

# George P. Lisi

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## EDUCATION:

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| <b>Dartmouth College</b><br>Ph.D., Chemistry ( <i>Mentors: D.E. Wilcox &amp; E.V. Pletneva</i> ) | <b>Hanover, NH</b><br>2014   |
| <b>Fairfield University</b><br>B.Sc., Chemistry  | <b>Fairfield, CT</b><br>2009 |

## EMPLOYMENT:

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| <b>Brown University &amp; Warren Alpert Medical School</b><br><i>Department of Molecular Biology, Cell Biology &amp; Biochemistry</i><br>- Associate Professor ( <i>tenured</i> )<br>- Thomas J. & Alice M. Tisch Assistant Professor<br>- Assistant Professor ( <i>appointed 9/1/2018</i> ) | <b>Providence, RI</b><br>2025 - Present<br>2023 - 2024<br>2018 - 2024 |
| <i>Department of Chemistry</i><br>- Affiliate Faculty Member   | 2023 - Present  |
| <i>Giuliani RNA Center at Brown University</i><br>- Faculty Investigator   | 2023 - Present  |
| <b>Yale University</b><br><i>Department of Chemistry</i><br>- Postdoctoral Fellow ( <i>Mentor: J. P. Loria</i> )   | <b>New Haven, CT</b><br>2014 - 2018                                   |

## PUBLICATIONS:

- See [ncbi.nlm.nih.gov/sites/myncbi/1f7yuRKsyj65T/bibliography/48613662/public/?sort=date&direction=descending](https://ncbi.nlm.nih.gov/sites/myncbi/1f7yuRKsyj65T/bibliography/48613662/public/?sort=date&direction=descending)
- See [www.researchgate.net/profile/George\\_Lisi](https://www.researchgate.net/profile/George_Lisi)

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- (70) Molina, C.E.<sup>#</sup>; Ahsan, M.<sup>#</sup>; Saha, A.; East, K.W.; Luo, J.; Weling, A.; Duarte, O.; Palermo, G.\*; **Lisi, G.P.**\* "Atomic Details of the *Fn*CRISPR-Cas12a NUC Domain Reveal Allosteric Hotspots Affecting DNA Binding and Cleavage" *Manuscript in preparation*
- (69) Martinez-Guzman, M.; Belato, H.B.; Nagle, I.; Chaubey, M.; Rose, T.G.; Knight, A.L.; Fick, O.; **Lisi, G.P.**; Kizer, M.E.\* "Structural Characterization of the Novel Sso7d-based Glycan Binding Protein's Molecular Determinants of Ligand Recognition: Challenging the Role of CH- $\pi$  and van der Waals Forces in Carbohydrate Binding" *Manuscript in preparation*
- (68) Manjula, R.<sup>#</sup>; Ghanem, L.<sup>#</sup>; Skeens, E.; Bai, L.; **Lisi, G.P.**; Lolis, E.J.\*; Bennett, A.M.\* "Molecular Characterization of the  $\alpha$ 4- $\alpha$ 5 Loop in MKP5 Phosphatase Identifies Critical Determinants of Catalysis" *Manuscript in preparation*
- (67) Knight, A.L.<sup>#</sup>; Belato, H.B.<sup>#</sup>; Dresser, C.S.; Pindi, C.; Arantes, P.R.; Mercado, B.J.; Lasekan, P.; Luo, J.; Jogl, G.\*; Palermo, G.\*; **Lisi, G.P.**\* "Orthosteric and Allosteric Effects of Anti-CRISPR II-C1 on GeoCas9 from Integrated Structural Biophysics" *Manuscript under review*
- (66) Mantsounga, C.S.; Pierce, J.; Clark, M. E.; Farinha, A.; Sharma, S.; Uppuluri, S.; Rados, T.; Caballero, O.; Neverson, J.; Lee, C.; Amelotte, E.; Butler, C.A.; Fedulov, A.V.; Sellke, F.W.; Choudhary, G.; **Lisi, G.P.**; Morrison, A.R.\* "Aging Impairs Inflammatory Arteriogenesis by Disruption of Proangiogenic VEGF-A mRNA Stability Conferred by Epigenetically Controlled Dicer1 Dose-sensitive miR-29" *Manuscript under review*
- (65) Cui, J.Y.<sup>#</sup>; Varghese, I.<sup>#</sup>; Bock, A.S.; Floody, M.; Zhang, F.; Rubenstein, B.M.; **Lisi, G.P.**\* "Exploring a Histidine Triad as a Modulator of Structure, Molecular Motion, and Ligand Binding in GM-CSF" *bioRxiv*. 2026. DOI: 10.64898/2026.01.20.700583 (*Manuscript under review*)
- (64) Handelmann, C.R. Skeens, E.; **Lisi, G.P.**; Buck, M.J.\* "Evaluating High-fidelity CRISPR-Cas Nucleases in Nucleosomal Contexts using a Quantitative Framework" *Revised manuscript under review*

