Zheng SHI

Date of Birth: Feb. 15th, 1990

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Employment

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2019 -	Assistant Professor		
	Department of Chemistry and Chemical Biology, Rutgers-New Brunswick		
2021 -	Member of the Cancer Pharmacology Research New Jersev	Program, Cancer Institute of	
2023 -	Associate Member to Graduate Faculty at the Department of Biomedical Engineering, Rutgers-New Brunswick		
2015 - 2019	Post-doctoral Fellow Department of Chemistry and Chemical Biolog	Adviser: Adam E. Cohen y, Harvard University, HHMI	
Education			
2010 - 2015	Chemistry Department, University of Pennsylvania		
	Ph.D. in Physical Chemistry	Diploma: Aug.7 th , 2015	
	Thesis title: " <u>Mechanisms of Membrane Remote</u> and Divalent Cations"	deling by Peripheral Proteins Adviser: Tobias Baumgart	
2006 - 2010	Physics Department, University of Science and B.S. in Applied Physics (condensed matter) Thesis on <i>DFT Simulation of Graphenes</i>	Technology of China Diploma: July 10 th , 2010 Adviser: Jinlong Yang	
Publications		Google Scholar	

*indicates corresponding authors; #indicates equal contributions.

[20] Moazzeni S, Kyker-Snowman K, Cohen RI, Wang H, Li R, Shreiber DI, Zahn JD, **Shi Z***, Lin H*. Cadherin-based adhesion regulates mechanical polarization in the actin cortex through Rac1. *Under review*.

[19] Roggeveen JV, Wang H, **Shi Z***, Stone HA*. A calibration-free hydrodynamic model of micropipette aspiration for measuring properties of protein condensates. *Biophysical Journal*, 2023. *In press*

[18] Yang S, Miao X[#], Arnold S[#], Li B[#], Ly AT, Wang H, Wang M, Guo X, Pathak MM, Zhao W, Cox CD, Shi Z^{*}. Membrane curvature governs the distribution of Piezo1 in live cells. Nature Communications. 13, 7467. 2022. <u>bioRxiv preprint</u> <u>Colab endosed</u> <u>Faculty Opinions Recommended</u>

[17] Gao J[#], Mewborne QT[#], Girdhar A, Sheth U, Coyne AN, Punathil R, Kang BG, Dasovich M, Veire A, Hernandez MD, Liu S, **Shi Z**, Dafinca R, Fouquerel E, Talbot K, Kam TI, Zhang YJ, Dickson D, Petrucelli L, van Blitterswijk M, Guo L, Dawson TM, Dawson VL, Leung AKL, Lloyd TE, Gendron TF, Rothstein JD, Zhang K*. <u>Poly(ADP-ribose) Promotes Toxicity</u> of *C90RF72* Arginine-rich Dipeptide Repeat Proteins. *Science Translational Medicine*.

14(662), eabq3215. 2022.

[16] **Shi Z**, Innes-Gold S, Cohen AE*. <u>Membrane tension propagation couples axon growth</u> and collateral branching. *Science Advances.* 8(35), eabo1297. 2022. <u>bioRxiv preprint</u>

Qeios review

[15] Biswas R, Yang S, Adly-Gendi P, Chen T, Crichton RC, Kopcha WP, **Shi Z***, Zhang J*. <u>C60-β-cyclodextrin conjugates for enhanced nucleus delivery of doxorubicin</u>. *Nanoscale.* 14, 4456-4462. 2022.

[14] Wang H, Kelley FM, Milovanovic D, Schuster BS, Shi Z*. Surface tension and viscosityof protein condensates quantified by micropipette aspiration.Biophysical Reports.100011.2021.bioRxiv preprintNews Feature

[13] Schuster B, Regy RM, Dolan EM, Ranganath AK, Jovic N, Khare SD, **Shi Z**, Mittal J*. Biomolecular condensates: sequence determinants of phase separation, microstructural organization, enzymatic activity, and material properties. *J. Phys. Chem. B*. 125(14), 3441–3451. 2021.

[12] Cohen AE*, Shi Z*. Do cell membranes flow like honey or jiggle like Jello? *BioEssays*. 42 (1), 1900142. 2020.

