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EDUCATION

2004 – 2008	Postdoc	University of North Carolina at Chapel Hill, NC, USA Advisor: Dr. Cam Patterson	Cell Biology
2000 – 2004	Postdoc	National Institutes of Health (NIAID), MD, USA Advisor: Dr. Jonathan W. Yewdell	Cell Biology
1997 – 2000	Ph.D.	Shanghai Jiaotong University, P. R. China Advisor: Dr. Shi-Shu Chen	Biochemistry
1994 – 1997	M.Sc.	Shanghai Jiaotong University, P. R. China	Molecular Biology

ACADEMIC APPOINTMENTS

2018 – Present	James Jamison Professor Division of Nutritional Sciences, Cornell University, Ithaca, NY
2014 – 2019	Associate Professor Division of Nutritional Sciences, Cornell University, Ithaca, NY
2008 – 2014	Assistant Professor Division of Nutritional Sciences, Cornell University, Ithaca, NY
2004 – 2008	Research Fellow (postdoc) Carolina Cardiovascular Biology Center, University of North Carolina, Chapel Hill, NC
2000 – 2004	Visiting Fellow (postdoc) Cell Biology Section, Laboratory of Viral Diseases, NIAID, NIH, Bethesda, MD
1997 – 2000	Lecturer Department of Biochemistry & Molecular Biology, Shanghai Jiaotong University Shanghai, P. R. China

HONORS AND AWARDS

2020	NIH Director's Pioneer Award , National Institutes of Health
2016	HHMI Faculty Scholar , Howard Hughes Medical Institute
2014	DOD Idea Award , Congressionally Directed Medical Research Programs
2013	Peter J. Reeds Young Investigator Award , American Association of Nutrition
2010	DOD Exploration-Hypothesis Development Award , Congressionally Directed Medical Research Programs
2009	NIH Director's New Innovator Award , National Institutes of Health
2009	EMF New Scholar Award , Ellison Medical Foundation
2003	FARE 2004 , NIH Fellows Award for Research Excellence, National Institutes of Health
2002	FARE 2003 , NIH Fellows Award for Research Excellence, National Institutes of Health
1999	National Baogang Fellowship , Department of Education, China

PROFESSIONAL SOCIETIES

2016	American Association for the Advancement of Science (AAAS)
2015	RNA Society
2011	American Society of Nutrition (ASN)

2010 American Society for Biochemistry and Molecular Biology (ASBMB)

EDITORIAL BOARD

2018 – present Editorial Board Member, *J Biol Chem*

JOURNAL ARTICLE REVIEWER

Nature (2)	Cell (3)	Science (1)
Nature Chemical Biology (3)	Molecular Cell (18)	eLife (5)
Nature Structural & Molecular Biology (6)	Cell Reports (7)	RNA (4)
Nature Cell Biology (6)	Cell Metabolism (1)	Nucleic Acid Research (10)
Nature Methods (2)	Plant Cell (1)	Molecular & Cellular Biology (1)
Nature Communications (25)	EMBO J (1)	Genome Biology (4)
Nature Protocol (3)	EMBO Report (2)	Aging Cell (1)
Nature Review MCB (1)	Bioinformatics (1)	Journal of Immunology (1)
Nature Review Genetics (1)	BMC Genomics (1)	WIREs RNA (2)
Scientific Reports (1)	PLOS One (2)	Oncotarget (1)
J Biol Chem (35)	PLOS Pathogen (1)	Current Biology (1)
Open Biology (1)	PLOS Computational Biology (1)	Advances in Nutrition (1)
Journal of Cell Stress and Chaperone (1)	PLOS Genetics (1)	RNA Biol (1)
J Mol Cell Biol (1)	TiBS (1)	Science Advance (2)
Genes Dev (2)	Genome Res (1)	Mol Sys Biol (1)
Dev Cell (1)	Proc Natl Acad Sci USA (4)	

GRANT PANELS

2020 US National Institutes of Health (NIH Director's New Innovator Award)
 US National Institutes of Health (NIGMS K99/R00)
 US National Institutes of Health (NIH study section: MGB)

2019 US National Institutes of Health (NIH Director's New Innovator Award: ZRG1-MOSS-R70)
 European Research Council (Consolidation Grant)

2018 US Department of Defense (TSC Research Program)
 European Research Council (Advanced Grant)
 US National Institutes of Health (NIH study section: CAMP)
 Cancer Research UK (Expert Review Panel)
 US National Institutes of Health (NIH study section: NDPR)
 French National Research Agency (ANR)

2017 W. M. Keck Foundation
 European Research Council (Consolidation Grant)
 US National Institutes of Health (NIH study section: CAMP)

2016 Helmholtz Association (Young Investigator Award)
 French National Research Agency (ANR)
 European Research Council (Advanced Grant)
 US National Institutes of Health (NIH, study section: ZRG1)

2015 UK Biotechnology and Biological Sciences Research Council (BBSRC)
 US National Science Foundation (MCB)

2014 Israel Science Foundation (ISF)
 Wellcome Trust (Sir Henry Dale Fellowship)

2013 US Department of Agriculture (Human Nutrition)
 UK Medical Research Council (MRC)
 Israel Science Foundation (ISF)
 US National Institutes of Health (NIH, study section: CMAD)

2012 Human Frontier Science Program (HFSP)
 US Department of Defense (TSC Research Program)

SERVICE TO CORNELL UNIVERSITY

2017	Genome Biology Initiative Task Force, Cornell University
2014	Graduate field of Biological and Biomedical Sciences (BBS), Cornell University
2012	Leadership Program for Veterinary Students, Cornell University
2010	Chemical Biology Interface (CBI) program, Cornell University
2010	Graduate field of Biochemistry, Molecular and Cellular Biology (BMCB), Cornell University
2009	Center for Vertebrate Genomics, Cornell University
2009	Graduate field of Genetics, Genomics & Development (GGD), Cornell University
2008	Graduate field of Nutritional Sciences (NS), Cornell University

SERVICE TO THE DEPARTMENT

2019	Executive Committee, Nutritional Sciences, Cornell University
2019	Appoint & Tenure Committee, Nutritional Sciences, Cornell University
2017 - 2019	Graduate Admission Committee, Nutritional Sciences, Cornell University
2016 - 2018	Faculty Search Committee, Division of Nutritional Sciences, Cornell University
2015 - 2016	Awards and Nominations Committee, Division of Nutritional Sciences, Cornell University
2014 - 2016	Graduate Admission Committee, Biochemistry Molecular and Cellular Biology, Cornell University
2013 - 2016	Seminar Committee, Division of Nutritional Sciences, Cornell University
2011 - 2014	Curriculum Committee, Division of Nutritional Sciences, Cornell University
2010 - 2012	Graduate Admission Committee, Nutritional Sciences, Cornell University

