

Executive Committee Nominee for Faculty Vice President

GSBS Educational Activities

Faculty Name: Dr. Shane R. Cunha

This report covers a variety of formal activities tracked by the GSBS but is not intended to represent all graduate education activities of the faculty member. For example, informal mentoring efforts and activities that take place within specific GSBS graduate programs, non-GSBS programs, or academic departments are usually not included. When providing the report to others, faculty are encouraged to describe such activities in an attached Curriculum Vitae and/or Educational Statement.

Institution/Department: UT-MS/Integrative Biology & Pharmacology

Member Since: 10/1/2010 **Last Review:** 10/1/2020 **Next Review:** 10/1/2025 **Member Type:** Regular

Courses Taught

Term	Lecture Hours	Title	Course Number	Role
2023 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction	GS13 1024	Instructor
2022 Fall	1	Current Methods in Biochemistry and Cell Biology	GS03 1023	Instructor
2022 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction	GS13 1024	Instructor
2021 Fall	1	Current Methods in Biochemistry and Cell Biology	GS03 1023	Instructor
2021 Fall	13.75	Ethical Dimensions Biomedical Sciences	GS21 1051	Discussion Leader
2021 Fall	0	Ethical Dimensions Biomedical Sciences	GS21 1051	Co-Director
2021 Fall	1.15	Ethical Dimensions Biomedical Sciences	GS21 1051	Instructor
2021 Fall	3.5	Foundations of Biomedical Research	GS21 1017	Instructor
2021 Fall	1	Foundations of Biomedical Research	GS21 1017	Instructor
2021 Spring	1	BCB Seminar	GS12 1011	Instructor
2021 Spring	1	Current Methods in Biochemistry and Cell Biology	GS03 1023	Instructor
2020 Fall	1	BCB Seminar	GS12 1011	Instructor
2020 Fall	1.5	Design and Delivery of Advanced Research Seminar	GS04 1751	Instructor
2020 Fall	15	Ethical Dimensions Biomedical Sciences	GS21 1051	Co-Director
2020 Fall	1	Foundations of Biomedical Research	GS21 1017	Topic Leader
2020 Fall	8	Foundations of Biomedical Research	GS21 1017	Instructor
2020 Spring	1	BCB Seminar	GS12 1011	Instructor
2020 Spring	1	Current Methods in Biochemistry and Cell Biology	GS03 1023	Instructor
2020 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction	GS13 1024	Instructor

GSBS Educational Activities

Faculty Name:	Dr.	Shane	R.	Cunha
2019 Fall	15	Ethical Dimensions Biomedical Sciences		GS21 1051 Discussion Leader
2019 Fall	3	Foundations of Biomedical Research		GS21 1017 Instructor
2019 Fall	0	Foundations of Biomedical Research		GS21 1017 Topic Leader
2019 Spring	1	Current Methods in Biochemistry and Cell Biology		GS03 1023 Instructor
2019 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction		GS13 1024 Instructor
2018 Fall	13	Ethical Dimensions Biomedical Sciences		GS21 1051 Co-Director
2018 Fall	3.5	Foundations of Biomedical Research		GS21 1017 Instructor
2018 Spring	1	Current Methods in Biochemistry and Cell Biology		GS03 1023 Instructor
2017 Fall	15	Ethical Dimensions Biomedical Sciences		GS21 1051 Discussion Leader
2017 Fall	3	Foundations of Biomedical Research		GS21 1017 Instructor
2017 Fall	1	Seminars in Integrative Biology and Pharmacology		GS12 1051 Instructor
2017 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction		GS13 1024 Instructor
2016 Fall	0	Ethical Dimensions Biomedical Sciences		GS21 1051 Co-Director
2016 Fall	4	Foundations of Biomedical Research		GS21 1017 Instructor
2016 Spring	1	Current Methods in Structural and Molecular Biology		GS03 1023 Instructor
2015 Fall	7	BCB Seminar		GS12 1011 Discussion Leader
2015 Fall	0	Ethical Dimensions Biomedical Sciences		GS21 1051 Discussion Leader
2015 Fall	2	Foundations of Biomedical Research		GS21 1017 Instructor
2015 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction		GS13 1024 Instructor
2015 Spring	2	Seminar in Cell Signaling and Regulation AKA Seminar In Regulatory Biology		GS04 1751 Instructor
2014 Fall	1	Ethical Dimensions Biomedical Sciences		GS21 1051 Discussion Leader
2014 Fall	2	Foundations of Biomedical Research		GS21 1017 Instructor
2014 Spring	1.5	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction		GS13 1024 Instructor
2014 Spring	1	Seminars in Integrative Biology and Pharmacology		GS12 1051 Discussion Leader
2014 Spring	3	Topics In Molecular Medicine		GS21 1611 Instructor
2013 Fall	1	Current Methods in Molecular Research I		GS03 1102 Instructor

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2013 Fall	14	Ethical Dimensions Biomedical Sciences	GS21 1051	Discussion Leader
2013 Fall	1	Medical Pharmacology I	GS13 1013	Instructor
2013 Fall	0	Seminars in Integrative Biology and Pharmacology	GS12 1051	Co-Director
2013 Spring	2	Molecular Basis of Cell Signaling a/k/a Mech Hormone Action & Signal Transduction	GS13 1024	Instructor
2013 Spring	4	Topics in Biochemistry and Molecular Biology	GS03 1024	Instructor
2012 Fall	1	Current Methods in Molecular Research I	GS03 1102	Instructor
2012 Fall	15	Ethical Dimensions Biomedical Sciences	GS21 1051	Discussion Leader
2012 Spring	4	Topics in Biochemistry and Molecular Biology	GS03 1024	Instructor
2011 Fall	15	Ethical Dimensions Biomedical Sciences	GS21 1051	Discussion Leader

Chair Of Advisory Committee

Student Name	Start Date	End Date	Degree Plan	Grad Date	Actual Grad Date and Degree Received	
Subramaniam, Janani	08/31/2020	12/16/2022	Ph.D.	12/16/2022	12/16/2022	Ph.D.
	09/13/2017	08/14/2019	M.S.	08/14/2019	08/14/2019	M.S.
Hunt, Albert	03/08/2017	05/05/2017	Ph.D.	05/05/2017	05/05/2017	Ph.D.
Wu, Henry	09/23/2013	08/19/2015	M.D./Ph.D.	08/19/2015	08/19/2015	M.D./Ph.D.

