G. Leslie Burnett

Redwood City, CA 94061 glesliebURNETT@gmail.com

Experience

Senior Scientist I – REVOLUTION Medicines 3/2019 – Present

- Lead chemist for the $KRAS^{G12D}$ program
- Managed 2 direct reports
- 4 intellectual property disclosures under prosecution

Scientist II – REVOLUTION Medicines 9/2016 – 3/2019

- Lead Chemist for the 4EBP1 program through DC nomination of RMC-5552 – development of an mTORC1 selective bi-steric inhibitor
- Managed 1 direct report
- Managed FTEs across two different CROs (domestic and international)
- Scaled-up RMC-4630 leading up to DC nomination for the SHP2 program

Postdoctoral Research Associate – Materials Department, University of California, Santa Barbara 1/2014 – 7/2016

- Developed a method to synthesize sterically hindered small molecule amines under ATRP-like conditions
- Quantified methylene bridge crosslinking within chloromethylated polystyrene-divinylbenzene resins utilizing solid-state NMR
- Partnered with Dow Water & Process Solutions to functionalize crosslinked resins
- Examined metal binding affinities of functionalized resins with inductively coupled plasma (ICP-AES)
- Collaborated with the NAVY (Naval Surface Warfare Center) to provide NMR, FTIR, and GPC-MALS polymer characterization
- Mentored two summer research interns
- One intellectual property disclosure

Lecturer – Department of Chemistry, University of California, Santa Barbara 9/2013 – 12/2013

- Chem 109B: Organic Chemistry – Structure, Reactivity, and Synthesis of Organic Molecules

Graduate Research Assistant – University of California, Santa Barbara 6/2008 – 6/2013

- Developed enantioselective access to late-stage chiral 2,5-cyclohexadienone intermediates en route to scyphostatin analogues through the dearomatization of substituted tyrosines
- Accessed the core of the marine natural product paecilospirone utilizing an inverse demand Diels–Alder reaction of an *ortho*-quinone methide
- Mentored three honors undergraduate students in independent research
- Trained colleagues on usage and maintenance of analytical instrumentation
- Safety supervisor for the Pettus group and Environmental Health & Safety primary contact
  - Oversaw development of Chemical Hygiene Plan and hazardous chemical SOPs

Undergraduate Research Assistant – Temple University 1/2007 – 5/2008

- Developed a seven-step route for the synthesis of *N*-hydroxyhomophthalimide analogues for testing as influenza endonuclease inhibitors
- Project lead for a team of 10 undergraduate researchers
- Mentored one high school summer research student

Education

Ph.D., Organic Chemistry, University of California, Santa Barbara, CA (GPA 3.83/4.0) 9/2008 – 6/2013

- Dissertation: "A Synthetic Approach Towards Paecilospirone"
- Advisor: Professor Thomas R. R. Pettus

B.S., Chemistry with Distinction, Temple University, Philadelphia, PA 9/2004 – 5/2008

- Advisor: Professor Scott McN. Sieburth

Publications

- Feng, Z.-G.; **Burnett, G. L.**; Pettus, T. R. R. A Biomimetic Synthesis of des-Hydroxy Paecilospirone. *Synlett* **2018**, *29*, 1517–1519.

- Poelma, S. O.; Oh, S. S.; Helmy, S.; Knight, A. S.; **Burnett, G. L.**; Soh, H. T.; Hawker, C. J.; Read de Alaniz, J. Controlled Drug Release to Cancer Cells from Modular One-Photon Visible Light-Responsive Micellar System. *Chem. Commun.* **2016**, *52*, 10525–10528.
- Poelma, S. O.; **Burnett, G. L.**; Discekici, E. H.; Mattson, K. M.; Treat, N. J.; Luo, Y.; Hudson, Z. M.; Shankel, S. L.; Clark, P. G.; Kramer, J. W.; Hawker, C. J.; Read de Alaniz, J. Chemoselective Radical Dehalogenation and C–C Bond Formation on Aryl Halide Substrates Using Organic Photoredox Catalysts. *J. Org. Chem.* **2016**, *81*, 7155–7160.
- **Burnett, G. L.**; Rohanna, J. C.; Rosenberg, S.; Schultz, A. K.; Read de Alaniz, J. Determination of Methylene Bridge Crosslinking in Chloromethylated PS-DVB Resins. *J. Polym. Sci. Part A: Polym. Chem.* **2016**, *54*, 1955–1960.
- Fisher, D.; **Burnett, G. L.**; Velasco, R.; Read de Alaniz, J. Synthesis of Hindered α-Amino Carbonyls: Copper-Catalyzed Radical Addition with Nitroso Compounds. *J. Am. Chem. Soc.* **2015**, *137*, 11614–11617.
- Green, J. C.; **Burnett, G. L., IV**; Pettus, T. R. R. New Strategies for Natural Products Containing Chroman Spiroketals. *Pure Appl. Chem.* **2012**, *84*, 1621–1631.
- Cha, J. Y.; **Burnett, G. L., IV**; Huang, Y.; Davidson, J. B.; Pettus, T. R. R. A Strategy for the Late-Stage Divergent Syntheses of Scyphostatin Analogues. *J. Org. Chem.* **2011**, *76*, 1361–1371.