PUBLICATIONS

PDF: <http://qian.human.cornell.edu/Publications.htm>

Google Scholar: <https://scholar.google.com/citations?user=JO4hmo4AAAAJ&hl=en>

Total citations (as of this month): 15658; *h*-index: 36; *i10*-index: 49

Peer-Reviewed Publications (corresponding author)*

1. Mao Y, Jia L, Dong L, Shu XE, and Qian SB*. Start codon-associated ribosomal frameshifting mediates nutrient stress adaptation. (submitted)
2. Swanda RV, Dong L, Mao Y, Yan J, Dong Y, and Qian SB*. Lysosomal cystine governs ferroptosis sensitivity via AhR-mediated cysteine stress response. (submitted)
3. Peng S, Mao Y, Qian SB, Deng J, and Xiang Y. Structure and function of an effector domain in antiviral factors and tumor suppressors SAMD9 and SAMD9L. **Proc Natl Acad Sci USA** 2022; (in press)
4. Shu XE, Mao Y, and Qian SB*. Dynamic O-GlcNAcylation of eIF3a controls translation reinitiation by orchestrating eIF3-80S association during integrated stress response. **Nat Chem Biol** 2021; (In press)
5. Gu Y, Mao Y, Jia L, Dong L, and Qian SB*. Bi-directional ribosome scanning controls the stringency of start codon selection. **Nat Commun** 2021; 12(1):6604
➤ Highlighted in **Faculty Opinions**
6. Jia L and Qian SB. Therapeutic mRNA engineering from head to tail. **Account Chem Res** 2021; 54(23):4272-4282.
7. Jobava R, Mao Y, Guan BJ, Krokowski, Shu XE, Hu D, Chukwurah E, Wu J, Zagore L, Merrick W, Zhang Y, Qi X, Jankowsky E, Toposorovic I, Licatalosi D, Qian SB, and Hatzoglou M*. Discovery of adaptive pausing as a translational control mechanism to survive severe environmental stress. **Mol Cell** 2021; 81(20):4191-4208
8. Ji Q, Zong X, Mao Y, Qian SB. A heat shock-responsive lncRNA Heat acts as a HSF1-directed transcriptional brake via m6A modification. **Proc Natl Acad Sci USA** 2021; 118(25): e2102175118
9. Zhang Y, Swanda RV, Liu X, Lee H, Lei G, Mao C, Koppula P, Cheng W, Zhang J, Xiao Z, Zhuang L, Fang B, Qian SB, and Gan B*. mTORC1 couples cyst(e)ine availability with GPX4 protein synthesis and ferroptosis regulation. **Nat Commun** 2021; 12(1):1589.
10. Dong L, Mao Y, Zhou A, Liu XM, Zhou J, Wan, J, and Qian SB*. Relaxed initiation pausing of ribosomes drives oncogenic translation. **Sci Adv** 2021; 17;7(8): eabd6927.

11. Jia L and [Qian SB](#). A Versatile eIF3d in Translational Control of Stress Adaptation. **Mol Cell** 2021; 81(1):10-12.
12. Liu XM, Wang S, Gan X, [Qian SB](#), Zhou J. Fluorescein-based monitoring of RNA N6-methyladenosine at single-nucleotide resolution. **J Mol Cell Biol** 2020; doi: 10.1093/jmcb/mjaa057
13. Mittenbühler MJ, Saedler K, Nolte H, Kern L, Zhou J, [Qian SB](#), Meder L, Ullrich RT, Brüning JC, Wunderlich FT*. Hepatic FTO is dispensable for the regulation of metabolism but counteracts HCC development in vivo. **Mol Metab** 2020; 42:101085.
14. Jia L, Mao Y, Ji Q, Dersh D, Yewdell JW, [Qian SB*](#). Decoding mRNA translatability and stability from the 5'UTR. **Nat Struct Mol Biol** 2020; 27(9):814-821.
 - Highlighted in **News & Views**
15. Shu XE, Swanda RV, [Qian SB*](#). Nutrient control of mRNA translation. **Annu Rev Nutr** 2020; 40:51-75.
16. Marker SC, King AP, Swanda RV, Vaughn B, Boros E, [Qian SB](#), Wilson JJ*. Exploring ovarian cancer cell resistance to rhenium anticancer complexes. **Angew Chem Int Ed Engl** 2020; 59(32):13391-13400.
17. Hu Y, Feng Y, Zhang L, Jia Y, Cai D, [Qian SB](#), Du M, Zhao R*. GR-mediated FTO transactivation induces lipid accumulation in hepatocytes via demethylation of m6A on lipogenic mRNAs. **RNA Biol** 2020; 17(7):930-942.
18. Liu XM, [Qian SB*](#). Linking m6A to Wnt signaling. **EMBO Rep.** 2020; 21(4):e50097.
19. Orr MW, Mao Y, Storz G*, [Qian SB*](#). Alternative ORFs and small ORFs: shedding light on the dark proteome. **Nucleic Acids Res** 2020; 48(3):1029-1042.
20. Mao Y, [Qian SB*](#). Ribosome-guided piRNA production. **Nat Cell Biol** 2020; 22(2):141-142
21. Mao Y, Dong L, Liu XM, Guo J, Ma H, Shen B, [Qian SB*](#). m6A in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. **Nat Commun** 2019; 10(1):5332
22. Liu XM, Zhou J, Mao Y, Ji Q, [Qian SB*](#). Programmable RNA N6-methyladenosine editing using CRISPR/Cas9 conjugates. **Nat Chem Biol** 2019; 15(9):865-871
 - Highlighted in **News & Views**
23. King AP, Marker SC, Swanda RV, Woods JJ, [Qian SB](#), Wilson JJ*. A rhenium isonitrile complex induces unfolded protein response-mediated apoptosis in cancer cells. **Chemistry** 2019; 25(39):9206-9210
24. Wei J, Kishton RJ, Angel M, Conn CS, Dalla-Venezia N, Marcel V, Vincent A, Catez F, Ferré S, Ayadi L, Marchand V, Dersh D, Gibbs JS, Ivanov IP, Fridlyand N, Couté Y, Diaz JJ, [Qian SB](#), Staudt LM, Restifo NP, Yewdell JW*. Ribosomal Proteins Regulate MHC Class I Peptide Generation for Immunosurveillance. **Mol Cell** 2019; 73(6):1162-1173.
25. Liu X-M and [Qian SB*](#). Assembly *en route*. **Nat Struct Mol Biol** 2019; 26(2):89-91
26. Xi R, Kadur Lakshminarasimha Murthy P, Tung KL, Guy CD, Wan J, Li F, Wang Z, Li X, Varanko A, Rakhilin N, Xin Y, Liu B, [Qian SB](#), Su L, Han Y, Shen X*. SENP3-mediated host defense response contains HBV replication and restores protein synthesis. **PLOS One** 2019; 14(1):e0209179
27. Wan J, Gao X, Mao Y, Zhang X, [Qian SB*](#). A coding sequence-embedded principle governs translational reading frame fidelity. **Research** 2018; 1 – 15.
28. Zhang X, Shu XE, [Qian SB*](#). O-GlcNAc modification of eIF4GI acts as a translational switch in heat shock response. **Nat Chem Biol** 2018; 14(10):909-916.
29. Anders M, Chelysheva I, Goebel I, Trenkner T, Zhou J, Mao Y, Verzini S, [Qian SB](#), Ignatova Z*. Dynamic m6A methylation facilitates mRNA triaging to stress granules. **Life Sci Alliance** 2018; 1(4):e201800113
30. Mazor KM, Dong L, Mao Y, Swanda RV, [Qian SB](#), Stipanuk MH*. Effects of single amino acid deficiency on mRNA translation are markedly different for methionine versus leucine. **Sci Reports** 2018; 8(1):8076.
31. Zhou J, Wan J, Xin ES, Mao Y, Liu XM, Xin Y, Zhang X, Martin EH, Jens CB, and [Qian SB*](#). 6-Methyladenosine Guides mRNA Alternative Translation during Integrated Stress Response. **Mol Cell** 2018; 69(4):636-647.
 - Highlighted in **Previews**
 - Featured on the **Cover**