Secondary Advisor Of Advisory Committee

Student Name	Start Date	End Date	Degree	Grad Date
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Member Of Advisory Committee

Student Name	Role	Start Date	End Date	Degree	Grad Date
Girard, Rene	Member	12/14/2022		Ph.D.	
Hutchins, Chase	Member (Outside Area)	11/09/2022		Ph.D.	
Cristy, Shane	Member (Outside Area)	08/10/2022		Ph.D.	
Gallegos, Chrystine	Member (Outside Area)	09/08/2021		Ph.D.	
Longmire, Michael	Member (Outside Area)	08/12/2020		M.D./Ph.D.	
Milton, Russell	Member (Outside Area)	10/14/2015	05/06/2022	Ph.D.	05/06/2022
Wilson, Cory	Member	02/14/2018	12/18/2020	M.D./Ph.D.	12/18/2020
Mahmood, Ayesha	Member (Outside Area)	06/12/2019	08/11/2020	M.S.	08/11/2020
Williams, Robert	Member (Outside Area)	03/20/2019	05/01/2020	Ph.D.	05/01/2020
Walker, Christopher	Member (Outside Area)	09/09/2015	12/13/2019	Ph.D.	12/13/2019
Edwards, George	Member (Outside Area)	08/13/2014	12/13/2019	Ph.D.	12/13/2019
Litwin, Douglas	Member	10/14/2015	08/14/2019	Ph.D.	08/14/2019

GSBS Educational Activities

Faculty Name:	Dr.	Shane	R.	Cunha		
Berkey, Samantha		Member		07/12/2017	12/14/2018	Ph.D. 12/14/2018
Odem, Max		Member (Outside Area)		09/10/2014	12/14/2018	Ph.D. 12/14/2018
Vesely, Elisa		Member (Outside Area)		09/10/2014	12/14/2018	Ph.D. 12/14/2018
Savage, David		Member		10/19/2016	08/15/2018	M.D./Ph.D. 08/15/2018
Howe, Matthew		Member (Outside Area)		12/09/2015	08/15/2018	M.D./Ph.D. 08/15/2018
McCarthy, Michael		Member		09/10/2014	05/04/2018	Ph.D. 05/04/2018
Olsen, Courtney		Member		05/14/2014	05/04/2018	M.D./Ph.D. 05/04/2018
Patrizz, Anthony		Member		04/13/2016	12/15/2017	Ph.D. 12/15/2017
Nurik, Caitlin		Member		08/10/2016	08/15/2017	Ph.D. 08/15/2017
Philip, Kemly		Member (Outside Area)		02/12/2014	05/05/2017	M.D./Ph.D. 05/05/2017
Rodriguez, Meredith		Member		09/12/2012	06/11/2014	Ph.D. 05/11/2015
Sirrieh, Rita		Member (Outside Area)		12/14/2011	07/10/2013	Ph.D. 05/11/2015

Examining Committee Participation

Student Name	Role	Exam Date
Hutchins, Chase	Member (Outside Area)	07/12/2023
Cristy, Shane	Member (Outside Area)	03/08/2023
Gallegos, Chrystine	Member (Outside Area)	08/10/2022
Longmire, Michael	Member	06/08/2022
Mondal, Jayanta	Member (Outside Area)	06/08/2022
Andersohn, Alexander	Member	05/11/2022
Barrows, Caitlynn	Chair	02/10/2021
Bowen, Mikayla	Chair	02/10/2021
Kaw, Anita	Chair	12/09/2020
Morrill, Jessie	Chair	07/08/2020
Symons, Jessica	Chair	02/27/2020
Wareing, Nancy	Chair	01/08/2020
Diaz, Savannah	Chair	10/02/2019
Paudyal, Nabina	Chair	09/11/2019
Chinnam, Naga babu	Member (Outside Area)	11/08/2017
Jewell, Brittany	Member	10/04/2017
Chen, Jie	Member	07/12/2017
Ko, Junsuk	Member	07/12/2017
Williams, Robert	Member (Outside Area)	07/12/2017
Diaz-Rohrer, Blanca	Member	09/14/2016
Xiong, Jian	Member	09/14/2016
Litwin, Douglas	Member	04/13/2016
Olsen, Courtney	Member	10/05/2015
Adebisi-Uchendu, Morayo	Member	09/09/2015
Baldwin, Tanya	Member	09/09/2015
McCarthy, Michael	Member	09/09/2015
Nurik, Caitlin	Member	09/09/2015
Vesely, Elisa	Member (Outside Area)	09/09/2015

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Peters, Andrew	Member	11/12/2014
Fitzgibbon, Randi	Member	10/15/2014
Fortune, Ryan	Member	10/15/2014
Maxwell, Kelsey	Member	10/15/2014
Philip, Kemly	Member (Outside Area)	10/15/2014
Collum, Scott	Member	09/10/2014
Dolino, Drew	Member	09/10/2014
Liu, Hong	Member	09/10/2014
Sun, Kaiqi	Member	11/13/2013
Leung, Marco	Member	05/08/2013
Wu, Henry	Member	02/13/2013
Acero, Luis	Member	10/10/2012
Peart, Natoya	Member	09/05/2012
Sirrieh, Rita	Member	08/15/2012
O'Brien, William	Member	12/14/2011
Rodriguez, Meredith	Member	11/09/2011
Brand, Cameron	Member	09/21/2011

Tutorials Supervised

Student Name	Term
Subramaniam, Janani	2020 Spring
Wilson, Cory	2014 Summer
Baldwin, Tanya	2014 Spring
McCarthy, Michael	2013 Fall

Mini-Rotations(MS)/Trial Periods(PhD)

Student Name	Term
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Program Affiliation

Program	Role	Start Date	End Date
Biochemistry and Cell Biology	Member	03/01/2017	
Cell and Regulatory Biology [Phase Out]	Member	10/01/2010	02/28/2017
Biochemistry and Molecular Biology [Phase Out]	Member	10/01/2010	02/28/2017

