BRENDA G. HOGUE

ADDRESS: The Biodesign Institute
CIDV (BDA 330A)
Arizona State University
PO Box 875401
1001 S. McAllister Avenue
Tempe, AZ 85287-5401

PHONE: (480) 965-9478 (Office)
(480) 965-9406 (Laboratory)
FAX: (480) 727-7615
E-MAIL: Brenda.Hogue@asu.edu

INTERNET: www.biodesign.asu.edu/centers/idv
http://sols.asu.edu/faculty/bhogue.php

EDUCATION	DEGREE	YEAR	DISCIPLINE
Mississippi State University	B.S.	1971	Microbiology
Duke University	M.Ed.	1976	Secondary Science Education
University of Tennessee, Knoxville	Ph.D.	1986	Virology/Molecular Cell Biology
UCLA School of Medicine	Postdoc	1990	Virology

DOCTORAL AND POSTDOCTORAL RESEARCH TOPIC AND MENTOR

University of Tennessee, Knoxville (9/1980 – 2/1986) D.A. Brian - Mentor
Dissertation Title: Structure, Synthesis and Processing of the Proteins of Two Hemagglutinating Coronaviruses, the Human Respiratory Coronavirus OC43 and the Bovine Enteric Coronavirus

UCLA School of Medicine (4/1986 – 8/1991) D.P. Nayak – Mentor
Influenza virus protein expression and transport

UNIVERSITY ACADEMIC APPOINTMENTS

2002 – present (Tenure 2007)	Associate Professor, Arizona State University Center for Infectious Diseases and Vaccinology, The Biodesign Institute, 2004- present ASU School of Life Sciences, July 2003 - present Department of Microbiology, 3/2002 - 7/2003 Director, ASU Post-baccalaureate Research Education Program (PREP) in Biomedical Research, 2004 -present Director, Microbiology Graduate Program, 2012 – present Member, Molecular Cellular Biology Graduate Program Executive Committee Advisory Board, ASU Initiative for Maximizing Student Development (IMSD) Program
1991 – 2002	Assistant Professor, Baylor College of Medicine, Houston Department of Molecular Virology and Microbiology, 1/2000 – 3/2002 (Department of Microbiology & Immunology, primary appointment) merged with the Division of Virology in 2000) Department of Microbiology & Immunology, Joint Appointment in Division of Molecular Virology, 9/1991 – 12/1999
1990 – 1991	Research Assistant Virologist, UCLA School of Medicine
1986 – 1990	Postdoctoral Fellow, UCLA School of Medicine NIH NRSA Postdoctoral Fellowship (F32GM11788), 1987 -1989

PROFESSIONAL AFFILIATIONS

2002 – present	Molecular Cell Biology Graduate Program, Microbiology Graduate Program, ASU
2007 – present	Biological Design Graduate Program, ASU
1997 – 2002	Affiliate, University of Texas Health Sciences/MD Anderson, Houston Graduate School of Biomedical Sciences Virology Program
1996 – 2002	Member Cell and Molecular Biology Program, Baylor College of Medicine

OTHER TEACHING

1973 – 1978	Teacher, Advanced Placement Biology and Physical Science Helped design and implemented the laboratory based physical science course for academically talented 9th graders as part of M.Ed thesis at Duke University South Granville High School, Creedmoor, NC
1972 – 1973	Teacher, 10th grade General Biology and 7th grade Life Science Southern Council Academy, Durham, NC
1971 – 1972	Teacher, 10th grade General Biology, Pearl McLaurin High School, Jackson, MS

HONORS & AWARDS

2013	ASU Commission on the Status of Women Outstanding Achievement and Contribution Award
2013	ASU Committee for Campus Inclusion "Excellence in Diversity" Award Nominee
2008	State-of-the-Art Speaker, American Society for Virology 27th Annual Meeting Cornell University, Leaders in their respective fields are invited each year to give one of ~6 of these lectures
1993	American Society for Virology Travel Award and Invited Talk, International Congress of Virology, Glasgow, Scotland
1987 – 1989	NIH NRSA Postdoctoral Fellowship F32 GM11788
1984 – 1986	Predoctoral Fellowship, Tennessee Centers of Excellence Program in Livestock Diseases & Human Health, College of Veterinary Medicine, University of Tennessee, Knoxville
1980 - 1982	Teaching Assistantship, Department of Microbiology, University of Tennessee, Knoxville
1974 – 1976	Tuition Fellowship, Department of Education, Duke University Helped develop a laboratory orientated course in physical science for academically talented 9th graders while in the M.Ed. Graduate Program at Duke University. Modeled the course directly in the the classroom at South Granville High School in Creedmoor, NC, 1974-1978, under the guidance of of Dr. Sherwin Githens in the Department of Education at Duke University Tuition Grant, North Carolina State Department of Public Instruction Selected to help revise Advanced Placement (AP) Biology courses in North Carolina during the summers at NC State University

RESEARCH SUPPORT

Current Grants:

9/25/2004 - 07/31/2015	*ASU Post-Baccalaureate Research Education Program (PREP) (minority/underrepresented access training program)* NIH/NIGMS R25GM71798 ($1,762,464 - current) Director/Principal Investigator – Hogue
7/01/2009 – 7/31/2014	*Femtosecond Virus Structure* NSF 0919195 ($542,009 - current) Co-Principal Investigator – Hogue Lead PI - Weierstall
10/1/2010 – 9/30/2015	*Center For Membrane Proteins In Infectious Diseases (MPID)* NIH NIGMS 1U54GM094599 ($5,206,225 - current) Co-Principal Investigator – Hogue Principal Investigator – Fromme

9/1/11 – 8/31/13	Isolating Viral Particles from Whole Blood NIH ($138,329 - current) Role: Multiple PI – Hayes/Hogue
8/1/2013 – 7/31/2018	*Biology with X-ray Lasers* NSF ($24,935,178) Role: Co-Investigator - Hogue Lead PI – Lattman (SUNY at Buffalo)

Pending Proposals:

12/12/2004 - 11/30/2017	*Molecular Analysis of Coronavirus Assembly* NIH/NIAID 5R01AI053704 ($1,854,129) Principal Investigator – Hogue Renewal Pending
12/2013 – 11/2014	*A Compact HomeLab X-Ray Diffraction System for Macromolecular Crystallography* Role: Co-Investigator – Hogue Lead PIs – Fromme & Chen

Recently Completed

12/01/11 – 11/30/15	*Graduate and Undergraduate Training in Biomedicine at ASU* NIH NIGMS ($531,819) Role: Co-Principal Investigator 12/2011 – 2/2013 – Hogue Lead PI – Newfield
5/01/11 – 04/30/12	*Acquisition of a Leica TCS Sp5 Laser Scanning Confocal Microscope* NIH/NCRR ($470,658) Role: Co-Principal Investigator - Hogue Lead PI– Duch
09/15/2003 - 2/29/2010	*Molecular Analysis of Coronavirus Assembly* NIH NIAID R01AI053704-05 Role: PI - Hogue
4/1/2008-3/31/2011	*Development of a Plant-derived Virus-like Particle Vaccine against SARS Coronavirus* NIH NIADI 1R21AI073928 - 01A2 Role: PI - Hogue

TRAINING GRANT PARTICIPATION

1996 – 2001	Molecular Virology Training Grant NIH T32AI07471 (PI – Frank Ramig) Baylor College of Medicine
1997 - 2002	Research Mentoring for Young Women Scientists & Engineers Baylor College of Medicine (PI, Gail Slaughter) National Science Foundation

