

**Dr. Scott Eagon, Ph.D.**  
California Polytechnic State University  
1 Grand Avenue  
San Luis Obispo, CA 93407  
seagon@calpoly.edu

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**ACADEMIC POSITIONS:**

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- **Associate Professor** Sept. 2020—Present  
*Department of Chemistry and Biochemistry*  
*California Polytechnic State University*
- **Assistant Professor** Sept. 2014—Aug. 2020  
*Department of Chemistry and Biochemistry*  
*California Polytechnic State University*
- **Faculty Lecturer & Postdoctoral Researcher** Jan. 2011—Jul. 2014  
*Department of Chemistry and Biochemistry*  
*San Francisco State University*

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**EDUCATION:**

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- **Ph.D.** Chemistry and Biochemistry, University of California, Santa Cruz (CA)  
Thesis Title: Probing the Scope of TarB-X Mediated Asymmetric Reductions  
Advisor: Dr. Bakthan Singaram  
2005-2010
- **B.A.** Chemistry, *magna cum laude*, Whitman College (WA)  
2003-2005
- **United States Navy** Electronics Technician, Petty Officer 3<sup>rd</sup> Class  
1999-2003

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**HIGHLIGHTS:**

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- Instructed more than 3,400 students in a variety of chemistry lecture and laboratory courses.
- Synthetic organic chemist with extensive experience in the synthesis of bioactive molecules, method development and reaction optimization.
- Skilled in product purification techniques including distillation, crystallization, chromatography, and liquid-liquid extraction.
- Familiar with modern instrumentation including IR, TLC, MS, GC, HPLC, and microwave reactors. Also adept with modern NMR techniques including <sup>1</sup>H NMR (1D & 2D), <sup>13</sup>C NMR (1D, DEPT), <sup>11</sup>B NMR, <sup>15</sup>N NMR, <sup>19</sup>F NMR, and <sup>31</sup>P NMR.
- Proficient with a variety of computational docking & visualization software platforms including PyMol, Vina, ChimeraX and iDock.

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**TEACHING EXPERIENCE:**

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- **Associate Professor** Sept. 2020—Present  
*Department of Chemistry and Biochemistry*  
*California Polytechnic State University*  
Courses Taught (by Quarter):
  - Chem 110 World of Chemistry: FA21, WN22
  - Chem 216 Organic Chemistry I: FA22, FA23
  - Chem 217 Organic Chemistry II: WN23, WN24
  - Chem 218 Organic Chemistry III: SP23, SP24
  - Chem 377 Drugs & Poisons: SP21, WN22, SP22, WN23, SP23, WN24, SP24
  
- **Assistant Professor** Sept. 2014—Aug. 2020  
*Department of Chemistry and Biochemistry*  
*California Polytechnic State University*  
Courses Taught (by Quarter):
  - Chem 110 World of Chemistry: WN18, SP18, FA18, WN19
  - Chem 216/316 Organic Chemistry I: FA14, FA15, FA16, FA17, FA19,
  - Chem 217/317 Organic Chemistry II: WN15, WN16, WN17, SP17, WN20
  - Chem 218/318 Organic Chemistry III: SP15, SP16, SP20
  - Chem 223 Org. Chemistry Lab for Life Sciences III: SP16
  - Chem 319 Adv. Organic Chem. Lab: SP15
  - Chem 377 Drugs & Poisons: WN17, W18, W19, SP19, W20, SP20
  
- **Faculty Lecturer** Jan. 2011—Jul. 2014  
*Department of Chemistry and Biochemistry*  
*San Francisco State University*  
Courses Taught (by Semester):
  - Chem 101 Survey of Chemistry: SP11
  - Chem 130 Survey of Organic Chemistry: SP11, SM11
  - Chem 233 Organic Chemistry I: FA11, FA12, SP13
  - Chem 335 Organic Chemistry II: SP12, SM12, SP13, FA13
  - Chem 699 Independent Research: SP13, FA13
  
- **Graduate Teaching Assistant** 2005—2010  
*Department of Chemistry and Biochemistry*  
*University of California, Santa Cruz*  
Courses Taught (by Quarter):
  - Chem 108L Organic Chemistry Lab I: FA05, FA06, FA07, WN08
  - Chem 108M Organic Chemistry Lab II: SP06, SP07, WN06, WN07
  - Chem 108A Organic Chemistry I: FA09
  - Chem 180B Organic Chemistry II: SP08
  - Chem 112N Advanced Organic Chemistry Lab I: WN10
  - Chem 112M Advanced Organic Chemistry Lab II: SP10
  - Chem 143 Advanced Organic Chemistry I: FA08

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**MENTORSHIP EXPERIENCE:**

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- **Associate Professor** Sept. 2020—Present  
*Department of Chemistry and Biochemistry*