-----Before joining Rutgers-----

[11] Shi Z, Graber ZT, Baumgart T, Stone HA, Cohen AE*.Cell membranes resist flow.Cell175(7), 1769-1779.2018.bioRxiv preprintFaculty Opinions RecommendedPerspective:Membrane Mechanics in Living CellsNews Feature

[10] Graber ZT, Shi Z, Baumgart T*. <u>Cations induce shape remodeling of negatively charged</u> phospholipid membranes. *Phys. Chem. Chem. Phys.* 19(23), 15285-15295. 2017.

[9] Luo Q, Shi Z, Zhang Y, Chen XJ, Han SY, Baumgart T, Chenoweth DM, Park SJ*. <u>DNA</u> <u>Island Formation on Binary Block Copolymer Vesicles</u>. *J. Am. Chem. Soc.* 138(32), 10157– 10162. 2016.

[8] Chen Z, Shi Z, Baumgart T*. <u>Regulation of Membrane-Shape Transitions Induced by I-BAR Domains</u>. *Biophysical Journal*. *109(2)*, *298-307*. 2015.

[7] Shi Z, Sachs JN, Rhoades E, Baumgart T*. <u>Biophysics of α -synuclein induced membrane</u> remodelling. *Phys. Chem. Chem. Phys.* 17(24), 15561-15568. 2015.

Faculty Opinions Recommended

[6] Shi Z, Baumgart T*. Membrane tension and peripheral protein density mediate membrane
shape transitions. Nature Communications. 6, 5974. 2015.News Feature

[5] Wu T, Shi Z, Baumgart T*. <u>Mutations in BIN1 associated with Central Nuclear Myopathy</u> <u>disrupt membrane remodeling by affecting protein density and oligomerization</u>. *PLoS ONE*. *9(4), e93060.* 2014.

[4] Shi Z, Baumgart T*. Dynamics and instabilities of lipid bilayer membrane shapes. *Adv. Colloid Interface Sci.* 208,76-88. 2014.

[3] Cavallaro M, Gharbi MA, Beller DA, Copar S, **Shi Z**, Baumgart T, Yang S, Kamien RD, Stebe KJ*. <u>Exploiting imperfections in the bulk to direct assembly of surface colloids</u>. *Proceedings of the National Academy of Sciences.* 110(47), 18804-18808. 2013.

[2] Cavallaro M, Gharbi MA, Beller DA, Copar S, **Shi Z**, Kamien RD, Yang S, Baumgart T, Stebe KJ*. <u>Ring around the colloid</u>. *Soft Matter*. *9(38)*, *9099-9102*. 2013.

[1] Capraro BR[#], Shi Z[#], Wu T, Chen Z, Dunn JM, Rhoades E, Baumgart T*. Kinetics of

endophilin N-BAR domain dimerization and membrane interactions. Journal of Biological Chemistry. 288(18), 12533-12543. 2013.

Teaching

Spring 2024	Instructor for Phys. Chem.: Biochemical Systems (CHEM341)
Sept. 22 nd , 2023	Lecturer for Introduction to Research (CHEM 603)
Summer 2023	Participant for the Teaching Excellence Networks (TEN) Course
May 18 th , 2023	Participant for the Rutgers Active Learning Symposium
Spring 2023	Instructor for Honors General Chemistry II (CHEM 164)
Mar. 31 st , 2022	Lecturer for Concepts in Nano Chemistry (CHEM 461)
Fall 2021	Instructor for Special Topics in Physical Chemistry (CHEM 541)
Feb. 9 th , 2021	Lecturer for Advanced topics in physical chemistry (CHEM 542)
Spring 2021	Instructor for Honors General Chemistry II (CHEM 164)
Mar. 23 rd , 25 th , 2020	Lecturer for Concepts in Nano Chemistry (CHEM 461)
Sept. 25 th , 2019	Lecturer for Intro to Research (CHEM 603)
Fall 2019	Instructor for Biophysical Chemistry I (CHEM 437/537)
Spring 2014	Teaching Assistant in physical chemistry lab
Spring 2011	Teaching Assistant in general chemistry lab
Fall 2010	Teaching Assistant in general chemistry lab