PUBLICATIONS
Google Scholar Citation Analysis – 1156 BG Hogue citations, H-Index

[a]Postdoc; [b]Graduate Student; [c]Undergraduate

1. **Hogue, B.G.**, King, B. and Brian, D.A. 1984. Antigenic relationship between proteins of the of bovine coronavirus, human respiratory coronavirus OC43, and mouse hepatitis coronavirus A59. J. Virol 51:384-388.
2. **Hogue, B.G.** and Brian, D.A. 1986. Structural proteins of the human coronavirus OC43. Virus Research 5:131- 144.
3. **Hogue, B.G.** 1986. Structure, synthesis and processing of the proteins of two hemagglutinating coronaviruses, the human respiratory coronavirus OC43 and the bovine enteric coronavirus. Ph.D. Thesis.
4. Lapps, W., **Hogue, B.G**. and Brian, D.A. 1987. Sequence analysis of the bovine coronavirus nucleocapsid and matrix protein genes. Virology 157:47-57.
5. Keck, J.G., **Hogue, B.G.**, Brian, D.A. and Lai, M.M.C. 1987. Temporal regulation of RNA synthesis of bovine coronavirus. In "Coronaviruses." Adv. in Exp. Med. and Biol. 218:157-158.
6. Lapps, W., **Hogue, B.G.** and Brian, D.A. 1987. Deduced amino acid sequence and potential O-glycosylation sites for the bovine coronavirus matrix protein. Adv. in Exp. Med. and Biol. 218:123-129.
7. **Hogue, B.G.** and Brian, D.A. 1987. Characterization of the coronavirus hemagglutinin protein. Adv. in Exp. Med. and Biol. 218:131- 136.
8. Keck, J., **Hogue, B.G.**, Brian, D.A. and Lai, M.M.C. 1988. Temporal regulation of bovine coronavirus RNA synthesis. Virus Research 9:343-356.
9. Kapke, P., Tung, F.Y.C., **Hogue, B.G.**, Brian, D.A., Woods, R.D. and Wesley, R.D. 1988. The amino terminal signal peptide on the porcine transmissible gastroenteritis coronavirus matrix protein is not an absolute requirement for membrane translocation and glycosylation. Virology 165:367-376.
10. Brown, D.J., **Hogue, B.G.** and Nayak, D.P. 1988. Redundancy of signal and anchor functions in the NH_2-terminal uncharged region of influenza virus neuraminidase, a class II membrane glycoprotein. J. Virol. 62:3824-3831.
11. **Hogue, B.G.**, Brown, D.J. and Nayak, D.P. 1988. Deletion analysis of the signal/anchor domain of the influenza virus neuraminidase. Cell Biology of Virus Entry, Replication, and Pathogenesis. UCLA Symposium on Molecular and Cell Biology 1988. Compans, Helenius, and Oldstone (eds.), New York: Alan R. Liss, Vol.90:279-286.
12. **Hogue, B.G.**, Kienzle, T., and Brian, D.A. 1989. Synthesis and glycosylation of the bovine coronavirus hemagglutinin. J. Gen. Virol. 70:345-352.
13. Kienzle, T.E., Abraham, S., **Hogue, B. G.**, and Brian, D.A. 1990. Structure and orientation of expressed bovine hemagglutinin-esterase protein. J. Virol. 64:1834-1838.
14. Kienzle, T.E., Abraham, S., **Hogue, B.G.**, and Brian, D.A. 1990. Structure and expression of the bovine coronavirus hemagglutinin protein. Adv. Exp. Med. and Bio. 276:95-102
15. **Hogue, B.G**., and Nayak, D.P. 1990. In vivo expression of the transmissible gastroenteritis coronavirus M protein. Adv. Exp. Med. and Biol. 276:121-126.
16. Tung, F.Y.T., Abraham, S., Hung, S., Sethna, M., Hung, S.-L., Sethna, P., **Hogue, B.G.**, and Brian, D.A. 1992. The 9 kilodalton hydrophobic protein encoded at the 3' end of the porcine transmissible gastroenteritis coronavirus genome is membrane associated. Virology 186:676-683.
17. **Hogue, B.G.** and Nayak, D.P. 1992. Synthesis and processing of the influenza virus neuraminidase. Virology 188:510-517.
18. **Hogue, B.G**. and Nayak, D.P. 1994. Deletion mutation in the signal-anchor domain activates cleavage of the influenza virus neuraminidase, a type II transmembrane protein. J. Gen.Virol.75:1015-1022.
19. Gill, E. P., Dominguez, E. A., Greenberg, S. B., Atmar, R. L., **Hogue, B. G.**, Baxter, B. D., and Couch, R. B. 1994. Development and application of a coronavirus OC43 enzyme immunoassay for acute respiratory illness. J. Clin. Micro. 32:2372-2376.
20. Oleszak, E. L., Kuzmak, J., **Hogue B.**, Parr, R., Collisson, E. W., Rodkey, L. S., Leibowitz, J. L. 1995. Molecular mimicry between Fc receptor and S peplomer protein of mouse hepatitis virus, bovine coronavirus, and transmissible gastroenteritis virus. Hybridoma 14:1-8.
21. **Hogue, B. G.** 1995. Corona- and Related Viruses. Bovine coronavirus nucleocapsid protein processing and assembly. 1995. Talbot and Levy (eds.) Plenum Press. Adv. Exp. Med. and Bio. 380:259-264.

22. Cabirac GF, Murray RS, McLaughlin LB, Skolnick DM, **Hogue B.**, Dorovini-Zis K, Didier PJ. 1995. Corona- and Related Viruses. In vitro interaction of coronaviruses with primate and human brain microvascular endothelial cells. Talbot and Levy (eds), Plenum Press, NY, Adv. Exp Med Biol 380:79-88.
23. Brian, D.A., **Hogue, B.G.**, Kienzle, T.E. 1995. The coronavirus hemagglutinin esterase glycoprotein. In The Coronaviridae. S. Siddell (ed), Plenum Press, pp. 165-176. (DAB and BGH invited to contribute the chapter in this series).
24. Nguyen, V.P.[b] and **Hogue, B.G.** 1997. Protein interactions during coronavirus assembly. J.Virol. 71:9278-9284.
25. Nguyen, V. P.[b] and **Hogue, B. G.** 1998. Coronaviruses and Arteriviruses. Coronavirus envelope glycoprotein assembly complexes, Enjuanes, Siddell and Spaan (eds.), Plenum Press, NY, Adv. Exp. Med. Bio. 440:361.
26. Cologna, R.[b] and **Hogue, B. G.** 1998. Coronaviruses and Arteriviruses. Coronavirus nucleocapsid protein RNA interactions, Enjuanes, Siddell and Spaan (eds.), Plenum Press, NY, Adv. Exp. Med. Bio. 440:355-359.
27. Cologna, R.[b] and **Hogue, B.G.**, 2000. Identification of a bovine coronavirus packaging signal. J. Virol. 74:580-583.
28. Spagnolo, Jeannie F.[b] and **Hogue, B.G.** 2000. Host protein interactions with the 3' end of bovine coronavirus RNA and the requirement of the poly(A) tail for coronavirus defective genome replication. J. Virol. 74:5053-5065.
29. Cologna, R.[b], Spagnolo, J. F.[b] and **B. G. Hogue.** 2000. Identification of nucleocapsid binding sites within coronavirus defective genomes. Virology 277(2):235-49.
30. Spagnolo, J.F.[b] and **Hogue, B.G.** 2001. In The Nidoviruses. Requirement of the Poly(A) Tail in Coronavirus Genome Replication. Lavi, Weiss, Hingley (eds), Kluwer Academic/Plenum Publishers, London, UK. Adv. Exp. Med. Bio. 494:467-474.

ASU Publications –

For all of the publications 1-31, 41, 43-50 I have served as the lead PI who guided the research and mentor of the authors (postdocs, graduate and undergraduate students) listed in all manuscript (1-31, 41, 43-50), except in the case where I provided research guidance/advice and helped mentor the students (42).