*California Polytechnic State University*

- Cameron Gleason (B.S. Biochemistry): Spring 2021—Spring 2022
- Mark Troftgruben (B.S. Biology): Spring 2021—Present
- Abby Kaplan (B.S. Biology): Spring 2021—Present
- Hannah Mora (B.S. Biology): Spring 2021—Present
- Connor Schmid (B.S. Chemistry): Spring 2021—Present
- Bella Oldenburg (B.S. Biochemistry): Spring 2021—Present
- Robby Lammert, Jr. (B.S. Biochemistry): Spring 2021—Present
- Kennedy Benavides (B.S. Microbiology): Spring 2022—Present
- Maya Shields (B.S. Chemistry): Spring 2022—Present
- Blake Fardanesh (B.S. Biology): Spring 2022—Present
- Julia Weckerle (B.S. Biology): Spring 2022—Present
- Brenden Young (B.S. Biochemistry): Spring 2022—Present
- Salvatore Deguara (B.S. Chemistry): Spring 2022—Present
- Bryce Igawa (B.S. Biochemistry): Summer 2022
- Madison Irons (B.S. Chemistry): Summer 2022
- Joshua Silverio (B.S. Biochemistry): Summer 2022
- Alyssa Pama (B.S. Biochemistry): Summer 2022
- Brenna Bradfield (B.S. Biochemistry): Spring 2023—Present
- Slade Schemmer (B.S. Biology): Spring 2023—Present
- Addison Sampietro (B.S. Biochemistry): Spring 2023—Present
- Adam Ordaz (B.S. Chemistry): Spring 2023—Present
- Karen Lun (Morro Bay High School): Summer 2023
- Monica Toledo (Morro Bay High School): Summer 2023
- Ayla Gharavi (Arroyo Grande High School): Summer 2023
- Justin Wang (B.S. Biochemistry): Summer 2023—Present
- Audrey Beaver (B.S. Biology): Spring 2024—Present
- Ishita Patel (B.S. Biology): Spring 2024—Present
- Ian Hutt (B.S. Chemistry): Spring 2024—Present
- Katherine Le (B.S. Biochemistry): Spring 2024—Present
- Abigail McQuaid (B.S. Biology): Spring 2024—Present
- Victor Sepulveda (B.S. Biology): Spring 2024—Present

• **Assistant Professor**

Sept. 2014—Aug. 2020

*Department of Chemistry and Biochemistry*

*California Polytechnic State University*

- Kevin Ahn (B.S. Biochemistry): Spring 2015—Spring 2016
- Grant Koch (B.S. Biochemistry): Spring 2015—Spring 2017
- Julia Tryhorn (B.S. Biochemistry): Spring 2015—Spring 2017
- Cory Chaplan (M.S. Polymers & Coating Science): Summer 2015
- Jordan Bach (B.S. Biochemistry): Fall 2015—Winter 2018
- Brianna Sierra (B.S. Chemistry): Fall 2015—Spring 2017
- Sierra Durham (B.S. Chemistry): Fall 2015—Spring 2017
- Jennifer Tran (B.S. Chemistry): Fall 2015—Spring 2017
- Bri Belanger (B.S. Biology): Fall 2015—Spring 2017
- Nikalet Everson (B.S. Biochemistry): Fall 2015—Winter 2018
- Kenya Yniguez (B.S. Biology): Fall 2015—Spring 2017
- Max Gomez (B.S. Biochemistry): Fall 2015—Spring 2017
- Tyler Sisley (B.S. Biochemistry): Spring 2016—Spring 2018
- Michael Walls (B.S. Biochemistry): Spring 2016—Fall 2017
- Horacio Lazaro (B.S. Biochemistry): Spring 2016—Spring 2017
- Anna Kashtanova (B.S. Biology): Summer 2016

- Lauren Loop (B.S. Biochemistry): Summer 2016—Spring 2018
  - Kasey Fitzsimmons (B.S. Biology): Fall 2016—Spring 2018
  - Natalie Sienko (B.S. Biology): Fall 2016—Spring 2018
  - Lucy Bowen (M.S. Computer Sciences): Fall 2017—Spring 2018
  - Dennis Li (B.S. Computer Engineering): Fall 2017—Spring 2018
  - Derek Nola (B.S. Computer Engineering): Fall 2017—Spring 2018
  - Brandon Nguyen (B.S. Biochemistry): Spring 2017—Spring 2019
  - Jarvis Law (B.S. Chemistry): Spring 2017—Spring 2019
  - Bogdan Popa (B.S. Biochemistry): Spring 2017—Spring 2019
  - Aashrita Manjunath (B.S. Biochemistry): Spring 2017—Spring 2019
  - Nathan Soderberg (B.S. Biochemistry): Spring 2017—Winter 2019
  - Ryan Schioldager (B.S. Biochemistry): Spring 2018—Spring 2020
  - Joshua Gieschen (B.S. Biochemistry): Spring 2018—Spring 2020
  - Eric Schwegman (B.S. Biochemistry): Spring 2018—Spring 2020
  - Ivan Hernandez (B.S. Chemistry): Spring 2018—Spring 2020
  - Spenser Platt (B.S. Biochemistry): Spring 2018—Spring 2020
  - Hunter Wood (B.S. Biochemistry): Spring 2018—Spring 2020
  - M. Cole Detels (B.S. Biology): Spring 2019—Present
  - Metty Verbarendse (B.S. Biomed. Engineering): Spring 2019—Spring 2021
  - Adam Cronin (B.S. Chemistry): Spring 2019—Spring 2021
  - Mary Ronquillo (B.S. Biology): Spring 2019—Spring 2021
  - Jessica Travis (B.S. Biology): Spring 2019—Spring 2021
  - Eli O'Brien (B.S. Biology): Spring 2019—Spring 2021
  - Tyler Leon (Paso Robles High School): Summer 2019
  - Kimiya Ganjooi (B.S. Biology): Spring 2020—Spring 2022
  - Neil Viswanathan (B.S. Kinesiology): Spring 2020—Spring 2022
  - Trevan Klug (B.S. Biology & B.S. Psychology): Spring 2020—Spring 2022
  - Hunter Johnson (B.S. Biology): Spring 2020—Spring 2022
  - Chloe Wong (B.S. Chemistry): Spring 2020—Spring 2022
  - Julia Gibbs (B.S. Biochemistry): Spring 2020—Spring 2022
  - McClane Howland (B.S. Computer Science): Spring 2020—Spring 2021
- **Faculty Lecturer** Jan. 2011—Jul. 2014  
*Department of Chemistry and Biochemistry*  
*San Francisco State University*
    - Nick Whittington-Davis (B.S. Chemistry): 2013-2014
  - **Graduate Student** 2005—2010  
*Department of Chemistry and Biochemistry*  
*University of California, Santa Cruz*
    - Katie Yan (B.S. Chemistry): 2007-2008
    - Nick Ball-Jones (Ph.D. Organic Chemistry) 2007-2009
    - Cassandra Delieto (B.S. Chemistry) 2008-2010
    - Matthew Buckman (MSES Civil Engineering) 2009-2010

