



HEIDI KAPLAN

CANDIDATE STATEMENT

I am strongly committed to promoting the COMS and ASM missions, which include supporting the microbial sciences and the ensuring the future of the society. Throughout my academic career I have had extensive involvement with ASM and the Texas Branch. My interest in serving as COMS Vice-Chair and then Chair is to have an impact on the COMS mission by overseeing and facilitating the activities of all eight communities. I am especially interested in helping guide the subset of communities that will prepare and hold their retreats and develop their recommendations for the ASM Leadership in the next two years. I would like to implement an on-boarding program for new COMS members, to enhance their understanding of their role in COMS and the society before they attend their first meeting. I am also interested in strengthening the COMS charge to serve as the connection between ASM's members and ASM's leaders.

ASM-RELATED ACTIVITIES

- Council on Microbial Science (COMS), Texas Branch Councilor, 2021-2024
- Nominating Committee, 2021-2022 (Stepped down when nominated for COMS Vice-Chair)
- Membership Committee, 2015-2021
- ASM Distinguished Lecturers Committee, Chair, 2015-2021
- Career Development Grants for Postdoctoral Women, Committee Member, 2014-2023
- ASM General Microbiology Division, National Chair, 1997-1998

CURRICULUM VITAE

Date: September 1, 2022

Name: Heidi Beth Kaplan
Present Title: Associate Professor
Address: Department of Microbiology and Molecular Genetics 6118 Fordham Street
University of Texas - Houston Health Sciences Center Houston, Texas
Houston, Texas 77030 77005
713-500-5448 713-303-3023
Birthdate: July 23, 1957
Citizenship: USA

Undergraduate Education:

B.A. in Biology, cum laude with high honors, Brandeis University. June 1978.

Graduate Education:

Ph.D. in Microbiology, Cornell University. E.P. Greenberg, Advisor. December 1986. Autoinduction of the *Vibrio fischeri* Luminescence System: Studies of Autoinducer and the Autoinducer Receptor.

Postgraduate Training:

Postdoctoral Fellow in the laboratory of Dr. Dale Kaiser. Department of Biochemistry and Department of Developmental Biology, Stanford University Medical Center. January 1987 - June 1991.

Academic Appointment:

Associate Professor, Department of Microbiology and Molecular Genetics, University of Texas at Houston Medical School. July 1999 - present.

Assistant Professor, Department of Microbiology and Molecular Genetics, University of Texas at Houston Medical School. July 1991 - 1999.

Professional Associations (and committees of these):

Gordon Research Conferences, Vice-Chair for Conference on Collective Behaviors. 2019-2023.
American Society for Microbiology, Member of Nominating Committee. 2021 - 2024.
American Society for Microbiology, Member of The Council on Microbial Sciences (COMS). 2021 - 2024.
American Society for Microbiology, Texas Branch Councilor. 2021 - 2024.
American Society for Microbiology, Texas Branch Executive Committee. 2021 - 2024.
American Society for Microbiology, Texas Branch Meeting Organizing Committee. 2015 - 2022.
American Society for Microbiology. Mentor, Texas Medical Center Student Chapter. 2009 – 2012, 2016 – present.
American Society for Microbiology. Texas Branch. Awards and Judging Committee, Chair. 2009-present
American Society for Microbiology, ASM Distinguished Lectureship Committee Chair. 2015 - 2021.
American Society for Microbiology, Membership Committee. 2015 - 2021.
American Society for Microbiology, Career Development Grant Postdoc Women Comm. Member. 2014-2020.
Houston Bacterial Interest Group, Co-chair monthly meetings. 2009 – 2018.
American Society for Microbiology, Advisory Board 6th Conf. on Cell-cell Communication in Bacteria. 2016-2017.
American Society for Microbiology, Membership Advisory Committee. 2016.
American Society for Microbiology, ASM Distinguished Lectureship Committee Member. 2008-2015
American Society for Microbiology. Texas Branch Fall Meeting, Chair. 2014.
American Society for Microbiology, Chair 4th Conference on Cell-cell Communication in Bacteria. 2011
Secretary American Society for Microbiology. Texas Branch 2007-2009
President American Society for Microbiology. Texas Branch 2005-2007
American Society for Microbiology, Co-chair 3rd Conference on Cell-cell Communication in Bacteria. 2007
American Society for Microbiology, Co-chair Conference on Prokaryotic Development. 2005, 2009
American Society for Microbiology, Advisory Board Conference on Prokaryotic Development. 2001-2002
American Society for Microbiology, National Chair General Microbiology Division. 1997 - 1998
Am. Soc. for Microbiol., International Collection of Microbial Resources for Teaching and Learning. 1998
American Society for Microbiology, Texas Branch Program Committee. 1992 - 1994
Association for Women in Science, Houston/Gulf Coast Chapter, Executive Board Member. 1992 - 1994
Association for Women in Science, Houston/Gulf Coast Chapter, Mentor Committee Chair. 1992 - 1994
American Society for Microbiology, National. 1982 - present

Awards and Honors:

Dean's Teaching Excellence Award, UT Medical School. 2005, 2010, 2016, 2017, 2018, 2019, 2020, 2021.
Millicent Goldschmidt Mentoring Award. American Society for Microbiology, Texas Branch. 2016.

Awards and Honors: (continued)

Reappointment to Graduate School of Biomedical Sciences Faculty with Special Commendation. 1995, 2001, 2012.
Outstanding support of UT Medical School Summer Research Program. 2009
First Neil Walker Memorial Student Invited Speaker, Wind River Conference on Prokaryotic Biology, Sum. 2004
Co-director Advanced Bacterial Genetics Course, Cold Spring Harbor Laboratory. 2001
Reappointment to Graduate School of Biomedical Sciences Faculty with Commendation. 2007.
Outstanding Achievement in Research, UT-Houston Medical School. 1996, 1998, 2000
Graduate School of Biomedical Sciences Dean's Excellence Award. 1995, 1996, 1998, 1999
Nominated by U.T. Dallas Biology Dept. for Burroughs Wellcome Visiting Faculty Award. 1999
Sponsored by Dean Buja to attend the AAMC Profess. Develop. Sem. for Junior Women Faculty. 1997
Vector Laboratories Young Investigator Award, American Society for Microbiology. 1992
Junior Faculty Award. Eli Lilly Company. 1992
Nominated from Health Sciences Center for Presidential Faculty Fellow Award. 1991
Senior Postdoctoral Fellowship. American Cancer Society, Calif. Div. January 1990
Awardee, Katherine McCormick Fund for Women, Stanford University. 1989
Postdoctoral Fellowship. Jane Coffin Childs Fund for Medical Research. January 1987

Editorial Positions:

Editorial Board Molecular Microbiology. 2004 – 2008
Editorial Board Journal of Bacteriology. 1999 – 2004
Outside reviewer for mSystems 2021.
Outside reviewer for Molecular Microbiology. 1997 – 2020
Outside reviewer for mBio. 2017 – 2020
Outside reviewer for Antimicrobial Agents and Chemotherapy, 2015 – 2019.
Outside reviewer for Journal of Bacteriology. 2004 – 2019.
Outside reviewer for Applied and Environmental Microbiology, 2011, 2016
Outside reviewer for International Society for Microbial Ecology Journal, 2015, 2016
Outside reviewer for Scientific Reports, 2016
Outside reviewer for Microbiology. 1998 – 2017
Outside reviewer for PLoS Pathogen, 2012
Outside reviewer for Genes and Development. 2003
Outside reviewer for Journal of Molecular Microbiology and Biotechnology. 1999
Outside reviewer for Journal of Biological Chemistry. 1998 - 1999
Outside reviewer for Genetics. 1998 - 1999
Outside reviewer for Archives of Microbiology. 1992 - 1993
Outside reviewer for Journal of Bacteriology. 1991 - 1998

Service on National Grant Review Panels, Study Sections, Committees:

Ad hoc Reviewer, NSF. MCB, Genetic Mechanism Panel. June, 2020.
Ad hoc Reviewer, NIH NHBLI R21 panel, July 2017.
Panel member, NSF MCB-NWR CAREER Awards, Oct. 2012.
Panel member, NSF Metabolism and Microbial Communities (MMC) Review Panel, Oct. 2010
Panel member NIH Diversity Pre-doctoral Fellowship Review Study Section. June, Nov. 2008
Panel member NIH MCB1 Study Section. 1999 - 2003
Outside reviewer for National Science Foundation. 1993 - present

Service on University of Texas at Houston Health Science Center Committees:

Interfaculty Council, 2016 – 2019.
Chaired UTHSC-wide Faculty Town Hall Meeting: Tony Cucolo of UT System on Faculty Governance. 2017.
Thomas Burks Award Committee. 2016.
Dental School Dean Interview Committee. 2011.
Quality Enhancement Plan (QEP) Committee for the Southern Association of College and Schools Regional Accreditation Agency (SAC) Site Visit. 2010
Intellectual Property Committee. 2001 - present

Service on University of Texas at Houston Health Science Center Committees: (continued)

Scientific Misconduct Committee. 2008 - 2009
Scientific Review Committee. 2003 – 2006
Administrative Council. 2003 – 2006
Awards Committee. 2000 - 2001
UTHHSC Conf. on Profession Development for Women in Academia. Workshop leader. 1995, 2001
Association of Women Faculty, Treasurer and Executive Board Member. 1999 - present
Association of Women Faculty, Exec. Board Member and Membership Committee, Co-chair. 1998 - 1999
Association of Women Faculty, Executive Board Member and Program Committee, Co-chair. 1995 - 1998
Research Council. 1992 - 1997
Mentoring Task Force. Committee member. 1996 - 1997
Work/Family Task Force. 1995 - 1996

Service on University of Texas at Houston Medical School Committees:

Six-year Medical School Chair Review Committee, 2015, 2022.
Women's Faculty Forum (WFF) Board, Member. 2019 – 2023.
International Day for Women and Girls in Science Committee. 2020-2022.
Bicycle and Pedestrian Safety Committee. 2018-2019.
Faculty Senator. 1999 – 2003, 2006 – 2011, 2013 – 2015, 2018-2019.
Committee on Committees, Chair, 2017-2018.
Faculty Senate, Past-chair. 2017-2018.
Executive Committee of Faculty Senate Chair. 2017-2018.
Faculty Senate, Chair. 2016-2017.
Executive Committee of Faculty Senate Past-chair. 2016-2017.
Compensation Committee Co-chair. 2017.
Administrative Council member. 2015-2017.
Faculty Senate Chair-elect. 2015 - 2016.
Committee on Committees. 1992 - 1993, 1997 - 1998, 2000, 2003, 2010, 2013 - 2017
Annual Faculty Review Task Force, 2015
Graduate Student Education Committee. 2003 – 2010. Chair 2008-2009
Research Committee. 2000 - 2003
Search Committee for Director, Management Operations, Microbiol. Mol. Gen. Dept. 1998

Service on Graduate School Committees:

Academic Standards Committee member. 2021 – 2022.
Alternate. Academic Standards Committee. 2018 – 2021.
Summer Undergraduate Research (GradSURP) Selection Committee. 2016 – present.
Chair, Masters Program Review Committee. 2019
Outreach Committee. 2012 – 2017.
Curriculum Committee – alternate. 2015 – 2016
Recruitment Committee. 2012 - 2014
Diversity Committee 2012 – 2014
GSBS Teaching Award Evaluation Committee. March 2012.
Committee to Evaluate Summer Undergraduate Research Program (SURP) Students. 2008-2010
Membership Committee. 2005 – 2008
Membership Committee - alternate. 2004
Graduate Admissions Committee. 2001-2003
Academic Standards Committee. 1992 - 1995, 1998 - 2001

Service on Departmental Committees:

Ad hoc committee to address MMG diversity issues. 2020 - 2021.
MID Program Admissions Committee. 2013 - present.
MID/MMG Retreat Postdoc Oral Presentation Judge. 2022.
MBID Retreat Committee. 2006 - 2020.

Service on Departmental Committees: (continued)

30th Anniversary Celebration Committee. 2018-2019.
Faculty Recruitment Committee. 2001-2002, 2006 - 2007, 2007 – 2008, 2008 – 2009, 2012-2013, 2018 - 2019.
Departmental Review, Education Committee. 2018.
Chair, Texas ASM Branch Meeting Organization Committee. 2013 – 2014.
Chair, MMG Program Academic Standards Committee. 2011 – 2013.
MMG Program Steering Committee. 2011 – 2013.
Graduate Student Curriculum Committee. 1999 – 2012.
Committee on Medical Microbiology Course. 2006 – 2012.
Chair, MMG Retreat Committee. 2009, 2010
Danielle Garsin, Tenure Review Committee. 2010
Chair, Danielle Garsin, Pre-Tenure Review Committee. 2009
Michael Lorenz Tenure Review Committee. 2009
Chair, Committee to Review the Candidacy Examination Procedure. 2007
Chair, Basic Sciences Program Committee for the Texas ASM Branch Meeting. 2004-2005
Chair, Internal Review Committee on Administration and Budget. 2002-2004
Chair, Graduate Student Admissions Committee. 2001-2003
Committee on Graduate Student Admissions. 1991-2007
Graduate Student Recruitment Committee. 1998
Program Committee for Texas ASM Branch Meeting. 1997
Internal Review Committee on Administration and Budget. 1995
Committee on Graduate Education. 1991-1992

Service to the Medical School:

Application selection for Medical School Student Summer Research Stipend Awards. 1997, 2011 – 2020.
Judge for Webber Award for Medical Student Summer Research. '93, '96, '98, '03, '05 – '13, '16, '17, '18, '19.
Judging for Medical School Research Retreat. 2015.
Interviewer for MD/PhD applicants. 1993 – 1995, 2001 - 2002, 2007 – 2009, 2018.
Interviewer for MD applicants. 1996 - 1998, 2003 - 2004
MD/PhD program Molecular Medicine Discussion Group Coordinator, April 2001
PBL Master Facilitator Group. 1997
Participant in LCME Site Visit. 1997
Proctor for the USMLE licensing examination. 1993, 1996
Participant in NSF *Research Experience for Undergraduates* Grant Application. 1993 - 1995

Service to the Community:

MBID Retreat: organized virtual poster session and judging. 2021, 2022.
Gulf Coast Consortium Cluster Review Committee. 2021.
BCM Department of Surgery Grant Review Committee. 2021.
Dunn Foundation Award Review Committee. 2013, 2018.
Reviewed Abstracts for the American Society for Microbiology Annual Microbe Meeting. 2018.
'Antibiotic Resistance and New Drug Development' for The Rotary Club of University Area, Jan. 2016
Judged 'Elevator Pitches' for Neuroscience Student Retreat, 2015
Poster presentations, UTHSC Research Day. 1995-2003, 2004-2006, 2008-2010

Mentoring

Advisor, TMC-ASM Student and Postdoc Chapter. 2008 - 2011, 2016 - present.
'The world of quorum sensing' Interview by Keziah Thomas, UH Cougar Scalpel, Sept. 1, 2016.
AP Biology 2 'Bacterial Quorum Signaling' lectures and laboratory, Rhinebeck H.S., Rhinebeck, NY. Spring 2014.
Bryan Dieu, Junior, DeBakey HS, Growth of *E. coli* in the presence of inhibitors. Fall 2013
Isabel Cornejo, Senior, Kerr HS, General lab methods. Spring 2013
Bryan Dieu, Sophomore, DeBakey HS, Use of *Bdellovibrio* for water purification. Fall 2012
Work-Life Balance Presentation to GSBS Graduate Student Round Table. Spring 2012
AP Biology 10 molecular biology lectures, Carnegie Vanguard High School HISD. Fall 2011.
Natasha Lie, Junior, Clear Horizon Early College HS. PCR amplification of DNA. 2011.

Service to the Community: (continued)

Mentoring (continued)

'Do you want to be a biologist?' Youth Camp, Korean-Amer. Sci. and Engineering. Assoc. Dec. 2010.
Adithya Hari, Freshman Woodlands HS, Effects of Smoking on Bacterial DNA in Plaque. 2009 - 2010.
'Genetic detective work to identify bacteria causing bone infections' Carnegie Vanguard HS. Oct. 2009.
'Using molecular methods to identify bacteria that cause bone infections' UH-D, HS program. Nov. 2009.
Presentation on 'What is it like to be a microbiologist?' GardenOaks Elementary School, Houston, TX. Feb. 2009.
Presentation on 'What is it like to be a microbiologist?' Lanier Middle School, Houston, TX. November, 2005.
Presentation on 'What is it like to be a microbiologist?' River Oaks Elementary School, Houston, TX. May, 2005.
Hosted laboratory tour for National Youth Leadership Forum. July 7, 2005.
Discussion of Academic Science Careers. Univ. Houston-Downtown. April 2003.
Association of Women Faculty Career Development Programs:
 Panelist: Writing for Publication. March 2000.
 Panelist: AAMC Professional Development Seminars: What We Learned. April 1998.
 Panelist: Once Upon a Time: Mentoring. March 1998.
College Night Lamar High School. Represented Brandeis University. Oct. 1999.
Featured speaker, UTHSC 'Take Our Children to Work Program'. June, 1998.
Interviewed by Blaire Crowl, 7th grader Pershing Middle School as 'Working Mother'. June, 1998.
Interviewed by Emily Plumb, 6th grader The Rice School, as 'Research Scientist'. May, 1998.
Women Succeeding in the Sciences Meeting. Workshop Leader. Sweet Briar College, VA April, 1997.
Presentation to students participating in Take our Daughter's to Work program. 1995.
Presentation on 'Being a Scientist' to Becker Preschool, Houston, TX. 1995.
Presentation on Microbiology to 9/10th Grade Biology, Lamar High School, Houston, TX. 1995.
Scientific advisor for 3rd grader's science fair project. Spring 1994.
Association for Women in Science, Houston/Gulf Coast Chapter
 Executive Council, 1992 - 1994.
 Chair Mentor Program. 1992 - 1994.
 Undergraduate Career Day: Molecular Biology Research, a personal perspective. April 1992,1993.

