**

121. **Stella Nowicki, DDS¹, Siddharth Pratap, PhD¹, Michael G Izban, PhD¹ and Bogdan J Nowicki, MD, PhD¹. **Combine Use of Toll-Like Receptor 4 and CD55 in Maternal Blood Monocytes as a Molecular Predictors for Preterm Labor and Delivery. Oral Presentation SGI; Orlando 04/2010****
122. Stella Nowicki and Bogdan Nowicki. Downregulation of TLR4 Receptor-New Immunosuppressive Transcriptional Target for Glucocorticoid.; 3rd Latin American Congress on Autoimmunity Buenos Aires, July 1-3, 2010
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