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## PUBLICATIONS:

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26) Viswanathan, Neil; Chirgwin, Michael E.; Gibbs, Julia; Kalaj, Brianna N.; Durham, Sierra; Tran, Jennifer; Gomez, Maximillian; Lazaro, Horacio; Chen, Ming; Mansfield, Christopher R.; Derbyshire, Emily R.; **Eagon, Scott**. Synthesis and Activity of  $\beta$ -Carboline Antimalarials Targeting the *Plasmodium falciparum* Heat Shock 90 Protein. *Bioorg. Med. Chem. Lett.*, **2023**, 92, 129410.

- 25) Wong, Chloe D.; Ganjooi, Kimiya; Verbarendse, Maetja; Travis, Jessica M.; Troftgruben, Mark H. S.; Mora, Hannah R.; Oldenburg, Isabella; Lammert; Robert Jr.; Lazaro, Horacio; **Eagon, Scott**. Synthesis of Benzoxazoles via a Silver Mediated Oxidation. *Synth Commun.*, **2023**, 53, 32-39.
- 24) Johnson, Hunter; Gleason, Cameron; Klug, Trevan; Schmid, Connor; Schioldager, Ryan; DiBernardo, Celine; **Eagon, Scott**. Improved Synthesis of 5-Ethylsulfonyl-2-methoxyaniline. *Org. Prep. Proced. Int.*, **2022**, 54, 435-439.
- 23) Klug, Trevan; Cronin, Adam; O'Brien, Eli; Schioldager, Ryan; Johnson, Hunter; Gleason, Cameron; Schmid, Connor; Soderberg, Nathan; Manjunath, Aashrita; Liyanage, Duminda; Lazaro, Horacio; Kimball, Joshua J.; **Eagon, Scott**. Microwave Mediated Synthesis of 2-Aminooxazoles. *Tetrahedron Lett.*, **2022**, 88, 153555.
- 22) **Eagon, Scott**; Howland, McClane; Heying, Michael; Callant, Emma; Brar, Nimrat; Pompa, Emmett; Mallari, Jeremy P. Identification of *Plasmodium falciparum* Falcilysin Inhibitors by a Virtual Screen. *Bioorg. Med. Chem. Lett.*, **2021**, 52, 128394.
- 21) **Eagon, Scott**; Hammill, Jared T.; Fitzsimmons, Kasey; Sienko, Natalie; Nguyen, Brandon; Law, Jarvis; Manjunath, Aashrita; Wilkinson, Steven P.; Thompson, Kara; Glidden, Julia Elizabeth; Rice, Amy L.; Falade, Mofolusho O.; Kimball, Joshua J.; DiBernardo, Celine; Guy, R. Kiplin. Antimalarial Activity of 2,5-Dibenzylidenecyclohexanone Derivatives. *Bioorg. Med. Chem. Lett.*, **2021**, 47, 128216.
- 20) Zhang, Linlin; Howland, McClane; Hilgenfeld, Rolf; Anderson, Marc O.; **Eagon, Scott**. Identification of Non-Covalent SARS-CoV-2 Main Protease Inhibitors by a Virtual Screen of Commercially Available Drug-Like Compounds. *Bioorg. Med. Chem. Lett.*, **2021**, 41, 127990.
- 19) Everson, Nikalet; Bach, Jordan; Hammill, Jared T.; Falade, Mofolusho O.; Rice, Amy L.; Guy, R. Kiplin; **Eagon, Scott**. Identification of *Plasmodium falciparum* Heat Shock 90 Inhibitors via Molecular Docking. *Bioorg. Med. Chem. Lett.*, **2021**, 35, 127818.
- 18) Kahlon, Gulbag; Lira, Rogelio; Masvlov, Nikolay; Pompa, Emma; Brar, Nimrat; **Eagon, Scott**; Anderson, Marc O.; Andaya, Armann; Chance, Jeff P.; Fejzic, Hannah; Keniston, Aaron; Vidal, Brian; Trieu, Nicholas; Rodriguez, Paulina; Mallari, Jeremy P. Structure Guided Development of Potent Piperazine-Derived Hydroxamic Acid inhibitors Targeting Falcilysin. *Bioorg. Med. Chem. Lett.*, **2021**, 32, 127683.
- 17) **Eagon, Scott**; Hammill, Jared T.; Sigal, Martina; Ahn, Kevin J.; Tryhorn, Julia E.; Koch, Grant; Belanger, Briana; Chaplan, Cory A.; Loop, Lauren; Kashtanova, Anna S.; Yniguez, Kenya; Lazaro, Horacio; Wilkinson, Steven P.; Rice, Amy L.; Falade, Mofolusho O.; Takahashi, Rei; Kim, Katie; Cheung, Ashley; DiBernardo, Celine; Kimball, Joshua J.; Winzeler, Elizabeth A.; Eribez, Korina; Mittal, Nimisha; Gamo, Francisco-Javier; Crespo; Benigno; Churchyard, Alisje; Garcia-Barbazan, Irene; Baum, Jake; Anderson, Marc O.; Laleu, Beniot; Guy, R. Kiplin. Synthesis and Structure-Activity Relationship of Dual-Stage Antimalarial Pyrazolo[3,4-*b*]pyridines. *J. Med. Chem.* **2020**, 63, 11902-11919.
- 16) **Eagon, Scott**; Hammill, Jared T.; Bach, Jordan; Everson, Nikalet; Sisley, Tyler A.; Walls, Michael J.; Durham, Sierra; Pillai, Dylan R.; Falade, Mofolusho O.; Rice, Amy L.; Kimball, Joshua J.; Lazaro, Horacio; DiBernardo, Celine; Guy, R. Kiplin. Antimalarial Activity of Tetrahydro- $\beta$ -carboline Targeting the ATP Binding Pocket of the *Plasmodium falciparum* Heat Shock 90 Protein. *Bioorg. Med. Chem. Lett.* **2020**, 30, 127502.