Graduate Student Recruiting

Graduate School of Biomedical Sciences Recruiting Seminars
 Microbiology Summer Undergraduate Research Program: July 2017, 2018, 2019, 2021, 2022
 Trinity University, January 2013
 University of Houston-Downtown, November, 2012
 Texas ASM Spring Branch Meeting, March, 2011
 Sam Houston State University, November 1995, November, 2006, September, 2009
 Southwestern University, February, 2009
 Victoria College, May, 2007
 Texas Lutheran University, November, 2005
 University of Wyoming, April, 2001
 University of Oklahoma, Oct. 1999
 Trinity University, Feb. 1999
 Texas Women's University, Nov. 1997
 Sweet Briar College, April, 1997
 Prairie View A & M University, Feb. 1997
 University of Houston/Downtown, Feb. 1993
Interviewed for MMG recruiting videotape. 2010
Interviewed for GSBS recruiting videotape. 1997, 2009

Student evaluation

Judge, Texas American Society for Microbiology Student Poster Awards. 2000-2022
Judge Millicent Goldschmidt Award Committee Member. TX ASM, 2012, 2013, 2014, 2015.
Judge, Rice University Undergraduate Research Poster Session. 2013
Judge, HISD Carnegie Vanguard High School, Texas Performance Standards Project. 2013

Service to the Community: (continued)

Student evaluation (continued)

Judge, Medical School Graduate Education Committee Poster Session. 2005 - 2010
Judge, GSBS Graduate Student Posters. 1992, 1998. 1999
Judge, Graduate Student Poster Session, Rice Univ. Biochemistry and Cell Biology. 1996
Honors Examiner, Swarthmore College Senior Honors Thesis. 1996, 2002
Judge, Houston Science and Engineering Fair. 1992

Other:

President, Carnegie Vanguard High School PTO (HISD). 2010-2011
Vice-chair Communications Committee, Carnegie Vanguard High School PTO (HISD). 2009-2010
Chair, Congregation Emanu El Religious School Committee. 2009-2011
Board of Trustees, Congregation Emanu El. 2003. 2006 – 2011
President Congregation Emanu El Parent-Teacher Association. 2003-2005
Coach, Odyssey of the Mind Team of River Oaks Elementary School students, 2001-2004. State Champions 2003

Sponsorship of Candidates for Postgraduate Degree: (12)

Di Xu	April 1993 - September 1998
Yang Chun	June 1994 - December 1998
Gabriela Bowden	June 1994 - June 1999 (Underrepresented Minority)
Jose Rivera	June 1996 – February 2004 (Underrepresented Minority)
Brandon Greenberg	March 1999 - March 2000
Elena M. Barbu	August 2002 – April 2005
Mehdi Esmaeilian	May 2003 – August 2005
Karen Gomez	August 2008 – August 2010 (Underrepresented Minority)
Charles Darkoh	May 2009 – August 2012 (Co-advisor) (Underrepresented Minority)
Zalman Vaksman	May 2009 – present (Leave of absence 2011 – 2013)
Fernando Andrade	May 2011 – August 2013 (Underrepresented Minority)
Douglas Litwin	August 2012 – August 2014

Sponsorship of Postdoctoral Fellows: (10)

Poonam Gulati, Ph.D.	Aug. 1992 - Aug. 1996
Dongchuan Guo, Ph.D.	June 1994 - Feb. 1999
Jane Gibson, Ph.D.*	Oct. 1996 - Mar. 1997 (*Visiting Faculty: Emeritas Cornell University)
	Nov. 1997 - April 1998
	Nov. 1998 - April 1999
	Nov. 1999 - April 2000
Gabriela Bowden, Ph.D.	July 1999 - Nov. 1999 (Underrepresented Minority)
Xue-yan Duan, Ph.D.	July 1999 – May 2004
Oddur Vilhelmsson, Ph.D.	March 2000 – November 2002
Jianfa Zhang, Ph.D.	August 2003 – December 2004
Yuqing Zhang, Ph.D.	October 2005 – September 2006
Anne Tart, Ph.D.	August 2007 – December 2008
John D. Liu, Ph.D.	August 2015 – August 2016

Sponsorship of Graduate Student Rotations: (34)

Terry Allen	Spring 1992
Di Xu	Fall 1992
Sean Reid	Fall 1992 (Underrepresented Minority)
Lisa Armitige*	Spring 1993 *(M.D./Ph.D. student) (Underrepresented Minority)
Tu Ahn Dang	Spring 1993
Dae-sik Lim	Summer 1993
Wen-jung Wang	Fall 1993
Xue-Nong Zhang	Fall 1993
Chun Yang	Winter 1994

Sponsorship of Graduate Student Rotations: (34) (continued)

Gabriela Bowden	Spring 1994 (Underrepresented Minority)
Charles Bird	Fall 1994
Jose Rivera	Winter 1996 (Underrepresented Minority)
Stacey Davis	Fall 1996 (Underrepresented Minority)
Matthew Lawrenz	Summer 1997
Muling Mao	Fall 1997
Brandon Greenberg	Fall 1998
Simon Jakubowski	Spring 1999
Amy Trott	Fall 2000
Qiong 'Ruby' Qiu	Fall 2000
Sandor Karpathy	Winter 2001
Lisa Vincent	Fall 2001
Elena Barbu	Fall 2002
Jianping Chen	Fall 2002
Jeremias Alves de Siqueira	Spring 2003
Kristen Brower	Fall 2003
Kathryn Pflughoeft	Fall 2004
Adam Pettway	Spring 2005
Yanyu Wang	Fall 2006
Ana A. Klauer	Fall 2007
Jennifer Juarez	Spring 2008 (Underrepresented Minority)
Zalman Vaksman	Fall 2008
Jay Gordon	Fall 2010
Veronica Garcia	Spring 2011 (Underrepresented Minority)
Sara Pepper	Fall 2012

GSBS Student Committees:

Primary Advisor: (12)

Di Xu	April 1993 - Sept.1998
Yang Chun	June 1994 - Dec. 1998
Gabriela Bowden	June 1994 - June 1999 (Underrepresented Minority)
Jose Rivera	June 1996 – present (Underrepresented Minority)
Brandon Greenberg	March 1999 - March 2000
Elena M. Barbu	August 2002 – May 2005
Mehdi Esmaeiliyan	May 2003 – August 2005
Karen Gomez	August 2008 – August 2010 (Underrepresented Minority)
Charles Darkoh	May 2009 – August 2012 (Co-advisor) (Underrepresented Minority)
Zalman Vaksman	May 2009 – May 2011
Fernando Andrade	May 2011 – August 2013 (Underrepresented Minority)
Douglas Litwin	August 2012 – August 2014
Erika Flores	May 2022 – August 2022

GSBS Student Committees:

Committee Member: (46)

Hon-Chiu (Eastwood) Leung	Fall 1992 - 1994
Zhihao Dai	Fall 1992 - 1994
Yi Xu	Summer 1993 - 1995
Jaime Rivera	Fall 1993 – 1997 (Underrepresented Minority)
Lisa Armitige*	Fall 1993 - 2002 (*MD/PhD student) (Underrepresented Minority)
Judy Latch	Fall 1995 - 1997
Olivia Lee	Summer 1996 - 1998
Cynthia Oberlee	Summer 1996 - 1998
Bastianella Perazzona	Winter 1997 - 1999

GSBS Student Committees: (continued)Committee Member: (46)

Anthony Costa	Summer 1997 - 2000
Joy Marshall	Summer 1997 – 2003 (Underrepresented Minority)
Stacey Davis	Summer 1997 – 2002 (Underrepresented Minority)
Xiaolan Ma	Winter 1998 - 2000
Xuefeng Su	Spring 1998- 2005
Si Wan Kim	Spring 1998 - 1999
Wen Luo	Fall 1998 - 1999
Qin Sheng	Fall 1998 - 1999
Qin Sun	Spring 1999 - 2001
Xiaotao Li	Summer 1999 - 2001
Ryan Shields	Summer 1999 - 2001
Mei Zhang	Summer 1999 – 2004
Melissa Drysdale	Fall 2001 – 2004
Guangwei Fan	Fall 2001 – Spring 2003
Joye Purser	Fall 2001 – Spring 2003
Brian Corbin	Fall 2001 – Spring 2006
Cana Ross	Summer 2002 – Fall 2004
Maria Hadjifrangiskou	Summer 2002 – Spring 2007
Marenda Wilson	Fall 2003 – Fall 2007 (Underrepresented Minority)
Kathryn Pflughoeft	Summer 2005 – Spring 2007
Jennifer Kerr	Summer 2005 – Summer 2007
Daneen Grossman	Summer 2005 – Spring 2010
Jennifer Juarez	Summer 2008 – Spring 2010 (Underrepresented Minority)
Jennifer Abrams	Summer 2008 – Spring 2014 (Underrepresented Minority)
Kim Busiek	Summer 2009 – Summer 2010
Veronica Wells Rowlett	Summer 2011 – Spring 2016 (Underrepresented Minority)
Katie McCallum	Summer 2011 - Spring 2016
Lin Chen	Summer 2011 – Fall 2014
Carrie Graham	Summer 2013 – 2014 (Underrepresented Minority)
Jay Gordon	Summer 2013 – Spring 2017
Naomi Bier	Summer 2014 – Spring 2019
Chioma Odo (MS student)	Spring 2017 – Summer 2018
Sara Peffer	Spring 2019
Celso Catumbela	Summer 2018 – Fall 2019 (Underrepresented Minority)
Wahaj Zuberi (MS student)	Summer 2019 – Fall 2020
Erika Flores	Summer 2018 – present (Underrepresented Minority)
Jellisa Ewan	Summer 2019 – present (Underrepresented Minority)
Alexandra Buckner	Fall 2021 - present

GSBS Student Committees:GSBS Student Examining Committees: (54)

Shao-Chun Chang*	Fall 1993	(*MD/PhD student)
Julia Morris	Spring 1993	
Terry Allen	Spring 1995	
Yi Xu	Summer 1995	
Lisa Armitige*	Fall 1995	(*MD/PhD student) (Underrepresented Minority)
Jaime Rivera	Fall 1995	(Underrepresented Minority)
Bradley Johnson	Spring 1996	
Bastianella Perazzona	Fall 1996	
Xiang Qin	Spring 1997	
Stacy Davis	Spring 1999**	(Chair) (Underrepresented Minority)
Minghang Zhang	Spring 1999	

GSBS Student Committees:

GSBS Student Examining Committees: (54) (continued)

Joy Marshall	Spring 1999** (Chair) (Underrepresented Minority)
Trent Fowler	Spring 2000
Xiaotao Li	Summer 2000
Nicole Baldwin	Spring 2001
Mei Zhang	Spring 2001
Melissa Drysdale	Fall 2001
Jun Xie	Fall 2002
Sandor Karpathy	Summer 2003
Maria Hadjifrangiskou	Fall 2003** (Chair)
Amy Trott	Fall 2003
Brian Corbin	Fall 2003
Marenda Wilson	Fall 2004 (Underrepresented Minority)
Stacie Meaux	Fall 2004
Patrick Gibney	Fall 2005
Melissa Ramirez	Spring 2006 (Underrepresented Minority)
Amy Courtney	Spring 2006
Melanie Hargrove	Spring 2006
Kathryn Pflughoeft	Fall 2006** (Chair)
Violetter Chavez	Fall 2006** (Chair) (Underrepresented Minority)
Daneen Grossman	Fall 2006
Hugo Tapia	Fall 2006 (Underrepresented Minority)
Amanda Clarke	Fall 2008
Yanyu Wang	Fall 2008
Jacob Verghese	Fall 2008
Jennifer Juarez	Fall 2009 (Underrepresented Minority)
Taylor Schoberle	Spring 2010** (Chair)
Kimberly Busiek	Summer 2010
Charles Darkoh	Summer 2010 (Underrepresented Minority)
George Tiller	Fall 2011
Katie McCallum	Fall 2012
Veronica Wells	Fall 2012 (Underrepresented Minority)
Veronica Garcia	Fall 2012 (Underrepresented Minority)
Lin Chen	Fall 2012**(Chair)
Emily Stinemetz	Fall 2013
Jaeil Han	Spring 2014
Jill Losh	Fall 2014
Yi Liu	Fall 2014
Sara Pepper	Fall 2014
Naomi Bier	Fall 2014
Chris Evans	Fall 2015
Ileana Corsi	Spring 2019
Erika Flores	Fall 2019 (Underrepresented Minority)
Sarah Lach	Fall 2019
Kim Nguyen	Fall 2019
Jellisa Ewan	Fall 2020
Hannah Wilson	Fall 2020
Melissa Martinez	Fall 2021
Lee-Ann Notice	Fall 2021

GSBS Student Committees:

Applicant Interviews

Spring 2000 - 5 interviews

GSBS Student Committees:

Applicant Interviews (continued)

Spring 2001 – 6 interviews
 Spring 2002 – 6 interviews
 Spring 2003 – 5 interviews
 Spring 2004 – 4 interviews
 Spring 2005 – 3 interviews
 Spring 2006 – 4 interviews
 Spring 2006 – 3 interviews
 Spring 2007 – 3 interviews
 Spring 2008 - 5 interviews
 Spring 2009 – 3 interviews
 Spring 2010 - 5 interviews
 Spring 2011 – 5 interviews
 Spring 2012 – 6 interviews
 Spring 2013 - 6 interviews
 Spring 2015 – 5 interviews
 Spring 2016 – 1 interview
 Spring 2018 – 1 interview
 Spring 2019 – 1 interview
 Spring 2021 – 1 interview

Graduate Students Advisory and Examination Committees Outside UTHHSC: (7)

Laura Caskey	Baylor College of Medicine	Fall 1993 – 1997
Vandhana Khurana	IBT	Fall 2002 – 2003
Nidia Correa	UTHSCSA	Spring 2003 – 2005
Anders Rasmussen	Univ Southern Denmark	Spring 2005
Allana Welsh	Texas State, San Marcos	Summer 2007 - 2009
Shirley Mazor	Ben-Gurion University	Summer 2008
Embriette Hyde	Baylor College of Medicine	Fall 2012 - present

Sponsorship of Summer Medical/Dental Students: (25)

Isitri Modak	UT Medical School Houston	1996
Mona Karimullah	UT Medical School Houston	2003
Jaime Hinojosa	UT Medical School Houston	2004 (Winner 3rd place Webber Prize) (URM)
Michael Greaser	UT Medical School Houston	2005 (Winner 3rd place Webber Prize)
Stephen Winslow	UT Medical School Houston	2006
Vinitha Jacob	UT Dental Branch Houston	2006
Shawn Funk	UT Medical School Houston	2007 (Winner 1st place Webber Prize)
Matthew Jordan	UT Medical School Houston	2007 (Co-sponsor with Dr. Ambrose)
Lane Blankenship	UT Medical School Houston	2008 (Winner 1st place Webber Prize)
Paige Cohick	UT Medical School Houston	2008 (Co-sponsor with Dr. Ambrose)
Juan Carlos Martinez	UT Dental Branch Houston	2008 (Underrepresented Minority)
Derek Moore	UT Medical School Houston	2009 (Winner 1st place Webber Prize)
Justin Miranda	UT Medical School Houston	2009 (Co-sponsor with Dr. Ambrose) (URM)
Brian Stover	UT Medical School Houston	2010 (Winner 3rd place Webber Prize)
James Shaw	UT Medical School Houston	2010 (Co-sponsor with Dr. Ambrose)
Tiffany Tezino	UT Medical School Houston	2010 (Co-sponsor with Dr. Ambrose)
Yasmeen Jaber	UT Medical School Houston	2012
Erfon Ekhlassi	UT Medical School Houston	2013
Robert Litwin	UT Medical School Houston	2014 (Co-sponsor with Dr. Ambrose)
Kayla Colvill	UT Medical School Houston	2014 (Co-sponsor with Dr. Ambrose)
Neal Huang	UT Medical School Houston	2015
Joshua Zuniga	UT Medical School Houston	2015 (Underrepresented Minority)

Sponsorship of Summer Medical/Dental Students: (25) (continued)

Travis Alford	UT Medical School Houston	2018 (Co-sponsor with Dr. Ambrose)
Analisa Narro	McGovern Medical School	2021 (Co-sponsor with Dr. Ambrose) (URM)
Jerril Jacob	McGovern Medical School	2021 (Co-sponsor with Dr. Ambrose)

Sponsorship of Medical Student Preceptorship: (4)

Shawn Funk, MS4	UT Medical School Houston	Jan. 2010
Jessica Traver, MS4	UT Medical School Houston	Sept. 2010
Stephen Jones, MS4	UT Medical School Houston	Dec. 2011
Robert Litwin, MS3	UT Medical School Houston	March 2016

Sponsorship of Summer Undergraduate Students: (38)