- (63) [Molina, C.E.](#); [Knight, A.L.](#); [Lisi, G.P.](#)\* “Comparative Thermodynamic and Kinetic Properties Governing the Nucleic Acid Interactions of CRISPR-Cas9 and Cas12a” *Physical Biology*. **2026**. 23. 021001-021012
- (62) [Wu, Z.](#); [Widjaja, V.](#); [Skeens, E.](#); van der Velde, J.J.H.; Zahran, M.; Zhang, J.; Cool, R.H.; Poelarends, G.J.; [Lisi, G.P.](#); [Dekker, F.J.](#)\* “Discovery of Furan-2-carboxylic Acid Derivatives as Novel D-dopachrome Tautomerase (D-DT) and Macrophage Migration Inhibitory Factor-1 (MIF-1) Dual Inhibitors” *Journal of Medicinal Chemistry*. **2026**. 69. 5712-5728
- (61) [Lisi, G.P.](#)\* “Disorder, Dynamics, and Regulation of Proteins and Nucleic Acids” *Journal of Structural Biology*. **2026**. 218. 108258
- (60) [Ahsan, M.](#); [Saha, A.](#); [Ramos, D.](#); [Strohkendl, I.](#); [Knight, A.L.](#); [Skeens, E.](#); [Lisi, G.P.](#); [Taylor, D.W.](#); [Palermo, G.](#)\* “A Cryptic Binding Pocket Regulates the Metal-dependent Activity of Cas9” *bioRxiv*. **2025**. DOI 10.1101/2025.08.25.672025 (Manuscript in revision)
- (59) [Vieyra, F.H.#](#); [Pindi, C.#](#); [Lisi, G.P.](#); [Morzan, U.N.\\*](#); [Palermo, G.](#)\* “Design Rules for Expanding PAM Compatibility in CRISPR-Cas9 from the VQR, VRER, and EQR Variants” *Journal of Physical Chemistry B*. **2025**. 129. 11949-11958
- (58) [Widjaja, V.](#); [D’Orazio, S.](#); [Das, P.](#); [Rajendran, D.T.](#); [Takada, X.](#); [Shi, Y.](#); [Varghese, I.](#); [Lam, Y.](#); [DaSilva, N.](#); [Wang, J.](#); [Batista, V.S.](#); [Bhandari, V.](#); [Lisi, G.P.](#)\* “Atomistic Modulation of MIF-2 Structure, Catalysis, and Biological Signaling via Cysteine Residues and a Small Molecule, Ebselen” *Protein Science*. **2025**. 34. e70344-e70359
- (57) [Knight, A.L.](#); [Luo, J.](#); [Lisi, G.P.](#)\* “Assessing Temperature-dependent DNA Cleavage of CRISPR-Cas9” *Bio-protocols*. **2025**. 15. e5463-e5474
- (56) [Skeens, E.#](#); [Maschietto, F.#](#); [Manjula, R.](#); [Shillingford, S.](#); [Murphy, J.W.](#); [Lolis, E.J.](#); [Batista, V.S.](#); [Bennett, A.M.\\*](#); [Lisi, G.P.\\*](#) “Dynamic and Structural Insights into Allosteric Regulation on MKP5/DUSP10, a Dual-specificity Phosphatase” *Nature Communications*. **2025**. 16. 7011-7024
- (55) [Knight, A.L.](#); [Lisi, G.P.](#)\* “Spy-ing on Nucleic Acids: Atomic Resolution of the *S. pyogenes* CRISPR-Cas9 Surveillance State” *Structure*. **2025**. 33. 636-638  
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- (54) [Clark, M.E.](#); [Farinha, A.](#); [Morrison, A.R.\\*](#); [Lisi, G.P.\\*](#) “Structural, Biological, and Biomedical Implications of mRNA Interactions with the Master Regulator HuR” *NAR Molecular Medicine*. **2025**. DOI: 10.1093/narmme/ugaf002
- (53) [Belato, H.B.#](#); [Knight, A.L.#](#); [D’Ordine, A.M.](#); [Pindi, C.](#); [Fan, Z.](#); [Luo, J.](#); [Palermo, G.](#); [Jogl, G.](#); [Lisi, G.P.\\*](#) “Structural and Dynamic Impacts of Single-atom Disruptions to Guide RNA Interactions within the Recognition Lobe of *Geobacillus stearothermophilus* Cas9” *eLife*. **2024**. 13. RP99275-RP99296
- (52) [Sajko, S.](#); [Skeens, E.](#); [Shinagl, A.](#); [Ferhat, M.](#); [Mirкина, I.](#); [Mayer, J.](#); [Rossmueller, G.](#); [Thiele, M.\\*](#); [Lisi, G.P.\\*](#) “Redox-dependent Plasticity of oxMIF Facilitates its Interaction with CD74 and Therapeutic Antibodies” *Redox Biology*. **2024**. 75. 103264-103278
- (51) [Monteiro da Silva, G.](#); [Cui, J.Y.](#); [Dalgarno, D.C.](#); [Lisi, G.P.](#); [Rubenstein, B.M.\\*](#) “High-throughput Prediction of Protein Conformational Distributions with Subsampled AlphaFold2” *Nature Communications*. **2024**. 15. 2464-2476  
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- (49) [Wang, J.\\*](#); [Maschietto, F.](#); [Qiu, T.](#); [Arantes, P.R.](#); [Skeens, E.](#); [Palermo, G.\\*](#); [Lisi, G.P.\\*](#); [Batista, V.S.\\*](#) “Substrate-independent Activation Pathways of the CRISPR-Cas9 HNH Nuclease” *Biophysical Journal*. **2023**. 122. 4635-4644
- (48) [Knight, A.L.#](#); [Widjaja, V.#](#); [Lisi, G.P.\\*](#) “Temperature as a Modulator of Allosteric Crosstalk in Mesophilic and Thermophilic Enzymes” *Frontiers in Molecular Biosciences*. **2023**. DOI: 10.3389/fmolb.2023.1281062  
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- (47) [Chen, E.#](#); [Widjaja, V.#](#); [Kyro, G.](#); [Allen, B.](#); [Das, P.](#); [Prahaldan, V.M.](#); [Bhandari, V.](#); [Lolis, E.J.](#); [Batista, V.S.\\*](#); [Lisi, G.P.\\*](#) “Mapping N- to C-terminal Allosteric Coupling through Disruption of a Putative CD74 Activation Site in D-dopachrome Tautomerase” *Journal of Biological Chemistry*. **2023**. 299. 104729-104740
- (46) [Parkins, A.](#); [Chen, E.](#); [Rangel, V.](#); [Singh, M.](#); [Xue, L.](#); [Lisi, G.P.](#); [Pantouris, G.\\*](#) “Ligand-induced Conformational Changes Enable Intersubunit Communication in D-dopachrome Tautomerase” *Biophysical Journal*. **2023**. 122. 1268-1276