Awards and Grants

- ◆ April 2023 Rutgers Core Facility Utilization Grants (\$5,000)
- Sept. 2022 NIH NIGMS Maximizing Investigators' Research Award (MIRA) (5 year; \$1,050,000 direct, \$1,595,503 total)
- Aug. 2022 NIH NIDA/NIMH/NINDS R21 grant on "Micropipette-based quantification of neuronal protein condensates in live cells" (2 year; \$275,000 direct, \$392,266 total) NIH Blueprint for Neuroscience Research: Tools and Technologies to Explore Nervous System Biomolecular Condensates
- ◆ Aug. 2021 Provost's COVID Funds
- ♦ April 2019 Harvard Chinese Life Sciences Distinguished Research Award
- ◆ April 2019 "The Company of Biologists" Excellent Poster Award at EMBO workshop
- Mar. 2019 EMBO travel grants for MSRP 2019 workshop
- ◆ June 2018 JGP Exceptional Poster Award at the FASEB conference
- ♦ Nov. 2017 Biophysical Society 2018 Education Committee Travel Award
- Sept. 2013 Award for Excellence in Chemistry Graduate Research
- Oct. 2009 Outstanding Undergraduate Research Project Scholarship *Application of tunable diode laser absorption spectroscopy in detecting H₂O isotope and flame properties* (adviser: Shuiming Hu)
- 2007-2009 Outstanding Student Scholarship (grade 1)

Invited Scientific Talks

12/06/2023 <u>The American Society for Cell Biology meeting in Boston</u> Subgroup session "Physical Biology of the Cytoplasm"

11/29/2023 Material Science seminar at Johns Hopkins University

- 11/04/2023 Huairou Forum on Biomedical Imaging
- 09/14/2023 Rutgers Princeton Condensates Day
- 07/04/2023 Biomedical seminar at the Southern University of Science and Technology
- 06/23/2023 The 4th Complexity in the Chemistry and Physics of Lipid Membranes workshop in Telluride
- 03/30/2023 RADAR Workshop on *Biomolecular Condensates in health, disease and across scales*, NIH, Bethesda
- 12/07/2022 <u>The American Society for Cell Biology meeting in Washington, DC</u> Subgroup session "Remodeling and Reshaping Membranes"
- 10/20/2022 Tri-Institutional Cell Biology Seminar at <u>Memorial Sloan Kettering Cancer</u> <u>Center, Rockefeller University</u>, and <u>Weill Cornell Medicine</u>
- 10/06/2022 Cell Biology seiminar at Johns Hopkins Medical Institute
- 09/08/2022 Seminar at University of Leeds, School of Medicine (UK)
- 06/06/2022 <u>Molecular Biophysics of Membranes Conference in Tahoe, California</u> Session on Mechanotransduction in the Membrane
- 06/01/2022 <u>Middle Atlantic Regional Meeting of the American Chemical Society in Trenton</u> Symposium on Membrane Biophysics (Chair): Heterogeneity and Asymmetry of Cell Membranes
- 02/21/2022 Biophysical Society 66th Annual Meeting in San Francisco
 - Symposium on Membrane Tension
- 02/17/2022 Phase Group Seminar at Princeton University
- 11/09/2021 <u>Cell Biology Seminar at Yale University, School of Medicine</u> (virtual) What we learned from pushing and pulling biomolecular assemblies
- 07/01/2021 Interdisciplinary Science Seminar at Harvard University, Center for Mathematical
- <u>Sciences and Applications</u> (virtual) Mechanics of biomolecular assemblies
- 03/16/2021 Cancer Pharmacology Seminar at the Cancer Institute of New Jersey (virtual)
- 01/14/2021 Biophysics and Systems Biology Seminar at UC Irvine (virtual)
- 06/23/2020 The 3rd Complexity in the Chemistry and Physics of Lipid Membranes workshop
- in Telluride (Canceled due to COVID-19)
- 05/21/2020 Biomedical seminar at Tongji University (virtual)
- 04/17/2020 Chemistry seminar at Ursinus College (Canceled due to COVID-19)
- 02/27/2020 Tri-departmental Research Seminar at Rutgers Medical School
- 02/16/2020 <u>Biophysical Society 64th Annual Meeting in San Diego</u> *Platform: Mechanosensation (Co-Chair)*
- 12/19/2019 Biophysics Journal Club at Princeton University
- 12/14/2019 The 1st Rutgers Chinese Faculty Research Symposium *Frontiers in Neuroscience*
- 10/15/2019 Chemistry & Chemical Biology Colloquium at Rutgers University Do cell membranes flow like honey or jiggle like Jello?
- 02/06/2019 Physics Seminar at University of Florida
- 01/31/2019 Physics Seminar at University of Miami
- 01/24/2019 Physics Colloquium at Carnegie Melleon University
- 01/21/2019 Physics Seminar at University of Alberta, Canada
- 01/17/2019 Physiology Special Seminar at UT Southwestern Medical Center