Ayesha Muhammed	Alabama A & M University	1992 (Underrepresented Minority)
Erik Beneke	Rice University	1992
Kyle Smith	Purdue University	1993
Caren Crook	Univ. of Houston/Downtown	1993, 1994, 1995
John Pollard	Univ. of Houston/Downtown	1995 (Disabled)
Noam Rosines	Univ. of Texas/Austin	1996, 1997 (Underrepresented Minority)
Simon Jakubowski	Univ. of Houston/Downtown	1997
Gowri Pachigolla	Rice University	1998
Heather Liapis	Rice University	1999
Anupum Aditi	Texas Acad. Math & Science	2000, 2001, 2002
Ernesto Infante	Univ. of Texas/Brownsville	2003 (Underrepresented Minority)
Grace Gonzalez	Texas State at San Marcos	2004 (Underrepresented Minority)
Sandra Guerra	Texas State at San Marcos	2004 (Underrepresented Minority)
Mai Lam	Univ. of Houston/Downtown	2005
Moses Orsoro	Univ. of Houston/Downtown	2006 (Underrepresented Minority)
Shidrokh Ardestani	Univ. of Houston/Downtown	2006 (Spring semester)
Kristina Szentirmay	Georgetown University	2006, 2007
Patrice Love	Texas Lutheran University	2007, 2008 (Underrepresented Minority)
Regis James	Rice University	2008 (Fall semester) (Underrep. Minority)
Kshitij Manchanda	Rice University	2009 (Spring, Fall semester), 2010
Minsuk Kwak	Rice University	2009 (Spring semester)
Barbara Thorne-Tompson	Rice University	2009
Michelle Thorson	Rice University	2009, 2010
Tyler Flores	Houston Baptist University	2009 (Underrepresented Minority)
Kendra Brown	Rice University	2010, 2011, 2012 (Spr, Sum) (Underrep Min)
Kathryn Tierney	University of Dallas	2011
Meghan Bertner	Univ. of Houston/Downtown	2012 (Abramowitz Scholar) (Disadvantaged)
Yanshu 'Amelia' Cheng	Cornell University	2012, 2013
Ira Schlosberg	University of Pennsylvania	2014 (Underrepresented Minority)
Kimberley Kissoon	Del Mar College; UH-D	2015 - 2018 (Underrep. Minority)
Isabel Cornejo	Univ. of Houston/Downtown	2015 - 2017 (Underrep. Minority)
Brett Crell	Univ. of Houston/Downtown	2016 (Spring, Summer)
Bryan Dieu	University of Houston	2017
Naomi Rodriguez	University of Puerto Rico	2018, 2019 (Underrepresented Minority)
Ty Migelarachchi	University of Houston	2018 – 2019 (Fall and Spring semesters)
Tiara Tillis	Swarthmore College	2019 (Underrepresented Minority)
Erin Brown	Texas State, San Marcos	2021
Vishal Ubha	Texas Tech University	2022

Sponsorship of Summer High School Teachers:

Jo Ann Strait	Houston ISD - Memorial High School Biology Teacher	2000
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H. B. Kaplan, Ph.D.

Current Teaching Responsibilities:

Medical Microbiology Lecture 'in person'	1 lect. h/yr (200+ MS)	Fall 2021
Medical Ethics Course – Facilitator 'in person'	5 seminars (8 MS)	Fall 2021
Microbial Genetics and Physiology	14.5 lect h/yr (5 GS)	Spr. 2022
Fluorescence & Electron Microscopy: Imaging Cells & Molecules	demo 3 h/yr (10 GS,PD)	Spr. 2022
Graduate Research Seminar Series – Coordinator	10 seminars (17 GS)	Sum. 2022
Transmission Electron Microscopy (TEM) instruction	30 hr (5 PD, 2 faculty)	Fall '21, Sp. '22
Anaerobic chamber instruction	3 hr (1 PD fellow)	Fall 2022

Past Teaching Responsibilities:

Medical Microbiology Lecture	1 lect. h/yr (200+ MS)	Fall. '17 – '20
Medical Microbiology Lecture	4 lect. h/yr (200+ MS)	Spr. '03 - '16
Medical Microbiology Lecture	2 lect. h/yr (200+ MS)	Spr. '97 - '02
Medical Microbiology Lecture	1 lect. h/yr (200+ MS)	Spr. '93 - '96
Medical Microbiology Laboratory (Lab leader 1 class)	9 h lab/yr (50 MS)	Spr. 2012 - 2016
Medical Microbiology Laboratory	4 h lab/yr (50MS)	Spr. '10 – '11
Medical Microbiology Laboratory	6 h lab/yr (50MS)	Spr. '02 – '04, '08 - 09
Medical Microbiology Laboratory- Lab Leader	5 h lab/yr (100 MS)	Spr. '05 – '07
Medical Microbiology Laboratory	9 h lab/yr (50MS)	Spr. '92 - '01
Medical Ethics Course – Facilitator	6 seminars (10 MS)	Fall/Spring '06-'13 & '20
Medical Professionalism – Facilitator	1 seminar (30 MS)	Fall 2019
Problem Based Learning	28 h (8 MS)	Spr. 1997
MD/PhD Program: Molecular Medicine Discussion Group	8 lect h/yr (26 MS/GS)	Spr. 2001
Microbial Genetics and Physiology	15 lect h/yr (8 GS)	Spr. 2018
Microbial Genetics and Physiology	13.5 lect h/yr (4-6 GS)	Spr. 2015-2017, 2021
Topics in Microbiology (Supervise mini-grant for 2 students)	4 seminars (6 GS)	Fall 2018
Topics in Microbiology (Mini-grant supervisor)	4 seminars (3 GS)	Fall 2015
Graduate Research Seminar Series – Coordinator	16 seminars (22 GS)	Sum. 2015-2021
Microbial Sensing and Signal Transduction – Course Director	7 lect. h/yr (5 GS)	Fall 2013, 2014
Microbial Pathogenesis, Baylor College of Medicine	3 lect. h/yr (5 GS)	Spr. 2013
Ethical Dimensions in Biomedical Research – Facilitator	10 sessions (20 GS)	Fall '04 – '05
Microbial Molecular Genetics	6 lect h/yr (7 - 9 GS)	Fall 2010 – 2013
Microbial Physiology	3 lect h/yr (6 - 8 GS)	Spr. 2011 - 2014
Microbiology & Molecular Genetics Core Course Part I	6 lect h/yr (6 - 8 GS)	Fall '02-'09
Microbiology & Molecular Genetics Core Course Part 2	6 lect h/yr (5 - 8 GS)	Spr. '03-'10
Microbial Sensing and Signal Transduction	7 lect. h/yr (3 - 5 GS)	Fall '03-'12
Basis of Behavior: Sensing and Signal Transduction	6 lect. h/yr (5 GS)	Fall 2002
Molecular Basis of Behavior: Sensing and Signal Transduction	5 lect. h/yr (7 GS)	Fall 2001
Molecular Basis of Behavior: Sensing and Signal Transduction	15 lect. h/yr (8 GS)	Spr. 2000
Molecular Basis of Behavior: Sensing and Signal Transduction	12 lect. h/yr (10 GS)	Spr. 1998
Molecular Basis of Behavior: Sensing and Signal Transduction	17 lect. h/yr (18 GS)	Spr. '94, '96
Genetic Analysis of Prokaryotic and Eukaryotic Microbes	21 lect. h/yr (6 GS)	Fall 1997
Genetic Analysis of Prokaryotic and Eukaryotic Microbes	13.5 lect. h/yr (6 GS)	Fall '95, '96, '98, '99
Rice Univ. Senior Design Course Research instruction	2 semesters (2 x 5 US)	Fall '20, Sp. '21
Guest Lecturer, Medical Microbiology, Dental Branch	2 lect. h (4 GS)	Fall 2003
Guest Lecturer, Adv. Topics in Microbiology, UH Biochem. Dept.	1.5 lect h (6 GS)	Fall 2003
Guest Lecturer, Baylor Coll. of Medicine: Bacterial Physiology	1 lect. h/yr (2 GS)	Spr. 1996
Graduate Research Seminar Series – Coordinator (even yrs)	15-18 sem. (15-18 GS)	Sum. '96 - '04
Graduate Research Seminar Series - Co-coordinator (odd yrs)	15-18 sem. (15-18 GS)	Sum. '95 - '05
Fundamentals of Bacterial Physiology	10.5 lect. h/yr (12 GS)	Fall 1992, 1993
Micro/Mol Gen. Seminar Series – Coordinator (30 seminars)	1 lect. h/yr (26 GS)	Fall '93, Fall/Spr '00-'01
Lit. Surv. Micro. and Mol. Genetics – Coordinator (40 seminars)	1 lect. h/yr (30 GS)	1997 - 1998
Lit. Surv. in Microbiol. and Mol. Genetics	1 lect. h/yr (20 GS)	Fall 1992, 1993

Co-Director Summer Laboratory Course

Advanced Bacterial Genetics, Cold Spring Harbor Lab, NY 3 wks full time June 2001

Director Summer Undergraduate Research Program

Microbiology Summer Undergraduate Research Program 10 wks (8-10 US) Summer '06-'19, '21-'22

Current Grant Support:

Title: Bacteriophage to treat multidrug-resistant UTI in persons with spinal cord injury

Source: Michael E. DeBakey VA Medical Center

Entire Period of Support: 03/1/2019 - 02/28/2023

Annual Direct Costs: \$61,968

Role: Co-PI with Dr. Barbara Wells Trautner, MD/PhD

Past Grant Support:

Title: Molecular Basis of Infectious Disease Training Grant

Source: NIH National Institute of Allergy and Infectious Disease

Entire Period of Support: 09/1/2016 - 08/30/2021

Annual Direct Costs: \$116,911

Role: Member and MBID Retreat co-organizer.

Title: Microbiology Summer Undergraduate Research Program

Source: Gillson Longenbaugh Foundation

Entire Period of Support: 05/1/2019 - 08/30/2019

Annual Direct Costs: \$36,000

Role: Director, Microbiology Summer Undergraduate Research Program

Title: Microbiology Summer Undergraduate Research Program

Source: Gillson Longenbaugh Foundation

Entire Period of Support: 05/1/2018 - 08/30/2018

Annual Direct Costs: \$36,000

Role: Director, Microbiology Summer Undergraduate Research Program

Title: Post-translocational protein folding in Gram-positive bacteria

Source: NIH National Institute of Dental and Craniofacial Research

Entire Period of Support: 3/1/15 – 2/29/20

Annual Direct Costs: \$20,000

Role: Co-PI with PI Dr. Hung Ton-that, UTHealth Medical School.

Title: The role of biofilm on margin stability and the development of secondary caries

Source: NIH National Institute of Dental and Craniofacial Research

Entire Period of Support: 9/10/10 - 2/29/16

Annual Direct Costs: \$282,250

Role: Co-PI with PI Dr. S. Ray Taylor, UT Dental School.

Title: New antimicrobials through MEP pathway inhibition

Source: Dunn Foundation

Entire Period of Support: 1/1/13 – 6/30/15

Annual Direct Costs: \$98,000

Role: PI with Co-PI Dr. Janet Braam, Rice University.

Title: Monitoring and analysis of biofilms in oilfield applications

Source: Nalco Corporation

Entire Period of Support: 3/1/12 – 2/28/13

Annual Direct Costs: \$50,000

Role: PI

Past Grant Support: (continued)

Title: Identification of Causative Bacteria in Osteomyelitis Using Rapid and Sensitive 16SrRNA Detection

Source: Orthopedic Research and Education Foundation

Entire Period of Support: 7/01/07 to 6/30/10

Annual Direct Costs: \$50,000

Role: Co-PI with Dr. Catherine Ambrose, UT Medical School Department of Orthopaedic Surgery

Title: Testing for Contrasting Infection Rates and Biofilm Formation Among Biomaterials in an *in vitro* Biofilm Infection Model.

Source: Stryker Corporation

Entire Period of Support: 1/01/10 to 12/31/10

Annual Direct Costs: \$30,000

Role: Co-PI with Drs. Milan Sen and Catherine Ambrose, UT Medical School Dept. of Orthopaedic Surgery

Title: Bimechanical Eval. of Anatomic Contoured Locking Plates for Proximal Tibia Periarticular Fractures

Source: Zimmer, Inc.

Entire Period of Support: 7/01/05 to 6/30/06

Annual Direct Costs: \$62,267

Role: Co-PI with Dr. Catherine Ambrose, UT Medical School Department of Orthopaedic Surgery

Title: Transduction of the A signal in *Myxococcus* Development

Source: National Institute of General Medical Science

Entire Period of Support: 5/01/00 to 4/30/04 (year 9 - year 13)

Annual Direct Costs: \$185,000

Total Costs: \$1,106,300

Role: PI

Title: Sequencing of the Genome of *Myxococcus xanthus*

Source: National Science Foundation

Entire Period of Support: 9/30/02-9/30/04

Annual Direct Costs: \$576,794

Total Costs: \$1,153,588

Role: CoPI with Dr. William Nierman of The Institute for Genomics Research (TIGR)

Title: Supplement to NIH RO1 for Fabrication of a *Myxococcus xanthus* DNA Microarray

Source: National Institute of General Medical Science

Entire Period of Support: 2/09/01 to 4/30/01

Annual Direct Costs: \$43,200

Total Costs: \$64,584

Role: PI

Title: Supplement to NIH RO1 for Underrepresented Minority Graduate Student

Source: National Institute of General Medical Science

Entire Period of Support: 5/01/96 to 4/30/00

Annual Direct Costs: \$22,065

Total Costs: \$132,384

Role: PI

Title: Transduction of the A signal in *Myxococcus* Development

Source: National Institute of General Medical Science

Entire Period of Support: 5/01/96 to 4/30/00 (year 5 - year 8)

Annual Direct Costs: \$141,379

Total Costs: \$958,599

Role: PI

Past Grant Support: (continued)

Title: Transduction of the A signal in *Myxococcus* Development

Source: National Institute of General Medical Science

Entire Period of Support: 5/01/92 to 4/30/96 (year 1 - year 4)

Annual Direct Costs: \$121,067

Total Costs: \$607,720

Role: PI

Title: Supplement to NIH RO1 for Undergraduates with Disabilities

Source: National Institute of General Medical Science

Entire Period of Support: 5/01/95 to 4/31/96

Direct Costs: \$9,779

Total Costs: \$14,636

Role: PI

Title: Contract grant of unrestricted research funds

Source: Lilly Research Laboratories (Eli Lilly and Company)

Entire Period of Support: 2/01/92 to 1/31/94

Annual Direct Costs: \$10,000

Total Direct Costs: \$20,000

Role: PI

Title: Postdoctoral Salary Support

Source: UTHSC Office of the Vice-President for Research

Entire Period of Support: 3/01/93 to 2/28/94

Total Direct Costs: \$10,000

Role: PI

Title: Supplement to NIH RO1 for Undergraduate Research Experience (S.U.R.E.)

Source: National Institute of General Medical Science

Entire Period of Support: 6/07/93 to 8/13/93

Direct Costs: \$3,096

Total Costs: \$4,582

Role: PI

Publications:

A. Abstracts

1. **Kaplan, H.B.** 1992. Regulation of A signal-dependent gene expressed early during *Myxococcus xanthus* development. Amer. Soc. Microbiol. 92th Ann. Meet., New Orleans, LA May 26-30.
2. **Kaplan, H.B.** 1992. Cell-cell interactions that direct multicellular fruiting body development in *Myxococcus xanthus*. Canadian Microbiology Society. St. John's Newfoundland, June 14-18.
3. **Kaplan, H. B.** 1992. The *sasA* locus encodes a member of the ATP-binding cassette transporter family. 19th Intern. Conf. on the Biol. of Myxobacteria, Whispering Pines, R.I. Aug. 1 - 4.
4. **Kaplan, H.B.** 1993. The *sasA* locus, required for *Myxococcus* development, encodes an ABC transporter. Bact. Locomotion and Sign. Transd. Meet. Austin, TX. Jan. 14 - 18.
5. Gulati, P., R. Pershad, and **H.B. Kaplan.** 1993. Characterization of the *cis*-acting elements that control the developmental expression of an A signal-dependent *Myxococcus xanthus* Gene. Amer. Soc. Microbiol. 93 rd Ann. Meet., Atlanta, GA May 16-20.