Program	Subcommittee Name	Role	Start Date	End Date
Biochemistry and Cell Biology	Examination Committee	Member	11/1/2021	10/31/2022
Biochemistry and Cell Biology	Steering	Member	9/1/2020	8/31/2022
Biochemistry and Cell Biology	Admissions & Recruitment	Co-Chair	9/1/2018	8/31/2021
Biochemistry and Cell Biology	Examination Committee	Chair	9/1/2019	8/31/2021
Biochemistry and Cell Biology	Curriculum	Member	9/1/2020	8/31/2021
Biochemistry and Cell Biology	Steering	Member	4/1/2017	8/31/2019

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Biochemistry and Cell Biology	Admissions & Recruitment	Member	1/1/2018	12/31/2018
Cell and Regulatory Biology	Exam	Member	9/1/2013	8/31/2017
Biochemistry and Molecular Biology	Examination	Member	9/1/2015	8/31/2016
Cell and Regulatory Biology	Admissions	Chair	9/1/2015	8/31/2016
Cell and Regulatory Biology	Recruitment	Member	9/1/2014	8/31/2015
Cell and Regulatory Biology	Admissions	Member	9/1/2014	8/31/2015
Biochemistry and Molecular Biology	Program Exam	Member	9/1/2011	8/31/2013
Cell and Regulatory Biology	Recruitment	Member	1/1/2011	12/31/2012

Standing Committee Participation

CommitteeType	Start Date	End Date	Committee Role
Executive	10/1/2021	9/30/2022	Member
Curriculum	10/1/2021	9/30/2022	Chair
Curriculum	10/1/2020	9/30/2021	Member
Executive	10/1/2017	9/30/2019	Member
Admissions	10/1/2017	9/30/2018	Chair
Admissions	10/1/2015	9/30/2017	Member
Recruiting Council	10/1/2012	9/30/2014	Member
Student Affairs	10/1/2011	9/30/2013	Member

GSBS Representation on Institutional Committees

CommitteeType	Start Date	End Date	Committee Role
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Faculty Advisors to Student Associations

Organization name	Start Date	End Date
LGBTQ+ Student Alliance (LGBTQ+SA)	8/1/2014	

Professional Development

Activity	Role	Start Date
Mentoring Works V2	Participant	01/14/2021

Innovative Educational Activities

Activity	Description	Start Date	End Date
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GSBS Educational Activities

Faculty Name: Dr. Shane R. Cunha

Program Reviewer

Date	Description
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Scholarship Fellowship Reviewer

Date	Description
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Major Educational Awards

Award	Date
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Awards Received

Date	Description
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01/01/2023	John P. McGovern Outstanding Teaching Award
01/01/2023	Dean's Teaching Excellence Award
01/01/2022	John P. McGovern Outstanding Teaching Award
01/01/2022	Dean's Teaching Excellence Award
01/01/2021	Dean's Teaching Excellence Award
01/01/2020	Dean's Teaching Excellence Award
01/01/2019	Dean's Teaching Excellence Award
01/01/2018	Dean's Teaching Excellence Award
01/01/2017	Dean's Teaching Excellence Award
01/01/2016	Dean's Teaching Excellence Award
01/01/2015	Dean's Teaching Excellence Award
01/01/2014	Cell and Regulatory Biology Faculty Recognition Award
01/01/2014	CRB Faculty Recognition Award
01/01/2003	BCB Distinguished Faculty Award

Outreach/Other Activities

Date	Description
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9/9/2021	Attended GSBS Faculty Meeting
6/1/2020	Candidacy Exam Preparation Meeting - Panelist
2/24/2020	2020 BCB Distinguished Faculty Award
2/13/2020	Attended GSBS Faculty Meeting
9/12/2019	Attended GSBS Faculty Meeting
5/31/2019	GSBS M.S Program Review - Faculty Focus Group
2/14/2019	Attended GSBS Faculty Meeting
2/26/2018	Attended Visitation Dinner (BCB rep)

GSBS Educational Activities

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8/22/2017	GSBS Orientation - Choosing a Mentor Panel Discussion
5/20/2017	Attended GSBS Commencement
9/8/2016	Attended GSBS Faculty Meeting
8/24/2016	Pathway Advisor 2016
2/19/2016	Attended GSBS Faculty Meeting
5/13/2015	Attended GSBS Faculty Meeting Attended GSBS Faculty Meeting
3/25/2015	Candidacy Exam Preparation Meeting - Panelist
3/5/2015	Attended GSBS FAC for visitation
2/19/2015	Attended GSBS FAC for visitation
2/5/2015	Attended GSBS FAC for visitation
3/6/2014	Attended GSBS FAC for visitation
3/3/2014	Attended GSBS Faculty Town Hall
2/20/2014	Attended GSBS FAC for visitation
2/6/2014	Attended GSBS FAC for visitation
2/21/2013	Attended GSBS FAC for visitation
1/31/2013	Attended GSBS FAC for visitation
1/18/2013	Attended GSBS FAC for visitation
1/17/2013	Attended GSBS FAC for visitation
9/13/2012	Attended GSBS Faculty Meeting
3/8/2012	Attended GSBS FAC for visitation
2/16/2012	Attended GSBS FAC for visitation
2/2/2012	Attended GSBS FAC for visitation

Applicant Interviews

Applicant Name	Interview Date
Enterria Rosales, Julia	02/03/2023
Araya, Mussie	01/20/2023
Leo, Javier	03/18/2022
Erhardt, Shannon	02/04/2022
Brahmendra Barathi, Bhargavi	02/26/2021
Selvaraj, Sonya	01/17/2020
Guo, Shuai	03/15/2019
Shihabeddin, Eyad	03/01/2019
Dhawan, Akash	02/22/2019
Yang, Jiah	02/08/2019
Bosquez Huerta, Navish	03/09/2018
Strong, Lisa	03/09/2018
Hsieh, Cheng-En	02/26/2018
Olivas, Taryn	02/23/2018