- (45) Belato, H.B.; **Lisi, G.P.\*** “The Many (Inter)faces of Anti-CRISPRs: Modulation of CRISPR-Cas Structure and Dynamics by Mechanistically Diverse Inhibitors” *Biomolecules*. **2023**. *13*. 264-277  
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- (44) Maschietto, F.; Qiu, T.; Wang, J.\*; Shi, Y.; Allen, B.; **Lisi, G.P.**; Lolis, E.; Batista, V.S.\* “Valproate Coenzyme-A Conjugate Blocks Opening of Receptor Binding Domain in the Spike Trimer of SARS-CoV-2 by an Allosteric Mechanism” *Computational and Structural Biotechnology Journal*. **2023**. *21*. 1066-1076
- (43) Skeens, E.; **Lisi, G.P.\*** “Analysis of Coordinated Chemical Shifts to Map Allosteric Regulatory Networks in Proteins” *Methods*. **2023**. *209*. 40-47.  
- Thematic issue – New Methods in Biomolecular NMR Spectroscopy
- (42) Wang, J.\*; Arantes, P.R.; Ahsan, F.M.; Sinha, S.; Kyro, G.W.; Maschietto, F.; Allen, B.; Skeens, E.; **Lisi, G.P.\***; Batista, V.S.\*; Palermo, G.\* “Twisting and Swiveling Domain Motions in Cas9 to Recognize Target DNA Duplexes, Make Double-stranded Breaks, and Release Cleaved Duplexes” *Frontiers in Molecular Biosciences*. **2023**. DOI: 10.3389/fmolb.2022.1072733.
- (41) Fredericks, A.M.#; East, K.W.#; Shi, Y.#; Liu, J.; Maschietto, F.; Ayala, A.; Cioffi, W.G.; Cohen, M.; Fairbrother, W.G.; Lefort, C.T.; Nau, G.J.; Levy, M.M.; Wang, J.; Batista, V.S.; **Lisi, G.P.\***; Monaghan, S.F.\* “Identification and Mechanistic Basis of Non-ACE2 Blocking Neutralizing Antibodies from COVID-19 Patients with Deep RNA Sequencing and Molecular Dynamics Simulations” *Frontiers in Molecular Biosciences* **2022**. DOI: 10.3389/fmolb.2022.1080964.
- (40) Belato, H.B.; Norbrun, C.; Luo, J.; Pindi, C.; Sinha, S.; D’Ordine, A.M.; Jogl, G.; Palermo, G.\*; **Lisi, G.P.\*** “Disruption of Electrostatic Contacts in the HNH Nuclease from a Thermophilic Cas9 Rewires Allosteric Motions and Enhances High-temperature DNA Cleavage” *Journal of Chemical Physics* **2022**. *157*. 225103-225113.  
- Thematic collection – New Views of Allostery
- (39) Wang, J.\*; Liu, J.; Gisriel, C.J.; Wu, S.; Maschietto, F.; Flesher, D.A.; Lolis, E.; **Lisi, G.P.**; Brudvig, G.W.; Xiong, Y.; Batista, V.S. “How to Correct Relative Voxel Scale Factors for Calculations of Vector-difference Fourier Maps in Cryo-EM” *Journal of Structural Biology*. **2022**. *214*. 107902-107915.
- (38) Nierzwicki, L.; East, K.W.; Binz, J.; Hsu, R.V.; Arantes, P.R.; Ahsan, M.; Skeens, E.; Pacesa, M.; Jinek, M.; **Lisi, G.P.\***; Palermo, G.\* “Principles of Target DNA Cleavage and the Role of Mg<sup>2+</sup> in the Catalysis of CRISPR-Cas9” *Nature Catalysis*. **2022**. *5*. 912-922.
- (37) Wang, J.\*; Shi, Y.; Reiss, K.; Maschietto, F.; Lolis, E.; Konigsberg, W.H.; **Lisi, G.P.**; Batista, V.S.\* “Structural Insights into Binding of Remdesivir Triphosphate within the Replication-transcription Complex of SARS-CoV-2” *Biochemistry* **2022**. *61*. 1966-1973.
- (36) Wang, J.\*; Skeens, E.; Arantes, P.; Maschietto, F.; Allen, B.; **Lisi, G.P.\***; Palermo, G.\*; Batista, V.S.\* “Structural Basis for Reduced Dynamics of Three Engineered HNH Endonuclease Lys-to-Ala Mutants of the Cas9 Enzyme” *Biochemistry* **2022**. *61*. 785-794.
- (35) **Lisi, G.P.\***; Rivalta, I.\*; Venditti, V.\* “Editorial: Structural and Dynamic Aspects of Protein Function and Allostery” *Frontiers in Molecular Biosciences* **2022**. DOI: 10.3389/fmolb.2022.876499.
- (34) Wang, J.\*; Shi, Y.; Reiss, K.; Allen, B.; Maschietto, F.; Lolis, E.; Konigsberg, W.H.; **Lisi, G.P.**; Batista, V.S.\* “Insights into the Binding of Single-stranded Viral RNA Template to the Replication-transcription Complex of SARS-CoV-2 for the Priming Reaction from Molecular Dynamics Simulations” *Biochemistry* **2021**. *61*. 424-432.
- (33) Skeens, E.; Gadzuk-Shea, M.M.; Shah, D.; Bhandari, V.; Schweppe, D.K.; Berlow, R.B.\*; **Lisi, G.P.\*** “Redox-dependent Structure and Dynamics of Macrophage Migration Inhibitory Factor Reveal Sites of Latent Allostery” *Structure* **2022**. *30*. 840-850.  
- Commentary in “Cytokine Aerobics: Oxidation Controls Cytokine Dynamics and Function” Structure 2022
- (32) Skeens, E.#; Pantouris, G.#; Shah, D.; Ombrello, M.J.; Maluf, N.K.; Bhandari, V.; **Lisi, G.P.\***; Lolis, E.J.\* “A Cysteine Variant at an Allosteric Site in MIF Alters Protein Dynamics and Biological Function in Homo- and Heterotrimeric Assemblies” *Frontiers in Molecular Biosciences* **2022**. *9*. DOI: 10.3389/fmolb.2022.783669.
- (31) Nierzwicki, L.#; East, K.W.#; Morzan, U.N.; Arantes, P.R.; Batista, V.S.; **Lisi, G.P.\***; Palermo, G.\* “Enhanced Specificity Mutations Perturb Allosteric Signaling in CRISPR-Cas9” *eLife* **2021**. *10*. e73601.  
- Journal Cover Art