Publications: (continued)

A. Abstracts (continued)

6. Gulati, P., D. Xu, and **H.B. Kaplan**. 1993. Developmental regulation of a *Myxococcus xanthus* A signal-dependent gene. 20 th Intern. Conf. on the Biol. of Myxobacteria, Pacific Grove, CA Aug. 3-6.
7. Gulati, P. and **H.B. Kaplan**. 1994. The first bacterial homolog of a serine proteinase inhibitor (serpin) family is encoded by a *Myxococcus xanthus* A signal-dependent gene. 21 th Intern. Conf. on the Biol. of Myxobacteria, Leiden, Netherlands Sept. 18 - 21.
8. Gulati, P. and **H.B. Kaplan**. 1995. The earliest *Myxococcus* A signal-responsive gene encodes the first bacterial serpin homolog. Bacterial Locomotion and Signal Transduction Meeting III. Austin, TX Jan. 12-16.
9. Bowden, M. G. and **H.B. Kaplan**. 1995. A-signal rescue and cell-density dependence of *asg*-dependent fusions. 22nd Intrn. Conf. on the Biol. of Myxobacteria, Lake Tahoe, CA June 18-21.
10. Guo, D., M.G. Bowden, and **H.B. Kaplan**. 1995. Analysis of the *Myxococcus xanthus sasA* locus: a negative regulator of an A signal-dependent gene. 22nd Intrn. Conf. on the Biol. of Myxobacteria, Lake Tahoe, CA June 18-21.
11. Yang, C. and **H.B. Kaplan**. 1995. The *Myxococcus xanthus* wild-type *sasB7* gene encodes a member of the histidine kinase family. 22nd Intrn. Conf. on the Biol. of Myxobacteria, Lake Tahoe, CA June 18-21.
12. Xu, D. and **H.B. Kaplan**. 1995. TnT: a transposon for mapping and directly cloning regulatory genes with their cognate promoters. 22nd Intrn. Conf. on the Biol. of Myxobacteria, Lake Tahoe, CA June 18-21.
13. Yang, C. and **H.B. Kaplan**. 1995. Developmental expression of the earliest A signal-dependent *Myxococcus* gene is negatively regulated by a member of the histidine kinase family. Lost Pines Molecular Biology Conf., Smithville, TX Oct. 27-29.
14. Gulati, P. and **H.B. Kaplan**. 1996. The first bacterial homologue of the serine proteinase inhibitor (serpin) family is encoded by the *Myxococcus xanthus* A signal-dependent gene *spiA*. Amer. Soc. Microbiol. 96th Ann. Meet., New Orleans, LA May 19-23.
15. Yang, C. and **H.B. Kaplan**. 1996. Developmental expression of the earliest A signal-dependent *Myxococcus xanthus* gene is regulated by a member of the histidine kinase family. Amer. Soc. Microbiol. 96th Ann. Meet., New Orleans, LA May 19-23.
16. Bowden, G., Guo, D. and **H.B. Kaplan**. 1996. Alterations in the *Myxococcus xanthus* O-antigen result in A signal-independent *4521* developmental gene expression. 23rd Conf. on the Biol. of the Myxobacteria. Angel Fire, NM, June.
17. Guo, D., Wu, Y. and **H.B. Kaplan**. 1996. Regulation of *Myxococcus xanthus 4521* developmental expression by the LPS O-antigen. 23rd Conf. on the Biol. of the Myxobacteria. Angel Fire, NM, June.
18. Yang, C. and **H.B. Kaplan**. 1996. A histidine protein kinase and a response regulator required for *Myxococcus xanthus* fruiting body formation are positive regulators of early developmental gene expression. 23rd Conf. on the Biol. of the Myxobacteria. Angel Fire, NM, June.
19. Xu, D. and **H.B. Kaplan**. 1996. Transposon TnT and its application in identifying *Myxococcus xanthus* regulatory genes. 23rd Conf. on the Biol. of the Myxobacteria. Angel Fire, NM, June.

Publications: (continued)

A. Abstracts (continued)

20. Yang, C. and **H.B. Kaplan**. 1996. A *Myxococcus xanthus* histidine protein kinase, required for fruiting body formation, and a response regulator are positive regulators of early developmental gene expression. Gordon Research Conference. Microbial Stress Responses. Holderness, New Hampshire, July.
21. Yang, C. and **H.B. Kaplan**. 1996. Regulation of early developmental gene expression in *Myxococcus xanthus*. Lost Pines Molecular Biology Conf., Smithville, TX. October.
22. Yang, C. and **H.B. Kaplan**. 1997. A histidine protein kinase and a response regulator control early *Myxococcus xanthus* developmental gene expression. Bact. Locomotion and Signal Transduction Meet. IV. Cuernavaca, Mexico, January
23. Xu, D., Yang, C. and **H.B. Kaplan**. 1997. Molecular and genetic analysis of the *Myxococcus xanthus sasB5* locus which controls expression of an A signal-dependent developmentally regulated gene. Amer. Soc. Microbiol. 97th Ann. Meet., Miami, FL, May.
24. Bowden, G. and **H.B. Kaplan**. 1997. Alterations in the *Myxococcus xanthus* O-antigen result in defective motility and A signal-independent *4521* developmental gene expression. 24th Conf. on the Biol. of the Myxobacteria. New Braunfels, TX, June.
25. Guo, D., Wu, Y. and **H.B. Kaplan**. 1997. Cloning and analysis of LPS O-antigen suppressors. 24th Conf. on the Biol. of the Myxobacteria. New Braunfels, TX, June.
26. Rivera, J. and **H.B. Kaplan**. 1997. Searching for additional regulators within the *Myxococcus xanthus sasB* locus. 24th Conf. on the Biol. of the Myxobacteria. New Braunfels, TX, June.
27. Xu, D., Yang, C. and **H.B. Kaplan**. 1997. Molecular and genetic analysis of the *Myxococcus xanthus sasB5* gene. 24th Conf. on the Biol. of the Myxobacteria. New Braunfels, TX, June.
28. Yang, C. and **H.B. Kaplan**. 1997. A histidine protein kinase and a response regulator control early *Myxococcus xanthus* developmental gene expression. 24th Conf. on the Biol. of the Myxobacteria. New Braunfels, TX, June.
29. Yang, Z., Xu, D., Geng, Y., **Kaplan, H.B.**, and W. Shi. 1997. Identification and characterization of a second chemosensory system of *Myxococcus xanthus* involved in cellular aggregation and developmental gene expression. 24th Conf. on the Biol. of the Myxobacteria. New Braunfels, TX, June.
30. **Kaplan, H.B.** 1997. Sensing and integration of multiple signals during early *Myxococcus xanthus* multicellular development. Progress in Mol. Genetics. Asilomar Conf. Center, Pacific Grove, CA., Dec.
31. Guo, D. and **H.B. Kaplan**. 1998. Analysis of the *los10* locus required for *Myxococcus xanthus* LPS core biosynthesis and multicellular development. Amer. Soc. Microbiol. 98th Ann. Meet., Atlanta, GA, May.
32. Yang, Z., Ma, X., Tong, L., Geng, Y., Sun, H., Xu, D., **Kaplan, H.B.** and W. Shi. 1998. Further characterization of the *Myxococcus xanthus dif* locus required for social motility. 25th Conf. on the Biol. of the Myxobacteria. Delphi, Greece, June.
33. Bowden, M.G., Yang, C., Guo, D., Xu, D. Gibson, J. and **H.B. Kaplan**. 1999. Integration of multiple signals during *Myxococcus xanthus* fruiting body development. Bacterial Locomotion and Signal Transduction Meeting. V. Cuernavaca, Mexico, Jan.

Publications: (continued)

A. Abstracts (continued)

34. Bowden, M.G. and **H.B. Kaplan**. 1999. The *Myxococcus xanthus* cell surface integrity is necessary for social gliding motility and multicellular fruiting body development. Amer. Soc. Microbiol. 99th Ann. Meet., Chicago, IL, May.
35. Bowden, M.G., Yang, C., Guo, D., Xu, D. Gibson, J. and **H.B. Kaplan**. 1999. Integration of multiple signals during *Myxococcus xanthus* fruiting body development. H. W. Jannasch Mem. Symp. Woods Hole, Oceanogr. Inst., Woods Hole, MA, June.
36. Rivera, J., Guo, D., Yang, C., Xu, D. and **H.B. Kaplan**. 1999. Analysis of the *Myxococcus xanthus* A signal-response pathways that control developmental gene expression. 26th Intern. Conf. on the Biol. of the Myxobacteria. Mt. Hood, OR, June.
37. Bowden, M.G. and **H.B. Kaplan**. 1999. Cell surface integrity is necessary for *Myxococcus xanthus* gliding motility, fruiting body formation and developmental gene expression. 26th Intern. Conf. on the Biol. of the Myxobacteria. Mt. Hood, OR, June.
38. Duan, X. and **H.B. Kaplan**. 2000. Analysis of the SasS sensor histidine kinase activity by site-directed mutagenesis. 27th Intern. Conf. on the Biol. of the Myxobacteria. Winterpark, CO. August.
39. Klein, D., Yang, C., Guo, D., and **H.B. Kaplan**. 2000. The *Myxococcus xanthus* SasS/SasR two-component system regulates developmental expression of *spi* and *sasN*. 27th Intern. Conf. on the Biol. of the Myxobacteria. Winterpark, CO. August.
40. Rivera, J., Guo, D. and **H.B. Kaplan**. 2000. Analysis of the *Myxococcus xanthus* pathways that control early developmental gene expression. 27th Intern. Conf. on the Biol. of the Myxobacteria. Winterpark, CO. August.
41. Yang, Z., Guo, D., Bowden, M.G., Sun, H., Tong, L., **Kaplan, H.B.**, and Shi, W. 2000. The *Myxococcus xanthus* *wbgB* gene encodes a glycosyltransferase homologue required for lipopolysaccharide O-antigen biosynthesis. 27th Intern. Conf. on the Biol. of the Myxobacteria. Winterpark, CO. August
42. Klein, D., Yang, C., Guo, D., and **H.B. Kaplan**. 2000. The *Myxococcus xanthus* SasS/SasR two-component system regulates developmental expression of *spi* and *sasN*. Lost Pines Molecular Biology Conf., Smithville, TX. October.
43. Duan, X. and **H.B. Kaplan**. 2001. Integration of multiple signals by the *Myxococcus xanthus* SasS sensor histidine kinase. 6th Conference on Bacterial Locomotion and Signal Transduction. Cuernavaca, Mexico, January.
44. Vilhelmsson, O., Bowden, M.G., Aditi, A. and **H.B. Kaplan**. 2001. Role of the O antigen in gliding/twitching motility in *Myxococcus xanthus* and *Pseudomonas aeruginosa*. 6th Conference on Bacterial Locomotion and Signal Transduction. Cuernavaca, Mexico, January.
45. Duan, X., Vilhelmsson, O., Guo, D., Bowden, M.G., and **H.B. Kaplan**. 2001. *Myxococcus xanthus* O antigen is critical for multicellular development and gliding motility. 28th Intern. Conf. on the Biol. of the Myxobacteria. Warwick, UK. July.
46. **Kaplan, H.B.** Status of the *Myxococcus xanthus* DNA microarray project. 2001 28th Intern. Conf. on the Biol. of the Myxobacteria. Warwick, UK. July.
47. Rivera, J. and **H.B. Kaplan**. 2001. Identification of regulators that control *Myxococcus xanthus* early developmental gene expression. Texas Branch of the American Society for Microbiology Annual Meeting. San Antonio, TX, November. **(1st place O.B. Williams Award, graduate student oral presentation)**

Publications: (continued)

A. Abstracts (continued)

48. Vilhelmsson, O. and **H.B. Kaplan**. 2002. Quantitative analysis of *Myxococcus xanthus* and *Pseudomonas aeruginosa* surface motility required for biofilm formation. Gordon Conference on Signal Transduction in Microorganisms. Ventura, CA, January.
49. Rivera, J. and **H.B. Kaplan**. 2002. Identification of regulators that control *Myxococcus xanthus* early developmental gene expression. American Society for Microbiology General Meeting. Salt Lake City, UT, May.
50. Rivera, J. and **H.B. Kaplan**. 2002. An operon encoding an ECF sigma factor and anti-sigma factor controls early *Myxococcus xanthus* developmental gene expression. 29th Intern. Conf. on the Biol. of the Myxobacteria. Mont-Sainte-Anne, Canada, July.
51. Vilhelmsson, O., Esmailiyan, M. and **H.B. Kaplan**. 2002. *Myxococcus xanthus* social gliding is a form of twitching motility. 29th Intern. Conf. on the Biol. of the Myxobacteria. Mont-Sainte-Anne, Canada, July.
52. Duan, X-Y. and **H.B. Kaplan**. 2002. Isolation of *Myxococcus xanthus* lipopolysaccharide biosynthesis mutants by Himar1 transposon mutagenesis. 29th Intern. Conf. on the Biol. of the Myxobacteria. Mont-Sainte-Anne, Canada, July.
53. Rivera, J. and **H.B. Kaplan**. 2002. An operon encoding an ECF sigma factor and anti-sigma factor controls early *Myxococcus xanthus* developmental gene expression. American Society for Microbiology Conference on Prokaryotic Development. Quebec City, Canada, July.
54. Rivera, J. and **H.B. Kaplan**. 2002. An operon encoding an ECF sigma factor and anti-sigma factor controls early *Myxococcus xanthus* developmental gene expression. Gordon Conference on Microbial Stress Responses. Newport, RI, July.
55. Rivera, J. and **Kaplan, H.B.** 2003. Parallel pathways sense and integrate starvation, cell density, and envelope stress signals during early *Myxococcus xanthus* development. 7th Conference on Bacterial Locomotion and Signal Transduction. Cuernavaca, Mexico, January.
56. Barbu, E.M., Esmailiyan, M., and **Kaplan, H.B.** 2003. Identification and characterization of *Myxococcus xanthus* capsule biosynthesis and assembly genes. 30th Intern. Conf. on the Biol. of the Myxobacteria. Long Beach, CA, July.
57. Duan, X-Y. and **Kaplan, H.B.** 2003. Isolation and characterization of the *Myxococcus xanthus hldE* genes required for LPS core biosynthesis. 30th Intern. Conf. on the Biol. of the Myxobacteria. Long Beach, CA, July.
58. Esmailiyan, M., Duan, X-Y. and **Kaplan, H.B.** 2003. Characterization of the *Myxococcus xanthus* putative D-mannose and D-rhamnose biosynthesis genes. 30th Intern. Conf. on the Biol. of the Myxobacteria. Long Beach, CA, July.
59. Esmailiyan, M., Duan, X-Y. and **Kaplan, H.B.** 2003. Characterization of the *Myxococcus xanthus* putative D-mannose and D-rhamnose biosynthesis genes. Lost Pines Molecular Biology Conf. Smithville, TX. October.
60. Barbu, E.M., Esmailiyan, M., and **Kaplan, H.B.** 2004. Identification and characterization of *Myxococcus xanthus* exopolysaccharide biosynthesis and assembly genes. American Society for Microbiology General Meeting. New Orleans, LA. May.

Publications: (continued)

A. Abstracts (continued)

61. Esmaeiliyan, M., Duan, X-Y. and **Kaplan, H.B.** 2004. Characterization of the *Myxococcus xanthus* putative D-mannose and D-rhamnose biosynthesis genes. American Society for Microbiology General Meeting. New Orleans, LA. May.
62. Rivera, J. and **H.B. Kaplan.** 2004. An operon encoding an ECF sigma factor and anti-sigma factor controls early *Myxococcus xanthus* developmental gene expression. American Society for Microbiology General Meeting. New Orleans, LA. May.
63. Barbu, E.M., Esmaeiliyan, M., and **Kaplan, H.B.** 2004. Identification and characterization of *Myxococcus xanthus* exopolysaccharide biosynthesis and assembly genes. 31th Intern. Conf. on the Biol. of the Myxobacteria. Elsinore, Denmark, July.
64. Rivera, J. and **H.B. Kaplan.** 2004. An operon encoding an ECF sigma factor and anti-sigma factor controls early *Myxococcus xanthus* developmental gene expression. 31th Intern. Conf. on the Biol. of the Myxobacteria. Elsinore, Denmark, July.
65. Rivera, J. and **H.B. Kaplan.** 2004. An operon encoding an ECF sigma factor and anti-sigma factor controls early *Myxococcus xanthus* developmental gene expression. Microbial Stress Response Gordon Conference. Amherst, MA, July.
66. Rivera, J., Esmaeiliyan, M., Barbu, E.M. and **H.B. Kaplan.** 2005. Sensing and integrating multiple signals during early *Myxococcus* multicellular development. 8th Conference on Bacterial Locomotion and Signal Transduction. Boca Rotan, FL, January.
67. Esmaeiliyan, M., Rivera, J. and **H.B. Kaplan.** 2005. Characterization of an ECF sigma factor operon that regulates early *Myxococcus xanthus* developmental gene expression. 32th Intern. Conf. on the Biol. of the Myxobacteria. Harrison Hot Springs, British Columbia, Canada, July.
68. Esmaeiliyan, M., Rivera, J. and **H.B. Kaplan.** 2005. Characterization of an ECF sigma factor operon that regulates early *Myxococcus xanthus* developmental gene expression. 2nd ASM Conference on Prokaryotic Development. Vancouver, Canada, July.
69. Esmaeiliyan, M. and **H.B. Kaplan.** 2005. Envelope stress sensing during *Myxococcus* multicellular development. Texas Branch of the American Society for Microbiology. Denton, TX, November.
70. Greaser, M.C. and **H.B. Kaplan.** 2005. Identification of causative bacteria in osteomyelitis using rapid and sensitive 16S rDNA detection. Texas Branch of the Amer. Soc. Microbiol. Denton, TX, November.
71. Greaser, M.C., Zhang, Y., Ambrose, C., and **H.B. Kaplan.** 2006. Identification of causative bacteria in osteomyelitis using rapid and sensitive 16S rDNA detection. 23rd Annual Houston Conference on Biomedical Engineering Research. Houston, TX, February.
72. Greaser, M.C., Zhang, Y., Ambrose, C., and **H.B. Kaplan.** 2006. Identification of causative bacteria in osteomyelitis using rapid and sensitive 16S rDNA detection. TAMPEST Meeting, Galveston, TX. March.
73. Ardestani, S. and **H.B. Kaplan.** 2006. Genetic identification of the *Myxococcus xanthus* envelope stress sensor. Texas Branch of the American Society for Microbiology. John Knox Ranch, TX, March.
74. Zhang, Y., Esmaeiliyan, M. and **H.B. Kaplan.** 2006. Cell envelope integrity and quorum sensing regulate expression of the *Myxococcus xanthus* developmental gene 4445. 33th Intern. Conf. on the Biol. of the Myxobacteria. Traverse City, Michigan, July.