- 15) Masters, Lily; **Eagon, Scott**; Heying, Michael. Evaluation of Scoring Methods for AutoDock Vina, Smina and iDock. *J. Mol. Graph. Model.* **2020**, 96, 107532.
- 14) Law, Jarvis; Manjunath, Aashrita; Schioldager, Ryan; **Eagon, Scott**. Microwave-Assisted Preparation of 1-Aryl-1*H*-pyrazole-5-amines. *J. Vis. Exp.*, **2019**, 148, e59896.
- 13) Bowen, Lucy R.; Li, Dennis J.; Nola, Derek T.; Anderson, Marc O.; Heying, Michael; Groves, Adam T.; **Eagon, Scott**. Identification of Potential Zika Virus NS2B-NS3 Protease Inhibitors via Docking, Molecular Dynamics and Consensus Scoring-Based Virtual Screening. *J. Mol. Model.*, **2019**, 25, 194.
- 12) Everson, Nikalet; Yniguez, Kenya; Loop, Lauren; Lazaro, Horacio; Belanger, Briana; Koch, Grant; Bach, Jordan; Manjunath, Aashrita; Schioldager, Ryan; Law, Jarvis; Grabenauer, Megan; **Eagon, Scott**. Microwave Synthesis of 1-Aryl-1*H*-pyrazole-5-amine. *Tetrahedron Lett.*, **2019**, 60, 72-74.
- 11) Durham, Sierra; Sierra, Brianna; Gomez, Maximillian; Tran, Jennifer; Anderson, Marc; Whittington-Davis, Nick; **Eagon, Scott**. Synthesis of  $\beta$ -Carbolines via a Silver Mediated Oxidation of Tetrahydro- $\beta$ -carbolines. *Tetrahedron Lett.*, **2017**, 58, 2747-2750.
- 10) Bayih, Abebe; Folefoc, Asonga; Mohon, Abu; **Eagon, Scott**; Anderson, Marc; Pillai, Dylan. In Vitro and In Vivo Anti-Malarial Activity of Novel Harmine-Analog Heat Shock Protein 90 Inhibitors: A Possible Partner for Artemisinin. *Malar. J.* **2016**, 15, 579.
- 9) **Eagon, Scott**; Anderson, Marc. Microwave-Assisted Synthesis of Tetrahydro- $\beta$ -carbolines and  $\beta$ -Carbolines. *Eur. J. Org. Chem.* **2014**, 8, 1653-1665.
- 8) Bailey, Christopher; Murphy, Chris; Clary, Jacob; **Eagon, Scott**; Gould, Naomi, Singaram, Bakthan. Reaction of Grignard Reagents with Diisopropylaminoborane. Synthesis of Alkyl, Aryl, Heteroaryl, and Allyl Boronic Acids from Organo(diisopropyl)aminoborane by a Simple Hydrolysis. *Heterocycles* **2012**, 86, 331-342.
- 7) Saavedra, Jaime; Resendez, Angel; Rovira, Alexander; **Eagon, Scott**; Haddenham, Dustin; Singaram, Bakthan. Reaction of  $\text{In}_3\text{Cl}$  with Various Reducing Agents:  $\text{In}_3\text{Cl}$ - $\text{NaBH}_4$  Mediated Reduction of Aromatic and Aliphatic Nitriles to Primary Amines. *J. Org. Chem.* **2012**, 77, 221-228.
- 6) Haddenham, Dustin; Baily, Christopher; Vu, Chau; Nepomuceno, Gabby; **Eagon, Scott**; Pasumansky, Lubov; Singaram, Bakthan. Lithium Aminoborohydrides 17. Palladium Catalyzed Borylation of Aryl Iodides, Bromides, and Triflates with Diisopropylaminoborane Prepared from Lithium Diisopropylaminoborohydride. *Tetrahedron* **2011**, 67, 576-583.
- 5) **Eagon, Scott**; Ball-Jones, Nicholas; Haddenham, Dustin; Saavedra, Jaime; DeLieto, Cassandra; Buckman, Matthew; Singaram, Bakthan. Enantioselective reduction of  $\alpha$ -Substituted Ketones Mediated by the Boronate Ester TarB- $\text{NO}_2$ . *Tetrahedron Lett.* **2010**, 51, 6418-6421.
- 4) **Eagon, Scott**; DeLieto, Cassandra; McDonald, William; Haddenham, Dustin; Saavedra, Jaime; Kim, Jinsoo; Singaram, Bakthan. Mild and Expedient Asymmetric

Reductions of  $\alpha,\beta$ -Unsaturated Alkenyl and Alkynyl Ketones by TarB-NO<sub>2</sub> and Mechanistic Investigations of Ketone Reduction. *J. Org. Chem.* **2010**, 75, 7717-7725.

3) Haddenham, Dustin; Pasumansky, Lubov; DeSoto, Jamie; **Eagon, Scott**; Singaram, Bakthan. Reductions of Aliphatic and Aromatic Nitriles to Primary Amines with Diisopropylaminoborane. *J. Org. Chem.* **2009**, 74, 1964-1970.