01/10/2019 Chemistry Seminar at Purdue University

01/07/2019 <u>Cell and Developmental Biology Seminar at National Heart, Lung, and Blood</u> Institute - NIH

11/28/2018 Chemistry & Chemical Biology Seminar at Rutgers University, New Brunswick

10/10/2018 PostDoc Science Café at Harvard

09/24/2018 <u>Cellular Dynamics Research Talk at Harvard Molecular Cellular Biology</u> Mechanical signalling at the cell memrbane

09/06/2018 <u>Biophysics Workshop at the Carnegie Melleon University</u> *The Physics and Biology of Subcellular Structure & Remodeling*

09/06/2018 <u>Society of General Physiologists 72nd Annual Symposium at Woods Hole</u> Molecular Physiology of the Cell Membrane: An Integrative Perspective from Experiment and Computation (Declined)

06/17/2018 <u>15th FASEB Research Conference on "Molecular Biophysics of Membranes" in</u> <u>Olean, New York</u>

Scientific Session: Membrane Complexity: Domains and Shapes

02/10/2015 <u>Biophysical Society 59th Annual Meeting in Baltimore</u> Platform: Exocytosis, Endocytosis, and Membrane Fusion (Represent T. Baumgart)

06/24/2014 <u>The 88th ACS Colloids and Surface Symposium in Philadelphia</u> *Biointerfaces 5: Mechanics II*

Professional Services and Outreach

Served as ad hoc Reviewer for Grants:

- July 2023 NIH-NIDA Cutting-Edge Basic Research Awards (CEBRA) Review Panel
- April 2023 The French National Research Agency (ANR) AAPG
- Feb. 2023 The Rutgers Global Grants Program
- June 2022 NIH Cell Structure and Function 1 Study Section (CSF1)
- Nov. 2021 The UK Medical Research Council MCMB grant

Served as Reviewer for Journals:

Nature Physics, Nature Communications, Nature Chemical Biology, Science Advances, Advanced Science, eLife, Biophysical Journal, Communications Biology, Soft Matter, PLoS ONE, Scientific Reports, Frontiers in Biophysics^{**}, Frontiers in Molecular Biosciences^{**}, Frontiers Cell and Developmental Biology, Frontiers in Chemistry, Journal of Chemical Theory and Computation, The Journal of Membrane Biology, Membranes^{**}, Proteins, Life Sciences, JoVE, Biomedicine and Pharmacotherapy, BioMed Research International.

Professional Societies

Biophysical Society: 2013 -

American Chemical Society: 2014 -

American Society for Cell Biology: 2022 –

Served on Rutgers CCB committees:

Colloquia and Seminars (2020-); Graduate Admision (2019-); Graduate Recuitment (2019-2021, 2023-); Safty (2019-2021); AFM (2022-); Physical (2019-); Biological (2019-); Materials/Nanoscience (2022-).

Postdocs and students mentored (noted if not chemistry major at Rutgers):

Postdocs: FNU Bineet (2022 -).

Ph.D. students: Lishana Wimalarathne (2023 -), Zeynep Yaslan (2023 -), Abik Hameem (2023 -), Joselyn Dzieminski (2023 -), Yiling Wang (2022 -), Boxuan Li (2022 -), Shilong Yang (2020 -), Huan Wang (2019 -).

Rotation students: Sri Vidya Tallavajhula (2022), Yuchen Ma (2022), Joyce Lin (2022), Zainab Mustapha (2022), Xiao Ding (2021), Rui Zhang (2021).

Master students: Zeyu Lin (2019 - 2021).

Undergraduate students: Amber Nepravishta (Cell Biology & Neuroscience, 2023, SUPER program), Mariam Haroun (Caldwell Biology, 2023, RISE Program), Sahar Saiyed (Biomathematics, 2023 -), Juan C. Acosta (Molecular Biology and Biochemistry, 2023 -), Navya Korala (Cell Biology & Neuroscience, 2023 -), Megha Patel (2023 -), Jake Rothstein (Biochemistry, 2022 -), Maxim Yurkov (Biochemistry, 2022 - 2023), Holly Cheng (Princeton Molecular Biology, 2022), Jack Nothnagel (Cornell Chemistry, 2022), Matthew Wang (Biophysics, 2020 - 2022), Steven Arnold (Cell Biology & Neuroscience, 2020 - 2022), Roberto Sul (Finance, 2020), Ismail Mur (Pharmacy, 2020).