Publications: (continued)

A. Abstracts (continued)

75. Ardestani, S., Esmaeiliyan, M. and **H.B. Kaplan**. 2006. Identification of a *Myxococcus xanthus* gene involved in an envelope stress pathway. Texas Branch of the American Society for Microbiology. Galveston, TX, November. (2nd place poster award)
76. Winslow, S.J., Jacob, V., Wang, Y., Ambrose, C. and **H.B. Kaplan**. 2006. Development of a clinically relevant *in vitro* model for *Staphylococcus aureus* biofilms on orthopaedic biomaterials. Texas Branch of the American Society for Microbiology. Galveston, TX, November.) (3rd place poster award)
77. Ambrose, C., **Kaplan, H.B.**, Winslow, S.J., Jacob, V., and Y. Wang. 2007. Development of an *in-vitro* model for *Staphylococcus aureus* biofilms on orthopaedic devices. 24rd Annual Houston Conference on Biomedical Engineering Research. Houston, TX, February.
78. Esmaeiliyan, M. and **H.B. Kaplan**. 2007. Quorum sensing and cell envelope integrity regulate expression of a *Myxococcus xanthus* developmental gene. 4th ASM Conference on Biofilms. Quebec City, Canada. March.
79. Winslow, S.J., Jacob, V., Wang, Y., Ambrose, C. and **H.B. Kaplan**. 2007. Development of an *in vitro* model for *Staphylococcus aureus* biofilms on orthopaedic devices. 4th ASM Conference on Biofilms. Quebec City, Canada. March.
80. Esmaeiliyan, M., Duan, X., MacLean, L., Perry, M.B., Vinogradov, E. and **H.B. Kaplan**. 2007. Structure and function of the *Myxococcus xanthus* cell envelope. 34th Intern. Conf. on the Biol. of the Myxobacteria. Granada, Spain, July.
81. Tart, A., Esmaeiliyan, and **H.B. Kaplan**. 2007. Quorum sensing and cell envelope integrity regulate expression of a *Myxococcus xanthus* developmental gene. 3rd ASM Conference on Cell-cell Communication in Bacteria. Austin, TX, October.
82. Funk, S.S., Ambrose, C.G., and **H.B. Kaplan**. 2007. Development of an *in vitro* biofilm model for Diabetic foot ulcer infections. Texas Branch of the American Society for Microbiology Fall Meeting. Huntsville, TX, November. (**First place poster award**)
83. Jordan, M., Ardestani, S., Trotscher, T., Wanger, A., Guo, D., **Kaplan, H.B.**, and C. Ambrose. 2007. Development of a rapid and sensitive molecular diagnostic test to identify the causative bacteria in diabetic foot ulcer infections. Texas Branch of the American Society for Microbiology Fall Meeting, Huntsville, TX, November.
84. Juarez J.R., Funk, S.S., Winslow, S.J., Ambrose, C.G., and **H.B. Kaplan**. 2008. An *in-vitro* model for *Staphylococcus aureus* osteomyelitis biofilm infections. Molecular Basis for Infection Disease Training Grant Retreat. Houston, TX, March.
85. Ardestani, S., Jordan, M., Trotscher, T., Wanger, A., Guo, D., Ambrose, C. and **H.B. Kaplan**. 2008. Identification of the causative bacteria in osteomyelitis infections using the rapid and sensitive 16S rRNA gene molecular diagnostic technique. Molecular Basis for Infection Disease Training Grant Retreat. Houston, TX, March.
86. Tart, A., Esmaeiliyan, M., and **H.B. Kaplan**. 2008. Muropeptide-mediated signaling during early development in *Myxococcus xanthus*. Molecular Basis for Infection Disease Training Grant Retreat. Houston, TX, March. (**First place postdoctoral fellow poster award**)

Publications: (continued)

A. Abstracts (continued)

87. Love, P. and **H.B. Kaplan**. 2008. Evaluation of the effect of tobramycin on *Staphylococcus aureus* biofilm formation. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March. **(Second place poster award)**
88. Tart, A., Esmaeiliyan, M., and **H.B. Kaplan**. 2008. Muropeptide-mediated signaling during early development in *Myxococcus xanthus*. Microbial Stress Responses. Gordon Research Conference. Mount Holyoke College. July.
89. Tart, A., Esmaeiliyan, M., Rivera, J. and **H.B. Kaplan**. 2008. A new quorum signal during early development *Myxococcus xanthus*. 35th Intern. Conf. on Biol. of the Myxobacteria. Sonoma, CA, July.
90. James, R.A., Bell, A.T., Vaksman, Z., Igoshin, O., and **H.B. Kaplan**. 2008. Single-cell gene expression during *Myxococcus* multicellular development. Conf. on Evolutionary Design Principles of Biological Networks. Houston, TX. December.
91. Ambrose, C., Ardestani, S., Gomez, K., Troetscher T., Wanger A., Dongchuan Guo D., Clyburn, T., and **H.B. Kaplan**. 2009. Identification of causative bacteria in musculoskeletal infections using rapid and sensitive 16S rDNA detection. Orthopaedic Research Society Conf. San Francisco, CA. February.
92. Gomez, K. Ambrose, C. and **H.B. Kaplan**. 2009. Bad to the bone:Identifying osteomyelitis pathogens with 16S rDNA detection. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March. **(Honorable Mention award)**
93. Gomez, K. Ambrose, C. and **H.B. Kaplan**. 2009. Bad to the bone:Identifying osteomyelitis pathogens with 16S rDNA detection. Molecular Basis Infection Disease Training Grant Retreat. Houston, TX, March.
94. Blankenship, A.L., Gomez, K., Ardestani, S., Ambrose, C. and **H.B. Kaplan**. 2009. Identification of the causative bacteria in diabetic foot ulcer infections by 16S rDNA detection. 26rd Annual Houston Conference on Biomedical Engineering Research. Houston, TX, February.
95. Vaksman, Z., Bell, A., Esmaeiliyan, M., and **H.B. Kaplan**. 2009. A new quorum signal during early development *Myxococcus xanthus*. 3rd ASM Conference on Prokaryotic Development. Boston, MA, July.
96. Vaksman, Z., Bell, A., Esmaeiliyan, M., and **H.B. Kaplan**. 2009. A new quorum signal during early development *Myxococcus xanthus*. 35th Intern. Conf. on Biol. of the Myxobacteria. Waltham, MA, July.
97. Moore, D., Ambrose, C.G. and **H.B. Kaplan**. 2010. Effect of glucose concentrations on *Staphylococcus aureus* biofilm formation in an *in vitro* model for diabetic foot ulcer infections. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March.
98. Gomez, K., Ambrose, C.G. and **H.B. Kaplan**. 2010. Identification of the causative bacteria in osteomyelitis infections using the rapid and sensitive 16S rDNA molecular diagnostic technique. Texas Branch of the ASM Spring Meeting. New Brunfels, TX, March. **(2nd place graduate student oral pres.)**
99. Manchanda K., Vaksman Z., Igoshin O., and **H.B. Kaplan**. 2010. Analysis of single-cell gene expression during *Myxococcus xanthus* multicellular development. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March.
100. Thorson, M., Vaksman, Z., Igoshin, O., and **H.B. Kaplan**. 2010. A new *Myxococcus xanthus* quorum signal initiates multicellular development and *Bacillus subtilis* germination. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March.

Publications: (continued)

A. Abstracts (continued)

101. Vaksman, Z., Esmailiyan, M., Thorson, M., and **H.B. Kaplan**. 2010. A *Myxococcus xanthus* muropeptide quorum signal initiates multicellular development and *Bacillus subtilis* germination. 36th Intern. Conf. on Biol. of the Myxobacteria. Saarbrucken, Germany, August.
102. Zhang, H., Vaksman, Z., **Kaplan, H.B.** and O. A. Igoshin. 2010. Mathematical modeling suggests the mechanism and physiological role of predatory ripples. 36th Intern. Conf. on Biol. of the Myxobacteria. Saarbrucken, Germany, August.
103. Zhang, H., Vaksman, Z., **Kaplan, H.B.** and O. A. Igoshin. 2010. Mathematical modeling suggests the mechanism and physiological role of predatory ripples. Gulf Coast Consortium for Bioinformatics Workshop, Houston, TX, December.
104. Zhang, H., Vaksman, Z., **Kaplan, H.B.** and O. A. Igoshin. 2011. Mechanisms and physiological role of *Myxococcus xanthus* predatory rippling. 11th Conference on Bacterial Locomotion and Signal Transduction. New Orleans, LA, January.
105. Garcia, V.M., Vaksman, Z., Gomez, K., Tribble, G., Taylor, S.R., and **H.B. Kaplan**. 2011. Developing an *in vitro* biofilm model for dental caries. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March. **(1st place graduate student poster)**
106. Pham, T., Shaw, J., **Kaplan, H.B.**, Sen, M. and C.G. Ambrose. 2011. Eradicating *Staphylococcus aureus* biofilm and planktonic cells by exposure to silver nanodressing. Texas Branch of the American Society for Microbiology Spring Meeting. New Brunfels, TX, March.
107. Zhang, H., Vaksman, Z., **Kaplan, H.B.** and O. A. Igoshin. 2011. Mechanisms and physiological role of *Myxococcus* predatory rippling. 37th Intern. Conf. on Biol. of the Myxobacteria. Mt. Cisco, NY, July.
108. Vega-Arroyo, M., Taylor, S.R., Arvidson, R.S., **Kaplan, H.B.**, and A. Luttge. 2011. Exploration of interactions involving human tooth enamel and dental composites using vertical scanning interferometry. Geochemistry Society Goldschmidt 2011 Conference. Prague, Czech Republic, August.
109. Tran T.T., Lewis, C.T., Jaijakul, S., Diaz, L., Murray, B.E., Wanger, A., **Kaplan, H.B.** and C.A. Arias. 2011. Heterogeneous resistance to daptomycin (DAP) in *Corynebacterium striatum* causing endocarditis: collateral damage from DAP therapy. 51st Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Chicago, IL, September.
110. Vaksman, Z., Esmailiyan, M., and **H.B. Kaplan**. 2011. A *Myxococcus xanthus* muropeptide quorum signal initiates multicellular development and *Bacillus subtilis* germination. 4th ASM Conference on Cell-cell Communication in Bacteria. Miami, FL, October.
111. Darkoh, C., **Kaplan, H.B.** and H. DuPont. 2011. Regulation of *Clostridium difficile* toxin production by a quorum signaling system. 4th ASM Conference on Cell-cell Communication in Bacteria. Miami, FL, October.
112. Darkoh, C., **Kaplan, H.B.** and H. DuPont. 2011. Regulation of *Clostridium difficile* toxin production by a quorum signaling system. Texas Branch of the American Society for Microbiology Fall Meeting. Arlington, TX, October. **(First place S.E. Sulkin Award Graduate Student Oral Presentation in Medical Microbiology)**
113. Andrade, F., Graham, C., Vaksman, Z., Gomez, K., Tribble, G. Taylor, S.R. and **H.B. Kaplan**. 2011. Developing an *in vitro* biofilm model for dental caries. Texas Branch of the American Society for Microbiology Fall Meeting. Arlington, TX, October.

Publications: (continued)

A. Abstracts (continued)

114. Tierney, K., Andrade, F., Vaksman, Z. and **H.B. Kaplan**. 2011. Incorporation of hyaluronic acid into *Staphylococcus aureus* biofilms. Texas Branch of the American Society for Microbiology Fall Meeting. Arlington, TX, October.
115. Stover B, Vaksman Z, Kaplan HB, Ambrose CG, Sen M. Testing for Contrasting Infection Rates and Biofilm Formation among Biomaterials in an *in vitro* Biofilm Infection Model. Paper presented at: The 2011 Annual Meeting of the Orthopaedic Trauma Association, San Antonio, Texas, October 2011.
116. Ambrose, C.G., Miranda, J.A., Gogola. G.R., Gomez, K., and **H.B. Kaplan**. 2012. Persistence of bacterial DNA in orthopaedic infections. Orthopaedic Research Society Conf. San Francisco, CA. February.
117. Dominy DD, Ambrose CG, Shaw J, Stover B, Vaksman Z, Kaplan HB, Sen M. Hydrosurgery as an Adjunct to Remove Bacteria from Orthopaedic Biomaterials. Poster presented at: The 2012 Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2012.
118. Shaw J, Kaplan HB, Sen M, Ambrose CG. Efficacy of Silver Nanodressing in Eradication of *Staphylococcus aureus* Biofilms. Poster presented at: The 2012 Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2012.
119. Keasler, V., Bennett, B., Keller, C., Vaksman, Z., and **H.B. Kaplan**. 2012. Optimization of a microbial control program in an aging Gulf of Mexico asset to minimize the risk of corrosion. NACE Corrosion 2012, Salt Lake City, UT. March.
120. Graham, C.E., Andrade, F., Tierney, K., Vaksman, Z., Ambrose, C. and **H.B. Kaplan**. 2012. Incorporation of hyaluronic acid in *Staphylococcus aureus* biofilms. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, April.
121. Zhang, H., Xie, C., Vaksman, Z., **Kaplan, H.B.**, Shimkets, L.J. and O. A. Igoshin. 2012. Mechanisms of self-organization in *Myxococcus xanthus*: aggregation and ripples. 4th ASM Conference on Prokaryotic Cell Biology and Development. Montreal, Canada, May.
122. Darkoh, C., **Kaplan, H.B.** and H. DuPont. 2012. Regulation of Clostridium difficile toxin production by a quorum signaling system. American Society Microbiology General Meeting. San Francisco, CA. June.
123. Andrade, F., Graham, C., Vaksman, Z., Gomez, K., Vega-Arroyo, M., Kim, Y., Arvidson, R.S., Luttge, A., Tribble, G., Taylor, S.R. and **H.B. Kaplan**. 2012. Development and characterization an *in vitro* biofilm model for dental caries. American Society for Microbiology General Meeting. San Francisco, CA. June.
124. Petrosino, J.F., Alicki, E.R., Andrade, F., Jiang, H., Parthasarathy, D.K., Torregrossa, A.C., Tribble, G., **Kaplan, H.B.** and N.S. Bryan. 2012. Metagenomic analysis of bacteria from human tongue scrapings reveals novel bacterial communities that contribute nitrite and nitric oxide to the host. 7th Nitric Oxide Conference. Edinburgh, U.K. July.
125. Andrade, F., Graham, C., Vaksman, Z., Gomez, K., Vega-Arroyo, M., Kim, Y., Arvidson, R.S., Luttge, A., Ambrose, C.G., Tribble, G., Taylor, S.R. and **H.B. Kaplan**. 2012. Effects of sucrose exposure on the population dynamics of an *in vitro* four-species cariogenic biofilm model. 6th ASM Conference on Biofilms. Miami, FL, October.

Publications: (continued)

A. Abstracts (continued)

126. Andrade, F., Cheng, Y., Graham, C., Vaksman, Z., Ambrose, C.G. and **H.B. Kaplan**. 2012. *Staphylococcus aureus* biofilm disassembly by exogenous hyaluronidase in an *in vitro* osteomyelitis biofilm model. 6th ASM Conference on Biofilms. Miami, FL, October.
127. Alicki E.R., Andrade F., **Kaplan, H.B.**, Tribble, G., Bryan, N.S. and J.F. Petrosino. 2012. Metagenomic and biochemical analysis of human oral bacterial biofilms reveals bacterial communities that contribute nitric oxide to the host. 4th ASM Conference on Beneficial Microbes. San Antonio, TX, November.
128. Taylor, S.R., Contu, F., Vega-Arroyo, M., Mondal, S.K., Ambrose, C.G., **Kaplan, H.B.**, Andrade, F., Hicks, M.J., Luttge, A., and R.S. Arvidson. 2013. The role of biofilm and the micro-gap on the development of secondary caries”, (invited) Intern. Assoc. Dental Res., Seattle, WA, March.
129. Andrade, F., Graham, C., Vaksman, Z., Gomez, K., Vega-Arroyo, M., Kim, Y., Arvidson, R.S., Luttge, A., Ambrose, C.G., Tribble, G., Taylor, S.R. and **H.B. Kaplan**. 2013. Effects of sucrose exposure on the population dynamics of an *in vitro* four-species cariogenic biofilm model. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, April.
130. Alicki E.R., Andrade F., Tribble, G., **Kaplan, H.B.**, Bryan, N.S. and J.F. Petrosino. 2013. Metagenomic and biochemical analyses identify oral bacterial communities that contribute nitrite and nitric oxide to the host. of human oral bacterial biofilms reveals bacterial communities that contribute nitric oxide to the host. American Society for Microbiology General Meeting, Denver, CO May (**ASM Student Travel Award**)
131. Balagam, R., Litwin, D.B., **Kaplan, H.B.** and O.A. Igoshin. 2013. Biophysical analysis of mechanical intercellular interactions discriminates between alternative models of A-motility. 39th Intern. Conf. on Biol. of the Myxobacteria. Beijing, China, August.
132. Darkoh, C., DuPont, H.L., Norris, S.J. and **H.B Kaplan**. 2014. Toxin synthesis by *Clostridium difficile* is stringently regulated through quorum signaling. 5th ASM Conference on Cell-cell Communication in Bacteria. San Antonio, TX, October.
133. Darkoh, C., DuPont, H.L. and **H.B Kaplan**. 2015. Agr quorum signaling-dependent regulation of *Clostridium difficile* toxin production and pathogenesis. American Society for Microbiology General Meeting. New Orleans, LA, May.
134. Andrade, F., Berry, T., Vega-Arroyo, M., Tribble, G., Hicks, J.S., Taylor, S.R. and **H.B. Kaplan**. 2015. Development and characterization an *in vitro* four species anaerobic dental biofilm model. American Society for Microbiology General Meeting. New Orleans, LA, May.
135. Litwin D.B., Berry, T., Scerbo M., Dua, A., Ambrose, C.G., Moore, L.J., Wade, C.E. Holcomb, J.B., and **H.B. Kaplan**. 2015. Development of a molecular method for early detection of bacteremia in a surgical intensive care unit. American Society for Microbiology General Meeting. New Orleans, LA, May.
136. **Kaplan, H.B.**, Andrade, F., Vega-Arroyo, M., Haeberle, H., Contu, F., Tribble, G., Hicks, M.J., Taylor, S.R. and C.G. Ambrose. 2015. An *in vitro* anaerobic four-species biofilm model for analysis of secondary caries. 6th ASM Conference on Biofilms. Chicago, IL, October.
137. Kisson, K., Patra, P., Igoshin, O. and **H.B. Kaplan**. 2015. Quantitation of cell-density effects of twitching motility in *Myxococcus xanthus*. Texas Branch of the American Society for Microbiology Fall Meeting. Huntsville, TX, October.