31. Verma, S.[a], Bednar, V.[c], Blount, A.[c], and **Hogue, B.G.** 2006. Role of coronavirus nucleocapsid protein COOH terminal conserved amino acids in virus assembly. J. Virol. 80:4344-4355.
32. Lopez, L.A.[b], Jones, A.[b], Arndt, W.D.[b], **Hogue, B.G.** 2006. Subcellular localization of SARS-CoV structural proteins. The Nidoviruses : The Control of SARS and other Nidovirus Diseases. Perlman and Holmes (editors) Springer Publishers, Adv. Exp. Med. Bio. 581:297-300.
33. White, T.C.[b] and **Hogue, B.G.** 2006. Mouse hepatitis coronavirus nucleocapsid phosphorylation. The Nidoviruses : The Control of SARS and other Nidovirus Diseases. Perlman and Holmes (editors) Springer, Adv. Exp. Med. Bio. 581:157-162.
34. Ye, Y.[b] and **Hogue, B.G.** 2006. Role of mouse hepatitis coronavirus envelope protein transmembrane domain. The Nidoviruses : The Control of SARS and other Nidovirus Diseases. Perlman and Holmes (editors) Springer, Adv. Exp. Med. Bio. 581: 187-192.
35. Bednar, V.[c], Verma, S.[a], Blount, A.[c] and **Hogue, B.G.** 2006. Importance of MHV-CoV nucleocapsid protein COOH-terminal negative charges. The Nidoviruses : The Control of SARS and other Nidovirus Diseases. Perlman and Holmes (editors) Springer, Adv. Exp. Med. Bio. 581: 127-132**.**
36. Ye, Y.[b*], Hauns, K.D.[b], Langland, J.O.[a], Jacobs, B.L. and **Hogue, B.G.** 2007. Mouse Hepatitis Coronavirus A59 nucleocapsid protein is a type I interferon antagonist. 2007. Epub 2006 Dec 20. J Virol. 81(6):2554-63.
37. Ye, Y.[b] and **Hogue, B.G.** 2007. Role of the mouse hepatitis coronavirus E viroporin protein transmembrane domain in virus assembly. 2007. Epub Jan 17. J. Virol. 81(7):3597–3607.
38. Verma, S.[a], Lopez, L.A.[b], Bednar, V.[c] and Hogue, B.G. 2007. Importance of coronavirus membrane protein penultimate charged residue in virus assembly. 2007. Epub Feb 28. J. Virol. 81(8)5339-5348.
39. White, T.C.[b], Yi, Z. and **Hogue, B.G.** 2007. Identification of mouse hepatitis coronavirus nucleocapsid protein phosphorylation sites. 2007. Epub Mar 23. Virus Res. 126(1-2):139-148.
40. **Hogue, B.G.** and Machamer C.M. **[Invited Review]** 2008. Coronavirus Structural Proteins and Assembly. In The Nidoviruses. Perlman, Snijder and Gallagher (editors), American Society of Microbiology Press. pp 179-200.
41. Lopez, L.A.[b], Riffle, A.J.[c], Pike, S.L.[c], Gardner, D.[b] and **Hogue, B.G.** 2008. Importance of conserved cysteine residues in the coronavirus envelope protein. 2008. J. Virol. 82:3000-10. **[Editors' Spotlight Paper].**

42. Burk D.R.[c], Senechal-Willis P.[c], Lopez L.C., Hogue B.G., Daskalova S.M.[a]. 2009. Suppression of lipopolysaccharide-induced inflammatory responses in RAW 264.7 murine macrophages by aqueous extract of Clinopodium vulgare L. (Lamiaceae). J. Ethnopharmacol. 126: 397-405.
43. Arndt, A.L.[b], Larson, B.J.[c] and **Hogue, B.G.** 2010. A conserved domain in the coronavirus membrane protein tail is important for virus assembly. J. Virol. 84: 1518-1428.
44. Venkatagopalan, P.[b], Daskalova, S.M.[a]; Lopez, L.A.[b], Dolezal, K.A.[b]and **Hogue, B.G.** 2013. Coronavirus envelope (E) protein remains at the site of assembly. Resubmitted, under review.
45. Smolyanitsky, A.[a], Hogue, B.G., Saraniti, M., Goryll, M. 2012. Molecular and Brownian Dynamics Simulation of SARS CoV E Protein Ion Channel. Biochimica et Biophysica Acta. Under revision for resubmission.
46. Venkatagopalan, P., Daskalova, S.M., Epand, R.F., Epand, R.M. and **Hogue, B.G.** 2013. Importance of conserved proline residues in coronavirus assembly. Manuscript in preparation.
47. Arndt, A.L.[b], Larson, B.J.[a], Venkatagopalan, P.[b] and **Hogue, B.G.** 2013. Role of coronavirus membrane (M) protein charged residues in virus assembly. Manuscript in preparation for submission.
48. Sotomayor-Castro, Y.[b], Yi, Z., Shelhamer, R.[c] and **Hogue, B.G.** 2013. Significance of phosphorylated sites on mouse hepatitis coronavirus A59 nucleocapsid proteins. Manuscript in preparation for submission.
49. Carrillo, J., Esqueda, A., Faulkner, L.D., Chaplot, N., Daskalova, S.M., Goryll, M., **Hogue, B.G.** 2013. The Structure and Key Amino Acids in the Transmembrane Domain of Coronavirus Envelope (E) Proteins are Important for Ion Channel Activity. Manuscript in preparation for submission.
50. Daskalova, S.M., Robida, M.D., Carillo, J., Borges, C.R., Sykes, K.F. Fromme, P. Goryll, M. **Hogue, B.G.** 2013. Expression and purification of functional coronavirus envelope proteins in E. coli. Manuscript in final preparation for submission.
51. Lee, H-H, Cherni, I, Yu, HQ, Fromme, R., Doran, J.D., Grotjohann, I., Basu, S., Dorner. K., Aquila, A., Barty, A., Boutet, S., Chapman, H.N., Doak, R.B., Hunter, M.S., James, D.R., Kirian, R.A., Kupitz, C., Lawrence, R.M., Liu, H., Nass, K., Schlichting, I., Schmidt, K.E., Seibert, M.M., Shoeman, R.L., Spence, J.C.H., Stellato, F., Weierstall,U., Williams, G.J., Yoon, CH, Wang, D., Zatsepin, N.A., Matoba, N., **Hogue, B.G.,** Fromme, P.[*], Mor, T.S.[*] Manuscript in final preparation for submission.
52. Carrillo, J., Faulkner, L., Chaplot, N., Daskalova, S.M., Goryll, M., **Hogue, B.G.** 2013. Properties of coronavirus envelope (E) ion channels. Manuscript in final preparation for submission.

PATENTS

Huang, Z. and Hogue, B. G. "A Plant-derived Virus-like Particle Vaccine Against SARS Coronavirus", Provisional patent application filed with USPTO, United States, No. 60988668 (submitted to AzTE: November 7, 2007, filed: November 16, 2007)

Hogue, B. and Daskalova, S. "Plant Extract Antiviral Activity Against Human Coronaviruses" Provisional patent application filed with the USPTO – 7/29/2008

JOURNAL EDITORAL/REVIEWER SERVICE

Editorial Board	Journal of Virology	2007-2016	1997-1999
Editorial Board	Virology	2013 - 2017	
Ad hoc Reviewer	Journal of Virology	2000 – 2006	1993-1996
	Virology	1994 - present	
	Science	2003 - present	
	Journal of Clinical Microbiology	1996 - present	
	Archives of Virology	1999 - present	
	PLoS Pathogens	2007- present	
	Journal of Biological Chemistry	2008 – present	
	PLoS One	2011 - present	

REVIEWER FOR GRANTING AGENCIES

2013	Member NIH BAA-NIAID-DMID-NIHAI2012149 Review Panel (3/2013)
2012	*Member* NIH ZAL1 UKS M M2 (3/2012); MPRC-B Review Panel – NIGMS (7/2012)
2011	*Member* NIH ZAI1 JTS-I (S1) (7/2011), ZAI1 RGK-M (J1) (9/2011), ZAI1 GSM-M (J1) (11/2011) NIAID Center for Scientific Review Special Emphasis Panels