2) **Eagon, Scott**; Kim, Jinsoo; Singaram, Bakthan. Mild and Practical Reductions of Prochiral Ketones to Alcohols Using the Chiral Boronic Ester TarB-H. *Synthesis* **2008**, 23, 3874-3876.

1) **Eagon, Scott**; Kim, Jinsoo; Yan, Katie; Haddenham, Dustin; Singaram, Bakthan. Asymmetric Reductions Using the Chiral Boronic Ester TarB-H: A Practical and Inexpensive Procedure for Synthesizing Chiral Alcohols. *Tetrahedron Lett.* **2007**, 48, 9025-9029.

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## PRESENTATIONS:

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64) McQuaid, Abigail; Hutt, Ian; Beaver, Audrey; Sepulveda, Victor; **Eagon, Scott**. Therapeutics Targeting the Iron Acquisition Systems of *Escherichia coli* for the Treatment of Urinary Tract Infections. *Bailey College Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2024**.

63) Ordaz, Adam; Schemmer, Slade; Le, Katherine; Young, Brenden; Wang, Justin; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *Bailey College Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2024**.

62) Bradfield, Brenna; Sampietro, Addison; Weckerle, Julia; **Eagon, Scott**. Synthesis of Isoflavones as New Treatments for Leishmaniasis. *Bailey College Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2024**.

61) Patel, Ishita; Deguara, Salvatore; **Eagon, Scott**. Synthesis of Inhibitors of Cathespin B as a Treatment for Anthrax and Ebola. *Bailey College Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2024**.

60) **Eagon, Scott**. Chemist in the Classroom: Teaching & Maintaining a Meaningful Research Program with Undergraduates. *Invited Speaker*. University of California, Irvine. Irvine, CA. November 15, **2023**.

59) Mora, Hannah; Young, Brenden; Troftgruben, Mark; Schemmer, Slade; Ordaz, Adam; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *266<sup>th</sup> ACS National Meeting and Exposition*, San Francisco, CA. August 13, **2023**.

58) Oldenburg, Isabella; Kaplan, Abigail; **Eagon, Scott**. Therapeutics Targeting the Iron Acquisition Systems of *Escherichia coli* for the Treatment of Urinary Tract Infections. *266<sup>th</sup> ACS National Meeting and Exposition*, San Francisco, CA. August 13, **2023**.

57) Weckerle, Julia B.; Schmid, Connor; Benevides, Kennedy; Fardanesh, Blake; Shields, Maya, Bradfield, Brenna; Sampietro, Addison; **Eagon, Scott**. Synthesis of Isoflavones as New Treatments for Leishmaniasis. *266<sup>th</sup> ACS National Meeting and Exposition*, San Francisco, CA. August 13, **2023**.

56) Deguara, Salvatore<sup>‡</sup>; **Eagon, Scott**. Synthesis of Inhibitors of Cathepsin B as a Treatment for Anthrax and Ebola. *266<sup>th</sup> ACS National Meeting and Exposition*, San Francisco, CA. August 13, **2023**.

55) Kaplan, Abigail; Oldenberg, Isabella; **Eagon, Scott**. Therapeutics Targeting the Iron Acquisition Systems of *Escherichia coli* for the Treatment of Urinary Tract Infections. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 18, **2023**.

54) Weckerle, Julia Baptista; Shields, Maya; Fardanesh, Blake; Schmid, Connor; Bradfield, Brenna; Sampietro, Addison; **Eagon, Scott**. Synthesis of Isoflavones as New Treatments for Leishmaniasis. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 18, **2023**.

53) Troftgruben, Mark; Mora, Hannah; Young, Brenden; Ordaz, Adam; Schemmer, Slade; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 18, **2023**.

52) Deguara, Salvatore; **Eagon, Scott**. Synthesis of Cathepsin B Inhibitors as a Treatment Targeting Anthrax and Ebola. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 18, **2023**.

51) **Eagon, Scott**. Chemist in the Classroom: Teaching & Maintaining a Meaningful Research Program with Undergraduates. *Invited speaker*. University of California, Santa Cruz, Santa Cruz CA. September 26, **2022**.

50) Weckerle, Julia Baptista; Fardanesh, Blake; Benavides, Kennedy; Shields, Maya; Schmid, Connor; **Eagon, Scott**. Synthesis of Isoflavones as New Treatments for Leishmaniasis. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 14, **2022**.

49) Viswanathan, Neil K.; Gibbs, Julia. M.; Deguara, Salvatore; **Eagon, Scott**. Synthesis of Inhibitors of Cathepsin B as a Treatment for Anthrax and Ebola. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 14, **2022**.

48) Ganjooi, Kimiya; Wong, Chloe; Troftgruben, Mark; Mora, Hannah; Young, Brenden; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors Targeting Kinase CK2. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 14, **2022**.

47) Klug, Trevan; Johnson, Kieran; Gleason, Cameron; Schmid, Connor; **Eagon, Scott**. Synthesis of 2-Aminooxazole Inhibitors Targeting Kinase STK16. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 14, **2022**.

46) Kaplan, Abigail; Oldenburg, Isabella; **Eagon, Scott**. Therapeutics Targeting the Iron Acquisition Systems of *E. coli* for the Treatment of Urinary Tract Infections. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 14, **2022**.