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Gonzalez, Trevor	03/09/2017
Ontiveros, Carlos	03/09/2017
Michmerhuizen, Anna	02/23/2017
Paudyal, Nabina	02/09/2017
Juricic, Nika	03/10/2016
Anandhan, Swetha	02/25/2016
Taylor, David	02/25/2016
Awgulewitsch, Cassandra	03/05/2015
Haque, Farhana	03/05/2015
Lawrence, Liesl	03/05/2015
Huynh, Andrew	02/19/2015
Ko, Junsuk	02/19/2015
Love, Janice	02/05/2015
Pham, Thanh	02/05/2015
Shaw, Justin	02/05/2015
Tisza, Michael	03/06/2014
Wilson, Cory	03/06/2014
Alsina, Katherina	02/20/2014
Lei, Jonathan	02/20/2014
Diaz-Rohrer, Blanca	02/06/2014
Xiong, Jian	02/06/2014
Baldwin, Tanya	02/21/2013
Perakis, Alexander	02/21/2013
Chambers, Andrea	01/31/2013
Nurik, Caitlin	01/17/2013
Ayoub, Kareem	07/05/2012
Trimmer, Kenneth	03/08/2012
Young, Melvin	02/16/2012
Espino, Elena	02/02/2012
Juo, Hsin-Hsuan	02/02/2012
Miller, Rachelle	02/02/2012

CURRICULUM VITAE

Aug 18th, 2023

Shane Cunha, Ph.D.

PRESENT TITLE: Associate Professor

ADDRESS: McGovern Medical School at UTHealth
Department of Integrative Biology and Pharmacology
Division of McGovern Medical School
6431 Fannin St., MSE R356, Houston, TX 77030

CITIZENSHIP: USA

UNDERGRADUATE EDUCATION:

B.S. Cognitive Science, 1994
University of California at San Diego
La Jolla, CA

GRADUATE EDUCATION:

Ph.D. in Neuroscience, 2002
Northwestern University
Evanston, IL

POSTGRADUATE TRAINING:

Postdoctoral Fellowship, 2004-2005
Department of Biological Sciences
Vanderbilt University
Nashville, TN

Postdoctoral Fellowship, 2005-2006
Department of Pathology
Vanderbilt University Medical School
Nashville, TN

ACADEMIC APPOINTMENTS:

Adjunct Instructor, Anatomy & Physiology, 2005-2006
Division of Math and Natural Sciences
Nashville State Community College
Nashville, TN

Assistant Research Scientist, 2006-2009

Department of Internal Medicine
University of Iowa
Iowa City, IA

Associate Research Scientist, 2009-2010
Department of Internal Medicine
University of Iowa
Iowa City, IA

Assistant Professor, 2010-2019
Department of Integrative Biology and Pharmacology
The University of Texas McGovern Medical School at Houston

Associate Professor, 2019-present
Department of Integrative Biology and Pharmacology
The University of Texas McGovern Medical School at Houston

Associate Faculty, 2019-present
McGovern Center for Humanities and Ethics
The University of Texas McGovern Medical School at Houston

PROFESSIONAL ORGANIZATIONS:

National

American Heart Association, 2010-present

HONORS AND AWARDS:

Cell and Regulatory Biology Faculty Recognition Award (2014)
Dean's Teaching Excellence Award, UT Health (2015-2023)
BCB Distinguished Faculty Award (2020)
John P. and Kathrine G. McGovern Master Teacher Award (2022-2023)

EDITORIAL POSITION:

Reviewer, 1-2 manuscripts per year
PLoS One
AJP Endocrinology and Metabolism
Scientific Reports
Genomics

SERVICE ON INTERNATIONAL GRANT REVIEW PANELS:

Medical Research Council (ad hoc), 2011

SERVICE ON NATIONAL GRANT REVIEW PANELS:

American Heart Association, Career Development Award, Basic Cell Science (1/10/19)
American Heart Association, Postdoctoral Fellowship Award, Basic Cell Science (10/1/19)

SERVICE ON CAMPUS-WIDE UTHEALTH COMMITTEES:

GSBS Representative on QEP Leadership Team for SACS COC Accreditation and Implementation, QEP: *Health Policy for Health Professionals*, 2020 - present
GSBS Representative on UTHHealth Houston Interfaculty Council, 2022 – present

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:

Faculty Senate, 2011-2014
Medical School Admissions Committee, 2015-2016
Campus Wide Ethics and Humanities Program, 2017-present
Liaison Committee on Med. Ed. (LCME) Standards 6-9 Subcommittee, 2018-2020
Pre-Clerkship Education Subcommittee, 2019-present
Curriculum Committee, 2019-present
Team-Based Learning Review Committee, 2019-2021
Pre-Clerkship Evaluation Subcommittee, 2020-present
Participant on MMS Faculty Panel Q&A Sessions (11/11/20, 12/7/20, 1/26/21)
Participant on MMS Faculty Panel for Welcome Weekend (virtual: 4/3/21; in-person: 4/2/22, 4/22/23)
Animal Welfare Committee, 2021-present
MMS Education Portfolio Task Force, 2022- present
Interviewer:
M.D./ Ph.D. Student Applicant Interviewer, 2012-present
Medical School Applicant Interviewer, 2012-present
TIME Student Applicant Interviewer, Feb 2013
JAMP Student Applicant Interviewer, June 2014
University of Houston Honors Biomedical Sciences Interviewer, Mar 2015, 1/29/16
Departmental:
Co-coordinator of IBP seminar series, 2012-2015

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Graduate School of Biomedical Sciences (2010 - present):
Student Applicant Interviewer, 2011 - present
Student Recruitment Committee, 10/1/12 - 9/30/14
Student Affairs Committee, 10/1/11 - 9/30/14
Coordinator of GSBS SAC-sponsored “BioCareers” seminar series (*9 seminars dedicated to career development for graduate students and postdoctoral fellows*), Winter 2013 – Winter 2015
Admissions Committee, 10/1/15 – 10/1/18 (committee chair in 2017)
Panel Discussion (“Preparation for Candidacy Exam”), 3/25/15
Individual Development Plans Faculty Mentor, 2015 - present

Pathway Advisor, 8/24/16
Panel Discussion (“Choosing a Mentor”), 8/22/17
Executive Committee, 10/1/17 – 9/1/19, 9/1/21 - present
Panel Discussion (“Preparation for Candidacy Exam”), 6/1/20
Curriculum Committee 10/1/20 – 9/30/23 (committee chair in 2021)
Participant in GSBS “Mentoring Works” workshop, 1/14/21 (5 hrs)

Cell and Regulatory Biology (2010 - 2017):