Publications: (continued)

A. Abstracts (continued)

138. **Kaplan, H.B.**, DuPont, H.L. and C. Darkoh. 2016. Toxin synthesis by *Clostridium difficile* is stringently regulated through quorum signaling. Gordon Conference on Signal Transduction in Microorganisms. Ventura, CA, January.
139. Kisson, K., Cornejo, I., Patra, P., Igoshin, O. and **H.B. Kaplan**. 2016. *Myxococcus xanthus* social motility-driven colony expansion is dependent on cell density, exopolysaccharide deposition, and nutrient exposure. Texas Branch American Society for Microbiology Spring Meeting. New Braunfels, TX, April. **(Winner 1st place Orville Wyss Undergraduate Oral Presentation Award.)**
140. Cornejo, I., Kisson, K., Patra, P., Igoshin, O. and **H.B. Kaplan**. 2016. Social motility-driven *Myxococcus xanthus* colony expansion can be modeled using Fisher's equation. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, April.
141. Cornejo, I., Kisson, K., Patra, P., Igoshin, O. and **H.B. Kaplan**. 2017. Studies of kin discrimination in the social bacterium *Myxococcus xanthus*. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, April. **(1st place Orville Wyss Undergraduate Poster Presentation Award in Basic and Pathogenic Microbiology.)**
142. Kisson, K., Patra, P., Cornejo, I., Igoshin, O. and **H.B. Kaplan**. 2017. Examining the Role of Exopolysaccharide in *Myxococcus xanthus* Social Motility. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, April.
143. Patra, P., Kisson, K.*, Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2017. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. 43rd Intern. Conf. on Biol. of the Myxobacteria. Arlington, VA, July.
144. Patra, P., Kisson, K., Bowden, M. G., Igoshin, O., and **H.B. Kaplan***. 2017. Density-dependent colony expansion of socially motile *Myxococcus xanthus* cells is driven by exopolysaccharides. 6th ASM Conference on Cell-cell Communication in Bacteria. Athens, GA. October.
145. *Kisson, K., Patra, P., Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2017. Density-dependent colony expansion of socially motile *Myxococcus xanthus* cells is driven by exopolysaccharides. Texas Branch of the American Society for Microbiology Fall Meeting. College Station, TX, October. **(1st place Sarah McIntire Undergraduate Oral Presentation Award.)**
146. Kisson, K., Patra, P., Cornejo, I., Bowden, M. G., Igoshin, O., and **H.B. Kaplan***. 2018. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. Gordon Conference on Signal Transduction in Microorganisms. Ventura, CA, January.
147. *Kisson, K., Patra, P., Cornejo, I., Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2018. Density-dependent colony expansion of socially motile *Myxococcus xanthus* cells is driven by exopolysaccharides. AAAS Annual Meeting. Austin, TX. February. **(Honorable Mention, Student E-Poster Competition in Cellular and Molecular Biology.)**
148. *Kisson, K., Patra, P., Cornejo, I., Igoshin, O., M.G. Bowden, and **H.B. Kaplan**. 2018. *Myxococcus xanthus* exopolysaccharide regulates social motility by affecting single cell speed and reversals. Molecular Basis of Infection Disease Training Grant Retreat. Houston, TX. February.
149. *Cornejo, I., Dieu, B., Patra, P., Kisson, K., Igoshin, O., and **H.B. Kaplan**. 2018. Studies of kin discrimination in the social bacterium *Myxococcus xanthus*. Molecular Basis of Infection Disease Training Grant Retreat. Houston, TX, February.

Publications: (continued)

A. Abstracts (continued)

150. *Wheless, A., Pruitt, L., Harkins, P., NanB., **Kaplan, H.B.**, and M.G. Bowden. 2018. Construction of an EPS-deficient *Myxococcus xanthus* strain. Molecular Basis of Infection Disease Training Grant Retreat. Houston, TX, February.

151. *Pruitt, L., Harkins, P., NanB., **Kaplan, H.B.**, and M.G. Bowden. 2018. Construction of *Myxococcus xanthus* EPS-deficient strains for motility analysis. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, March.

152. *Kissoon, K., Patra, P., Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2018. Density-dependent colony expansion of socially motile *Myxococcus xanthus* cells is driven by exopolysaccharides. Texas Branch of the American Society for Microbiology Spring Meeting. New Braunfels, TX, March.

153. *Kissoon, K., Patra, P., Bowden, M.G., Igoshin, O., and **H.B. Kaplan**. 2018. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. Texas Branch of the American Society for Microbiology Fall Meeting. Corpus Christi, TX, November.

154. *Kissoon, K., Patra, P., Bowden, M.G., Igoshin, O., and **H.B. Kaplan**. 2018. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. Annual Biomedical Research Conference for Minority Students (ABRCMS). Indianapolis, IN, November. **(Won an Undergraduate Oral Presentation Award in Microbiology.)**

155. *Rodriguez-Marino, N.C., Bowden, M.G., and **H.B. Kaplan**. 2018. Gene expression and cell wall recycling during early development in *Myxococcus xanthus*. Annual Biomedical Research Conference for Minority Students (ABRCMS). Indianapolis, IN, November.

156. *Kissoon, K., Patra, P., Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2019. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. AAAS Annual Meeting. Washington, DC. February.

157. Kissoon, K., Patra, P., Bowden, M. G., Igoshin, O., and **H.B. Kaplan***. 2019. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. 45th Intern. Conf. on Biol. of the Myxobacteria. Houston, TX, June.

158. *Kissoon, K., Patra, P., Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2019. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. American Society for Microbiology Annual Microbe Meeting. San Francisco, CA, June.

159. ***Kaplan, H.B.**, Gibson, S., Green, S., Salazar, K., Skelton-Dudley, F., Trautner, B.W., Maresso, A., and R.F. Ramig. 2019. Bacteriophages as therapeutic agents to treat antimicrobial resistant catheter-associated urinary tract infections of spinal cord injury patients. 3rd Clinical and Scientific Advances in Urinary Tract Infections. Columbus, OH. June.

160. *Shaw, J., Baker, A., Kim, Y., Milhoan, M., Gary, J.L., Burgess, A.R., **Kaplan, H.B.**, and C.G. Ambrose. 2019. The effects of sterilization techniques on bioactivity of PMMA antibiotic beads containing vancomycin and tobramycin. Presented at the 2019 meeting of the Orthopaedic Trauma Association, Denver, CO, September.

161. *Rodriguez, N.C., Kissoon, K., Bowden, M. G., and **H.B. Kaplan**. 2019. Examining the role of exopolysaccharides on *Myxococcus xanthus* single-cell social motility. Annual Biomedical Research Conference for Minority Students (ABRCMS). Anaheim, CA, November. **(Won an Undergraduate Oral Presentation Award in Microbiology.)**

Publications: (continued)

A. Abstracts (continued)

162. *Kissoon, K., Rodriguez, N.C., Zhang, Z., Patra, P., Bowden, M. G., Igoshin, O., and **H.B. Kaplan**. 2020. Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells. Molecular Basis of Infection Disease Training Grant Retreat. Houston, TX, January.
163. Kissoon, K., Rodriguez, N.C., Zhang, Z., Patra, P., Bowden, M. G., Igoshin, O., and ***H.B. Kaplan**. 2020. Exopolysaccharides drive type IV pili-mediated motility of *Myxococcus xanthus* cells. Gordon Conference on Signal Transduction in Microorganisms. Ventura, CA, January.
164. *Kissoon, K., Rodriguez, N.C., Payne, K., Zhang, Z., Patra, P., Igoshin, O., Bowden, M. G., and **H.B. Kaplan**. 2020. Exopolysaccharides drive type IV pili-mediated motility of *Myxococcus xanthus* cells. American Society for Microbiology Annual Microbe Meeting. Chicago, IL, June. CANCELED DUE TO COVID-19.
165. *Kamat, L., Hines-Munson, H., Liao, K., Muldrew, K., Terwilliger, A., **Kaplan, H.B.**, Ramig, R.F., Maresso, A.W., and B.W. Trautner. 2020. Assessment of microbial etiologies of LVAD infections to guide development of bacteriophage therapy. American College of Surgery Clinical Congress. Virtual. October.
166. *Sanchez, B.C., Heckman, E.R., Ramig, F.R., **Kaplan, H.B.**, Hines-Munson, C., Skelton, F., Trautner, B.W., and A.W. Maresso. 2021. Development of bacteriophages with anti-biofilm properties as a novel treatment for catheter-associated urinary tract infections. Molecular Basis of Infection Disease Training Grant Retreat. Houston, TX, January.
167. *Sanchez, B.C., Heckman, E.R., Ramig, F.R., **Kaplan, H.B.**, Hines-Munson, C., Skelton, F., Trautner, B.W., and A.W. Maresso. 2021. Development of bacteriophages with anti-biofilm properties as a novel treatment for catheter-associated urinary tract infections. 4th Annual TMC Antimicrobial Resistance and Stewardship Conference. Houston, TX, January.
168. *Sanchez, B.C., Heckman, E.R., Ramig, F.R., **Kaplan, H.B.**, Hines-Munson, C., Skelton, F., Trautner, B.W., and A.W. Maresso. 2021. Development of bacteriophages with anti-biofilm properties as a novel treatment for catheter-associated urinary tract infections. World Microbe Forum. Virtual, June.
169. *Narro, A.J., Brown, E., Ambrose, C.G., and H.B. **Kaplan**. Bacteriophage-containing biodegradable microsphere technology to treat osteomyelitis. Texas Branch of the American Society for Microbiology Fall Meeting. Virtual. November.
170. *Narro, A.J., Brown, E., Kaplan, H.B. and C.G. Ambrose. 2022. Bacteriophage-containing biodegradable microsphere technology to treat osteomyelitis. Orthopaedic Research Society. Tampa, FL. February.
171. *Brown, E., Narro, A.J., C.G. Ambrose, and H.B. Kaplan,. 2022. Bacteriophage-containing biodegradable microsphere technology to treat osteomyelitis. Texas Branch of the American Society for Microbiology Spring Meeting. Virtual. March.
172. *Kaplan, H.B, Narro, A.J., Brown, E., and C.G. Ambrose. 2022. Bacteriophage-containing biodegradable microsphere technology to treat osteomyelitis. American Society for Microbiology Annual Microbe Meeting. Washington, DC, June.
173. Sanchez, B.C., Heckman, E.R., Ramig, F.R., Kaplan, H.B., Green, S., Hines-Munson, C., Skelton, F., Trautner, B.W., and A.W. Maresso. 2022. Development of bacteriophages with anti-biofilm properties as novel treatment for catheter-associated urinary tract infections. American Society for Microbiology Annual Microbe Meeting. Washington, DC, June.

Publications: (continued)

B. Refereed Original Articles in Journals

1. Stegeman, J.J. and **H.B. Kaplan**: Mixed-function oxygenase activity and benzo(a)pyrene metabolism in the barnacle, *Balanus eburneus*. Comp. Biochem. Physiol. 68C: 55-61, 1981.
2. **Kaplan, H.B.**, A. Eberhard, C. Widrig, and E.P. Greenberg: Synthesis of N-[3-oxo-(4,5-³H₂)-hexanoyl] homoserine lactone: biologically active, tritium-labeled *Vibrio fischeri* autoinducer. J. Labeled Compd. and Radiopharm. XXII:(4):387-395, 1985.
3. **Kaplan, H.B.** and E.P. Greenberg: Diffusion of autoinducer is involved in regulation of the *Vibrio fischeri* luminescence system. J. Bacteriol. 163:1210-1214, 1985.
4. **Kaplan, H.B.** and E.P. Greenberg: Overproduction and purification of the *luxR* gene product: Transcriptional activator of the *Vibrio fischeri* luminescence system. Proc. Natl. Acad. Sci. USA 84:6639-6643, 1987.
5. **Kaplan, H.B.**, A. Kuspa, and D. Kaiser: Suppressors that permit A-signal-independent developmental gene expression in *Myxococcus xanthus*. J. Bacteriol. 173:1460-1470, 1991.
6. Gulati, P., D. Xu and **H.B. Kaplan**: Identification of the minimum regulatory region of a *Myxococcus xanthus* A-signal-dependent developmental gene. J. Bacteriol. 177:4645-4651, 1995.
7. Guo, D., G. Bowden, R. Pershad and **H.B. Kaplan**: The *Myxococcus xanthus rfbABC* operon encodes an ATP-binding cassette transporter homolog required for O-antigen biosynthesis and multicellular development. J. Bacteriol. 178:1631-1639, 1996.
8. Bowden, G. and **H.B. Kaplan**: The *Myxococcus xanthus* developmentally expressed *asgB*-dependent genes can be targets of the A signal-generating or A signal-responding pathways. J. Bacteriol. 178:6628-6631, 1996
9. Yang, C. and **H.B. Kaplan**: *Myxococcus xanthus sasS* encodes a sensor histidine kinase required for early developmental gene expression. J. Bacteriol. 179:7759-7767, 1997.
10. Bowden, M. G. and **H.B. Kaplan**: The *Myxococcus xanthus* LPS O-antigen is required for social motility and multicellular development. Mol. Microbiol. 30:275-284, 1998.
11. Xu, D., Yang, C. and **H.B. Kaplan**: *Myxococcus xanthus sasN* encodes a regulator that prevents developmental gene expression during growth. J. Bacteriol. 180:6215-6223, 1998.
12. Yang, Z., Geng, Y., Xu, D., **Kaplan, H.B.**, and W. Shi: A new set of chemotaxis homologs is essential for *Myxococcus xanthus* social motility. Mol. Microbiol. 30:1123-1130, 1998.
13. Guo, D. Wu, Y. and **H.B. Kaplan**: Identification and characterization of genes required for *Myxococcus xanthus* developmental gene expression. J. Bacteriol. 182:4564-4571, 2000.
14. Yang, Z., Ma, X., Tong, L., **Kaplan, H.B.**, Shimkets, L.J., and W. Shi: *Myxococcus xanthus dif* genes are required for biogenesis of cell surface fibrils essential for social gliding motility. J. Bacteriol. 182:5793-5798, 2000.
15. Yang, Z., Guo, D., Bowden, M.G., Sun, H., Tong, L., Li, Z., Brown, A.E., **Kaplan, H.B.**, and W. Shi: The *Myxococcus xanthus wbgB* gene encodes a glycosyltransferase homolog required for lipopolysaccharide O-antigen biosynthesis. Archiv. Microbiol. 174:399-405, 2000.
16. Lancero, H., Caberoy, N.B., Castaneda, S., Li, Y., Lu, A., Dutton, D., Duan, X., **Kaplan, H.B.**, Shi, W., and A.G. Garza: Characterization of a *Myxococcus xanthus* mutant that is defective for adventurous motility and social motility. Microbiology. 150:4085-4093, 2004.