2010	*Member* ZAI1-BLG-M(M1) NIAID Center for Scientific Review Special Emphasis Panel (01/21010); ZRG1 IDM-R(03) NIAID Center for Scientific Review Special Emphasis Panel (05/2010)
2010	*Chair* ZAI1 NIAID Center for Scientific Review Special Emphasis Panel (06/2010)
2009	*Member* ZRG1 F13-C 20 L (03/2009); ZRG1 IDM-T (02) (01/2009); ZAI1 BLG-M (S1) (08/2009); ZRG1-F13C 20L (11/2009).
2008	*Member*, ZRG1 IDM-Q (02) (9/2008)
2008	*Member*, ZRG1 IDM-M (02) NIH Study Section (3/2008, 6/2008)
2008	*Memberr*, F13 Study Section, ZRG1 IDMR 03 Viruses Special Emphasis Panel (3/2008, 8/2008)
2008	*Member*, NIH ZRG1 IDM-R (03) Study Section (7/2008)
2005 – 2007	*Chair*, NIH Center for Scientific Review Special Emphasis Panel ZRG1 IDMG 90 Topics in Virology (10/2005, 2/2006, 6/2006, 10/2006, 2/2007)
2006 - 2007	*Temporary Member*, NIH Virology A Study Section
2007	*Member*, NIH ZRG1 IDM-M 02, Viruses Review Panel
2003-2005	*Member*, NIH Center for Scientific Review Special Emphasis Panels (3 in 2003) (3 in 2004) (3 in 2005)
2000- 2002	*Member*, USDA Animal Health and Well-Being (Virology) Review Panel
2002	*External Reviewer*, Center for Environmental & Rural Health, Texas A & M University
2001	*External Reviewer*, Biomedical Research Council, National Science & Technology Board, Singapore
1998	*Member*, NIH/NIAID Postdoctoral Fellowship Review Panel
1997	Canadian National Sciences & Engineering Research Council
1997	*Temporary Member*, NIH Experimental Virology Study Section (1998-1999 – declined)
1996 - 2000	*External Reviewer*, USDA Animal Health and Well-Being (Virology) Review Panel
1994	*Member*, NIH/NIAID RFA Grant Review Panel
1992 – 1997	External Reviewer, Veterans Administration Research Grants (1998-1999 declined)

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

American Society for Virology
American Society for Microbiology
American Association for the Advancement of Science

INVITED PRESENTATIONS (Includes lectures and seminars presented by Brenda G. Hogue)

2014 (Apr) Baylor College of Medicine

2012 (Mar) U. Indiana Bloomington
Title: Coronavirus Assembly at Intracellular Membranes

2012 (Mar) Arizona State University (Membrane Proteins in Infectious Diseases Center Advisory Board Meeting)
Title: Coronavirus Envelope Proteins: Roles in Virus Assembly at Intracellular Membranes

2012 (Feb) University of Arizona Medical School Phoenix
Title: Coronavirus Assembly at Internal Cellular Membranes

2011 (June) XIIth International Nidovirus Symposium, Traverse City, MI
Title: Roles of the coronavirus membrane protein in virus assembly.

2010 (May) The Ninth International Symposium on Positive-Strand RNA Viruses
Title: Envelope (E) Protein Functions during Coronavirus Assembly

2010 (Oct) Texas A & M University
Title: Coronavirus Assembly at Internal Cellular Membranes

2009 (Nov) Mount St. Mary's College, Los Angeles, CA
Title: Viroporins: Insight into Virus Channels

2008 (July) American Society for Virology State-of-the-Art Lecture, Cornell University
Title: Coronavirus Assembly at Intracellular Membranes

2008 (June) World Congress on In Vitro Biology, Tucson, AZ
Title: Coronavirus Assembly at Intracellular Membranes

2008 XIth International Nidovirus Symposium, St. Cathrine's College, Oxford University, England

(June) *Title:* Coronavirus Envelope Protein Promotes Assembly and Release of Virus
2007 Department of Microbiology & Immunology and WHO Center for Tropical Disease
(Feb) University of Texas Medical Branch, Galveston, TX
Title: The Multiple Functions of the Coronavirus Nucleocapsid
2006 Department of Molecular and Structural Biochemistry, North Carolina State University
(Nov) *Title:* Mutifunctional Facets of Coronavirus Proteins – Viroporins to Innate Immunity
2006 Department of Pathobiological Sciences, Lousiana State University School of Veterinary Medicine
(Sept) *Title:* A Coronavirus Innate Immune Antogonist
2005 Xth International Nidovirus Symposium, Colorado Springs, CO
Title: Identification of Functionally Important Negatively Charged Amino Acids in Domain II of Mouse Hepatitis Coronavirus A59 Nucleocapsid Protein
2003 Department of Immunobiology, University of Arizona State University
Title: Coronaviruses and Their New Role as Infectious Agents
2003 The Salons Medical Series with Barrow Neurological Institute
Title: SARS: A Newly Emerged Disease
2002 Department of Veterinary Science & Microbiology
Title: Coronavirus Replication & Assembly
2001 Department of Pathobiology, Texas A & M University
Title: Coronavirus Replication and Assembly
2001 Department of Microbiology, Arizona State University
Title: Coronavirus Replication and Assembly
2000 Department of Pathology, Texas A & M Health Sciences Center
Title: Host Protein Interactions With the 3' UTR and Requirement of the Poly(A) Tail
2000 Department of Microbiology, University of Mississippi Medical School
Seminar Title: Molecular Mechanisms of Coronavirus Replication
Lecture Title: Coronavirus Molecular Biology
1999 University of Texas Health Sciences Virology Program, Houston
1998 *Lecture Title:* Orthomyxoviruses
1998 Department of Pathobiology, Louisiana State University University School of Veterinary Medicine
Seminar Title: Coronavirus Assembly and Replication
Lecture Title: Coronavirus Pathogenesis
1998 MD Anderson Cancer Center, Houston, TX
Title: Coronavirus Assembly
1995 Department of Microbiology, University of Arkansas Medical School
Seminar Title: Coronavirus Assembly
Lecture Title: Positive-Stranded RNA Virus Replication
1994 Department of Microbiology, University of Texas Health Sciences, Houston
Title: Coronavirus Assembly
1991 Department of Microbiology & Immunology, Baylor College of Medicine, Houston
Title: Influenza Virus Neuraminidase Transport and Assembly
1991 Department of Medical Microbiology, University of Wisconsin Medical School, Madison
Title: Influenza Virus Neuraminidase
1990 Department of Microbiology, University of Minnesota School of Medicine
Title: Molecular Biology of Influenza Virus Neuraminidase
1990 Division of Molecular Virology, Baylor College of Medicine, Houston
Title: Transport and Assembly of Influenza Viral Proteins
1990 Department of Microbiology & Immunology, University of South Carolina School of Medicine
Title: Transport and Assembly of Influenza Virus Proteins
1989 Purdue University College of Veterinary Medicine
Title: Influenza Virus Proteins – Their Transport and Assembly
1989 Department of Pathobiology, University of Wisconsin College of Veterinary Medicine, Madison
Title: Importance of Influenza Virus Hemagglutinin and Neuraminidase in Virus Infection

CONFERENCE TALK & POSTER PRESENTATIONS

2013 Lawrence, R.M., Blake, M. Fromme, R., Chen, L. Fromme, P. Weierstall, U. Hogue, B.G. X-ray lasers in biology Royal Society Meeting, The Royal Society, London, UK. Oct 14 -17.

2013 Esqueda, A., Carrillo, J. Daskalova, S.M., Goryll, M., Hogue, B.G. American Society for Virology 32 Annual Meeting, Pennsylvania State University, University Park

Talk Title: Significance of coronavirus envelope (E) protein ion channel activity on virus assembly.

Carrillo, J., Esqueda, A. Daskalova, S.M., Goryll, M. Hogue, B.G. American Society for Virology 32 Annual Meeting, Pennsylvania State University, University Park

Poster Title: Key amino acid residues of coronavirus envelope (E) proteins are important for ion channel activity.