Admissions Committee, 2012 - 2017

Recruitment Committee, 2012 - 2017

Coordinated the design and production of the graduate program brochure (2014)

Candidacy Exam Committee, 2013 - 2017

Biochemistry and Molecular Biology (2010 - 2017):

Candidacy Exam Committee, 2012 - 2017

Biochemistry and Cell Biology (2017 - present):

Steering Committee, 2017 – 2019, 2020 – 2022, 2022 - present

Admissions and Recruitment Committee, 2017 – 2019, 2021 - present

Candidacy Exam Committee, 2019 – present (chair 2019 & 2020)

SERVICE ON GRADUATE SCHOOL DOCTORAL STUDENT COMMITTEES:

Advisory committees (29 students):

Rita Sirrieh, 12/14/11 - 7/10/13

Meredith Rees, 9/12/12 - 6/11/14

Henry Wu, 9/23/13 - 8/19/15 (chair)

Kemly Philip, 2/12/14 - 5/5/17

Courtney Olsen, 5/14/14 - 2/21/18

George Edwards III, 8/13/14 – 12/2/19

Elisa Vesely, 9/10/14 – 9/20/18

Michael McCarthy, 9/10/14 - 2/26/18

Max Odem, 9/10/14 – 10/30/18

Christopher Walker, 9/9/15 – 8/20/19

Russell Milton, 10/14/15 – 4/14/22

Doug Litwin, 10/14/15 – 5/8/19

Matt Howe, 12/9/15 - 5/31/18

Tony Patrizz, 4/13/16 - 12/15/17

Caitlin Edmunds Nurik, 8/10/16 - 8/15/17

David Savage, 10/19/16 - 6/18/18

Albert Hunt, 3/8/17 - 5/5/17 (chair)

Samantha Berkey, 7/12/17 – 11/8/18

Janani Subramaniam, 9/13/17 – 8/6/19 (MS, chair)

Cory Wilson, 2/14/18 – 12/3/20

Robert Williams, 1/1/19 – 2/10/20

John d’Aigle, 2/1/19 – incomplete

Ayesha Mahmood, 6/1/19 – 7/30/20
Janani Subramaniam, 9/1/20 – 12/6/22 (PhD, chair)
Michael Longmire, 9/1/20 - present
Chrystine Gallegos, 9/1/21 – present
Shane Cristy, 9/1/22 – present
Rene Girard, 9/1/22 – present
Chase Hutchins, 9/1/22 – present
Paula Bender, 9/1/23 – present

Exam committees (45 students):

Cameron Brand, 9/21/11
Meredith Rees, 11/9/11
William O'Brien, 12/14/11
Rita Sirrieh, 8/15/12
Natoya Peart, 9/5/12
Luis Acero, 10/10/12
Henry Wu, 2/13/13
Marco Leung, 5/8/13
Kaiqi Sun, 11/13/13
Scott Collum, 9/10/14
Drew Dolino, 9/10/14
Hong Liu, 9/10/14
Randi Stewart, 10/15/14
Ryan Fortune, 10/15/14
Kelsey Maxwell, 10/15/14
Kemly Philip, 10/15/14
Andrew Peters, 11/12/14
Tanya Baldwin, 9/9/15
Elisa Vesely, 9/9/15
Caitlin Edmunds Nurik, 9/9/15
Michael McCarthy, 9/9/15
Morayo Adebisi, 9/9/15
Courtney Olsen, 10/5/15
Doug Litwin, 4/13/16
Jian Xiong, 9/14/16
Blanca Diaz-Rohrer, 9/14/16
Junsok Ko, 7/12/17
Jessica Jie Chen, 7/12/17
Robert Williams, 7/12/17
Brittany Jewell, 10/4/17
Naga Babu Chinnam, 11/8/17
Savannah West, 11/21/19 (chair)
Nabina Paudyal, 12/10/19 (chair)
Nancy Wareing, 2/6/20 (chair)
Jessica Symons, 5/19/20 (chair)
Jessie Morrill, 8/21/20 (chair)

Anita Kaw, 2/26/21 (chair)
Mikayla Waters, 3/24/21 (chair)
Caitlynn Barrows, 4/22/21 (chair)
Alexander Andersohn, 6/9/22
Jayanta Mondal, 7/27/22
Michael Longmire, 8/12/22
Chrystine Gallegos, 11/15/22
Shane Cristy, 5/2/23
Chase Hutchins, TBD

SERVICE TO THE COMMUNITY:

Member of mentoring committee for Dr. Romain Harmancey K99/R00 award (PI: Taegtmeyer), 2013 - 2014
Captain of UT Health cycling team for Tour de Pink (local organization that raises funds for breast cancer awareness and treatment), 2012 - 2015
UT faculty sponsor for Ms. Robyn James (Rice undergrad, Bioc 310 course), 2012 – 2015
UT faculty sponsor for Mr. Mashfee Khan (Rice undergrad, Bioc 310 course), 2014 – 2015
UT Outreach: presentation to Academy of Science and Technology high school students, “Life in Biomedical Research at UT Health” (Sept 17th, 2014)
UT Outreach: presentation to Seven Lakes high school students, “Life in Biomedical Research at UT Health” (Jan 5th, 2015)
Camp Cardiac: presentation on cardiac physiology for advanced high school students participating in a week-long summer class focused on cardiac medicine (July 21st, 2015)
Participant in faculty panel discussion at UTHSC MD/PhD Program Retreat (July 31st, 2015)
UT faculty sponsor for Ms. Abigael Odwour (Rice undergrad participating in Sustaining Excellence in Research Scholars Program and UT Summer Research Program), Summer 2017
Participant on a career panel for high school students visiting from Westchester Academy for International Studies (1 ½ hour, Jan 8th, 2018)
Participant in Poverty Simulation for MS2 students (5 hours, June 6th, 2018)
Participant in Poverty Simulation for MS1 students (3 hours, January 17th, 2020)
Faculty mentor for Healthcare Innovation Competition 2019 (4 hours, April 28th, 2019)
Faculty mentor for Healthcare Innovation Competition 2020 (4 hours, Feb 22nd, 2020)
Faculty mentor for Healthcare Innovation Competition 2021 (4 hours, Feb 27th, 2021)
Faculty mentor for Healthcare Innovation Competition 2022 (4 hours, Feb 19th, 2022)
Faculty mentor for Healthcare Innovation Competition 2023 (4 hours, Feb 11th, 2023)
Judge for Postdoctoral Association Dean’s Excellence in Research Award (1 hour, May 29th, 2020)
GSBS Faculty Representative on Quality Enhancement Plan “Healthcare Policy for Health Professionals, 2020 – present
Participant on panel discussion “Choosing a Dissertation Lab” for American Physician Scientist Association South Regional Meeting (1 hour, Oct 24th, 2020)