Publications: (continued)

B. Refereed Original Articles in Journals

17. Lu, A., Cho, K., Black, W.P., Duan, X., Lux, R., Yang, Z., **Kaplan, H.B.**, Zusman, D.R. and W. Shi: Exopolysaccharide biosynthesis genes required for social motility in *Myxococcus xanthus*. Mol Microbiol. 55:206-220, 2005.
18. Goldman, B.S., Nierman, W.C., Kaiser, D., Slater, S.C., Durkin, A.S., Eisen, J., Ronning, C.M., Barbazuk, W.B., Blanchard, M., Field, C., Halling, C., Hinkle, G., Iartchuk, O., Kim, H.S., Mackenzie, C., Madupu, R., Miller, N., Shvartsbeyn, A., Sullivan, S.A., Vaudin, M., Wiegand, R., **H.B. Kaplan**: Evolution of sensory complexity recorded in a myxobacterial genome. Proc. Natl. Acad. Sci. USA. 103:15200-15205, 2006.
19. MacLean, L., M. Perry, M. B., Nossova, L., **Kaplan, H. B.** and E. Vinogradov: The structure of the carbohydrate backbone of the LPS from *Myxococcus xanthus* strain DK1622. Carbohydr. Res. 342:2474-2480, 2007.
20. Darkoh, C., **Kaplan, H.B.**, and H. DuPont: Harnessing the glucosyltransferase activities of *Clostridium difficile* for functional studies of toxins A and B. J. Clin. Microbiol. 49:2933-2941, 2011.
21. Darkoh, C., Dupont H. and **H.B. Kaplan**: A novel one-step method for detection and isolation of active toxin-producing *Clostridium difficile* strains directly from stool samples. J. Clin. Microbiol. 49:4219-4224, 2011.
22. Tribble, G.D., Rigney, T., Dao, D-H., Wong, C., Kerr, J., Taylor, B., Pacha, S. and **H.B. Kaplan**: Natural competence is a major mechanism for horizontal DNA transfer in the oral pathogen *Porphyromonas gingivalis*. Mbio. 3: e00231, 2012.
23. Tran, T., Jaijakul, S., Lewis, C., Diaz, L., Panesso, D., **Kaplan, H.B.**, Murray, B., Wanger, A. and C. Arias. 2012. Native valve endocarditis caused by *Corynebacterium striatum* with heterogenous high-level daptomycin resistance: Collateral damage from daptomycin therapy? Antimicrob. Agents Chemother. 56:3461-3464.
24. De Paula, R.M., Keasler, V., Bennett, B., Keller, C., Adams, R., Valkman, Z., and **H.B. Kaplan**. "Optimization of a microbial control program in an aging Gulf of Mexico asset to minimize the risk of corrosion," NACE Corrosion 2012, Salt Lake City, UT (Houston, TX: NACE, 2012), p.1195-1208.
25. Zhang, Y., Vaksman, Z., Litwin, D.B., Shi, P., **Kaplan, H.B.** and O. Igoshin: The mechanism and physiological role of *Myxococcus xanthus* predatory rippling behavior. PLoS Comput. Biol. 8:e1002715, 2012.
26. Darkoh, C., Brown, E.L., **Kaplan, H.B.**, and H.L. DuPont: Bile salt inhibition of host cell damage by *Clostridium difficile* toxins. PLoS One. 8:79631, 2013.
27. Ambrose, C.G., Clyburn, T.A., Mika, J., Gogola, G.R., **Kaplan, H.B.**, Wanger, A. and A.G. Mikos: Evaluation of antibiotic impregnated microspheres for the prevention of implant-associated orthopaedic infections. J. Bone Joint Surg. 96:128-134, 2014
28. Alicki, E.R., Andrade, F., Vaksman, Z., Jiang, H., Parthasarathy, D.K., Torregrossa, A.C., Tribble, G., **Kaplan, H.B.**, Petrosino, J.F., and N.S. Bryan: Metagenomic analysis of nitrate-reducing bacterial in the oral cavity: implications for nitric oxide homeostasis. PLoS One. 9:e88645, 2014
29. Balagam, R., Litwin, D.B., Czerwinski, F., Sun, M., **Kaplan, H.B.**, Shaevitz, and O.A. Igoshin: *Myxococcus xanthus* gliding motors are elastically coupled to the substrate as predicted by the focal adhesion model of gliding motility. PLoS Comput. Biol. 10:e1003619, 2014.

Publications: (continued)

B. Refereed Original Articles in Journals

30. Hidalgo-Romano, B., Gollihar, J., Brown, S.A., Whiteley, M. Valenzuela, E., **Kaplan, H.B.**, Wood, T.K., and R.J.C. McLean. Indole inhibition of AHL-mediated quorum signaling is widespread in Gram-negative bacilli. *Microbiology*. 160:2464-2473, 2014.
31. Hyde, E.R., Luk, B., McCue, T., Bauch, T., Kusic, L., **Kaplan, H.B.**, Petrosino, J.F., and N.S. Bryan. Characterization of the rat oral microbiome and the effects of diet on nitrate. *J. Free Rad. Biol. Med.* 77:249-257, 2014
32. Bhatti, M., Cruz, M., Frank, K.L., Laverde Gomez, J.A., Andrade, F., Garsin, D., Dunny, G.M., **Kaplan, H.B.**, and P.J. Christie. *Enterococcus faecalis* pCF10-encoded surface proteins PrgA, PrgB (aggregation substance), and PrgC contribute to plasmid transfer, biofilm formation, and virulence. *To be submitted to Mol. Microbiol.* 95:660-677, 2015.
33. Darkoh, C., DuPont, H., Norris, S. and **H.B. Kaplan**. Toxin synthesis by *Clostridium difficile* is stringently regulated through quorum signaling. *MBio* 6:e02569, 2015.
34. Scerbo, M.H., **Kaplan, H.B.**, Dua, A., Litwin, D.B., Ambrose, C.G., Moore, L.J., Murray, C.C., Wade, C.E. and J.B. Holcomb. Beyond blood culture and gram stain analysis: a review of molecular techniques for the early detection of bacteremia in surgical patients. *Surg. Infect.* 17:294-302, 2016
35. Patra, P., Kisson, K., Cornejo, I., **Kaplan, H.B.**, and O.A. Igoshin. Colony expansion of socially motile *Myxococcus xanthus* cells is driven by growth, motility, and exopolysaccharide production. *PLoS Comput. Biol.* 12(6):e1005010, 2016.
36. **Kaplan, H.B.**, Miranda, J.A., Gogola, G.R., Gomez, K., and C.G. Ambrose. Persistence of bacterial DNA in orthopaedic infections. *Diagn. Microbiol. Inf. Dis.* 91:136-140, 2018.
37. Gibson, S.B., Green, S.I., Gu Liu C., Clark, J.R., Terwilliger, A.L., Salazar, K.C., **Kaplan, H.B.**, Maresso, A.W., Trautner, B.W., and R.F. Ramig. Constructing and characterizing bacteriophage libraries for phage therapy of human infections. *Front Microbiol.* 2019; 10: 2537, 2019.
38. Shaw, J., Gary, J., Baker, A., **Kaplan, H.B.**, Kim, Y., Milhoan, M., Burgess, A., and C.G. Ambrose. Effects of sterilization techniques on bioactivity of polymethyl methacrylate antibiotic beads containing vancomycin and tobramycin. *J. Orthop. Trauma.* 34: e109-e113, 2020.
39. Liu, C., Green, S.I., Min, L., Clark, J.R., Salazar, K.C., Terwilliger, A.L., **Kaplan, H.B.**, Trautner, B.W., Ramig, R.F., and A.W. Maresso. Phage-antibiotic synergy is driven by a unique combination of antibacterial mechanism of action and stoichiometry. *mBio.* 11: e01462-20, 2020.
40. Green, S.I., Liu, C.G., Yu, X., Gibson, S., Salmen, W., Rajan, A, Carter, H.E., Clark, J.R., Song, X., Ramig, R.F., Trautner, B.W., **Kaplan, H.B.**, and A.W. Maresso. Targeting of mammalian glycans enhances phage predation in the gastrointestinal tract.. *mBio,* 12: e03474-20, 2021.
41. Kamat, I., Lamba, H., Hines-Munson, C., Hudson, S., Liao, K., Muldrew, K.L., Green, S., Terwilliger, A., **Kaplan, H.B.**, Ramig, R.F., Maresso, A., and B.W. Trautner. Identifying causative microorganisms in left ventricular assist device infections as a guide for developing bacteriophage therapy. *J. Surg. Res.* 271:73-81. 2022.
42. Sanchez, B.C., Heckmann, E.R., Green, S.I., Clark, J.R., **Kaplan, H.B.**, Ramig, R.F., Hines-Munson, C., Skelton, F., Trautner, B.W., and A.W. Maresso. Development of phage cocktails to treat *E. coli* catheter-associated urinary tract infection and associated biofilms. *Front. Microbiol.* 13:796132. 2022.

C. Invited Articles

1. **Kaplan, H.B.**: Cell-cell interactions that direct fruiting body development in *Myxococcus xanthus*. *Curr. Opin. Gen. Dev.* 1:363-369,1991.
2. **Kaplan, H.B.** and L. Plamann: A *Myxococcus xanthus* cell density-sensing system required for multicellular development. *FEMS Microbiol. Lett.* 139:89-95, 1996.
3. O'Toole, G., **Kaplan, H.B.**, and R. Kolter: Biofilm formation as microbial development. *Annu. Rev. Microbiol.* 54:49-79, 2000.
4. **Kaplan, H.B.**: Multicellular development and gliding motility in *Myxococcus xanthus*. *Curr. Opin. Microbiol.* 6:572-577, 2003.
5. Vaksman, Z. and **Kaplan, H.B.** *Myxococcus xanthus* growth, development, and isolation. *Curr. Protoc. Microbiol.* 3:39:7A.1.1-21, 2015.

Publications: (continued)

D. Chapters

1. Greenberg, E.P., **H.B. Kaplan**, M. Duboise, and B. Palhof: Persistence and distribution of marine vibrios in the hardshell clam, *In: R.R. Colwell (ed.), Vibrios in the environment.* John Wiley Inc., New York. 1984. p.480-493.
2. Plamann, L. and **H.B. Kaplan**: Cell-density sensing during early development in *Myxococcus xanthus*, *In: G. Dunny and S. Winans (ed.), Cell density sensing in bacterial.* American Society for Microbiology, Washington, D.C. 1999. p. 67 - 82.
3. Yang, Z., Duan, X., Esmaeiliyan, M., and **H. B. Kaplan**. Composition, structure and function of the *Myxococcus xanthus* cell envelope. *In: Whitworth, D.E. (ed.), Myxobacteria: Multicellularity and Differentiation.* ASM Press, Washington, D.C. 2008.

F. Other Professional Communications

Manuscripts in Preparation:

1. Gu Liu, C., Chang, J. Thompson, B.E., Min, L., **Kaplan, H.B.**, Weesner, K.E. Heckmann· E.R., Green· S.I. , Clark· J.R., Terwilliger, A.L., Nicholls· P., Ramig, R.F., and A.W. Maresso. Phage encode functional ROS scavengers and DNA protective mechanisms against oxidative damage.
2. Andrade, F., Graham, C., Vaksman, Z., Gomez, K., Vega-Arroyo, M., Kim, Y., Arvidson, R.S., Luttge, A., Tribble, G., Taylor, S.R. and **H.B. Kaplan**. Development and characterization a four-species anaerobic *in vitro* biofilm model for dental caries.

F. Other Professional Communications:

Invited Seminars:

1. Texas Branch ASM. Annual Meeting. Austin TX; October 26, 1991.
Title: Signal-dependent regulation of early developmental gene expression in *Myxococcus*.
2. Department of Biology. Texas A & M University, College Station, TX; December 10, 1991.
Title: Signal-dependent regulation of early developmental gene expression in *Myxococcus*.
3. Dept. of Molecular Genetics, M.D. Anderson Cancer Center, Houston, TX; April 27, 1992.
Title: A *Myxococcus* signal transduction pathway that directs early development.
4. Canadian Society for Microbiology. Ann. Meeting, St. John's New Brunswick; June 15, 1992.
Title: Cell-cell interactions that direct multicellular fruiting body development in *Myxococcus* .

Publications: (continued)

F. Other Professional Communications: (continued)

Invited Seminars: (continued)

5. Texas Branch ASM. Annual Meeting. San Antonio, TX; October 2, 1992.
Title: *Myxococcus*: Developmentally regulated transcription.
6. Dept. of Microbiology and Immunology. Baylor College of Medicine, Houston, TX; Nov. 10, 1992.
Title: A *Myxococcus* signal transduction pathway that directs early development.
7. Dept. of Natural Sciences. University of Houston - Downtown, Houston, TX; Feb. 18, 1993
Title: A signal transduction pathway that directs bacterial development.
8. Department of Biochemistry. Baylor College of Medicine, Houston, TX; Oct. 28, 1993.
Title: The A-signal transduction pathway that directs early *Myxococcus* multicellular development.
9. Texas A & M University Center for Biotechnology, Houston, TX; Jan. 6, 1994.
Title: Cell-cell signaling events that direct *Myxococcus* multicellular development.
10. Department of Cell Biology. Baylor College of Medicine, Houston, TX; May 4, 1994.
Title: Cell-cell signaling events that direct *Myxococcus* multicellular development.
11. Lost Pines Molecular Biology Conference. Smithville, TX; Oct. 27, 1995.
Title: Developmental expression of the earliest A signal-dependent *M. xanthus* gene is negatively regulated by a member of the histidine kinase family.
12. Department of Biology. University of Houston, Houston, TX; Nov. 8, 1995.
Title: Cell-cell signaling events that direct *Myxococcus* multicellular development.
13. Dept. of Biological Sciences. Sam Houston State University, Huntsville, TX; Nov. 9, 1995.
Title: Cell-cell signaling events that direct *Myxococcus* multicellular development.
14. Gordon Res. Conf. Microbial Stress Responses. Holderness, N. H. July 21-26, 1996.
Title: Cell-density sensing during early *Myxococcus* multicellular development.
15. Dept. of Molecular Microbiology. Washington Univ. Med. School. Oct. 22, 1996.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
16. Dept. of Microbiol. and Immunol. Univ. of Pennsylvania Med. School. Oct. 25, 1996.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
17. Bacterial Locomotion and Signal Transduction Meet. IV. Cuernavaca, Mexico, Jan. 1997.
Title: A histidine protein kinase and a response regulator control early gene *Myxococcus xanthus* developmental gene expression.
18. Department of Biology. Prairie View A & M University, Prairie View, TX, Feb. 10, 1997.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
19. Heart of Texas Microbiology Meeting. Houston, TX, Feb. 15, 1997.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
20. Department of Microbiology. University of Georgia, Athens, GA, March 13, 1997.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.

Publications: (continued)

F. Other Professional Communications: (continued)

Invited Seminars: (continued)

21. Department of Biology. Sweet Briar College, Sweet Briar, VA, April 4, 1997.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
22. Amer. Soc. Microbiol. 97th Ann. Meet., Miami, FL, May 6, 1997.
Title: Cell-density sensing during early *Myxococcus xanthus* multicellular development.
23. Gordon Res. Conf. on Mol. Mech. of Microbial Adhesion. Newport, RI, Aug. 4, 1997.
Title: Cell-density sensing during early *Myxococcus* multicellular development.
(unable to attend due to a death in my immediate family)
24. Department of Biology. Texas Women's University. Denton, TX, Nov. 14, 1997
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
25. Microbiology Department. University of Texas. Austin, TX, Nov. 19, 1997
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
26. Department of Basic Sciences. UTHSC- Dental Branch. Houston, TX, Nov. 21, 1997
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
27. Bay Area Joint Conf. on the Biology of the Myxobacteria. Berkeley, CA, April, 25, 1998
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
28. Advanced Bacterial Genetics Course. Cold Spring Harbor, NY, June 14, 1998
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
29. Department of Biology, Trinity University, Feb. 15, 1999
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
30. Department of Microbiology. Cornell University. Ithaca, NY, March 4, 1999
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
31. Amer. Soc. Microbiol. 99th Ann. Meet., Chicago, IL, May 30 - June 3, 1999
Title: Cell surface control of *Myxococcus* gliding motility and developmental gene expression.
32. Dept. Microbiol. and Immunol., Loyola University Medical School Chicago, IL, Sept. 23, 1999
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
33. Dept. Botany and Microbiol., Univ. OK, George Lynn Cross Lecturer, Norman, OK, Oct. 18, 1999, Title:
Sensing and integration of multiple signals during *Myxococcus* multicellular development.
34. Texas Branch American Society for Microbiology, Forth Worth, TX, Nov. 12, 1999
Title: Myxobacteria as an example of a multicellular community.
35. Advanced Bacterial Genetics Course, Cold Spring Harbor, NY, June 12, 2000
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
36. Gordon Research Conference on Microbial Stress Responses. Newport, RI, July 20, 2000
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
37. Department of Biological Sciences, Auburn University, Auburn, AL, Sept. 8, 2000.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.

Publications: (continued)

F. Other Professional Communications: (continued)

Invited Seminars: (continued)

38. Genetics Seminar Series, Texas A & M University, College Station, TX, Sept. 21, 2000.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
39. 6th Conference on Bacterial Locomotion and Signal Transduction. Cuernavaca, Mexico, Jan. 15, 2001.
Title: Integration of multiple signals by the *Myxococcus xanthus* SasS sensor histidine kinase.
40. Association for Women Faculty - UTHSC Conference on Women in Academia. Jan. 26, 2001.
Title: Writing for funding and publication.
41. Department of Bacteriology, University of Wisconsin, Madison, WI, April, 5, 2001.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
42. Department of Molecular Biology, University of Wyoming, Laramie, WY, April, 20, 2001.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
43. Department of Microbiology, UTHSC-SA, San Antonio, TX, May 3, 2001.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
44. 28th Intern. Conf. on the Biol. of the Myxobacteria. Warwick, UK, July. 18, 2001.
Title: Status of the *Myxococcus xanthus* DNA microarray project.
45. 28th Intern. Conf. on the Biol. of the Myxobacteria. Warwick, UK, July. 21, 2001.
Title: *Myxococcus xanthus* O antigen is critical to multicellular development and gliding motility.
46. Society for General Microbiology Annual Fall Meeting. East Anglia, UK, Sept. 13, 2001. Title: Cell Surface Requirements for *Myxococcus* Multicellular Development. TRIP CANCELED DUE TO SEPT. 11 TRAGEDY
47. Texas Branch of the American Society for Microbiology Annual Meeting, San Antonio, TX, November 16, 2001. Title: *Myxococcus* and *Pseudomonas* Surface Motility.
48. Annual Meeting of the American Society for Investigative Pathology at Experimental Biology 2002. New Orleans, LA, April 21, 2002. Title: BIOFILMS: Implications for chronic and persistent infections.
49. American Society for Microbiology Conference on Prokaryotic Development. Quebec City, Canada, July 10, 2002. Title: Parallel pathways that sense and integrate starvation, cell density, and envelope stress signals control early *Myxococcus xanthus* developmental gene expression.
50. Gordon Conference on Microbial Stress Responses, Newport, RI. July 16, 2002. Title: Parallel pathways that sense and integrate starvation, cell density, and envelope stress signals control early *Myxococcus xanthus* developmental gene expression.
51. Texas Branch of the American Society for Microbiology Annual Meeting Austin, TX, Nov. 9, 2002.
Title: Parallel pathways sense and integrate stress responses during early *Myxococcus* development.
52. Department of Microbiology and Molecular Genetics, Univ. California, Los Angeles. March 31, 2003.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
53. Department of Natural Sciences, Univ. of Houston-Downtown, Houston, TX, April 24, 2003.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.