32. Li X, Xiong X, Chen Y, Zhang M, Wang K, Zhou J, Mao Y, Yi D, Chen X-W, Wang C, [Qian SB](#), and Yi C*. Single-nucleotide resolution mapping reveals distinct classes of *N*¹-methyladenosine methylome in nuclear- and mitochondrial-encoded transcripts. **Mol Cell** 2017; 68(5):993-1005.
 - Highlighted in **Previews**
33. Coats RA, Liu XM, Mao Y, Dong L, Zhou J, Wan J, Zhang X, [Qian SB](#)*. m⁶A facilitates eIF4F-independent mRNA translation. **Mol Cell** 2017; 68(3):504-514.
34. Tang L, Morris J, Wan J, Moore C, Fujita Y, Gilaspie S, Aube E, Nanda J, Marques M, Jangal M, Anderson A, Cox C, Hiraishi H, Dong L, Saito H, Singh CR, Witcher M, Topisirovic I, [Qian SB](#), and Asano K*. Competition between translation initiation factor eIF5 and its mimic protein 5MP determines non-AUG initiation rate genome-wide. **Nucleic Acids Res** 2017; 45(20):11941-11953
35. Saikia M*, Wang X, Mao Y, Wan J, Pan T and [Qian SB](#)*. Codon optimality controls differential mRNA translation during amino acid starvation. **RNA** 2016; 22(11):1719-1727
36. Liu B and [Qian SB](#)*. Characterizing inactive ribosomes in translational profiling. **Translation** 2016 4(1):e1138018
37. [Qian SB](#). Step back for seminal translation. **Nat Struct Mol Biol** 2016; 232(5):362-3
38. Zhou J, Rode KA, and [Qian SB](#)*. m⁶A: A novel hallmark of translation. **Cell Cycle** 2015; 10:1-2
39. Meyer KD, Patil DP, Zhou J, Zinoviev A, Skabkin MA, Elemento O, Pestova TV, [Qian SB](#) and Jaffrey SR*. 5' UTR m⁶A promotes cap-independent translation. **Cell** 2015; 163(4):999-1010
40. Zhou J, Wan J, Gao X, Zhang X and [Qian SB](#)*. Dynamic m⁶A mRNA methylation directs translational regulation of heat shock response. **Nature** 2015; 526(7574):591-4
 - Highlighted in **Nat Chem Biol**
 - Recommended by **Faculty 1000**
41. Gao X, Wan J, and [Qian SB](#)*. Genome-wide profiling of alternative translation initiation sites. **Methods Mol Biol** 2016; 1358:303-16
42. Wei S and [Qian SB](#)*. Ribosome profiling: principles and variations. **eLS** 2015 John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0025984
43. Zhang X, Gao X, Roots RA, Conn CS, Liu B, and [Qian SB](#)*. Translational control of cytosolic stress proteins by mitochondrial ribosomal protein L18. **Nat Struct Mol Biol** 2015; 22(5):404-10
 - Featured on News and Views of **Nat Struct Mol Biol**
 - Highlighted in **Science**
44. Bettencourt C1, de Yébenes JG, López-Sendón JL, Shomroni O, Zhang X, [Qian SB](#), Bakker IM, Heetveld S, Ros R, Quintáns B, Sobrido MJ, Bevova MR, Jain S, Bugiani M, Heutink P, Rizzu P*. Clinical and neuropathological features of spastic ataxia in a Spanish family with novel compound heterozygous mutations in STUB1. **Cerebellum** 2015; 14(3):378-81
45. Gao X, Wan J, Liu B, Ma M, Shen B, and [Qian SB](#)*. Quantitative profiling of initiating ribosomes in vivo. **Nat Methods** 2015; 12(2):147-53. PMID: PMC4344187
46. Han Y, Gao X, Liu B, Wan J, Zhang X, and [Qian SB](#)*. Ribosome profiling reveals sequence-independent post-initiation pausing as a signature of translation. **Cell Res** 2014; 24(7):842-51. PMID: PMC4085768
47. Liu B and [Qian SB](#)*. Invited review: Mechanisms of translational regulation during stress. **Wiley Interdiscip Rev RNA** 2014; 5(3):301-5. PMID: PMC3991730
48. Wan J and [Qian SB](#)*. TISdb: a database for alternative translation initiation in mammalian cells. **Nucleic Acids Res** 2014; 42(1):D845-50. PMID: PMC3965020
49. Sherman MY* and [Qian SB](#)*. Less is more: improving proteostasis by translation slow down. **Trends Biochem Sci** 2013; 13:00158-8. PMID: 24126073
50. Conn CS, and [Qian SB](#)*. mTORC1 in protein homeostasis: increase in protein quantity at the expense of quality. **Sci Signal** 2013; 6(271):ra24. PMID: PMC3992710
 - Editor's choice in **Science**
 - Recommended by **Faculty 1000**