- 45) Gibbs, Julia; Viswanathan, Neil K.; **Eagon, Scott**. Synthesis of Inhibitors of Cathepsin B as a Treatment for Anthrax and Ebola. *263<sup>rd</sup> ACS National Meeting and Exposition*, San Diego, CA. March 20, **2022**.
- 44) Wong, Chloe; Ganjooi, Kimiya; Troftgruben, Mark; Mora, Hannah; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors Targeting Kinase CK2. *263<sup>rd</sup> ACS National Meeting and Exposition*, San Diego, CA. March 20, **2022**.
- 43) Johnson, Kieran; Klug, Trevan K.; Gleason, Cameron; Schmid, Connor; **Eagon, Scott**. Synthesis of 2-Aminooxazole Inhibitors Targeting Kinase STK16. *263<sup>rd</sup> ACS National Meeting and Exposition*, San Diego, CA. March 20, **2022**.
- 42) Kaplan, Abigail; Oldenburg, Isabella; **Eagon, Scott**. Therapeutics Targeting the Iron Acquisition Systems of *E. coli* for the Treatment of Urinary Tract Infections. *263<sup>rd</sup> ACS National Meeting and Exposition*, San Diego, CA. March 20, **2022**.
- 41) Howland, McClane; **Eagon, Scott**. Identifying Inhibitors of SARS-CoV-2 with a Virtual Screen. *Cal Poly's COVID-19-Related Research Showcase*, Virtual Conference. May 20, **2021**.
- 40) Wood, Hunter; Hernandez, Ivan; Gieschen, Josh; Viswanathan, Neil; Gibbs, Julia; **Eagon, Scott**. Synthesis of Inhibitors of Cathepsin B as a Treatment for Anthrax and Ebola. *260<sup>th</sup> American Chemical Society Meeting and Exposition*, Virtual Conference. August 17, **2020**.
- 39) Schwegman, Eric; Verbarendse, Maetja; Travis, Jessica; Ganjooi, Kimiya; Wong, Chloe; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors Targeting Kinase CK2. *260<sup>th</sup> American Chemical Society Meeting and Exposition*, Virtual Conference. August 17, **2020**.
- 38) Schioldager, Ryan; Cronin, Adam; O'Brien, Eli; Klug, Trevan; Johnson, Hunter; Liyanage, Duminda; **Eagon, Scott**. Synthesis of 2-Aminooxazole Inhibitors Targeting Kinase STK-16. *260<sup>th</sup> American Chemical Society Meeting and Exposition*, Virtual Conference. August 17, **2020**.
- 37) Platt, Spenser; Detels, M. Cole; Ronquillo, Mary Rose; **Eagon, Scott**. Therapeutics Targeting the Iron Acquisition Systems of *E. coli* for the Treatment of Urinary Tract Infections. *260<sup>th</sup> American Chemical Society Meeting and Exposition*, Virtual Conference. August 17, **2020**.
- 36) Cronin, Adam; **Eagon, Scott**. Novel 2-Aminooxazole Inhibitors of Kinase STK16. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 14, **2020**.
- 35) Platt, Spenser; **Eagon, Scott**. Development of Therapeutics Targeting the Iron Acquisition System of *E. Coli* to Treat Urinary Tract Infections. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 16, **2019**.
- 34) Schwegman, Eric; Popa, Bogdan D.; Verbarendse, Maetja; Travis, Jessica; Leon, Tyler D.; Liyanage, Duminda; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 16, **2019**.

- 33) Hernandez, Ivan; Wood, Hunter; Platt, Spenser; Gieschen, Josh; **Eagon, Scott**. Investigation of Amodiaquine Derivatives as a Treatment for Anthrax and Ebola. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 16, **2019**.
- 32) Schioldager, Ryan; Manjunath, Aashrita; Soderberg, Nathan; Cronin, Adam; O'Brien, Eli; Liyanage, Duminda; **Eagon, Scott**. Synthesis of 2-Aminooxazole Inhibitors of Kinase STK16. *258<sup>th</sup> American Chemical Society Meeting and Exposition*, San Diego, CA. August 25, **2019**.
- 31) Platt, Spenser; Hernandez, Ivan D.; Wood, Hunter; Gieschen, Josh; **Eagon, Scott**. Synthesis of Cathepsin B Inhibitors as Treatment Targeting Anthrax and Ebola. *258<sup>th</sup> American Chemical Society Meeting and Exposition*, San Diego, CA. August 25, **2019**.
- 30) Popa, Bogdan D.; Schwegman, Eric; Verbarendse, Maetja; Travis, Jessica; Liyanage, Duminda; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *258<sup>th</sup> American Chemical Society Meeting and Exposition*, San Diego, CA. August 25, **2019**.
- 29) Schioldager, Ryan; Manjunath, Aashrita; Soderberg, Nathan; Cronin, Adam; O'Brien, Eli; Liyanage, Duminda; **Eagon, Scott**. Synthesis of 2-Aminooxazole Inhibitors of Kinase STK16. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2019**.
- 28) Popa, Bogdan; Schwegman, Eric; Verbarendse, Maetja; Travis, Jessica; Liyanage, Duminda; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2019**.
- 27) Platt, Spenser; Hernandez, Ivan; Wood, Hunter; Gieschen, Josh; **Eagon, Scott**. Synthesis of Cathepsin B Inhibitors as a Treatment Targeting Anthrax and Ebola. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2019**.
- 26) Masters, Lily; Heying, Michael; **Eagon, Scott**. Consensus Scoring of Three Free Structure-Based Virtual Screening Docking Programs Does Not Outperform One Individually. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 17, **2019**.
- 25) Manjunath, Aashrita; Schioldager, Ryan; **Eagon, Scott**. Construction of the 5-Aminooxazole Probe Care Targeting Kinase STK-16. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 29, **2018**.
- 24) Law, Jarvis; Sapper, Erik; **Eagon, Scott**. Exploration of Functionalized Carbolines for Antimicrobial Applications. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 29, **2018**.
- 23) Fitzsimmons, Kasey; Sienko, Natalie; Nguyen, Brandon; Law, Jarvis; Manjunath, Aashrita, **Eagon, Scott**. Investigation of 4,4-Disubstituted Cyclohexanone Derivatives as Potential Treatments for Multi-Drug Resistant Malaria. *College of Science and Math*

*Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2018**.