- (30) Belato, H.B.; D'Ordine, A.M.; Nierzwicki, L.; Jogl, G.; Palermo, G.\*; **Lisi, G.P.\*** "Structural and Dynamic Insights into the HNH Nuclease of Divergent Cas9 Species" *Journal of Structural Biology* **2021**. 214. 107814-107824.
- (29) Cui, J.Y.; **Lisi, G.P.\*** "Molecular Level Insights into the Structural and Dynamic Factors Driving Cytokine Function" *Frontiers in Molecular Biosciences* **2021**. 8. 10.3389/fmolb.2021.773252.  
- Thematic collection – Structural and Dynamic Aspects of Protein Function and Allostery
- (28) Parkins, A.; Skeens, E.; McCallum, C.M.; **Lisi, G.P.\***; Pantouris, G.\* "The N-terminus of MIF Regulates the Dynamic Profile of Residues Involved in CD74 Activation" *Biophysical Journal* **2021**. 120. 1-8.
- (27) Chen, E.; Reiss, K.; Shah, D.; Ramu, M.; Murphy, E.L.; Murphy, J.W.; Batista, V.S.; Bhandari, V.; Lolis, E.J.; **Lisi, G.P.\*** "A Structurally Preserved Allosteric Site in the MIF Superfamily Affects Enzymatic Activity and CD74 Activation in D-dopachrome Tautomerase" *Journal of Biological Chemistry* **2021**. 297. 101061-101073.
- (26) Wang, J.\*; Reiss, K.; Shi, Y.; Lolis, E.; **Lisi, G.P.**; Batista, V.S.\* "Inhibition Mechanism of Remdesivir on Reproduction of SARS-CoV-2 and Ebola Virus" *Biochemistry* **2021**. 60. 1869-1875.
- (25) East, K.W.; Delaglio, F.; **Lisi, G.P.\*** "A Simple Approach for Reconstruction of Non-uniformly Sampled Pseudo-3D NMR Data for Accurate Measurement of Spin Relaxation Parameters" *Journal of Biomolecular NMR* **2021**. 75. 213-219.
- (24) Skeens, E.#; East, K.W.#; **Lisi, G.P.\*** "<sup>1</sup>H, <sup>13</sup>C <sup>15</sup>N Backbone Resonance Assignment of the Recognition Subdomain 3 (Rec3) from *Streptococcus pyogenes* CRISPR-Cas9" *Biomolecular NMR Assignments* **2020**. 15. 25-28.
- (23) Murphy, J.W.; Rajasekaran, D.; Merkel, J.; Skeens, E.; Keeler, C.; Hodsdon, M.; **Lisi, G.P.**; Lolis, E.\* "High-throughput Screening of a Functional Human CXCL12-CXCR4 Signaling Axis in a Genetically Modified *S. cerevisiae*: Discovery of a Novel Up-regulator of CXCR4 Activity" *Frontiers in Molecular Biosciences* **2020**. 7. DOI: 10.3389/fmolb.2020.00164
- (22) Pantouris, G.\*; Khurana, L.; Ma, A.; Skeens, E.; Reiss, K.; Batista, V.S.; **Lisi, G.P.\***; Lolis, E.J.\* "Regulation of MIF Activity by an Allosteric Site at the Central Solvent Channel" *Cell Chemical Biology* **2020**. 27. 740-750.
- (21) Cui, J.Y.; Zhang, F.; Nierzwicki, L.; Palermo, G.; Linhardt, R.J.; **Lisi, G.P.\*** "Mapping the Structural and Dynamic Determinants of pH-sensitive Heparin Binding to Granulocyte Macrophage-colony Stimulating Factor" *Biochemistry* **2020**. 59. 3541-3553.
- (20) East, K.W.; Newton, J.C.; Morzan, U.N.; Narkhede, Y.B.; Acharya, A.; Skeens, E.; Jogl, G.; Batista, V.S.; Palermo, G.\*; **Lisi, G.P.\*** "Allosteric Motions of the CRISPR-Cas9 HNH Nuclease Probed by NMR and Molecular Dynamics" *Journal of the American Chemical Society* **2020**. 142. 1348-1358.  
- Recognized as one of the most cited JACS articles of 2020-2021  
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- (18) East, K.W.; Leith, A.; Ragavendran, A.; Delaglio, F.; **Lisi, G.P.\*** "NMRdock: Lightweight and Modular NMR Processing" *bioRxiv*. **2019**. DOI: 10.1101/679688. (\*\*preprint only, not peer reviewed)
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- (14) **Lisi, G.P.\***; Loria, J.P.\* "Allostery in Enzyme Catalysis" *Current Opinion in Structural Biology*. **2017**. 47. 123-130.  
- Thematic issue – Catalysis and Regulation
- (13) **Lisi, G.P.**; East, K.W.; Batista, V.S.; Loria, J.P.\* "Altering the Allosteric Pathway in IGPS Suppresses Millisecond Motions and Catalytic Activity" *PNAS*. **2017**. 114. E3414-E3423.

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- Feature article
- (9) **Lisi, G.P.\***; Loria, J.P.\* “Solution NMR Spectroscopy for the Study of Enzyme Allostery” *Chemical Reviews*. **2016**. 116. 6323-6369.  
- Thematic issue – Protein Ensembles and Allostery
- (8) **Lisi, G.P.**; Loria, J.P.\* “Using NMR Spectroscopy to Elucidate the Role of Molecular Motions in Enzyme Function” *Progress in NMR Spectroscopy*. **2016**. 92-93. 1-17.
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- (3) Miecznikowski, J.R.\*; Lo, W.; Lynn, M.A.; Jain, S.; Keilich, L.C.; Kloczko, N.F.; O’Loughlin, B.E.; DiMarzio, A.P.; Foley, K.M.; **Lisi, G.P.**; Kwiecien, D.J.; Butrick, E.E.; Powers, E.; Al-Abbasee, R. “Syntheses, Characterization, Density Functional Theory Calculations and Activity of Tridentate SNS Zinc Pincer Complexes Based on Bis-Imidazole or Bis-Triazole Precursors” *Inorganica Chimica Acta*. **2012**. 387. 25-36.
- (2) Miecznikowski, J.R.\*; Lo, W.; Lynn, M.A.; O’Loughlin, B.E.; DiMarzio, A.P.; Martinez, A.M.; Lampe, L.; Foley, K.M.; Keilich, L.C.; **Lisi, G.P.**; Kwiecien, D.J.; Pires, C.M.; Kelly, W.J.; Kloczko, N.F.; Morio, K.N. “Syntheses, Characterization, Density Functional Theory Calculations and Activity of Tridentate SNS Zinc Pincer Complexes” *Inorganica Chimica Acta*. **2011**. 376. 515-524.
- (1) Miecznikowski, J.R.\*; Caradonna, J.P.; Foley, K.M.; Kwiecien, D.J.; **Lisi, G.P.**; Martinez, A.M. “Introduction to Homogenous Catalysis with Ruthenium-Catalyzed Oxidation of Alcohols: An Experiment for Undergraduate Advanced Inorganic Chemistry Students” *Journal of Chemical Education*. **2011**. 88. 657-661.