51. Liu B, Han Y, and [Qian SB*](#). Co-translational response to proteotoxic stress by elongation pausing of ribosomes. **Mol Cell** 2013; 49(3):453-463. PMID: PMC3570626
 - Featured on the cover of **Mol Cell**
 - Highlighted in **Nat Rev Genetics, Nat Struct Mol Biol**
 - Recommended by **Faculty 1000**
52. Liu B, Conn CS, and [Qian SB*](#). Viewing folding of nascent polypeptide chains from ribosomes. **Expert Rev Proteomics** 2012; 9(6):579-81. PMID: PMC3971927
53. Stern-Ginossar N, Weisburd B, Michalski A, Le VT, Hein MY, Huang SX, Ma M, Shen B, [Qian SB](#), Hengel H, Mann M, Ingolia NT, Weissman JS. Decoding human cytomegalovirus. **Science** 2012; 338(6110):1088-93. PMID: PMC3817102
54. Lee S, Liu B, Lee S, Huang SX, Shen B, and [Qian SB*](#). Global mapping of translation initiation sites in mammalian cells at single-nucleotide resolution. **Proc Natl Acad Sci USA**. 2012; 109(37):E2424-32. PMID: PMC3443142
 - Highlighted on **GenomeWeb**
55. Han Y, David A, Liu B, Magadán JG, Bennink JR, Yewdell JW, and [Qian SB*](#). Monitoring co-translational protein folding in mammalian cells at codon resolution. **Proc Natl Acad Sci USA**. 2012; 109(31):12467-72. PMID: PMC3411940
56. Park WJ, Kothapalli KS, Reardon HT, Lawrence P, [Qian SB](#), Brenna JT. A novel FADS1 isoform potentiates FADS2-mediated production of eicosanoid precursor fatty acids. **J Lipid Res** 2012; 53(8):1502-12. PMID: PMC3540860
57. Liu B, and [Qian SB*](#). Translational regulation in nutrigenomics. **Adv Nutr** 2011; 2(6):511-9. PMID: PMC3226388
 - Featured on the cover of **Adv Nutr**
58. Zhang X, and [Qian SB*](#). Chaperone-mediated hierarchical control in targeting misfolded proteins to aggresome. **Mol Biol Cell** 2011; 22(18):3277-88. PMID: PMC3172255
59. Conn CS and [Qian SB*](#). mTOR signaling in protein homeostasis: less is more? **Cell Cycle** 2011; 10(12):1940-7. PMID: PMC3154417
60. Sun J, Conn CS, Han Y, Yeung V, and [Qian SB*](#). PI3K-mTORC1 attenuates stress response by inhibiting cap-independent Hsp70 mRNA translation. **J Biol Chem** 2011; 286(8):6791-800. PMID: PMC3057780
61. [Qian SB*](#), Zhang X, Sun J, Bennink JR, Yewdell JW, Patterson C. mTORC1 links protein quality and quantity control by sensing chaperone availability. **J Biol Chem** 2010; 285(35):27385-95. PMID: PMC2785368
 - Paper of the week **J Biol Chem**
62. [Qian SB*](#), Waldren L, Choudhary N, Klevit RE, Chazin WJ, Patterson C. Engineering a ubiquitin ligase reveals conformational flexibility required for ubiquitin transfer. **J Biol Chem** 2009; 284(39):26797-802. PMID: 19648119
63. McDonough H, Charles PC, Hilliard EG, [Qian SB](#), Min JN, Portbury AL, Cyr DM, Patterson C. Stress-dependent chip/DAXX interaction suppresses the p53 apoptotic program. **J Biol Chem** 2009; 284(31):20649-59. PMID: PMC2742829
64. Xia T, Dimitropoulou C, Zeng J, Antonova GN, Snead C, Venema RC, Fulton D, [Qian SB](#), Patterson C, Papapetropoulos A, Catravas JD. Chaperone-dependent E3 ligase CHIP ubiquitinates and mediates proteasomal degradation of soluble guanylyl cyclase. **Am J Physiol Heart Circ Physiol** 2007; 293:H3080-3087
65. [Qian SB](#), McDonough H, Boellmann F, Cyr DM, Patterson C. CHIP-mediated stress recovery by sequential ubiquitination of substrates and Hsp70. **Nature** 2006; 440: 551-555. PMID: PMC4112096
 - Highlighted in **J Cell Biol**
66. [Qian SB](#), Reits E, Neefjes J, Deslich JM, Bennink JR, and Yewdell JW. Tight linkage between translation and MHC-class I peptide ligand generation implies specialized antigen processing for defective ribosomal products. **J Immunol** 2006; 177: 227-233. PMID: 16785518
67. [Qian SB](#), Princiotta MF, Bennink JR, Yewdell JW. Characterization of rapidly degraded polypeptides in mammalian cells reveals a novel layer of nascent protein quality control. **J Biol Chem** 2006; 281(1):392-400. PMID: 16263705
68. Dai Q, [Qian SB](#), Li HH, McDonough H, Borchers C, Huang D, Takayama S, Younger JM, Ren HY, Cyr DM, Patterson C. Regulation of the cytoplasmic quality control protein degradation pathway by BAG2. **J Biol Chem** 2005; 280(46):38673-38681. PMID: 16169850

69. Shaffer AL, Shapiro-Shelef M, Iwakoshi NN, [Qian SB](#), Zhao H, Yu X, et al. XBP1 acts downstream of Blimp-1 to regulate ER biogenesis, organelle expansion, and protein synthesis during plasma cell differentiation. **Immunity** 2004; 21(1):81-93. PMID: 15345222
70. Princiotta MF, Finzi D, [Qian SB](#), Gibbs J, Schuchmann S, Buttgerit F, Bennink JR, Yewdell JW. Quantitating protein synthesis, degradation, and endogenous antigen processing. **Immunity** 2003; 18(3):343-354. PMID: 12648452
71. [Qian SB](#), Ott DE, Schubert U, Bennink JR, Yewdell JW. Fusion proteins with COOH-terminal ubiquitin are stable and maintain dual functionality in vivo. **J Biol Chem** 2002; 277(41):38818-38826. PMID: 12163494
72. [Qian SB](#), Li Y, Qian GX, and Chen SS. Efficient tumor regression induced by genetically engineered tumor cells secreting interleukin-2 and membrane-expressing allogeneic MHC class I antigen. **J Cancer Res Clin Oncol** 2001; 127(1): 27-33. PMID: 11206268
73. [Qian SB](#), and Chen SS. Blocked transport of soluble Kb molecules containing connecting peptide segment involved in calnexin association. **Int Immunol** 2000; 12(10): 1409-1416. PMID: 11007758
74. Xie Q, Liao D, Zhou XQ, [Qian SB](#), Cheng SS. Transduction of primary rat hepatocytes with bicistronic retroviral vector. **World J Gastroenterol** 2000; 6(5):725-729. PMID: 11819682
75. [Qian SB](#), Qian GX, and Chen SS. Enhanced immunogenicity of human hepatocellular carcinoma cells transduced with human gamma-interferon gene via retroviral vector. **Acta Univ Med 2nd Shanghai** 1999; 11(2): 90-94
76. [Qian SB](#), and Chen SS. Transduction of human hepatocellular carcinoma cell lines transduced with human gamma-interferon gene via retroviral vector. **World J Gastroenterol** 1998; 4(3): 210-213. PMID: 11819277
77. [Qian SB](#), Zhang TF, and Chen SS. Enhanced expression of HLA class I molecules in human hepatocellular carcinoma cell lines transduced with human gamma-interferon gene. **Chin Med J (Eng)** 1998; 111(4): 319-322