22) Popa, Bogdan D.; Schwegman, Eric; Soderberg, Nathan; Liyanage, Duminda; **Eagon, Scott**. Synthesis of Benzoxazole Inhibitors of Kinase CK2. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2018**.

21) Manjunath, Aashrita; Schioldager, Ryan; Liyanage, Duminda; **Eagon, Scott**. Synthesis of 2-Aminooxazole Inhibitors of Kinase STK-16. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2018**.

20) Bowen, Lucy; Li, Dennis; Nola, Derek; **Eagon, Scott**. MPiDock. *Computer Engineering Capstone Design Expo*, California Polytechnic State University, San Luis Obispo, CA. March 15, **2018**.

19) Fitzsimmons, Kasey; Sienko, Natalie; **Eagon, Scott**. Investigation of 4,4-Disubstituted Cyclohexanone Derivatives as Potential Treatments for Multi-Drug Resistant Malaria. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 18, **2017**.

18) Koch, Grant; Tryhorn, Julia; Ahn, Kevin; Belanger, Bri; Yniguez, Kenya; Lazaro, Horacio; Kashtanova, Anna; **Eagon, Scott**. Synthesis of Anti-Malarial Compounds Targeting the APT4 Protein in *Plasmodium Falciparum*. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2017**.

17) Sierra, Brianna; Durham, Sierra; Tran, Jennifer; Gomez, Max; **Eagon, Scott**. Synthesis of  $\beta$ -Carbolines via a Silver-Mediated Oxidation of Tetrahydro- $\beta$ -carbolines. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2017**.

16) Loop, Lauren; Yniguez, Kenya; Belanger, Bri; Lazaro, Horacio; Koch, Grant; **Eagon, Scott**. Cooked to Perfection: Microwave Synthesis of 5-Aminopyrazole Derivatives. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2017**.

15) Fitzsimmons, Kasey; Sienko, Natalie; Nguyen, Brandon; Law, Jarvis; Manjunath, Aashrita; **Eagon, Scott**. Investigation of 4,4-Disubstituted Cyclohexanone Derivatives as Potential Treatments for Multi-Drug Resistant Malaria. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 19, **2017**.

14) Koch, Grant; Tryhorn, Julia; Ahn, Kevin; Belanger, Bri; Yniguez, Kenya; Lazaro, Horacio; Kashtanova, Anna; **Eagon, Scott**. Synthesis of Anti-Malarial Compounds Targeting the APT4 Protein in *Plasmodium Falciparum*. *253<sup>rd</sup> American Chemical Society Meeting & Exposition*, San Francisco, CA. April 2, **2017**.

13) Everson, Nikalet; Bach, Jordan; Sisley, Tyler; Walls, Michael; **Eagon, Scott**. Anti-Malarials Targeting the Heat Shock 90 Protein of *Plasmodium Falciparum*. *253<sup>rd</sup> American Chemical Society Meeting & Exposition*, San Francisco, CA. April 2, **2017**.

- 12) Sierra, Brianna; Durham, Sierra; Tran, Jennifer; Gomez, Max; **Eagon, Scott**. Synthesis of  $\beta$ -Carbolines via a Silver-Mediated Oxidation of Tetrahydro- $\beta$ -carbolines. *253<sup>rd</sup> American Chemical Society Meeting & Exposition*, San Francisco, CA. April 2, **2017**.
- 11) Yniguez, Kenya; Moreno, Timothy; McDonald, Ashley; **Eagon, Scott**; Jones, Eric. Toward Raman-Based Diagnostics for Amatoxins: Synthetic, Computational and Spectroscopic Studies on Analogs of the Substituted Tryptathionine Sulfoxide Core of Amanitins, the Peptide Toxins of *Amanita Phalloides*. *253<sup>rd</sup> American Chemical Society Meeting & Exposition*, San Francisco, CA. April 2, **2017**.
- 10) Everson, Nikalet; Walls, Michael; **Eagon, Scott**. Turning Up the Heat on Malaria: Targeting PfHsp90 in Multi-Drug Resistant Malaria. *Mustang Family Weekend*, California Polytechnic State University, San Luis Obispo, CA. October 21, **2016**.
- 9) Everson, Nikalet; Bach, Jordan; Max Gomez; **Eagon, Scott**. Advancements in Carboline Chemistry to Combat Multi Drug-Resistant Strains of Malaria. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 12, **2016**.
- 8) Anna Kashtanova; Horacio Lazaro; Lauren Loop; Kenya Yniguez; **Eagon, Scott**. Development of Anti-Malarial Drugs: The Fight Against Multi-Drug Resistant Malaria. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 12, **2016**.
- 7) Everson, Nikalet; Bach, Jordan; Sisley, Tyler; Walls, Michael; **Eagon, Scott**. Turning Up the Heat on Malaria: Targeting PfHsp90 in Multi-Drug Resistant Malaria. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 13, **2016**.
- 6) Durham, Sierra; Sierra, Brianna; Tran, Jennifer; Gomez, Max; **Eagon, Scott**. Synthesis of  $\beta$ -Carbolines by Silver-Mediated Oxidation. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 13, **2016**.
- 5) Ahn, Kevin; Tryhorn, Julia; Koch, Grant; Yniguez, Kenya; Lazaro, Horacio; **Eagon, Scott**. The Synthesis of Anti-Malarial Drug Derivatives. *College of Science and Math Student Research Conference*, California Polytechnic State University, San Luis Obispo, CA. May 13, **2016**.
- 4) Ahn, Kevin; Tryhorn, Julia; Koch, Grant; **Eagon, Scott**. Development of New Treatments for Multi-Drug Resistant Malaria. *Frost Summer Research Symposium*, California Polytechnic State University, San Luis Obispo, CA. August 13, **2015**.
- 3) **Eagon, Scott**. Microwave Assisted Synthesis of Tetrahydro- $\beta$ -carbolines and  $\beta$ -Carbolines as Potential Anti-Malarial Agents. University of California Santa Cruz, Santa Cruz, CA., October 10, **2013**.
- 2) **Eagon, Scott**. Microwave Assisted Synthesis of Tetrahydro- $\beta$ -carbolines and  $\beta$ -Carbolines as Potential Anti-Malarial Agents. San Francisco State University, San Francisco, CA., September 13, **2013**.