High school students: Moaaz Mahfooz (Piscataway High School, 2022, ACS Project SEED), Grace Xia (Stuart Country Day School, 2022 – 2023), Srihitha Kariveda (South Brunswick High School, 2020).

Student Awards and Fellowships

Shilong Yang (Reid Award, 2023), Huan Wang (Reid Award, 2022; Zhou family fellowship, 2022, \$25,000; Best poster award at Rutgers-Princeton Condensates Day, 2023), Steven Arnold (Graduated with Highest Honor).

Served on Thesis Committee:

Ph.D. in Chemistry: Gertrude Asante Ampadu (Nieuwkoop), Ryan Bennick (Zhang), Hyunjun Jang (KB Lee), Priscilla Chinchilla Retana (Baum), Li Ling Goldman (KB Lee), Amanda Liyanaarachchi (Remsing), Seungwoo Lee (Baum), Lingjun Xie (Khare), Brandon Conklin (KB Lee), Nityananda Pal (Khare), Ashley Bernstein (Nieuwkoop, 2023), Jeffrey Luo (KB Lee, 2023).

Ph.D. in other areas: Bruna Favetta (Schuster, Biomedical Engineering), Lei Zhuang (Zhang, Biochemical Engineering), Fleurie Kelley (Schuster, Biochemical Engineering), Seyedsajad Moazzeni (Lin, Mechanical Engineering, 2023).

Undergraduate: Patrick Adly-Gendi (Zhang), Mark Siringan (Zhang).

Additional Outreach and Mentorship

- 2023 Mentor for Research Intensive Summer Experience (RISE) for Undergraduates
- 2023 Project SUPER Faculty Mentor for Douglass WiSE programming
- 2023 Louis Stokes Alliance for Minority Participation (LSAMP) Faculty Mentor for Undergraduate Research
- 2022 Mentor for ACS Project Summer Experiences for the Economically Disadvantaged (SEED) Highschool Students
- Sept 2023 Volunteer for HBCU NY Classic x EltaMD
- June 2022 Oragnizer for the Membrane Biophysics Symposium at MARM 2022
- April 2022 Speaker for *Introduction to Research* for Rutgers Chemistry undergraduates
- Jan. 2021 Panelist for USTC alumni Career Developmet Forum.

 April 2020 Host for RCAF webinars during COVID-19 pandemic.
 Feb. 2020 Co-Chair for the Mechanosensation Platform at the 64th BPS meeting
 Oct.2019 Speaker for the Rutgers CCB Industrial Advisory Board Meeting
 June 2019 <u>"Tales from the battlefront" Panel Discussion with Harvard Postdocs</u> Discussion Panel with Postdocs back from the Academic Job Market (Panelist)

Posters and other Meeting Abstracts

Sept 2023 Rutgers – Princeton Condensates Day

[1] Wang H, ..., Shi Z. Material properties of protein condensates quantified by micropipette aspiration. [2] Roggeveen J, Wang H, Shi Z, Stone HA. Hydrodynamic model of micropipette aspiration for protein condensates. [3] Cheng H, Wang H, Shi Z, Brangwynne C. Probing the material properties of nucleoli using micropipette aspiration. [4] Favetta B, ... Shi Z, Schuster B. RNA type determines SARS-CoV-2 Nucleocapsid condensate structure and function.

Feb 2023 Biophysical Society 67th Annual Meeting in San Diego

[1]Yang S, ..., Shi Z. Membrane curvature governs the distribution of Piezo1 in live cells. [2] Wang H, ..., Shi Z. Eeffects of alpha-synuclein and synaptic vesicles on the material properties of synapsin condensates.

Dec. 2022 The American Scoiety for Cell Biology meeting in Washington, DC

Biswas R, Yang S,... Shi Z, Zhang J. Nucleus uptake of water soluble C60 derivatives: a molecular platform for targeting cargo to diseased cells.

Nov. 2022 Penn Muscle Institute Annual Retreat and Symposium in Philadelphia

Yang S, ..., Shi Z. Membrane curvature governs the distribution of Piezo1 in live cells.