Book Chapters

1. Liu XM and [Qian SB](#)*. Targeted RNA m⁶A editing using engineered CRISPR-Cas9 conjugates. **Methods Mol Biol** 2021; 2298:399-414 Humana Press Inc., Totowa, NJ
2. Qiu J and [Qian SB](#)*. Poly-A tailing and adaptor ligation methods for Ribo-seq library construction. **Methods Mol Biol** 2020; 2252:221-237 Humana Press Inc., Totowa, NJ
3. Gao X, Wan J, and [Qian SB](#)*. Genome-wide profiling of alternative translation initiation sites. **Methods Mol Biol** 2016; 1358:303-16 Humana Press Inc., Totowa, NJ
4. [Qian SB](#), Patterson C*. Up and down: CHIP-regulated stress response. Cell Stress Proteins. **Protein Reviews** (2007) Springer, New York, NY
5. [Qian SB](#), Bennink JR, Yewdell JW*. Quantitating defective ribosome products. Ubiquitin-proteasome protocols. **Methods Mol Biol** 2005; 301:271-281 Humana Press Inc., Totowa, NJ
6. [Qian SB](#). Molecular biology of antigen presentation and immune recognition. **Cell and Molecular Biology in Medicine**. 2nd Ed. 2003; 681-701 Science Press, Beijing, P.R.China

RESEARCH FUNDING

CURRENT

2020 – 2025	NIH Director's Pioneer Award (DP1 OD029537-01) Role: PI (4.6 calendar months) direct costs (5 years) = \$ 3,500,000 Title: A genetic circuit formed by ribosomes
2016 – 2022	HHMI Faculty Scholar Award (55108556) Role: PI (1.2 calendar months) direct costs (5 years) = \$ 1,250,000 Title: Re-programming of mRNA translation: from mechanisms to disease
2019 – 2022	NIH R01 (R01AI151638) Role: co-PI (0.5 calendar months) direct costs (2 years) = \$ 100,000 Title: Novel translational control mechanisms in host range restriction of poxvirus
2017 – 2021	NIH R01 (R01GM1222814)

	Role: PI (1.2 calendar months)	direct costs (4 years) = \$ 800,000
	Title: O-GlcNAc Signaling in Translational Control of Stress Response	
2020 – 2021	National Science Foundation	
		direct costs (1 year) = \$ 50,000
	Title: I-Corps: RNA-adenylation sequencing for rapid ribosome profiling	
2020 – 2021	Cornell Technology Acceleration and Maturation (CTAM) Fund	
		direct costs (1 year) = \$ 37,000
	Title: Ezra-seq: rapid ribosome profiling with broad application	
2020 – 2021	Cornell Genome Innovation	direct costs (1 year) = \$ 10,000
	Title: Ezra-seq: rapid ribosome profiling with single nucleotide resolution	
2020 – 2021	Cornell CVG Seed Award	direct costs (1 year) = \$ 20,000
	Title: A genetic circuit formed by ribosomes	
COMPLETED		
2018 – 2020	NIH R21 (R21CA227917)	
	Role: PI (1.2 calendar months)	direct costs (2 years) = \$ 250,000
	Title: Dynamic mRNA m6A modification in Oncogenic Translation	
2013 – 2018	NIH R01 (1R01AG042400-01A1)	
	Role: PI (1.2 calendar months)	direct costs (5 years) = \$ 1,025,000
	Title: Linking Nutrient Signaling and Protein Homeostasis in Mammalian Aging	
2016 – 2017	Burroughs Wellcome Fund Collaborative Research Travel Grant (73261)	
	Role: PI	direct costs (1 year) = \$ 6,500
	Title: Deciphering Ribosome Dynamics in Translational Control	
2014 – 2017	DOD Idea Development Award (W81XWH-14-1-0068)	
	Role: PI (1.2 calendar months)	direct costs (3 years) = \$ 425,000
	Title: Defining Translational Re-programming in Tuberous Sclerosis Complex	
2014 – 2016	NIH R21 (1R21AI105520-01A1)	
	Role: Co-PI (0.5 calendar months)	direct costs (2 years) = \$ 150,000
	Title: Studies of the Global Translational Response to Human Virus Infection	
2014	CU-WCMC Seed Grant (2015)	
	Role: Co-PI (0.5 calendar months)	direct costs (1 year) = \$ 32,500
	Title: Studies of the Global Translational Response to Human Virus Infection	
2009 – 2014	NIH Director's New Innovator Award (1DP2 OD006449-01)	
	Role: PI (3.0 calendar months)	direct costs (5 years) = \$ 1,500,000
	Title: Engineering Ubiquitin Ligases to Investigate Protein Aggregation and Neurodegeneration	
2011 – 2013	DOD Exploration-Hypothesis Development Award (W81XWH-11-1-0236)	
	Role: PI (0.6 calendar months)	direct costs (2 years) = \$ 100,000
	Title: Genome-Wide Analysis of Translational Control in Tuberous Sclerosis Complex	
2009 – 2013	Ellison Medical Foundation New Scholar Award (AG-NS-0605-09)	
	Role: PI (1.2 calendar months)	direct costs (4 years) = \$ 400,000
	Title: The Role of Stress Signaling in mTOR Signaling and Aging	
2009 – 2010	NBTC Integrated Research Grant (NCB12)	
	Role: PI (1.2 calendar months)	direct costs (1 year) = \$ 50,000
	Title: Functional Nano-Molecules: Engineering Ubiquitin Ligases to Target Disease Proteins	
1998 – 2001	China National Science Foundation (# 39800132)	direct costs (3 years) = RMB \$ 120,000
	Title: Isolation of Antigenic Peptides Using Green Fluorescent Protein (GFP) Tagged Soluble Class I MHC Molecules	
1999 – 2000	China Educational Bureau Foundation (# 98BJ01)	direct costs (1 year) = RMB \$ 50,000