2012 Venkatagopalan, P., Daskalova, S.M., Epand, R.F., Epand, R.M., Hogue, B.G. American Society for Virology 31st Annual Meeting, University of Wisconsin, Madison, WI.

Talk Title: Insight into the mechanistic role of coronavirus envelope (E) protein in virus assembly.

2011 Arndt, A.L., Venkatagopalan, P., Larson, B.J., Daskalova, S.M., Hogue, B.G., XIIth International Nidovirus Symposium, Traverse City, MI.

Talk Title: Roles of the coronavirus membrane protein in virus assembly.

2011 Venkatagopalan, P., Daskalova, S.M., Faulkner, L.D., Chaplot, N., Smolyanitsky, A., Goryll, M., Hogue, B.G. XIIth International Nidovirus Symposium, Traverse City, MI.

Poster Title: Envelope (E) protein functions during coronavirus assembly.

2011 Venkatagopalan, R., Daskalova, S.M., Hogue, B.G. American Society for Virology 30th Annual Meeting, University of Minnesota, Minneapolis,, MN.

Talk Title: Role of the envelope protein during dynamics of coronavirus assembly.

2010 Dolezal, K.A., Daskalova,, S.M., Hogue, B.G.. American Society for Virology 29th Annual Meeting, Montana State University, Bozeman, MT.

. *Talk Title:* Complementary functional domains in the coronavirus envelope protein.

2010 Arndt, A.L., Larson, B.J. and Hogue, B.G. The Ninth International Symposium on Positive-Strand RNA Viruses.

Talk Title: Role of the Coronavirus Membrane Protein Cytoplasmic Tail in Virus Assembly

2010 Arndt, A.L., Larson, B.J. and Hogue, B.G. American Society for Virology 29th Annual Meeting, Montana State University, Bozeman, MT.

Talk Title: Importance of Charged Residues in the Coronavirus Membrane Protein Tail

2010 Faulkner, L.D., Chaplot, N., Daskalova, S.M., Goryll, M., Hogue, B.G. American Society for Virology 29th Annual Meeting, Montana State University, Bozeman, MT.

Poster Title: Mutant Coronaviruses with Envelope Protein Transmembrane Changes Known to Significantly Affect Virus Growth Also Exhibit Changes in Ion Channel Activity.

2009 Venkatagopalan, P. and Hogue, B.G. American Society for Virology 28th Annual Meeting, U. British Columbia

Talk Title: Coronavirus Envelope Conserved Proline Residues are Important for Virus Production.

2009 Arndt, A.L., Larson, B.J., Altamirano, C.J. and Hogue, B.G. American Society for Virology 28th Annual Meeting. U. British Columbia.

Talk Title: The Role of the Membrane Protein CarboxyTail Conserved Domain in Coronavirus Assembly

2009 Sotomayor-Castro, Y. , Shelhamer, R., Yi, Z. and Hogue, B.G. American Society for Virology 28th Annual Meeting, U. British Columbia

Talk Title: Functional Characterization of Mouse Hepatitis Coronavirus Nucleocapsid Protein Phosphorylation

2009 Dolezal, K.A. and Hogue, B.G. American Society for Virology 28th Annual Meeting, U. British Columbia.

Poster Title: A Proteomics Approach to Identifying Potential Host Protein Ineractions with the Coronavirus Envelope Protein.

2009 Larson, B.J., Dinh, J. Arndt, A.L., Yan, K. Huang, Z. and Hogue, B.G. American Society for Virology 28th Annual Meeting, U. British Columbia.

Poster Title: Construction of Severe Acute Respiratory Syndrome Coronavirus Spike Receptor Binding Domain Fused to Hepatitis B Surface (HBsAg) and Core (HBcAg) Antigens for Vaccine Development.

2009 A.L. Arndt, B.J. Larson, C.J. Altamirano, and B.G. Hogue. American Society for Microbiology Annual Meeting

Poster Title: Function of the Coronavirus Membrane Protein Carboxy Tail Conserved Domain.

2009 Latrice D. Faulkner, Nipun Chaplot, Sashka Daskalova, Michael Goryll, Ph.D., Brenda G. Hogue. Annual Biomedical Research Conference for Minority Students (ABRCMS). Phoenix, AZ.
Poster Title: Biological Significance of Coronavirus Envelope (E) Protein Ion Channel Activity.

2008 Venkatagopalan, P. and Hogue, B.G. American Society for Virology 27th Annual Meeting, Cornell U.
Talk Title: Significance of conserved proline residues in the coronavirus envelope protein

2008 Sotomayor-Castro, Y. and Hogue, B.G. American Society for Virology 27th Annual Meeting, Cornell U.
Talk Title: Functional characterization of mouse hepatitis coronavirus A59 nucleocapsid protein phosphorylation

2008 Arndt, A.L. and Hogue, B.G. American Society for Virology 27th Annual Meeting, Cornell University
Talk Title: Function of the coronavirus membrane protein carboxy tail conserved domain.

2008 Arndt, A.L. and Hogue, B.G. , XIth International Nidovirus Symposium
St. Catherine's College, Oxford University, England
Talk Title: Importance of conserved domain in the coronavirus membrane protein carboxy tail in virus assembly.

2008 Sotomayor-Castro, Y. and Hogue, B.G. XIth International Nidovirus Symposium
St. Catherine's College, Oxford University, England
Poster Title: Functional Significance of Identified Phosphorylation Sites on Mouse Hepatitis Coronavirus A59 Nucleocapsid Protein

2008 Arndt, A.L. and Hogue, B.G. American Society for Microbiology Meeting, Boston, MA
Poster Title: Role of Coronavirus Membrane Protein Carboxy Tail in Virus Assembly

2008 Sotomayoer-Castro, Y. and Hogue, B.G. National Science Foundation Division of Human Resource Development 2008 Joint Annual Meeting, Washington DC
Poster Title: Functional Significance of Identified Phosphorylation Sites on Mouse Hepatitis Coronavirus A59 Nucleocapsid Protein

2007 Lauer J.N. and Hogue, B.G. American Society for Virology 26th Annual Meeting
Talk Ttitle: Coronavirus Polyadenylation and Critical Aspects of Poly(A) Tail Positioning

2007 Jones A.L. and Hogue, B.G. American Society for Virology 26th Annual Meeting
Talk Title: Role of a Highly Conserved domain in the Coronavirus Membrane Protein Carobxy Tail

2006 Lopez L.A., White, T.C. & Hogue, B.G. 25th American Society for Virology Meeting
Talk Title: Subcellular Localization of the Small Envelope Protein of MHV & SARS Coronaviruses

2006 Ye Y., Hauns K., Jacobs B., Hogue B.G. 25th American Society for Virology Meeting, University of Wisconsin, Madison
Talk Title: Coronavirus Alpha/Beta Interferon Antagonists

2006 White T.C., Niederkofler E.E., Bednar V. Sotomayor Y. Nelson R.W., Hogue B.G. 25th American Society for Virology Meeting, University of Wisconsin, Madison
Talk Title: Role of Coronavirus Nucleocapsid Phosphorylation

2006 Ye Y., Hauns K., Jacobs B., Hogue B.G. Keystone Symposium, Viral Immunity, Steamboat Springs, CO
Poster Title: Coronavirus Alpha/Beta Interferon Antagonists

2006 Lopez L.A. & Hogue B.G. American Society for Microbiology 106th General Meeting, Orlando, FL
Poster Title: Importance of Conserved Cysteine Residues in the Small Evenlope Protein of Coronaviruses

2005 Hogue B.G. & Ye Y. XIII international Congress of Virology. San Francisco, CA.
Talk Title: Impact of mouse hepatitis coronavirus on eIF2α phosphorylation

2005 Ye Y. & Hogue B.G. Xth International Nidovirus Symposium, Colorado Springs, CO
Talk Title: Importance of the Mouse Hepatitis Coronavirus A59 Envelope Protein Transmembrane Domains in Envelope Formation and Virus Assembly