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#### **INVITED LECTURES:**

- (36) CRISPR Medicine Summit, Boston, MA (Oct **2026**)
- (35) International CRISPR Congress, Yerevan, Armenia (Oct **2025**)
- (34) Wichita State University, Dept. of Chemistry & Biochemistry, Wichita, KS (Oct **2024**)
- (33) University of Louisville, Dept. of Biochemistry & Molecular Genetics, Louisville, KY (Oct **2024**)
- (32) 30<sup>th</sup> International Conference on Magnetic Resonance in Biological Systems, Seoul, South Korea (Aug **2024**)
- (31) 8<sup>th</sup> International Conference on Nucleic Acids & CRISPR, London, UK (July **2024**)
- (30) Iowa State University, Dept. of Chemistry, Ames, IA (Apr **2024**)
- (29) 65<sup>th</sup> Experimental NMR Conference (ENC), Pacific Grove, CA (Apr **2024**)
- (28) Yale University, Dept. of Chemistry, New Haven, CT (Mar **2024**)
- (27) MIF Virtual Seminar Series, Ludwig Maximilian University of Munich, Div. of Vascular Biology, Munich, Germany (Feb **2024**)
- (26) University of Michigan, Center for RNA Biomedicine, Ann Arbor, MI (Nov **2023**)
- (25) Rhode Island College, Dept. of Biology, Providence, RI (Nov **2023**)
- (24) Gordon Research Conference on Computational Aspects of Biomolecular NMR, West Dover, VT (June **2023**)
- (23) Brown University, Dept. of Chemistry, Providence, RI (Mar **2023**)
- (22) Dartmouth College, Dept. of Chemistry, Hanover, NH (Dec **2022**)
- (21) The Pennsylvania State University, Dept. of Chemistry, State College, PA (Nov **2022**)

- (20) 29<sup>th</sup> International Conference on Magnetic Resonance in Biological Systems, Boston, MA (Aug 2022)
- (19) Providence VA Medical Center, Vascular Research Laboratory, Providence, RI (Feb 2022)
- (18) National Institute of Standards and Technology and University of Maryland, Institute for Bioscience and Biotechnology Research, Rockville, MD (Nov 2021)
- (17) American Chemical Society National Meeting, Physical Chemistry Section, Atlanta, GA (Aug 2021)
- (16) International Council on Magnetic Resonance in Biological Systems Webinar Series (Aug 2021)
- (15) University of the Pacific, Dept. of Chemistry, Stockton, CA (Mar 2021)
- (14) Fairfield University, Dept. of Chemistry & Biochemistry, Fairfield, CT (Feb 2021)
- (13) Providence VA Medical Center, Vascular Research Laboratory, Providence, RI (Dec 2020)
- (12) Brown University, Dept. of Molecular Biology, Cell Biology, & Biochemistry, Providence, RI (Apr 2020)
- (11) 61<sup>st</sup> Experimental NMR Conference (ENC), Baltimore, MD (Mar 2020)
- (10) University of California, Riverside, Dept. of Bioengineering, Riverside, CA (Feb 2020)
- (9) Brown University, Dept. of Molecular Pharmacology, Physiology, & Biotechnology, Providence, RI (Feb 2019)
- (8) Brown University, Dept. of Chemistry, Providence, RI (Nov 2018)
- (7) 59<sup>th</sup> Experimental NMR Conference (ENC), Orlando, FL (Mar 2018)
- (6) University of Connecticut Health Center, Dept. of Molecular Biology & Biophysics, Farmington, CT (May 2017)
- (5) Fairfield University, Dept. of Chemistry & Biochemistry, Fairfield, CT (Nov 2015)
- (4) Yale University, Dept. of Chemistry, New Haven, CT (May 2014)
- (3) Harvard Medical School, Dept. of Biological Chemistry & Molecular Pharmacology, Boston, MA (Apr 2014)
- (2) University of Pennsylvania, Dept. of Chemistry, Philadelphia, PA (Mar 2014)
- (1) Northeastern Regional Meeting of the American Chemical Society, New Haven, CT (Nov 2013)

## **PROFESSIONAL ACTIVITIES**

### **Grant & Peer Review**

- Book proposal reviewer, Cas9 Molecular Physics and Biochemistry (Vol. I & II), Springer Nature 2026
  - External grant reviewer, Pennsylvania Dept. of Health 2026
  - NSF BIO Review Panel 2026
  - NIH MSFB Study Section (*ad hoc*) 2026
  - External grant reviewer, Swiss National Science Foundation (SNSF) 2025
  - NSF BIO Review Panel 2025
  - External grant reviewer, Grantova Agentura Ceske Republiky (Czech Science Foundation) 2024
  - NIH MSFB Study Section (*ad hoc*) 2024
  - External grant reviewer, Deutsche Forschungsgemeinschaft (German Research Foundation) 2023
  - NIH MSFB Study Section (*ad hoc*) 2023
  - NIH BBM Study Section (*ad hoc*) 2022
  - NSF SBIR/STTR Review Panel 2021
  - Manuscript Reviewer 2018 - Present
- ACS Applied Biomaterials, ACS Catalysis, ACS Medicinal Chemistry Letters, ACS Physical Chemistry Au, Biochemistry, Biochemical Pharmacology, Biochemical Society Transactions, BioEssays, Bioorganic & Medicinal Chemistry, Biophysical Journal, Biotechnology Advances, Cell Genomics, Cellular Physiology & Biochemistry, Clinical & Translational Medicine, Current Opinion in Structural Biology, FEBS Letters, Frontiers in Cardiovascular Medicine, Frontiers in Molecular Biosciences, Intl. Journal of Biomacromolecules, iScience, Journal of the American Chemical Society, Journal of Biomolecular NMR, Journal of Biological Chemistry, Journal of Chemical Information & Modeling, Journal of Chemical Physics, Journal of Immunotherapy of Cancer, Journal of Molecular Biology, Journal of Physical Chemistry, Journal of Structural Biology, Methods in Enzymology, Nature Chemical Biology, Nature Communications, Nucleic Acids Research, Redox Biology, RNA Biology, Science Advances, STAR Protocols, Structure*