Title: Preparation and Application of Genetically Engineered Human Hepatoma and Gastroma Cells Secreting Interleukin-2

WITHDRAWN

2013 – 2018 **NSF CAREER Award**
 Role: PI (1.2 calendar months) direct costs (5 years) = \$ 500,000
 Title: Deciphering Proteome Diversity and Complexity by High-Resolution Ribosome Profiling

SUPERVISED

2020 – 2022 **AHA Predoctoral Fellowship (20PRE35210408)** Awardee: Robert Swanda
 Title: Deciphering mitochondrial translation control in cardiac stress

2017 – 2019 **Cornell Chemistry/Biology Interface** Awardee: Robert Swanda
 Title: Defining the sulfur amino acid response

2014 – 2016 **AHA Postdoc Fellowship (14POST20100022)** Awardee: Mridusmita Saikia
 Title: Deciphering mitochondrial translation control in response to cellular stress

2013 – 2014 **Cornell CVG Scholar Award** Awardee: Botao Liu
 Title: Monitor the translational reprogramming of mammalian genome during cell differentiation at single-nucleotide resolution

PATENT

1. Engineering biomolecules for nutrient reprogramming (9961-01-US)
 Inventor: Shu-Bing Qian, Robert V. Swanda
2. Compositions and methods for rapid RNA-adenylation and RNA sequencing (9217-01-US)
 Inventor: Shu-Bing Qian, Leiming Dong, Erica Shu
3. Programmable RNA m6A editing by CRISPR-Cas9 conjugates (Docket: 8856)
 Inventor: Shu-Bing Qian, Xiao-Min Liu
4. Rhenium complexes and methods of use for treating cancer (CTL Ref: 8324-02-PC; SSMP: 36511)
 Inventor: Arthur Paden King, Sierra C. Marker, Robert Swanda, Shu-Bing Qian, Justin Wilson
5. GTI-Seq: A Genome Wide Translational Initiation Assay (5611-02-US, LR Ref. 29543.6980)
 Inventor: Shu-Bing Qian, Sooncheol Lee, Botao Liu

INVITED & SELECTED ORAL PRESENTATIONS

1. Invited speaker, *Profiling ribosomes from start to stop codons*. **University of Texas, San Antonio**, Department of Immunology and Microbiology, San Antonio, TX. May 2022
2. Invited speaker, *Profiling ribosomes from start to stop codons*. **Johns Hopkins University**, Department of Biophysics and Biochemistry, Baltimore, MD. May 2022
3. Invited speaker, *Making Sense of Translational Noise*. **University of Wisconsin, Madison**, Department of Neuroscience, WI. October 2021
4. Invited speaker, *mRNA Engineering in Cancer*. **mRNA-Based Therapeutics Summit**, London, UK. July 2021 (virtual)
5. Invited speaker, *Probing regional RNA methylation by site-specific N6-methyladenosine editing*. **The 43rd Annual Meeting of the Molecular Biology Society of Japan**. (virtual). December, 2020
6. Selected speaker, *Decoding mRNA translability and stability from the 5'UTR*. **8th International mRNA Health Conference** (virtual), November, 2020
7. Invited speaker, *Probing regional RNA methylation by site-specific N6-methyladenosine editing*. **NCI Workshop on Epitranscriptome and Cancer**. (virtual). September, 2020
8. Selected speaker, *Decoding mRNA translability and stability from the 5'UTR*. **Cold Spring Harbor Laboratory Meeting: Translational Control**. (virtual), September, 2020

9. Selected speaker, *Programmable RNA N6-methyladenosine editing using CRISPR-Cas9*. **Abcom Epigenetics Conference and 14th (AEM) 3rd (TECM)**. Taipei, China. October, 2019
10. Selected speaker, *Programmable RNA N6-methyladenosine editing using CRISPR-Cas9*. **Cold Spring Harbor Laboratory Meeting: Genome Engineering: Frontiers of CRISPR/Cas**. Cold Spring Harbor, NY, October, 2019
11. Invited speaker, *Translational control: from heat to tail*. **UC Irvine**, Department of Microbiology and Molecular Genetics, Irvine, CA. January 2019
12. Session chair, *Translational Regulation (II)*. **Cold Spring Harbor Laboratory Meeting: Translational Control**. Cold Spring Harbor, NY, September, 2018
13. Invited speaker, *m6A-guided mRNA translational regulation*. **EMBL Conference**, The Epitranscriptome. Heidelberg, Germany. April 2018
14. Invited speaker, *Translational control at the start codon*. **MD Anderson Cancer Center**, Blaffer Lecture Series, Houston, TX. September 2017
15. Invited speaker, *Translational control at the start codon*. **UT Southwestern**, Department of Physiology, Dallas, TX. September 2017
16. Invited speaker, *m6A guides mRNA alternative translation during integrated stress response*. **Dynamics of Translation**, Erice, Italy. June 2017
17. Invited speaker, *Translational control at the start codon*. **Fred Hutchinson Cancer Research Center**, Seattle, WA. June 2017
18. Invited speaker, *Translational control of stress response*. **Case Western Reserve University**, Department of Genetics, Cleveland, OH. May 2017
19. Invited speaker, *Translational control of heat shock response*. **Gordon Research Conference: Translation Machinery in Health and Disease**. Galveston, TX, March, 2017
20. Invited speaker, *Translational control in stress response: from ribosomes to mRNA*. **University of Rochester**, Rochester, NY. October 2016
21. Invited speaker, *m6A-mediated cap-independent translation: scope and mechanism*. **RNA modifications and epitranscriptomics conference**. University of Chicago. Chicago, IL, September, 2016
22. Selected speaker, *m6A-mediated cap-independent translation: scope and mechanism*. **Cold Spring Harbor Laboratory Meeting: Translational Control**. Cold Spring Harbor, NY, September, 2016
23. Invited speaker, *Translational control in stress response: from ribosomes to mRNA*. **University of Georgia**, Athens, GA. April 2016
24. Invited speaker, *Translational control in stress response: from ribosomes to mRNA*. **Indiana University School of Medicine**, Indianapolis, IN. April 2016
25. Invited speaker, *Translational control in stress response revealed by ribosome profiling*. **National Institutes of Health, NICHD**, Bethesda, MD. May 2015
26. Invited speaker, *Regulation of gene expression by alternative translation*. **Translational Control: From Basics to Cancer. Génopolys**, Montpellier, France, April 2015
27. Invited speaker, *Decoding translational control by ribosome profiling*. **Zhejiang University Medical School**, Hangzhou, Zhejiang, P. P. China, April 2015
28. Invited speaker, *Translational control in stress response revealed by ribosome profiling*. Department of Cell Biology Seminar, **Duke University**, Durham, NC, September, 2014
29. Selected speaker, *Quantitative profiling of initiating ribosomes in vivo*. **Cold Spring Harbor Laboratory Meeting: Translational Control**. Cold Spring Harbor, NY, September, 2014
30. Invited speaker, *Decipher alternative translation by quantitative profiling of initiating ribosomes*. **EMBO Workshop: Recoding: Reprogramming genetic decoding**, Killarney, Ireland, May, 2014