2005 Lopez L.A., Arndt W.D., White T.C., Ye Y., Hogue B.G. Xth International Nidovirus Symposium, Colorado Springs, CO
Poster Title: Subcellular Localization of the Small Envelope Protein of MHV and SARS Coronaviruses

2005 Ye Y., Hauns K.D., Jacobs B.L., Hogue B.G. Xth International Nidovirus Symposium, Colorado Springs, CO

Poster Title: Mouse hepatitis coronavirus inhibition of eIF2 alpha phosphorylation: implication for impact on the interfernon pathway

2005 White T.C. & Hogue B.G. Xth International Nidovirus Symposium, Colorado Springs, CO
Poster Title: Mouse Hepatitis Coronavirus Nucleocapsid Phosphorylation

2005 Jones A.L., White T.C., Arndt W.D., Hogue B.G. Xth International Nidovirus Symposium, Colorado Springs, CO
Poster Title: Requirements for SARS-CoV virus-like particle assembly

2004 Lopez L.A., Verma A., Bednar V., Blount A., Hogue B.G. 23rd American Society for Virology Meeting, McGill University, Montreal, Quebec, Canada
Talk Title: Coronavirus membrane-nucleocapsid interactions in virus assembly

2004 Verma S., Lopez L.A., Bednar G., Blount A., Hogue B.G. 7th International Symposium on Positive Strand RNA Viruses, San Francisco, CA
Poster Title: Importance of Charged Amino Acids in Coronavirus Membrane-Nucleocapsid Interactions During Virus Assembly

2003 Verma S., Lopez L.A., Hogue B.G. American Society for Virology Meeting, University of California Davis
Talk Title: Role of the Coronavirus Membrane Protein in Virus Assembly

2003 Verma S., Lopez L.A., Hogue B.G. IXth International Symposium on Nidoviruses, Egmond aan Zee, The Netherlands
Poster Title: Role of the Coronavirus Membrane Protein Carboxy Tail in Virus Assembly.

2001 Spagnolo J.F. & Hogue B.G. 6th International Symposium on Positive Strand RNA Viruses, Institut Pasteur, Paris, France
Poster Title: Requirement of the Poly(A) Tail for Coronavirus RNA Synthesis

2000 Spagnolo J.F. & Hogue B.G. American Society for Virology, Colorado State University, Fort Collins, CO
Talk Title: Tail Extension of Coronavirus DI RNAs With Shortened Poly(A)

2000 Spagnolo J.F. & Hogue B.G. VIIIth International Symposium on Nidoviruses, Lake Harmony, PA
Talk Title: Host Protein Interactions with the 3' UTR and Requirement of the Poly(A) Tail for Coronavirus DI Replication

1999 Hogue B.G. & Spagnolo J.F. International Congress of Virology, Sydney, Australia
Talk Title: Coronavirus 3' noncoding region requirements for DI replication

1999 Spagnolo J.F. & Hogue B.G. 18th American Society for Virology Meeting, University of Massachusetts
Talk Title: Coronavirus 3' Noncoding Region Requirements for DI Replication

1998 Spagnolo J.F. & Hogue B.G. 18th American Society for Virology Meeting, University of British Columbia
Talk Title: Host Protein Interactions With The 3' Noncoding Region of Bovine Coronavirus Genomic RNA

1997 Cologna R. & Hogue B.G. International Symposium on Coronaviruses & Arteriviruses, Segovia, Spain
Talk Title: Coronavirus Nucleocapsid Protein:RNA Interactions

1997 Cologna R. & Hogue B.G. 16th American Society for Virology Meeting, Montana State University
Talk Title: Characterization of Coronavirus Nucleocapsid Protein:RNA Interactions

1996 Cologna R. & Hogue B.G. 15th American Society for Virology Meeting, University of Western Ontario
Talk Title: Coronavirus Nucleocapsid Protein:RNA Interactions

1996 Nguyen V.P. & Hogue B.G. 15th American Society for Virology Meeting, University of Western Ontario
Talk Title: Interactions Between Viral Proteins During Coronavirus Assembly

1995 Hogue, B.G. 14th American Society for Virology Meeting, University of Texas at Austin
Talk Title: Coronavirus Nucleocapsid Protein Processing

1994 Hogue B.G. International Symposium on Corona & Related Viruses, Quebec City, Quebec
Talk Title: Bovine coronavirus nucleocapsid protein processing and assembly.

1994 Hogue B.G. and Cologna R.J. 13th American Society for Virology Meeting, University of Wisconsin
Talk Title: Bovine Coronavirus Nucleocapsid Protein Processing & Assembly

1993 Hogue B.G. IXth International Congress of Virology, Glasgow, Scotland
Talk Title: Multiple phosphorylated forms of the bovine coronavirus nucleocapsid protein

1989 Hogue B.G. International Symposium on Coronaviruses, Cambridge, England
Talk Title: Expression of the procine transmissible gastroenteritis coronavirus M protein

1987 Hogue B.G. International Coronavirus Symposium, Asilomar, CA
Talk Title: Glycosylation of the bovine coronavirus hemagglutinin protein

NATIONAL & INTERNATIONAL MEETING SESSIONS CHAIRED

2011 30th Annual American Society for Virology Meeting, Minneapolis, MN
2010 29th Annual American Society for Virology Meeting, Bozeman, MT
2009 28th Annual American Society for Virology Meeting, Vancouver, British Columbia, Canada
2006 25th Annual American Society for Virology Meeting, Madison, WI
2005 International Nidovirus Symposium, Colorodo Springs, CO
2000 International Symposium on Nidoviruses, Lake Harmony, PA
1996 15th American Society for Virology, University of Western Ontario, London, Ontario
1989 International Symposium on Coronaviruses, Cambridge, England

UNIVERSITY TEACHING

ASU Courses Taught (Student evaluation average rating in brackets, Scale: 1 – Excellent, 2 – Very Good, 3 – Good, 4 – Fair, 5 - Poor)

2013	MIC 485/598, MCB 598		Molecular Virology, 3 credits, 40 students
2013	Bio 598		PREO for Biomedical Research, 9 students
2012	MIC 485/598, MCB 598		Molecular Virology, 3 credits, 35 students
2012	Bio 598		PREP for Biomedical Research, 8 students
2011	MIC 485/598, MCB 498	[1.7]	Molecular Virology, 3 credits, 23 students
2011	Bio 598		PREP for Biomedical Research, 6 students
2010	MIC 485/598, MCB 498		Molecular Virology, 3 credits, 38 students,
2010	Bio 598		PREP for Biomedical Research, 11 students (Jan – May, Aug – Dec)
2009	MIC 485/598, MCB 598		Molecular Virology, 3 credits, 28 students, 23/30 classes (Aug-Dec)
2009	Bio 598		PREP for Biomedical Research, 12 students, (Jan – May, Aug-Dec)
2008	MIC 485/598		Molecular Virology, 3 credits, 29 students, 23/29 classes (Jan-May)
2007	MIC 598		Viral Pathogenesis, 3 credits, 12 students, 30/30 classes (Aug-Dec)
2006	MIC 485/598	[2.09]	Molecular Virology, 3 credits, 30 students, 28/30 lectures (Jan-May)
2005	MIC 485/598	[1.86]	Molecular Virology, 3 credits, 38 student, 25/29 lectures (Jan-May)
2004	MIC 598	[1.25]	Viral Pathogenesis, 3 credits, 9 students, 30/30 classes (Jan-May)
2003	MIC 598	[1.15]	Viral Pathogenesis, 3 credits, 7 students, 30/30 classes (Jan-May)
2002	MIC 485/598	[2.59]	Molecular Virology, 3 credits, 22 students 24/30 lectures (Aug-Dec)
2002	MIC 381	[2.02]	Pathogenic Microbes, 3 credits, 25 students, 14/29 lectures (Mar-May)

Baylor College of Medicine Lectures

(Graduate Level)
1994 – 2001 Replication and Gene Expression in Viral Systems, 3-4 lectures
1995 – 2000 Viral Pathogenesis – 3 lectures
1993 – 1995 Experimental Virology – 3 lectures
1993 – 1995 Infection and Immunity – 4 lectures