### **Editorial**

- Associate Editor, Structural Biology, *Frontiers in Molecular Biosciences* 2025 - Present
- Guest Editor - *Journal of Structural Biology* 2024 - 2025  
Special collection on "Disorder, Dynamics, and Regulation of Proteins and Nucleic Acids"
- Associate Editor, Molecular Biophysics, *Frontiers in Molecular Biosciences* 2023 - 2025
- Editorial Board, *Frontiers in Molecular Biosciences* 2022 - Present
- Deputy Editorial Board, *Journal of Structural Biology* 2022 - Present
- Guest Editor - *Frontiers in Molecular Biosciences* 2020 - 2021  
Invited collection on "Structural and Dynamic Aspects of Protein Function and Allostery"

### **Scientific Community**

- Visiting Fellow in Assessment, exam content reviewer for AP Environmental Science, College Board 2026

- Visiting Fellow in Assessment, exam content reviewer for AP Chemistry, College Board 2026
- Mentor, NSF Chemistry Early Career (CAREER) Investigator Workshop 2024
- New England Science Symposium Judge, Harvard Medical School 2021

### **Brown University**

- Director of Graduate Studies (MCBGP) 2025 - Present
- MCB Graduate Program Executive Committee 2023 - 2025  
- *ex officio*, 2025 - Present
- Proteomics Core Facility Advisory Board 2023 - Present
- Structural Biology Core Facilities Executive Committee 2022 - Present
- MCB Graduate Program Admission Committee 2019 - 2025  
- *ex officio*, 2026 - Present  
- Chair, 2024, 2025  
- Vice Chair, 2023
- Faculty Trainer, Graduate Program in Molecular Biology, Cell Biology & Biochemistry (MCB) 2018 - Present
- Faculty Trainer, Graduate Program in Therapeutic Sciences (TSGP) 2018 - Present
- Faculty Trainer, Graduate Program in Pathobiology 2018 - Present

### **Professional Societies**

- Protein Society
- Biophysical Society
- American Chemical Society

### **TEACHING:**

BIOL 0280 (Introductory Biochemistry)

Instructor Score:     /5.00 Course Score:     /5.00 (2026, 453 students)  
 Instructor Score: 4.64/5.00 Course Score: 4.40/5.00 (2025, 337 students)  
 Instructor Score: 4.43/5.00 Course Score: 3.75/5.00 (2023, 290 students)  
 Instructor Score: 4.47/5.00 Course Score: 3.91/5.00 (2022, 378 students, Course Leader)  
 Instructor Score: 4.34/5.00 Course Score: 4.11/5.00 (2021, 442 students)

BIOL 1270/2270 (Advanced Biochemistry)

Instructor Score: 4.44/5.00 Course Score: 4.00/5.00 (2023, 12 students)  
 Instructor Score: 4.62/5.00 Course Score: 4.62/5.00 (2022, 18 students, Course Leader)  
 Instructor Score: 4.50/5.00 Course Score: 4.50/5.00 (2021, 25 students)  
 Instructor Score: 4.95/5.00 Course Score: 4.80/5.00 (2020, 23 students, Course Leader)  
 Instructor Score: 4.69/5.00 Course Score: 4.56/5.00 (2019, 31 students)

BIOL 1950/1960 (Directed Research & Independent Studies for Undergraduates)

BIOL 2030 (Foundations for Advanced Study in Life Sciences)

Instructor Score:     /5.00 Course Score:     /5.00 (2026, upcoming)  
 Instructor Score: 4.67/5.00 Course Score: 4.67/5.00 (2024, 9 students)

BIOL 2010A (Introduction to Molecular Research in the Life Sciences)

Instructor Score:     /5.00 Course Score:     /5.00 (2026, upcoming)

### **GUEST LECTURES:**

BIOL 2010B (Introduction to Data Science in Molecular Biology) 2023, 2024  
 RCR (Responsible Conduct of Research for Graduate Students) 2020, 2024, 2025  
 BIOL 1100 (Cell Physiology & Biophysics) 2019 - 20, 2022 - 23, 2025  
 BIOL 0100 (Living Biology) 2019

### **EXTERNAL TEACHING:**

CHEM 161 (Structure and Dynamics of Biomolecules) – Dartmouth College, Hanover, NH 2025  
 CHEM 041 (Biochemistry) – Dartmouth College, Hanover, NH 2020, 2021  
 HLST 3900 (The Corona Pandemic, a Class and a Conversation) – Fairfield University, Fairfield, CT 2020

### **WORKSHOP TEACHING:**

"Building a Resilient Community" – Self-advocacy and Assertiveness for Scientists – Providence, RI 2022, 2025  
 "Entering Research at Yale" Workshop Series – New Haven, CT 2015 - 2018  
 NMRBox, National Center for Biomolecular NMR Data Processing & Analysis – Farmington CT 2017

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## **HONORS:**

- Innovator Award, CRISPR-QC 2022
  - NSF CAREER Award 2021
  - *Journal of the American Chemical Society* issue highlighting outstanding early career investigators 2021
  - Richard B. Salomon Faculty Research Award 2021
  - Arthur Dunham Holmes 1906 Memorial Graduate Fellowship, Dartmouth College 2013
  - GAANN Graduate Fellowship, U.S. Dept. of Education 2010 - 2011
  - Outstanding Senior Chemistry Major, Fairfield University 2009
  - Distinguished Work in the Natural Sciences, College of Arts & Sciences, Fairfield University 2009
  - Presidential Academic Scholarship, Fairfield University 2006 - 2009
- 

## **RESEARCH GRANTS:**

### **Current**

R01 GM144451

National Institute of General Medical Sciences, NIH

*Unraveling the Allosteric Mechanism of Macrophage Migration Inhibitory Factor with Molecular Resolution*

09/01/22 – 08/31/27

PI: **Lisi, G.** Co-I: Batista, V.

Amount: \$1,578,915

R01 HL163005

National Heart, Lung, and Blood Institute, NIH

*Combining Targeted Demethylation with Noncoding RNA-mediated mRNA Stabilization as a Strategy for Therapeutic Arteriogenesis in the Aged*

05/01/22 – 04/30/27

PI: Morrison, A. Co-I: **Lisi, G.** Co-I: Sellke, F. Co-I: Fedulov, A.