31. Selected speaker, *Translational control of chaperone biosynthesis via stress ribosomes*. **Cold Spring Harbor Laboratory Meeting**: Molecular Chaperones & Stress Responses. Cold Spring Harbor, NY, May, 2014
32. Invited speaker, *Monitoring translational control using real-time ribosome profiling*. Department of Cell Biology Seminar, **Yale University**, New Haven, CT, April, 2014
33. Invited speaker, *Translational control in gene expression: from nutrients to ribosome*. Animal Physiology and Biochemistry, **Nanjing Agricultural University**, Nanjing, P. R. China, December, 2013
34. Invited speaker, *Nutrient signaling in protein homeostasis: increase in protein quantity at the expense of quality*. **Gordon Research Conference**: Biology of Aging. Lucca, Italy, August, 2013
35. Selected speaker, *Linking Nutrient signaling and protein homeostasis in Growth and Aging*. **EMF Colloquium on the Biology of Aging**. Woods Hole, MA, August, 2013
36. Selected speaker, *Discovering Stress Ribosome in Mammalian Cells*. **Gordon Research Conference**: Stress Proteins in Growth, Development & Disease. West Dover, VT, July, 2013
37. Invited speaker, *Translational control in gene expression: from nutrients to ribosome*. Microbiology and Immunology Seminar, **Cornell University**, Ithaca, NY, December, 2012
38. Selected speaker, *Deciphering translational re-programming using high-resolution ribosome profiling*. **Cold Spring Harbor Laboratory Meeting**: Translational Control. Cold Spring Harbor, NY, September, 2012
39. Invited speaker, *Translational control in gene expression: from nutrients to ribosome*. VERGE Seminar, **Cornell University**, Ithaca, NY, May, 2012
40. Invited speaker, *Co-translational response to proteotoxic stress by early ribosome pausing*. **2011 ASCB Annual Meeting**, Denver, CO. December, 2011
41. Invited speaker, *Linking Nutrient Signaling and Protein Homeostasis in Growth and Aging*. **The Institute of Nutritional Sciences, Chinese Academy of Sciences**, Shanghai, China. October 2011
42. Selected speaker, *Co-translational response to proteotoxic stress by chaperone-controlled ribosome dynamics*. **Cold Spring Harbor Laboratory Asia Meeting**: Protein Homeostasis in Health and Diseases. Suzhou, China, September, 2011
43. Invited speaker, *Linking Nutrient Signaling and Protein Homeostasis in Growth and Aging*. **The Buck Institute for Research on Aging**, Novato, CA. September 2011
44. Selected speaker, *Co-translational response to proteotoxic stress by chaperone-controlled ribosome dynamics*. **Gordon Research Conference**: Stress Proteins in Growth, Development and Diseases. Lucca, Italy, July, 2011
45. Selected speaker, *Chaperone-mediated hierarchical control in targeting misfolded proteins to aggresome*. **FASEB Summer Research Conference**: The Basic Origins and Medical Consequences of Protein Aggregation. Snowmass Village, Colorado, June, 2011
46. Invited speaker, *Genome-wide analysis of ribosome dynamics and mRNA translation*, **National Institutes of Health**, NIAID, Bethesda, MD. September 2010
47. Invited speaker, *Chaperone stress in growth and aging*. Biomedical Sciences Departmental Seminar, School of Veterinary Sciences, **Cornell University**, Ithaca, NY, March, 2010
48. Invited speaker, *Lost in translation: a tale of protein birth and protein death*. Molecular Biology & Genetics Seminar, Department of Molecular Biology and Genetics, **Cornell University**, Ithaca, NY, March, 2010
49. Selected speaker, *Chaperone-regulated mTOR signaling links protein quality and quantity control*. **Gordon Research Conference**: Stress Proteins in Growth, Development and Diseases. Proctor Academy, New Hampshire, June, 2009
50. Selected speaker, *Engineering co-chaperone ubiquitin ligase CHIP*. **Cold Spring Harbor Laboratory Meeting**: The Ubiquitin Family. Cold Spring Harbor, NY, April, 2009
51. Invited speaker, *Sensing nutrients to growth: the role of chaperone network in mTOR signaling*. Molecular Biology & Genetics Seminar, Department of Molecular Biology and Genetics, **Cornell University**, Ithaca, NY, October 2008
52. Invited speaker, *Engineering ubiquitin ligase*. Human & Molecular Nutrition Seminar, Division of Nutritional Sciences, **Cornell University**, Ithaca, NY, October 2008

53. Special Seminar, Section of Comparative Medicine, **Yale University** School of Medicine, New Haven, CT, April 2008
54. Special Seminar, Department of Biochemistry and Molecular Biology, **Louisiana State University** Health Sciences Center, Shreveport, LA, February 2008
55. Special Seminar, Ben May Department for Cancer Research, **University of Chicago**, Chicago, IL, February 2008
56. Molecular recognition and bioinformatics special seminar, Department of Biochemistry, **SUNY Buffalo**, Buffalo, NY, January 2008
57. Special Seminar, Institute for Diabetes, Obesity and Metabolism, **University of Pennsylvania** School of Medicine, Philadelphia, PA, January 2008
58. Special Seminar, Department of Physiology, **University of Pennsylvania** School of Medicine, Philadelphia, PA, January 2008
59. Special Seminar, Division of Nutritional Sciences, **Cornell University**, Ithaca, NY, December 2007
60. Special Seminar, Department of Physiology, **University of Texas Southwestern Medical Center**, Dallas, TX, November, 2007
61. Special Seminar, Department of Molecular Medicine, **Wake Forest University** School of Medicine, Winston-Salem, NC, November, 2007
62. Invited speaker, *Chaperoning mTOR: linking protein homeostasis in insulin signaling*. Cell and Developmental Biology Seminar, Department of Cell and Developmental Biology, **University of North Carolina** at Chapel Hill, Chapel Hill, NC. October 2007
63. Special Seminar, Department of Genetics & Complex Diseases, **Harvard University** School of Public Health, Boston, MA, June, 2007
64. Special Seminar, Cell Biology Program, **Sloan Kettering Institute** Cancer Center, New York, NY, March, 2007
65. Invited speaker, *A dynamic mechanism of protein ubiquitination*. Cell and Developmental Biology Seminar, Department of Cell and Developmental Biology, **University of North Carolina** at Chapel Hill, Chapel Hill, NC. October 2006
66. Selected Speaker, *Substrate-dependent autoregulation of Hsp70 by CHIP-regulated autocatalysis*. **Gordon Research Conferences**, New Port, RI, July 2005
67. Invited speaker, *The CHIP story*. **National Institutes of Health**, NIAID, Bethesda, MD. May 2005