(Medical Student)
1992-1996 Medical Microbiology/Virology Lab Discussion Sessions
Facilitator in Integrated Problem Solving/Case Based Sessions

Other Teaching

1981 – 1982 University of Tennessee College of Veterinary Medicine
Veterinary Virology Lab
1980 – 1981 Department of Microbiology, University of Tennessee, Knoxville
Graduate Teaching Assistant, General Microbiology

CURRICULUM DEVELOPMENT

2002 Developed a new graduate level course - ASU
Viral Pathogenesis and Host Defenses (MIC 498)

1998 Member, Committee Chaired by Dr. Wah Chiu, Baylor College of Medicine, National Center Macromolecular Imaging project to develop a computer-based, interactive setup for the Medical Science Museum, Houston, with the goal to teach the general public about viruses and other microorganisms

1997 Curriculum Development Committee for the "Molecules" series in the Graduate School Core Curriculum – Baylor College of Medicine

NON-DIDACTIC TEACHING

2002 – 2003 Organized Department of Microbiology Seminar Series – ASU

WORKSHOPS ATTENDED FOR TEACHING/MENTORING DEVELOPMENT

2002 Minority Graduate Education at Mountain States Alliance (MGE@MSA)
Arizona Faculty Doctoral Mentoring Institute

POSTDOCTORAL ASSOCIATES/FELLOWS/RESEARCH ASSOCIATES MENTORED

2011- present	Daskalova, Sasha, Ph.D., Research Associate
2011- 2012	Katrina Doerner, Ph.D.
2011-present	Robert Lawrence, Ph.D.
2008– 2010	Daskalova, Sasha, Ph.D.
2008 – 2010	Yan, Kexia, M.D., Ph.D.
2008 – 2009	Wang, Xuanjun, Ph.D.
2002 – 2005	Sandhya Verma, Ph.D.
	Current Position: Instructor, DeVry University Phoenix

VISITING SCHOLARS HOSTED

2002 – 2003 Hyo-Ihl Chang, Ph.D., Professor, Graduate School of Biotechnology, Korea University

GRADAUTE STUDENTS MENTORED - ASU

2006 – Present Adrian Esqueda, Molecular Cellular Biology Ph.D.

Previous Graduate Students – ASU

2006 – 5/2012	Pavithra Venkatagopalan, Microbiology Ph.D.
	Current Position: AIDS Education, India
2004 – 12/2010	Ariel Jones, Microbiology Ph.D. NIH Predoctoral NRSA Fellowship, F31AI075538 NSF Louis Stokes Alliances for Minority Participation Bridge to the Doctorate Fellowship, 2004 – 2006 NSF Graduate Research Fellowship Program Honorable Mention, 2006 *Current Position:* Postdoctoral Trainee, University of New Mexico
2008 – 05/2010	Kelly Dolezal, Microbiology Masters in Passing
	Arizona Foundation Fellowship
	Current Position: Community College Lecturer, Technician in a ASU laboratory
2007 – 12/2009	Yaralid Sotomayor-Castro, Microbiology M.S.
	NSF Louis Stokes Alliances for Minority Participation Bridge to the Doctorate Fellowship
	Current Position: Technician, University of Arizona College of Medicine-Phoenix

2008 – 2009	Joseph Poliquin
	Current Position.
2002 – 2007	Ye Ye, Microbiology Ph.D.
	Current Position: Business Development Intern, Osprey Pharmaceuticals
2002 – 2007	Lisa Lopez, Molecular Cell Biology Ph.D. Robert D. Watkins Graduate Research Fellowship American Society for Microbiology (2005-2007) National Hispanic Scholarship (2001-2004) *Current Position:* Postdoc-Children's Hospital Los Angeles
2004 – 2007	Jarrod Lauer, MCB M.S. University Graduate Scholar Award *Current Position:* Local software development company
2004 – 2006	Tiana White, Molecular Cell Biology M.S. Western Alliance to Expand Student Opportunities (WAESO)
	Bridge to the Doctorate Fellowship 2004-2006
	Current Position: Research Technician, Biodesign Institute, ASU
2003 – 2004	Louisa McConnell MSN Microbiology
	Current Position: Marketing, Invitrogen
2003 – 2005	Douglas Gardner, M.S. Microbiology
	Thesis Title: Construction of Mouse Hepatitis Coronavirus A59 Viruses with Mutations at Conserved Cysteine Residues in the Small Envelope Protein
	Current Position: Ph.D. Student, Idaho State University

Previous Graduate Students - Baylor College of Medicine

1997 – 2002	Jeannie Spagnolo, Ph.D. *Dissertation Title:* Coronavirus Genome Replication: Examination of Host Protein Interactions and 3' UTR Requirements. *Current position:* Senior Scientist Bio-Rad Laboratories
1994 – 1999	Raymond Cologna, Ph.D. *Dissertation Title:* Identification of a Bovine Coronavirus Packaging Signal and Examination of Coronavirus Nucleocapsid Protein-RNA Interactions. *Current position:* Staff Virologist, American Type Culture Collection
1994 – 1998	Vinh-Phuc Nguyen, Ph.D. *Dissertation Title:* Characterization of Protein Interactions and Establishment of a Coexpression System to Study Coronavirus Assembly *Current position:* Research Fellow, National Cancer Institute

Postbaccalaureate Research Education Program (PREP) Student - Mentor

2013 – present	Mellecha Blake, B.S. Arizona State University
2012 – present	Lynn St. Thomas, B.S. Arizona State University
2011 – 2012	Leah Thomas, B.S. University of Arizona
2008 – 07/2010	Latrice Faulkner, B.S., Kentucky State University
2008 – 2009	Christopher Altamarino, B.S., Arizona State University
2005 – 2007	Yaralid Sotomayor-Castro, B.S., University of Puerto Rico at Mayaguez

UNDERGRADUATE STUDENTS MENTORED

ASU

2013 – present	Rika Matsumoto	
2011-present	Jonathan Carillo	Barrett Honors College Thesis
2011-2012	Lilian Serpas	

2011	Samathna Tompson	
	Current Position: Pharmacy Technician, Pharmacy School Applicant	
2010 – 2011	Heather Thompson	Barrett Honors College
2010	Chase Blackford	
2007-2010	Blake Larson	ASU Provost Scholar & SOLAR Researcher
	Current Position: Pharmacy School, Oregon Health Sciences	
2007-2010	Ryan Shelhamer	Barrett Honors College
	Current Position: University of Arizona Medical School	
2007	Jennifer Dinh	
	Current Position: Technician at TGen	
2007	Matthew Walker	
2006 – 2007	Nicholas Stygles	Barrett Honors College
2006	Angel Morrow	MARC
	Current Position: Graduate Student at Georgetown University	
2002 – 2006	Benjamin Pate	Barrett Honors College
	Thesis Title: Requirement of the Coronavirus 3' Poly(A) Tail for Replication	
	Position after leaving the lab: University of Arizona Medical School	
2005 – 2006	Steven Lee Pike	
	Position after leaving the lab: University of Arizona Medical School	
2002 – 2004	Andrew Blount	Barrett Honors College
	Thesis Title: Assay of Carboxy-terminal Nucleocapsid Charged Residue Function in Coronavirus Assembly	
	Position after leaving the lab: University of Arizona Medical School	
2002 – 2004	Valerie Bednar	Barrett Honors College
	Thesis Title: Assay of Carboxy-terminal Nucleocapsid Charged Residue Function in Coronavirus Assembly	
	Current Position: Nurse	
2002 – 2003	Karen Malone	
	Current Position: Postdoctoral Trainee	
2002 – 2003	Philip Nemeth	
	Current Position: Technician, Arizona Department of Public Health	

Graduates Students & Undergraduates Mentored – Other Institutions

2007 & 2008	Ambere Riffle	New Mexico Tech,
	NIH NIDDK Summer STEP-UP Undergraduate Fellow	
2007	Stephanie Melbourne	Howard University
	NIH NIDDK Summer Medical Student Fellow	

Undergraduate Honors Thesis Committees

2010	Chelsea Russ
2003	Jasmine Moffett
2001	Suzanne Marie Michele

Undergraduate MIC 401 Paper Mentor

2012	Christopher Yap
2012	Lilian Serpas
2011	Asad Jada

2011	Joe Martin
2009	Blake Larson
2008	Ryan Shelhamer
2007	Jennifer Dinh
2007	Matthew Walker
2006	Bryce Moody
2003	Jennifer Walker
2002	Karen Malone

Baylor College of Medicine Summer Undergraduates

1992	Lavernon Trylor, SMART Program
1991	Pauline Ng, SMART Program
1997	Karla Smith, SMART Program

MEMBER OF GRADUATE RESEARCH COMMITTEES

ASU - Current

2007 – present	Trung C. Phuo Huynh, Molecular Cell Biology, Ph.D.
2007 – 2011	Sarah Kessens, Biological Design, Ph.D.
2005 – 2011	Susan Holechek, MCB Ph.D.