Amount: \$2,000,000 (total) \$499,935 (Lisi)

MCB 2143760

National Science Foundation

*CAREER: Molecular Resolution of Long-range Allostery in CRISPR-Cas9*

01/01/22 – 12/31/26

PI: **Lisi, G.**

Amount: \$1,400,000

### **Completed**

DBI 2233775

National Science Foundation

*Helium Recovery Equipment: Securing Rhode Island and Southern New England NMR Structural Biology Infrastructure*

09/15/22 – 08/31/25

PI: Fawzi, N. Co-PI: **Lisi, G.** Co-PI: Naik, M.

Amount: \$322,300

R01 GM136815

National Institute of General Medical Sciences, NIH

*Studies of Allostery between Multi-domain Proteins and Nucleic Acid Complexes*

02/01/21 – 11/30/24

PI: Batista, V. Co-I: **Lisi, G.** Co-I: Palermo, G.

Amount: \$1,292,688 (total) \$430,896 (Lisi)

Project Lead, COBRE Center for the Computational Biology of Human Disease, Phase II

National Institute of General Medical Sciences, NIH – P20 GM109035

*Mapping Long-range Allosteric Pathways in CRISPR-Cas9*

09/01/21 – 08/31/26

PI: Rand, D. Project PI: **Lisi, G.**

Amount: \$239,100

Richard B. Salomon Faculty Research Award

Office of the Vice President for Research, Brown University

*Mapping the Molecular Determinants of Long-range Allostery and Specificity in CRISPR-Cas9*

03/01/21 – 06/30/22

PI: **Lisi, G.**

Amount: \$15,000

Project Lead, COBRE Center for the Computational Biology of Human Disease, Phase I

National Institute of General Medical Sciences, NIH – P20 GM109035

*Mapping Long-range Allosteric Pathways in CRISPR-Cas9*

09/01/19 – 02/28/21

PI: Rand, D. Project PI: **Lisi, G.**

Amount: \$437,396

Seed Award

Office of the Vice President for Research, Brown University

*Redox-mediated Control of Protein Structure as a Potential Therapy for Inflammation*

01/01/19 – 06/30/20

PI: **Lisi, G.**

Amount: \$30,000

Medical Research Grant

Rhode Island Foundation

*Redox Control of Immunoregulatory Factors as Targeted Therapies for Inflammation*

04/01/19 – 03/31/20

PI: **Lisi, G.**

Amount: \$25,000

Pilot Award, COBRE Center for the Computational Biology of Human Disease

National Institute of General Medical Sciences, NIH – P20 GM109035

*Developing Experimental and Computational Synergy in Studies of Enzyme Allostery*

01/01/19 – 12/31/19

PI: Rand, D. Project PI: **Lisi, G.**

Amount: \$30,000

Pilot Award, Cardiopulmonary Vascular Biology COBRE

National Institute of General Medical Sciences, NIH – P20 GM103652

*Redox Control of Macrophage Migration Inhibitory Factor Structure and Function*

PI: Harrington, E. Co-PI: Rounds, S. Project PI: **Lisi, G.**

Amount: \$50,000 (Award Declined)

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#### **Ph.D. THESES SUPERVISED:**

|   |                |
|---|----------------|
| Briana Mercado - MCB (BS University of Maryland)                                | 2025 - Present |
| Isabel (Iz) Varghese - TSGP (BS Colby College, co-advised w/ Brenda Rubenstein) | 2024 - Present |
| Alexa Knight - MCB (BS University of Washington, co-advised w/ Gerwald Jogl)    | 2023 - Present |
| Camila Molina Roca - MCB (BS Bay Path University)                               | 2023 - Present |
| Vinnie Widjaja - MCB (BS San Diego State University)                            | 2022 - Present |
| Madeline Clark - MCB (BS Christopher Newport University)                        | 2022 - Present |
| Erin Skeens - MCB (BS Tufts University)   | 2021 - 2025    |
| Jennifer Cui - MCB (BS Queen's University, MS McMaster University, Canada)      | 2020 - 2024    |
| Helen Belato - TSGP (BS University of Connecticut)                              | 2019 - 2023    |
| Emily Chen - MCB (BS Brandeis University)                                       | 2019 - 2022    |

#### **Ph.D. THESIS COMMITTEES:**

|   |                |
|---|----------------|
| Stephany Pang - MCB (Karthi Chellapa, supervisor)                                       | 2025 - Present |
| Dominique Walker - TSGP (Christina Cuomo, supervisor) - <i>committee chair</i>          | 2024 - Present |
| Hanna Kodama - MCB (Gerwald Jogl & Martin Taylor, supervisors) - <i>committee chair</i> | 2024 - Present |
| Renjith Viswanathan - TSGP (Nicolas Fawzi, supervisor) - <i>committee chair</i>         | 2024 - 2025    |
| Ryan Puterbaugh - TSGP (Nicolas Fawzi, supervisor) - <i>committee chair</i>             | 2024 - Present |
| Morgan Woodman - MCB (Kate Grive, supervisor)   | 2023 - Present |
| Gustavo Ramirez - Chemistry (Brenda Rubenstein, supervisor)                             | 2023 - Present |
| Miguel Martinez Guzman - Chemistry (Megan Kizer, supervisor)                            | 2023 - Present |
| Raphael Britt - MCB (Gerwald Jogl & John Sedivy, supervisors) - <i>committee chair</i>  | 2022 - Present |
| Noah Wake - TSGP (Nicolas Fawzi, supervisor)  | 2022 - 2025    |
| Anna Bock - Biotechnology (Nicolas Fawzi, supervisor)                                   | 2021 - 2025    |

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|  |             |
|--|-------------|
| Jose Mercado-Ortiz - TSGP (Nicolas Fawzi, supervisor) - <i>committee chair</i> | 2021 - 2024 |
| Rachel Carley - TSGP (Alan Morrison, supervisor)                               | 2021 - 2024 |
| Alexandra D'Ordine - MCB (Gerwald Jogl & John Sedivy, supervisors)             | 2021 - 2022 |
| Gerardo Reyes-Chavez - MCB (Gary Wessel, supervisor)                           | 2020 - 2025 |
| Selahaddin Gumus - Chemistry (Sarah Delaney, supervisor)                       | 2020 - 2022 |
| Anastasia Murthy - MCB (Nicolas Fawzi, supervisor)                             | 2019 - 2020 |
| Veronica Ryan - Neuroscience (Nicolas Fawzi, supervisor)                       | 2019 - 2020 |

**EXTERNAL Ph.D. READER:**

|  |      |
|--|------|
| Christopher Handelman - State University of New York at Buffalo (Michael Buck, supervisor) | 2025 |
|--|------|