- 1) **Eagon, Scott**; Delieto, Cassandra; Haddenham, Dustin; Saavedra, Jaime; Singaram, Bakthan. Expedient and Mild Procedure for the Asymmetric Reduction of Alkynyl Ketones Abstracts of Papers, 239<sup>th</sup> ACS National Meeting, San Francisco, CA., March 21-25, **2010**.

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#### **PATENTS:**

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- 1) Yep, Alejandra; **Eagon, Scott**. TonB Inhibitors and Uses Thereof as Antibacterial Agents. U.S. Provisional Patent No. 63/644,862, P14732US00, **2024**.
- 2) **Eagon, Scott**; Guy, Rodney; Hammill, Jared. Preparation of Pyrazolo[3,4-*b*]pyridines as Antimalarials. U.S. Patent No. 11,578,071, US11578071B2, **2023**.

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#### **MEDIA APPEARANCES:**

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- Cottingham, Katie. Targeting Iron Uptake to Create a New Class of Antibiotics against UTIs. *ACS National Press Conference*, August 19, **2020**.  
[www.acs.org/fall2020pressconferences](http://www.acs.org/fall2020pressconferences)
- Padilla, Genelle. Cal Poly Students Produce Backup Supply of Hand Sanitizer. *KCOY*, May 22, **2020**. <https://keyt.com/news/san-luis-obispo-county/2020/05/22/cal-poly-students-produce-backup-supply-of-hand-sanitizer/>

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#### **SERVICE AND UNIVERSITY CITIZENSHIP**

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##### **A. SERVICE TO DEPARTMENT**

- Chair, Safety Committee (Fall 2020—Spring 2020, Fall 2023—Present)
- Member, Safety Committee (Fall 2015—Present)
- Organic Chemistry search committee members (Spring 2024)
- Co-organized student travel to the 266<sup>th</sup> ACS Meeting (August 2023)
- Managed a program to connect local high school student volunteers with summer research faculty (Summer 2023 & 2024)
- Organized student registration for 260<sup>th</sup> ACS Virtual Meeting (August 2020)
- Organized faculty and student trip to 258<sup>th</sup> ACS Meeting (August 2019)
- Interim Chem110 Course Coordinator (Winter 2018)
- Chemical oceanographer search committee member (Spring 2016)
- Inorganic chemistry search committee member (Winter 2016)
- Department Webmaster (Summer 2015—Spring 2017)
- Biochemistry/Organic chemistry search committee member (Spring 2015)
- Physical chemistry search committee member (Fall 2014)

##### **B. SERVICE TO UNIVERSITY**

- Organized a team of student to produce hand sanitizer for campus use during the SARS-CoV2 epidemic
  - [https://calpolynews.calpoly.edu/news\\_releases/2020/may/hand\\_sanitizer](https://calpolynews.calpoly.edu/news_releases/2020/may/hand_sanitizer)
- Wrote an article countering anti-vaccine information promulgated by a colleague in Biology in an effort to keep the students informed and empowered to make evidence-based decisions to keep themselves safe.

- <https://mustangnews.net/letter-to-the-editor-debunking-junk-covid-19-science-from-pat-fidopiastis/>
- Attended every Fall & Spring Commencement since appointment
- Advisor to the American Medical Student Association (Fall 2020—Present)
- Participated in every Fall General Orientation for new students since appointment
- Member of the Veteran Success Team (<http://veteransuccess.calpoly.edu/>)
- Participate in annual department tours of the undergraduate research labs
- Gave lab tours for 5<sup>th</sup>-8<sup>th</sup> grade children enrolled in the Learn by Doing Lab summer camp (Summer 2016, 2018 & 2019)
- Member of the Campus Hunger Program (Fall 2015—Spring 2017)
- Veterans' Success Center full-time coordinator search committee member (Fall 2017, Winter 2018)
- Advisor to the Cal Poly Undergraduate Research Association (2017-2019)
  - <https://uracalpoly.wordpress.com/>

### C. SERVICE TO THE SCIENTIFIC COMMUNITY

- Maintain a custom database of millions of commercially available compounds for *in silico* screening studies which is freely available to the scientific community by request through my website.
- Made a computational drug design module with complete tutorials and example problems available to the teaching community through my website
  - [https://eagonlab.github.io/docking\\_in\\_the\\_classroom.html](https://eagonlab.github.io/docking_in_the_classroom.html)
- Served as a peer reviewer for a total of 32 scientific articles since appointment in numerous indexed journals including:
  - European Journal of Organic Chemistry
  - European Journal of Medicinal Chemistry
  - Synthesis
  - Tetrahedron
  - Bioorganic & Medicinal Chemistry
  - ChemMedChem
  - Journal of Medical Virology
  - Archiv der Pharmazie
  - Journal of Enzyme Inhibition and Medicinal Chemistry
- NSF grant panelist (2021)