ASU Previous

2007 - 2010	Emily Richter, Microbiology, MS
2007 – 2009	Shuk Mei Lantzer, Molecular Cell Biology, MS
2007 – 2008	Namrata Shah, MS
2006 – 2008	Irene Cherni, MS
2003 – 2008	Stacy Frederick, Microbiology Ph.D.
2003 – 2008	Kevin Hauns, MCB Ph.D.
2003 – 2008	Jeffrey Wilkinson, Microbiology, Ph.D.
2005 – 2007	Jason Cameron, MCB Ph.D.
2004 – 2006	Kip Conwell, Microbiology M. S.
2002 – 2007	James Janocovich, Microbiology, Ph.D.
2002 – 2004	Garilyn Jentarra, ,Microbiology, Ph.D.
2002 – 2004	Chandra Mitnik, Microbiology, Ph.D.
2002 – 2003	David Tierney, Microbiology MS

Baylor College of Medicine and Others

2001 – 2002	Carlos Rivera, Molecular Virology Ph.D.
2001 – 2002	JuanTafu Chang , SCMB Program Ph.D.
1999 – 2003	Muge Kuyumcu, Molecular Virology Ph.D.
1999 – 2002	Monica Schertler, Molecular Virology Ph.D.
1999 – 2001	Rong Chen , Biochemistry Ph.D.
1998 – 2002	Zuzana Berkova , Molecular Virology Ph.D.
1998 – 2002	Brad Pesavento, Biochemistry Ph.D.
1998 – 2002	Audra Rowan, Molecular Virology Ph.D.
1998 – 2002	Hari Jayaram, Biochemistry Ph.D.
1996 – 2002	Pam Glass, Molecular Virology Ph.D.
2000 – 2002	Heather Yanites, Molecular Virology & Micro Ph.D.
1996 – 1998	Mark Goff, Molecular Virology MS
1995 – 2000	Christy O'Neal, Molecular Virology Ph.D.
1994 – 1997	Mingdong Zhang, Molecular Virology Ph.D.
1993 – 1997	Sararjot Singh, Molecular Virology Ph.D.

1992 – 1997	Jenny Henkel, Molecular Virology Ph.D.
1992 – 1997	Sherry Becker, Molecular Virology Ph.D.
1991 – 1996	Steve Ressler, Molecular Virology Ph.D.
1991 – 1995	Sanjeeda Jafar, Molecular Virology Ph.D.
1991 – 1995	Wei Yu, Molecular Virology (UT Health Sciences, Houston)
1991 – 1994	Xin Yu, Molecular Virology, (UT Health Sciences, Houston)
1991 – 1994	Attibela Nagendra, Microbiology Ph.D.

GRADUATE STUDENT ROTATIONS - BCM

Molecular Virology - Wade Harlan, CMB (2001), Richard Haaland (2000), Margaret Kauffman (2000), Stephanie Moses (1999), Kris Frese (1999), Audra Rowan (1998), Muge Kuyumcu (1998), Monica Schertler (1998), Andrea Bertolotti-Ciarlet (1998), Linda Ward (1997), Alexey Gordadze (1997), Sid Gilpatrick (1997), Stephen Storey (1996), Eric Mossel (1996), Jeannie Spagnolo (1996), Shyan-Yuan Kao (1996), Daren Rice (1996), Pam Glass (1995), Vinh-Phuc Nguyen (1994), Raymond Cologna (1993)
Microbiology & Immunology – Hether Yanites (2000), Erin Stout (1999), Helen Anderson (1997), Micheau Mason (1996), Sharon Polidoro (1994), Elizabeth Pham (1994), Susan Olson (1992)

SERVICE

School of Life Sciences Committees

ASU

2011 – present	Director Microbiology Graduate Program
2008-present	Molecular Cellular Biology Graduate Programs Executive Committee
2007- 2010	*Chair*, Center for Infectious Diseases and Vaccinology Seminar Committee
2007-present	*Member*, Microbiology Graduate Programs and Admissions Committee
2007-2011	*Member*, Molecular Cellular Biology Graduate Admissions Committee
2003 – 2004	*Member*, School of Life Sciences Graduate Programs Committee
2004	*Member*, School of Life Sciences Faculty Search Committee
2003	*Member*, School of Life Sciences Faculty Search Committee

Baylor College of Medicine

2000 – 2001	*Member*, Department of Molecular Virology & Microbiology Retreat Planning Committee
2000	*Member*, Department of Molecular Virology & Microbiology Departmental Brochure Design Committee
2000 – 2001	*Member*, Department of Molecular Virology & Microbiology Qualifying Exam Committee
2001 – 2002	*Member*, Cell & Molecular Biology Program Qualifying Exam
1998 – 1999	*Member*, Division of Molecular Virology Qualifying Exam Committee
1995 – 1996	
1998	*Member*, Department of Microbiology & Immunology Qualifying Exam Committee
1993 – 1994	*Member*, Neurovirology & Neuroimmunology Steering Committee
1992 – 1996	*Member*, Department of Microbiology & Immunology Graduate Recruitment Committee

Institutional Committees

ASU

2011	*Member*, School of Life Sciences Metabolomics Faculty Search Committee
2011	*Member*, School of Life Sciences Immunology Faculty Search Committee
2010	*Member*, School of Life Sciences Virology Faculty Search Committee
2010	*Member*, School of Life Sciences Immunology Faculty Search Committee
2006	*Member*, Vice Provost for Academic Affairs Committee for Development of Postdoctoral Policies
2003	*Member*, School of Life Sciences Director Search Committee
2003	*Member*, School of Life Sciences Associate Directors Search Committee
2002 – 2003	*Member*, School of Life Sciences Graduate Programs Reorganization Subcommittee
2002 – 2003	*Member*, School of Life Sciences Reorganization Steering Committee

Baylor College of Medicine

1998 – 2002 *Member*, Recombinant DNA Subcommittee
2000 – 2002 *Member*, Graduate School Admissions Committee

National and International Committees/Panels

2013-14 XIIIth Internation Nidovirus Symposium Organizing Committee, Salamanca, Spain
2013-15 American Society for Virology Program Planning Committee
2013 University of Texas San Antonio Biological Science Programs Review Panel
2010-11 XIIth International Nidovirus Symposium Scientific Program Committee, Traverse City, MI
2008 – present *Advisory Board Member*, Region IX Center for Excellence in Biodefense and Emerging Infections, (NIH proposal pending, PI - Robert C. Liddington, Burnham Institute for Medical Research)
2001 – 2005 *Member*, American Society for Virology Membership Committee
2004 *Invited Panel Member*, SARS-Coronaviruses and Highly Pathogenic Influenza Viruses Laboratory Safety and Occupational Health
Wadsworth Center David Axelrod Institute for Public Health, NY State Department of Public Health, Albany, NY
2003 *Invited Participant*, Coronavirus consultant during SARS outbreak
Centers for Disease Control SARS Lab Discussion Group