SPONSORSHIP OF DOCTORAL TUTORIAL STUDENTS:

Michael McCarthy, Fall 2013
Tanya Baldwin, Spring 2014
Cory Wilson, Summer 2014
Janani Subramaniam, Fall 2019

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

Henry Wu, 2013 – 2015
Albert Hunt Jr. III, 2016 – 2017
Janani Subramaniam, 2017 – 2019 (M.S. degree)
Janani Subramaniam, 2020 – 2022 (Ph.D. degree)

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Dr. Pu Yang, July 2013 – July 2014

SPONSORSHIP OF MS1/MS2 MEDICAL STUDENTS:

Luke Kupcha, 6/18 – 8/18
Mariaelena Boyle, 2/19 – 5/19

CURRENT TEACHING RESPONSIBILITIES:

UT Graduate School of Biomedical Sciences

Co-Director (15% effort)

*Ethical Dimensions of Biomedical Sciences, 2016 - present

Lecturer

*Ethical Dimensions of Biomedical Sciences, 2011 – present
14 hrs, 8 students per year

Topics in Biochemistry and Molecular Biology, 2012 – 2013
4.5 hrs, 25-40 students

Current Methods in Molecular Research I, 2012 – 2013
1.5 hrs, 40 students

*Molecular Basis of Cell Signaling, 2013 – present
1.5 hrs, 8-16 students

Topics in Molecular Medicine, 2014
3 hrs, 40 MD/PhD students

*GSBS Core Course, 2014 – present
5 hrs, 50 graduate students

Lecture topics: Ubiquitin-Proteasome System, Cellular Polarity, Signal
Transduction in Cardiomyocyte Contractions, journal club facilitator (2 sessions)

Seminar in Cell Signaling, 2015
5 hrs, 8 students

*Current Methods in Structural and Molecular Biology, 2014 – present

1 hr, 12 students

Medical School (30% effort)

CV Module Basic Sciences Director

2020 - present

Co-Director

Medical Physiology, Winter 2016

Lecturer

Medical Pharmacology, 2012 – 2016

4 hrs, 250 students per year

Lecture topics: Contractility, Anti-arrhythmics.

Medical Physiology, 2014 – 2016

8 hrs, 250 students per year

Lecture topics: Hemodynamics, Cardiovascular shock, Hemodynamics team-based learning, Cardiovascular problems team-based learning, Integrative control team-based learning, Integrative physiology

Pre-Entry Program, 2014 – 2016

4 hrs, 25 students per year

Lecture topics: Bioelectricity team-based learning, Exam review

Pre-Entry Program, 2017 – present

10 hrs, 30 students per year

Lecture topics: Hemodynamics, Introduction to cardiovascular physiology, Hemodynamics lab, Hypovolemic shock, Cardiovascular review

Foundations of Medical Science, 2016

5 hrs, 250 students per year

Lecture topics: Homeostasis, Hemodynamics, Cardiovascular shock, Cardiovascular problem-solving session

Foundations of Medical Science, 2017 – present

13.5 hrs, 250 students per year

Lecture topics: Homeostasis (1 hr), Electrophysiology of the Heart (1 hr), Hemodynamics (1 hr), The Heart as a Pump (1 hr), Cardiac Vascular Interactions (1 hr), Regional Blood Flow (1 hr), Control of Blood Pressure (start in 2019, 1 hr), Cardiovascular problem-solving sessions I (2 hrs) and II (2 hrs), CV Review (0.5 hr), Week 3 TBL (topic: hypovolemic shock) (3.5 hrs)

Cardiovascular System Block, 2017 – present

6 hrs, 250 students per year

Lecture topics: Anti-arrhythmics (2 hrs), Inotropes & pressors (2 hrs), CV review (2 hrs)

+ 6 hrs, additional teaching responsibilities starting in 2020:

Lecture topics: Treatment of Hypertension (1 hr), Sympatholytic Treatments of Hypertension and CV Disease (1 hr), Vasodilators (1 hr), CV Review (3 hrs)

Cardiovascular Simulations, 2020 – present

12-18 hrs, 250 students per year

Contribute to Q&A session in small group discussion (12-14 students/ hour) of two simulated CV emergencies (myocardial infarction, atrial fibrillation)

OTHER TEACHING ACTIVITIES:

Exam Proctor

Medical Pharmacology, 2011 - present

Medical Physiology, 2013 – present

MS remote exam proctor: 5/14/20 (3 hrs), 9/11/20 (3 hrs), 10/28/20 (3 hrs), 12/18/20 (3 hrs), 1/8/21 (2 hrs), 2/3/21 (3 hrs), 3/4/21 (3 hrs), 3/11/21 (3 hrs)

Facilitator

MS1 Ethics and Professionalism, 2016

3 hrs, 9 students

Facilitated MS1 student discussion on scenarios presented in *The Brewsters* and graded students' written responses.

PBL Block 1 & 2 substitute case facilitator, 2019

16 hrs, 8 students

Cases: Agnes Cooper, Patty Arrup, Jason Anderson, Travis Ramirez

PBL Block 1 case facilitator, 2020

16 hrs, 8 students

Cases: Robert Jacobson, Susan Strickland, Herb Stokes, Travis Ramirez

MS2 Ethics Small Group Sessions, 2020

8 hrs, 8 students

Facilitate MS2 student discussion on *Research Ethics* (8/14/20), *End of Life* (8/28/20), *Emerging Technologies* (9/25/20), and *Hot Topics* (10/9/20)

Content expert for NIH-funded UTHealth Cardiovascular Genomics Certificate Program

4 hrs, target audience: internal medicine and family medicine faculty, genetic counselors, cardiothoracic and vascular surgeons, anesthesiologists

Contributed to the creation of case studies focused on channelopathies in a multi-PI project (lead by Dr. Siddharth Prakash) to create an online educational course about the genetics and genomics of adult onset cardiovascular diseases.