TEACHING

2018 - present	BIOMG8369 BMCB: Foundation & Frontiers 2-credit graduate course that consists of lectures and weekly paper discussions Department of Molecular Biology & Genetics, Cornell University
2009 - present	NS3200 Human Biochemistry 4-credit undergraduate course Division of Nutritional Sciences, Cornell University
2011 - 2015	NS7030 Graduate Student Seminar 1-credit graduate course that consists of weekly paper presentation Division of Nutritional Sciences, Cornell University
2010 - 2013	BioMG8370 Problems in Biochemistry, Molecular and Cell Biology 2-credit graduate course that consists of weekly paper discussions Department of Molecular Biology & Genetics, Cornell University
2008 - present	NS4010 Empirical Research Laboratory research for biochemistry and molecular biology 3-credit undergraduate course Division of Nutritional Sciences, Cornell University
2006 - 2008	Biology 4050 Laboratory Research

Department of Cell and Developmental Biology
University of North Carolina, Chapel Hill, NC

1997 – 2000

Graduate Course Biochemistry and Molecular Biology
Department of Biochemistry & Molecular Biology
Shanghai Second Medical University, Shanghai, P.R.China

TRAINING AND ADVISING

POSTDOC FELLOWS

Current

2018 – present **Longfei Jia**, Ph.D.
2017 – present **Quanquan Ji**, Ph.D.
2015 – present **Yuanhui Mao**, Ph.D.
2014 – present **Leiming Dong**, Ph.D.

Previous

2016 – 2019 **Xiao-Min Liu**, Ph.D. (current position: China Pharmaceutical University)
2008 – 2018 **Xingqian Zhang**, Ph.D. (current position: PTC Therapeutics)
2013 – 2018 **Jun Zhou**, Ph.D. (current position: China Pharmaceutical University)
2014 – 2016 **Saisai Wei**, Ph.D. (current position: Zhejiang University)
2013 – 2016 **Mridusmita Saikia**, Ph.D. (current position: Baker Institute)
2013 – 2017 **Ji Wan**, Ph.D. (current position: Curacloud Corp)
2012 – 2015 **Xiangwei Gao**, Ph.D. (current position: Zhejiang University)
2011 – 2012 **Sooncheol Lee**, Ph.D. (current position: Harvard University)
2011 – 2011 **Soonhyun Lee**, Ph.D. (current position: Harvard University)
2009 – 2012 **Yan Han**, Ph.D. (current position: Shanghai Jiaotong University)

VISITING FELLOWS

2018 – 2019 **Jingfan Qiu**, Ph.D. (Nanjing Medical University)
2016 – 2017 **Wenqiang Ma**, Ph.D. (Nanjing Agriculture University)

GRADUATE STUDENTS

Current (Committee Chair)

2021 – present **Xincheng Wu**, NS graduate student Expected graduation: 2026

Current (Committee member)

2019 – present **Jenn Roscoe**, BMCB graduate student
2018 – present **Semira Ortiz**, NS graduate student

Graduated (Committee Chair)

2017 – 2021 **Robert Swanda**, BBS graduate student
2016 – 2020 **Erica (Xin) Shu**, NS graduate student
2015 – 2020 **Yifei Gu**, NS graduate student
2011 – 2016 **Ryan A. Coots**, NS graduate student
2010 – 2015 **Botao Liu**, G&D graduate student
2009 – 2013 **Crystal Conn**, G&D graduate student

Graduated (Committee member)

2015 – 2020 **Wendy Beck**, BMCB graduate student
2015 – 2020 **Brandon Gheller**, NS graduate student
2014 – 2019 **Morgan Baltz**, Chemical Engineering graduate student
2013 – 2018 **Jui-Yun Liao**, Plant Science graduate student
2013 – 2018 **Kristeen Pareja**, Pharmacology graduate student
2014 – 2017 **Peter Sullivan**, BMCB graduate student
2011 – 2016 **Kevin Mazor**, NS graduate student
2009 – 2012 **Hong Chen**, Nutrition graduate student

2009 – 2012 **Yingying Zhao**, BMCB graduate student

Visiting non-degree Graduate Students

2016 – 2017 **Xin Zong**, Zhejiang University, School of Animal Sciences

2015 – 2017 **Longfei Jia**, Nanjing Agriculture University

2013 – 2014 **Juliana Magdalon**, University of Sao Paulo, USP, Brazil

UNDERGRADUATE STUDENTS

2015 – 2020 **Kevin Lin**, HBHS Major

2018 – 2019 **Yifei (Amy) Han**, CALS Major

2015 – 2016 **Xin Yuan**, Biology Major

2015 – 2016 **Yunqi Li**, HBHS Major

2015 – 2016 **Ian Lei Chan**, HBHS Major

2014 – 2017 **Holly Deng**, HBHS Major (Hunter Rawlings III College Presidential Research Scholar)

2013 – 2014 **David Ko**, Biology Major

2013 – 2014 **Joo Won Lee**, HBHS Major

2012 – 2013 **Blake Barr**, HBHS Major

2012 – 2014 **Hyunsoo Lim**, Biology Major

2012 – 2014 **Elizabeth Ferrie**, Biology Major (honors research)

2011 – 2012 **Esther Kwon**, Nutrition Major

2011 – 2012 **Ivor (Xiaoxing) Shen**, Nutrition Major

2010 – 2011 **Kathleen Phung**, HBHS Major

2009 – 2012 **Hae Jin Kang**, HBHS Major (Hunter Rawlings III College Presidential Research Scholar)

2009 – 2012 **Haerin Palk**, HBHS Major (honors research)

2009 – 2011 **Josephine Lee**, HBHS Major

2009 – 2010 **Jessie Luk**, HBHS Major

2008 – 2012 **Vincent Yeung**, Biology Major

2008 – 2009 **Najah Levers**, Biology Major (Hunter Rawlings III College Presidential Research Scholar)

2006 – 2008 **Lauren Waldren**, Biology Major (University of North Carolina)