June 2022 Middle Atlantic Regional Meeting of the American Chemical Society in Trenton [1]Wang H., ..., Shi Z. Understanding the material properties and membrane interactions of synapsin condensates. [2] Yang S., ..., Shi Z. Membrane curvature mediated subcellular distribution of Piezo1. [3] Arnold S., ..., Shi Z. Membrane-Proximal Actin Restricts Transmembrane Protein Diffusion.

Feb 2022 Biophysical Society 66th Annual Meeting in San Francisco

[1] Shi Z, Yang S. Mechanical singnaling at the cell membrane. [2] Wang H, ..., Shi Z. Quantifying the material properties of protein condensates through micropipette aspiration. [3] Moazzeni S, ... Shi Z, Lin H. Cell adhesion upregulates the cortical tension and actin cortex thickness during the adhesion process.

Mar 2020 47th Annual Northeast Biomedical Engineering Conference

Moazzeni S, Wang H, ... Shi Z, Lin H. Regulartion of cortical tension and its coaction with cell-cell adhesion derives the cell adhesion process

Aug 2019Poster Session on Faculty research for incoming graduate students at RutgersShi ZMechanical signaling at the cell membrane

May 2019 3rd Annual Poster Session & Reception at the Stanley Center's Scientific Advisory Board (SAB) Meeting

Shi Z, Cohen AE. Mechanical signaling at the cell membrane

April 2019 EMBO workshop on "Membrane shaping and remodeling by proteins" at Xiu Ning, China

Shi Z, Cohen AE. Mechanical signaling at the cell membrane

Mar. 2019 Biophysical Society 63st Annual Meeting in Baltimore

Robustelli JA, Shi Z, Baumgart T. Synuclein Increases Membrane Binding with Rising Lateral Tension June 2018 15th FASEB Research Conference on "Molecular Biophysics of Membranes" at St. Bonaventure University Shi Z, Cohen AE. Cell membarnes resist flow

- Mar. 2018 Inaugural CCB Research Symposium at Harvard
- Shi Z, ... Cohen AE. Membrane tension in mammalian cells is heterogeneous and far from equilibrium
- Feb. 2018 Biophysical Society 62th Annual Meeting in San Francisco *Shi Z*, ... *Cohen AE. Lipid-gel model of biological membranes*
- Jan. 2018 6th Annual Klarman Cell Observatory Retreat at the Broad Institute

Shi Z, Graber ZT, Baumgart T, Stone HA, Cohen AE. Membrane tension in mammalian cells is heterogeneous and far from equilibrium

Nov. 2017 ASCB Biological Soft Matter Meeting in Cambridge

Shi Z, Cohen AE. Lipid-gel model of biological membranes.

June 2017 FAS Postdoc Research Symposium at Harvard

Shi Z, Cohen AE. Sensing and understanding membrane tension in cells

Feb. 2017 Biophysical Society 61st Annual Meeting in New Orleans

Graber ZT, Shi Z, Baumgart T. Membrane Deformation Induced by Cation Binding to Negatively Charged Phospholipids

Feb. 2016 Biophysical Society 60th Annual Meeting in Los Angeles

Chen Z, Shi Z, Katarzyna JI, Baumgart T. BAR Domain Proteins can Differ Substantially in their Capacity to Generate Membrane Curvature

Feb. 2015 Biophysical Society 59th Annual Meeting in Baltimore

[1]Shi Z, Baumgart T. Biophysics of α -synuclein induced membrane remodelling. [2]Chen Z, Shi Z, Baumgart T. Membrane shape transition mediated by curvature-inducing proteins, membrane tension, and macrocrowders.

Feb. 2014 Biophysical Society 58th Annual Meeting in San Francisco

Shi Z, Baumgart T. Protein-Induced Membrane Shape Instability: Dynamics and Membrane Tension Dependence.

Feb. 2013 Biophysical Society 57th Annual Meeting in Philadelphia

[1] Shi Z, Baumgart T. Membrane Binding Kinetics of Peripheral Proteins Studied with Single Giant Unilamellar Vesicles. [2] Capraro BR, Chang K, Shi Z, Wu T, Hsu CJ, Baumgart T. Separation of Timescales for Endophilin Dimerization and Membrane Binding. [3] Wu T, Shi Z, Baumgart T. Three Mutations in the BIN1 N-BAR Domain Impair Membrane Curvature Generation via Different Mechanisms.