PAST GRANT SUPPORT:

AHA Grant-in-Aid 16GRNT30410011, "Ankyrin-dependent assembly of SR/T-tubule organization"

PI: Shane Cunha, 7/1/16 – 6/30/18, \$140,000

NIH/NHLBI 5R00HL092232-05, "Structural and signaling roles for cardiac ankyrin-B"

PI: Shane Cunha, 10/1/08 - 4/30/14, \$735,000

PUBLICATIONS:

A. ABSTRACTS: (*Presented)

1. Yamankurt, G., Cunha, S.R.*: Expression of Alternative Ankyrin-G Isoforms in Ventricular Tissue. GRC-Cardiac Regulatory Mechanisms, 2012

B. REFEREED ORIGINAL ARTICLES IN JOURNALS:

1. Cunha, S.R., and Mayo, K.E.: Ghrelin and growth hormone (GH) secretagogues potentiate GH-releasing hormone (GHRH)-induced cyclic adenosine 3',5'-monophosphate production in cells expressing transfected GHRH and GH secretagogue receptors. *Endocrinology*. 143:4570-4582, 2002.
2. Cunha, S.R., Bhasin, N., and Mohler, P.J.: Targeting and stability of Na/Ca exchanger 1 in cardiomyocytes requires direct interaction with the membrane adaptor ankyrin-B. *J Biol Chem*. 282:4875-83, 2007.
3. Bhasin, N., Cunha, S.R., Mudannayake, M., Gigena, M.S., Rogers, T.B., and Mohler, P.J.: Molecular basis for PP2A regulatory subunit B56a targeting in cardiomyocytes. *Am J Physiol Heart Circ Physiol*. 293:H109-119, 2007.
4. Kline, C.F., Cunha, S.R., Lowe, J.S., Hund, T.J., and Mohler, P.J.: Revisiting ankyrin-InsP(3) receptor interactions: Ankyrin-B associates with the cytoplasmic N-terminus of the InsP(3) receptor. *J Cell Biochem*. 104:1244-1253, 2008.
5. Cunha, S.R., Le Scouarnec, S., Schott, J.J., and Mohler, P.J.: Exon organization and novel alternative splicing of the human *ANK2* gene: implications for cardiac function and human cardiac disease. *J Mol Cell Cardiol*. 45:724-734, 2008.
6. Le Scouarnec, S., Bhasin, N., Vieyres, C., Hund, T.J., Cunha, S.R., Koval, O., Marionneau, C., Chen, B., Wu, Y., Demolombe, S., Song, L.S., Le Marec, H., Probst, V., Schott, J.J., Anderson, M.E., and Mohler, P.J.: Dysfunction in ankyrin-B-dependent ion channel and transporter targeting causes human sinus node disease. *Proc Natl Acad Sci, USA*. 105:15617-15622, 2008.
7. Cunha, S.R., and Mohler, P.J.: Obscurin targets ankyrin-B and protein phosphatase 2A to the cardiac M-line. *J Biol Chem*. 283:31968-31980, 2008.
8. Sedlacek, K., Stark, K., Cunha, S.R., Pfeufer, A., Weber, S., Berger, I., Wichmann, H.E., Mohler, P.J., Hengstenberg, C., and Jeron, A.: Common genetic variants in *ANK2* influence QT interval- results from the KORA study. *Circ Cardiovasc Genet*. 1:93-99, 2008.
9. Kline, C.F., Kurata, H.T., Hund, T.J., Cunha, S.R., Koval, O.M., Wright, P.J., Christensen, M., Anderson, M.E., Nichols, C.G., and Mohler, P.J.: Dual Role of K_{ATP} channel C-terminal motif in membrane targeting and metabolic regulation. *Proc Natl Acad Sci USA*. 106:16669-16674, 2009.
10. Gao, Z., Chen, B., Joiner, M.L., Wu, Y., Guan, X., Koval, O.M., Chaudhary, A.K., Cunha, S.R., Mohler, P.J., Martins, J.B., Song, L.S., and Anderson, M.E.: I(f) and SR Ca(2+)

release both contribute to pacemaker activity in canine sinoatrial node cells. *J Mol Cell Cardiol.* 29:33-40, 2010.

11. Gudmundsson, H., Hund, T.J., Wright, P.J., Kline, C.F., Snyder, J.S., Qian, L., Koval, O.M., Cunha, S.R., George, M., Rainey, M.A., Kashef, F.E., Dun, W., Boyden, P.A., Anderson, M.E., Band, H., and Mohler, P.J.: EH domain proteins regulate cardiac membrane protein targeting. *Circ Res.* 107:84-95, 2010.
12. Cunha, S.R., Hund, T.J., Hashemi, S., Voigt, N., Li, N., Wright, P., Koval, O., Li, J., Gudmundsson, H., Gumina, R.J., Karck, M., Schott, J.J., Probst, V., Le Marec, H., Anderson, M.E., Dobrev, D., Wehrens, X.H., and Mohler, P.J.: Defects in ankyrin-based membrane protein targeting pathways underlie atrial fibrillation. *Circ.* 124:1212-1222, 2011.
13. Wu, H., Yamankurt, G., Luo, J., Subramaniam, J., Hashmi, S.S., Hu, H., and Cunha, S.R.: Identification and characterization of two ankyrin isoforms in mammalian heart. *Cardiovasc Res.* 107:466-477, 2015.
14. Yamankurt, G., Wu, H.C., McCarthy, M., and Cunha, S.R.: Exon organization and novel alternative splicing of *Ank3* in heart. *PLoS One.* 10:e0128177, 2015.
15. Govorunova, E., Cunha, S.R., Sineshchekov, O., and Spudich, J.: Anion channelrhodopsins for inhibitory cardiac optogenetics. *Sci Rep.* 6:33530, 2016.
16. Cho, K., Casteel, D., Prakash, P., Tan, L., Hoeven, D., Salim, A., Kim, C., Capon, R., Lacey, E., Cunha, S.R., Gorfe, A., and Hancock, J.: AMPK and eNOS signaling regulates K-Ras plasma membrane interactions with cGMP-dependent protein kinases 2. *Mol Cell Biol.* 36:3086-3099, 2016.
17. Li, Y., Baldwin, T.A., Wang, Y., Subramaniam, J., Carbajal, A.G., Brand, C.S., Cunha, S.R., and Dessauer, C.W.: Loss of type 9 adenylyl cyclase triggers reduced phosphorylation of Hsp20 and diastolic dysfunction. *Sci Rep.* 7:5522, 2017.
18. Subramaniam, J., Yang, P., McCarthy, M.J., and Cunha, S.R.: Identification and characterization of self-association domains on small ankyrin 1 isoforms. *J Mol Cell Cardiol.* 139:225-237, 2020.
19. Subramaniam, J., Yamankurt, G., and Cunha, S.R.: Obscurin regulates ankyrin macromolecular complex formation. *J Mol Cell Cardiol.* 168:44-57, 2022