**Sc.M. THESIS COMMITTEES:**

|  |      |
|--|------|
| Savannah Trychanh - Biotechnology (Arthur Salomon, supervisor) | 2025 |
| Victoria Johnson - Biotechnology (Nicolas Fawzi, supervisor)   | 2025 |
| Amber Chevannes - Biotechnology (Nicolas Fawzi, supervisor)    | 2019 |

**UNDERGRADUATE HONORS THESES SUPERVISED:**

|                     |      |
|---------------------|------|
| Sirena D'Orazio     | 2026 |
| Charlotte Dresser   | 2026 |
| Mariana Floody      | 2024 |
| Yannie Lam          | 2023 |
| Aditya Rao          | 2022 |
| Jonathan Scalabrini | 2022 |
| Nadia Goldberg      | 2021 |

**FULL LIST OF TRAINEES:**

| <b><u>Postdoctoral</u></b> | <b><u>Years</u></b> | <b><u>Current Position</u></b>                    |
|----------------------------|---------------------|---|
| Anna Bock                  | 2025 - Present      |   |
| Manish Chaubey             | 2024 - 2026         |   |
| Helen Belato               | 2024                | Postdoctoral Fellow, Brown University (M. Kizer)  |
| Emily Chen                 | 2022 - 2023         | Production Scientist, New England Biolabs         |
| Kyle East                  | 2019 - 2021         | Senior Advisor, biomolecular NMR, Eli Lilly & Co. |

| <b><u>Research Associates</u></b> | <b><u>Years</u></b> | <b><u>Current Position</u></b>      |
|-----------------------------------|---------------------|-------------------------------------|
| Camila Molina                     | 2022 (Summer)       | Ph.D. Student, Brown University MCB |
| Vinnie Widjaja                    | 2021 (Summer)       | Ph.D. Student, Brown University MCB |
| Jennifer Cui                      | 2019                | Ph.D. Student, Brown University MCB |
| Erin Skeens                       | 2018 - 2020         | Ph.D. Student, Brown University MCB |

| <b><u>Graduate Students</u></b> | <b><u>Years</u></b> | <b><u>Current Position</u></b>                   |
|---------------------------------|---------------------|--|
| Briana Mercado                  | 2025 - Present      |  |
| Isabel (Iz) Varghese            | 2024 - Present      |  |
| Alexa Knight                    | 2023 - Present      |  |
| Camila Molina                   | 2023 - Present      |  |
| Madeline Clark                  | 2022 - Present      |  |
| Vinnie Widjaja                  | 2022 - Present      |  |
| Erin Skeens                     | Ph.D. 2025          |  |
| Jennifer Cui                    | Ph.D. 2024          |  |
| Helen Belato                    | Ph.D. 2023          | Postdoctoral Fellow, Brown University (M. Kizer) |
| Emily Chen                      | Ph.D. 2022          | Production Scientist, New England Biolabs        |

| <b><u>Undergraduates</u></b> | <b><u>Years</u></b> | <b><u>Current Position</u></b>         |
|------------------------------|---------------------|--|
| Olivia Duarte                | 2025 - Present      |  |
| Anika Weiling                | 2025 - Present      |  |
| Charlotte Dresser            | 2025 - Present      |  |
| Anna Steffen                 | 2024 - 2025         | Analyst, Clearview Healthcare Partners |

|                                     |                     |  |   |
|-------------------------------------|---------------------|--|---|
| Salman Aji                          | 2024                |  |   |
| Sirena D'Orazio                     | 2023 - Present      |  |   |
| Mariana Floody                      | 2022 - 2024         | Research Associate, Yale University                  |   |
| Yannie Lam                          | 2022 - 2023         | Ph.D. Program, biochemistry, Stanford University     |   |
| Jeet Patel                          | 2022 - 2023         | M.D./Ph.D. Program, University of Florida            |   |
| Adela Herce                         | 2021 - 2022         | Research Associate, Brigham & Women's Hospital       |   |
| Aditya Rao                          | 2021 - 2022         | Georgetown University School of Medicine             |   |
| Jon Scalabrini                      | 2021 - 2022         | M.D./Ph.D. Program, Columbia University              |   |
| J.P. Moïse                          | 2020 - 2021         | West Virginia University Medical School              |   |
| Nadia Goldberg                      | 2019 - 2021         | Columbia University College of Physicians & Surgeons |   |
| Ji Yun (Estelle) Han                | 2019                | Warren Alpert Medical School of Brown University     |   |
| Samuel Croes                        | 2019 - 2021         | Life sciences consultant, Acsel Health               |   |
| <b><u>Lab Rotation Students</u></b> | <b><u>Years</u></b> | <b><u>Ph.D. Graduate Program</u></b>                 |   |
| Max Root                            | 2025                | Molecular Biology, Cell Biology & Biochemistry       |   |
| Praise Lasekan                      | 2025                | Molecular Biology, Cell Biology & Biochemistry       |   |
| Shira Strongin                      | 2025                | Therapeutic Sciences                                 |   |
| Hanna Kodama                        | 2024                | Molecular Biology, Cell Biology & Biochemistry       |   |
| Renjith Viswanathan                 | 2023                | Therapeutic Sciences                                 |   |
| Carmelissa Norbrun                  | 2021                | Therapeutic Sciences                                 |   |
| Mai Huynh                           | 2021                | Pathobiology   |   |
| Yanitza Rodriguez                   | 2020                | Molecular Biology, Cell Biology & Biochemistry       |   |
| Jennifer Dumouchel                  | 2020                | Therapeutic Sciences                                 |   |
| Gerardo Reyes-Chavez                | 2020                | Molecular Biology, Cell Biology & Biochemistry       |   |
| Maureen Dowell                      | 2019                | Molecular Biology, Cell Biology & Biochemistry       |   |
| Layra Cintron-Rivera                | 2018                | Pathobiology   |   |
| Carlos Toro                         | 2018                | Therapeutic Sciences                                 |   |
| <b><u>Visiting Students</u></b>     | <b><u>Years</u></b> | <b><u>Home Institution</u></b>                       | <b><u>Subsequent Position</u></b>                   |
| Anvit Divekar                       | 2025 - Present      | Georgia Tech, GA                                     |   |
| Allison Gallagher                   | 2019                | Washington College, MD                               | Virginia Commonwealth University School of Pharmacy |

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