Publications: (continued)

F. Other Professional Communications: (continued)

Invited Seminars: (continued)

54. American Society for Microbiology Annual Meeting, Washington, D.C., May 19, 2003.
Title: Parallel pathways respond to envelope stress during *Myxococcus* development.
55. Signal Transduction in Microorganisms, Ventura, CA. January 19, 2004.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
56. Conference on Biocomplexity of Single-celled Organisms, Bloomington, ID, May 13, 2004.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
57. Wind River Conference on Prokaryotic Biology, June 5, 2004.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
58. ASM Conference on Cell-cell Communication in Bacteria, July 23, 2004.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
59. American Chemical Society Texas Branch, Fort Worth, TX, Sept. 29, 2004.
Title: *Myxococcus xanthus* multicellular fruiting body development as a model for biofilm formation.
60. Dept. of Ecology and Evolutionary Biology, Rice University, Houston, TX, Nov. 29, 2004.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
61. 8th Conference on Bacterial Locomotion and Signal Transduction. Boca Raton, FL. Jan. 19, 2005.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
62. Max-Planck-Institute for Terrestrial Microbiology, Marburg, Germany, Feb. 23, 2005.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
63. ASM Texas Branch Spring Meeting. John Knox Ranch, Fischer, TX, March 18, 2005.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
64. Dept. Molecular Virology and Microbiology. Baylor College of Medicine, Houston, TX, March 23, 2005.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
65. 32th Annual Meeting on Biology of the Myxobacteria. Harrison Hot Springs, Canada, July 12, 2005.
Title: Characterization of an ECF σ factor operon that regulates early *Myxococcus* developmental gene expression.
66. International Union of Microbiology Societies. San Francisco, CA. July 28, 2005.
Title: Envelope stress sensing during *Myxococcus* multicellular development.
67. Society of General Microbiology. Keele, UK. September 13, 2005.
Title: Envelope stress sensing during *Myxococcus* multicellular development.
68. Department of Molecular Microbiology. John Innes Centre, Norwich, UK. September 16, 2005.
Title: Envelope stress sensing during *Myxococcus* multicellular development.
69. Biology Department. Texas Lutheran University, Seguin, TX. November 7, 2005.
Title: Envelope stress sensing during *Myxococcus* multicellular development.
70. ASM Texas Branch Fall Meeting. Denton, TX, Nov. 17, 2005.
Title: Sensing envelope stress during *Myxococcus* multicellular development.

Publications: (continued)

F. Other Professional Communications: (continued)

Invited Seminars: (continued)

71. Gordon Conference on Signal Transduction in Microorganisms, Ventura, CA. Jan. 19, 2006.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
72. Department of Microbiology. University of Chicago. April 23, 2006
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
73. Gordon Conference on Microbial Stress Responses, South Hadley, MA. July 9, 2006.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
74. Department of Biology. Sam Houston State University. Nov. 9, 2006.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
75. ASM Texas Branch Fall Meeting. Galveston, TX, Nov. 17, 2006.
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
76. ASM Texas Branch Spring Meeting. New Braunfels, TX, March 23, 2007.
Title: Genetic detective work to identify bacteria causing osteomyelitis.
77. Biology Department. Victoria College, April 20, 2007
Title: Bad to the Bone: Biofilms, Molecular Biology and Osteomyelitis.
78. Elizabeth McCoy Lecture. University of Wisconsin, May 10, 2007
Title: Sensing and integration of multiple signals during *Myxococcus* multicellular development.
79. 34th Annual Meeting on the Biology of the Myxobacteria. Granada, Spain, July 16, 2007.
Title: Structure and function of the *Myxococcus xanthus* cell envelope.
80. Chemistry Department. Purdue University, December 6, 2007.
Title: Envelope stress sensing during *Myxococcus* multicellular development.
81. Peptidoglycan Symposium. University of Wisconsin, Dec. 10, 2007.
Title: Peptidoglycan as a *Myxococcus* quorum and envelope stress signal.
82. Cell surfaces Gordon Research Conference. Colby-Saywer College, NH. June 24, 2008.
Title: Muropeptide-mediated signaling during early *Myxococcus xanthus* development.
83. Annual Meeting American Association for the Advancement of Science. Chicago, IL, Feb. 13, 2009.
Title: Cell-cell signaling during early *Myxococcus* multicellular development.
84. Southwestern University, Georgetown, TX, Feb. 25, 2009
Title: Biofilms, molecular biology and osteomyelitis.
85. American Society for Microbiology Annual Meeting, Philadelphia, PA, May 19, 2009.
Title: Muropeptide-mediated quorum and cell-integrity signaling in *Myxococcus xanthus* development.
86. Sam Houston State University, Huntsville, TX, Sept. 24, 2009.
Title: Bad to the bone: Molecular detection and *in vitro* biofilm models of osteomyelitis
87. ASM Texas Branch Fall Meeting. Tyler, TX, Nov. 6, 2009
Title: Cell-cell signaling during early *Myxococcus xanthus* multicellular development

Publications: (continued)

F. Other Professional Communications: (continued)

Invited Seminars: (continued)

88. Bar-Ilan University, Ramat Gan, Israel, June 14, 2011.

Title: Muropeptide-mediated quorum and cell-integrity signaling in *Myxococcus xanthus* development.

89. Texas A & M University, Biology Department, College Station, TX, April 18, 2012.

Title: Cell-cell signaling-dependent regulation of *Clostridium difficile* toxin production

90. Molecular Basis of Infectious Diseases, Houston TX, April 20, 2012.

Title: Cell-cell signaling-dependent regulation of *Clostridium difficile* toxin production

91. Department of Natural Sciences. University of Houston-Downtown. Houston, TX. November 9, 2012.

Title: Cell-cell signaling-dependent regulation of *Clostridium difficile* toxin production

92. Biology Department. Trinity University, San Antonio, TX January 28, 2013.

Title: Cell-cell signaling-dependent regulation of *Clostridium difficile* toxin production

93. Bacterial Interest Group Meeting. Houston, TX. April 2, 2013.

Title: Development of an *in vitro* anaerobic four-species biofilm model for dental caries.

94. ASM Texas Branch Spring Meeting. New Braunfels, TX, April. 6, 2013

Title: Nuts and bolts of graduate school admissions.

95. Bacterial Interest Group Meeting. Houston, TX. Nov. 11, 2014.

Title: Early molecular detection of bacteremia

96. Molecular Basis of Infectious Diseases Data Club. Houston, TX. July 17, 2015.

Title: Early molecular detection of sepsis-associated bacteremia.

97. The Rotary Club of University Area. Houston, TX. Jan. 13, 2016.

Title: Antibiotic resistance and development of new drugs to combat infections.

98. ASM Texas Branch Fall Meeting. Richardson, TX, November 11, 2016.

Title: Developing a successful microbiology summer undergraduate research program: our 11 year experience at McGovern Medical School, UT-Houston.

99. ASM Conference on Bacterial Cell-cell Communication, Athens, GA October 17, 2017.

Title: Density-dependent colony expansion of socially motile *Myxococcus xanthus* cells is driven by exopolysaccharides.

100. ASM Texas Branch Spring Meeting. New Braunfels, TX, March 23, 2018.

Title: *Myxococcus xanthus* surface social motility: moving 'with a little help from my friends'.

101. 45th International Conference on the Biology of the Myxobacteria. Houston, TX, June 5, 2019.

Title: Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells.

102. American Society for Microbiology Annual Microbe Meeting. San Francisco, CA, June 22, 2019.

Title: Exopolysaccharides drive density-dependent colony expansion of socially motile *Myxococcus xanthus* cells.

103. Collective Behavior Symposium. March 20, 2020. VIRTUAL MEETING DUE TO COVID-19.

Title: Social motility of the predatory bacterium *Myxococcus xanthus*.

Publications: (continued)

F. Other Professional Communications: (continued)

Conferences Hosted:

1. Heart of Texas Microbiology Meeting - Founder of the "HOT" meeting. 1992.
Hosted "HOT" meeting Houston, TX Feb. 1993 - 1998.
Co-hosted "HOT" meeting College Station , TX June 5, 1993.
2. 24th Annual Meeting on the Biology of the Myxobacteria. New Braunfels, TX June, 1997.
3. 1st Conference on *Myxococcus xanthus* Genome Analysis -- Annotation and Construction of a DNA microarray. UT-H Medical School. Houston, TX. May 4 - 7, 2001.
4. 32th Annual Meeting on Biology of the Myxobacteria. Harrison Hot Springs, Canada, July 10-13, 2005.
5. 2nd ASM Sponsored Conference on Prokaryotic Development. Vancouver, Canada, July 13-16, 2005.
6. 3rd ASM Sponsored Conference on Cell-cell Communication in Bacteria. Austin, TX. Oct. 7-10, 2007.
7. 3rd ASM Sponsored Conference on Prokaryotic Development. Boston, MA, June 30 –July 4, 2009.
8. 4th ASM Sponsored Conference on Cell-cell Communication in Bacteria. Miami, FL. Nov. 6-9, 2011.
9. 2014 Texas Branch Fall Meeting. Houston, TX. Nov. 6-8, 2014.

Publications: (continued)

F. Other Professional Communications: (continued)

Conferences Organized:

1. Program Committee, Lost Pines Molecular Biology Conference. 1996.
2. Member, General Meeting Planning Board, American Society for Microbiology, June, 1997 - 1998.
3. Advisory Board, American Society for Microbiology Conference on Prokaryotic Development. 2001-2002.
4. Co-chair, Workshop on the Annotation of the *Myxococcus xanthus* Genome. May 12-13, 2003. The Institute for Genomic Research (TIGR), Rockville, MD.
5. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 26, 2010.
6. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 24, 2011.
7. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 23, 2012.
8. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 22, 2013.
9. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 21, 2014.
10. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 20, 2015.
11. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 10, 2016.
12. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 31, 2017.
13. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 31, 2018.
14. Co-chair, Molecular Basis of Infectious Diseases Retreat, Houston, TX. March 31, 2019.

F. Other Professional Communications:

Seminar Series Organized:

1. Co-chair, Bacterial Interest Group (BIG) Seminar Series, Houston, TX Monthly, Dec. 2009 – 2018.

F. Other Professional Communications:

Sessions Chaired at Conferences:

1. There is more to Myxo than *Myxococcus xanthus*. 18th Intrn. Conf. on the Biol. of Myxobacteria, Unico State Park, GA Aug. 11 - 14, 1991.
2. New Methods in *Myxococcus* genetics. 19th Intrn. Conf. on the Biol. of Myxobacteria, Whispering Pines, R.I. Aug. 1 - 4, 1992.
3. Pushing the envelope. 20th Intrn. Conf. on the Biol. of Myxobacteria, Pacific Grove, CA Aug. 3-6, 1993.
4. Microbial Signaling Pathways Stimulated by Environmental Changes. Texas Branch Amer. Soc. Microbiol. Meet. Nov. , 1993.
5. Protein Phosphorylation, Signal Transduction and Motility. 22nd Intrn. Conf. on the Biol. of Myxobacteria, Lake Tahoe, CA June 18-21, 1995.
6. New Myxobacteria, msDNA, Particles and Control of Gliding. 23rd Intrn. Conf. on the Biol. of the Myxobacteria, Angel Fire, NM, June 23-26, 1996.
7. Cell Physiology and Biochemistry. 1996 Lost Pines Molecular Biology Conference. Smithville, TX October 18 - 20, 1996.
8. Cell - Cell Signaling during Microbial Dev. Amer. Soc. Microbiol. 97th Ann. Meet., Miami, FL, May 4 - 6, 1997.
9. Mechanisms of Signaling Hierarchies. Amer. Soc. Microbiol. 98th Ann. Meet. Atlanta, GA, May 17 - 21, 1998.
10. Cell Surfaces and Cell Signaling. Amer. Soc. Microbiol. 99th Ann. Meet., Chicago, IL, May 30 - June 3, 1999.
11. Tools and Biotechnology. 27th Intern. Conf. on the Biol. of the Myxobacteria. Winterpark, CO. August.
12. Surface Development. 6th Conference on Bacterial Locomotion and Signal Transduction. Cuernavaca, Mexico, Jan. 2001.
13. Development. 28th Intern. Conf. on the Biol. of the Myxobacteria. Warwick, UK. Aug. 2001
14. *csgA* and Other Regulation. 29th Intern. Conf. on the Biol. of the Myxobacteria. Mont-Sainte-Anne, Canada. July 9, 2002.
15. Multicellularity. American Society for Microbiology. Conference on Prokaryotic Development. Quebec City, Canada. July 13, 2002.
16. Microbial Stress Responses. American Society for Microbiology Annual Meeting, Washington, D.C., May 19, 2003.
17. Car proteins, chromosomes, bacteriophage. 30th Intern. Conf. on the Biol. of the Myxobacteria. Long Beach, CA, July. 2003.
18. Genome stories. 30th Intern. Conf. on the Biol. of the Myxobacteria. Long Beach, CA, July. 2003.

Publications: (continued)

F. Other Professional Communications: (continued)

Sessions Chaired at Conferences:

19. Multicellularity. Conference on Biocomplexity of Single-celled Organisms, Bloomington, ID, May 2004.
20. Genome Sequence Workshop. 31st Intern. Conf. on the Biol. of the Myxobacteria. Elsinore, Denmark, July, 2004.
21. Inter- and Intra-Cellular Signaling and Inter-Genera and Inter-Kingdom Communication. ASM Conference on Cell-cell Communication in Bacterial. July, 2004.
22. Cell communication and infection. ASM Texas Branch Fall Meeting. Denton, TX, Nov. 17, 2005.
23. Bioinformatics. ASM Texas Branch Fall Meeting. Galveston, TX, Nov. 17, 2006.
24. Bacterial Development. Microbial Stress Responses Gordon Conference. July 8, 2008.
25. A New Look at the Cell Wall: From Cell Signals to Structure. American Society for Microbiology Annual Meeting, Philadelphia, PA, May 19, 2009.
26. Lecture Session 1. 37st Intern. Conf. on the Biol. of the Myxobacteria. Saarbrucken, Germany, July, 2010.
27. Session 1. Gulf Coast Consortium for Bioinformatics Workshop, Houston, TX, December, 2010.
28. Signaling 2. 39th Intern. Conf. on the Biol. of the Myxobacteria. Chicago, IL, July, 2012.
29. Genetic Regulation of Multicellular Organization. Multicellular Self-organization meeting. Houston, TX. November, 2012.
30. Microbial Collective Behaviors. American Society for Microbiology Microbe Meeting. Washington, D.C. June 13, 2022.

Publications: (continued)

G. Other types of media

1. KHOU Channel 11 TV: Nov. 25 and 26, 2013. Two part story by Cher Min Chow. 'UTHealth researcher shows where germs are hiding in your home.' Interactive quiz included on website. <http://www.khou.com/story/local/2014/11/24/12260092/>
2. FOX Channel 26 Live interview on Morning News: Viral infections and circadian rhythms. Sept. 5, 2016.

Workshops attended:

1. Selected to represent UTHSC-H at the UT System's New Direct Leader Forum in Austin, TX. August 1 – 3, 2017.

Patent applications:

Patent Pending: Nucleic acid amplification techniques and methods for detecting bacterial infection. U.S. Patent application No. 15/224,116, filed July 29, 2016. Litwin, D.B., **Kaplan, H.B.**, Holcomb, J.B., Ambrose, C.G., Wade, C.E., Dua, A., and Andrade, F

Patent applications: (continued)

Patent Pending: Methods and composition for the detection of functional *Clostridium difficile* toxins: U.S. Patent application No. 13/947,804, filed July 22, 2013. Darkoh, C., **Kaplan, H.B.**, and H. DuPont.

Provisional Patent: Methods and composition to enhance *Clostridium difficile* toxin detection: U.S. Patent application No. 61/673,961, filed July 20, 2012. Darkoh, C., **Kaplan, H.B.**, and H. DuPont.

Provisional patent: Multiplex reaction for rapid detection and differentiation of Gram-positive and Gram-negative bacteria in human blood: U.S. Patent application No. 62/029,690, filed July 28, 2014. Litwin, D.B., **Kaplan, H.B.**, Holcomb, J.B., Ambrose, C.G., Wade, C.E., Dua, A., and Andrade, F.

Provisional patent: Nucleic acid amplification techniques and methods for detecting bacterial infection. U.S. Patent application No. 62/198,207, filed July 29, 2015. Litwin, D.B., **Kaplan, H.B.**, Holcomb, J.B., Ambrose, C.G., Wade, C.E., Dua, A., and Andrade, F.