C. INVITED ARTICLES (REVIEWS, EDITORIALS, ETC.) IN JOURNALS:

1. Cunha, S.R., and Mohler, P.J.: Cardiac ankyrins: essential components for development and maintenance of excitable membrane domains in heart. *Cardiovasc Res.* 71:22-29, 2006.

2. Cunha, S.R., and Mohler, P.J.: Cardiac Cytoskeleton and Arrhythmia: An Unexpected Role for Protein 4.1R in Cardiac Excitability. *Circ Res.* 103:779-781, 2008.
3. Cunha, S.R., and Mohler, P.J.: Ankyrin Protein Networks in Membrane Formation and Stabilization. *J Cell Mol Med.* 13:4364-4376, 2009.
4. Cunha, S.R., and Mohler, P.J.: Ankyrin-based cellular pathways for cardiac ion channel and transporter targeting and regulation. *Semin Cell Dev Biol.* 22:166-170, 2011.
5. Yamankurt, G., Nguyen, F.T., Mohler, P.J., and Cunha, S.R.: Ankyrin-based trafficking and scaffolding of membrane proteins: Implications for plasma membrane stability, formation, and specialization. *J Proteomics Bioinform.* 6(10), 2013.

D. CHAPTERS:

1. Mayo, K.E., Miller, T., DeAlmeida, V., Godfrey, P., Zheng, J., and Cunha, S.R.: Regulation of the pituitary somatotroph cell by GHRH and its receptor. *Recent Progress in Hormone Research* (ed. P. M. Conn). 55:237-267, 2000.
2. Cunha, S.R., DeAlmeida, V., Miller, T., Godfrey, P., and Mayo, K.E.: GHRH receptor regulation and signaling. *Hormone Action: Basic and Clinical Aspects* (ed. S. Melmed). BioScientifica Ltd., 1-17, 2000.
3. Cunha, S.R., and Mayo, K.E.: Growth hormone-releasing hormone (GHRH) and the GHRH receptor. *Encyclopedia of Hormones* (eds. H.L. Henry and A.W. Norman). Academic Press, 216-226, 2003.
4. Hund, T.J., Cunha, S.R., Mohler, P.J.: Principles of Cellular Architecture and Physiology with applications in electrophysiology. *Electrophysiological Disorders of the Heart* (eds. S. Saksena and A.J. Camm). Elsevier, Inc., 2011.
5. Fairbrother, H.E., Carpenter, P.B., Cunha, S.R., Khamees, D.: Innovations in Active Education Techniques: Team Based Learning, Flipping the Classroom, and Think-Pair-Share. *Health and Education Success – Recent Perspectives*. IntechOpen Limited, 2022.

E. INVITED PRESENTATIONS:

1. “Ankyrin-based pathways for ion channel and transporter targeting in excitable cells: Understanding the cell biology underlying fatal human arrhythmia”, World Congress of Cardiology (Barcelona, Spain), August 2006
2. “Structural and Signaling Roles of Cardiac Ankyrin-B”, University of Hawaii at Manoa, Center for Cardiovascular Research (Honolulu, Hawaii), 9/30/09
3. “The Role of Cardiac Ankyrins in Excitable Cell Biology and Human Disease”, The Ohio State University, Dept. of Physiology and Cell Biology (Columbus, OH), 1/20/10

4. "Structural and Signaling Roles of Cardiac Ankyrin-B", Albany Medical College, Center for Cardiovascular Sciences (Albany, NY), January 2010
5. "The Role of Cardiac Ankyrins in Excitable Cell Biology and Human Disease", University of Kentucky College of Medicine (Lexington, KY), February 2010
6. "Ankyrin Function in Normal and Diseased Hearts", University of Pittsburgh School of Medicine (Pittsburgh, PA), February 2010
7. "Cardiac Ankyrins in Excitable Cell Biology and Human Disease", University of Colorado at Denver, Department of Cell and Developmental Biology (Denver, CO), February 2010
8. "Structural and Signaling Roles of Cardiac Ankyrin-B", Vanderbilt University Medical Center, Division of Cardiovascular Medicine (Nashville, TN), March 2010
9. "The role of ankyrin proteins in cardiac physiology", University of Texas Medical School at Houston, 10/12/10
10. "Defects in ankyrin-based membrane protein targeting underlie cardiac arrhythmias" University of Texas Medical School at Houston, Biochemistry and Molecular Biology Department, 10/10/11.
11. "Defects in ankyrin-based membrane protein targeting underlie atrial fibrillation" University of Texas Medical School at Houston, 10/12/11
12. "Regulation of cardiomyocyte domain specialization by adaptor proteins" Baylor College of Medicine, Department of Molecular Physiology and Biophysics, 4/30/13
13. Keynote address, Neuroscience Graduate Program Scientific Retreat (October, 2015)
14. Divisional Research Conference, UT Health/McGovern Medical School, Dept of Pediatrics, 10/26/16
15. James T. Willerson, M.D. Cardiovascular Seminar Series, Texas Heart Institute, 3/23/17
16. "Ankyrin regulation of ion channel targeting and longitudinal SR formation in cardiomyocytes" McGovern Medical School at University of Texas Health Science Center (UTHealth), Department of Integrative Biology and Pharmacology, 10/16/17.
17. "Engaging a diverse student body in ethics: The power of exercises" TEACH-S Educational Symposium, 5/11/18.