Patents

- Semko, Christoper Michael; Wang, Gang; **Burnett, G. Leslie**; Aggen, James Bradley; Kiss, Gert; Cregg, James Joseph; Gliedt, Micah James Evans; Pitzen, Jennifer; Lee, Julie Chu-li; Won, Walter; Thottumkara, Arun P.; Gill, Adrian Liam. C26-Linked Rapamycin Analogs as mTOR Inhibitors. WO2019212991 A1, 2019.
- Pitzen, Jennifer; Gliedt, Micah James Evans; **Burnett, G. Leslie**; Aggen, James Bradley; Kiss, Gert; Cregg, James Joseph; Semko, Christoper Michael; Won, Walter; Wang, Gang; Lee, Julie Chu-li; Thottumkara, Arun P.; Gill, Adrian Liam; Mellem, Kevin T. C40-, C28-, and C-32-Linked Rapamycin Analogs as mTOR Inhibitors. WO2019212990 A1, 2019.
- Semko, Christoper; Pitzen, Jennifer; Wang, Gang; Tibrewal, Nidhi; Aggen, James Bradley; Thottumkara, Arun; **Burnett, G. Leslie**;; Kiss, Gert; Won, Walter; Lee, Julie Chu-li; Gill, Adrian Liam. Rapamycin analogs as mTOR inhibitors. WO2018204416 A1, 2018.
- **Burnett, G. Leslie**; Read De Alaniz, Javier; Rohanna, John C.; Schultz, Alfred K.; Rosenberg, Steven. Vinyl Aromatic Resin. WO2017222980 A1, 2017.

Presentations

- **Burnett, G. L.**; Cregg, J. J.; Koltun, E. S.; Nichols, R. J.; et al. *Discovery of Small Molecule Inhibitors of Oncogenic Mutants of RAS*, Third Rock's Beyond Great Scientific Poster Session, San Francisco, CA, June 26, 2019.
- **Burnett, L.** *New Materials as Tunable Chelants*, DowMI Workshop, UCSB, Santa Barbara, CA, March 19, 2015.
- **Burnett, L.**; Read de Alaniz, J. *Development of New Chelating Resins*, Dow Chemical, Midland, MI, July 9, 2014.
- **Burnett, G. L.** *The Advancement of o-Quinone Methides and Their Application in Total Synthesis*, Chemical Sciences Student Seminar, UCSB, Santa Barbara, CA, November 1, 2012.
- **Burnett, G. L.** *Studies Towards the Synthesis of Paecilospirone*, 239th ACS National Meeting, San Francisco, CA, March 22, 2010.
- **Burnett, G. L.**; Yan, L.; Chen, P.; Dhabaria, A.; Sharkan, N.; Patel, H.; Shah, P.; Patel, J.; Chehab, C.; Sieburth, S. M.; Nicholson, A. W.; Waring, R. B. *N-Hydroxyhomophthalimide Analogs as Ribozyme Inhibitors*, 8th Annual ACS Philadelphia Poster Session, Philadelphia, PA, January 2, 2008.
- Yan, L.; **Burnett, L.**; Chen, P.; Dhabaria, A.; Finn, P.; Patel, H.; Shah, P.; Sharkan, N.; Sieburth, S. M.; Nicohlson, A. W.; Waring, R. B. *N-Hydroxyhomophthalimides and Analogs as Two-Metal-Ion Dependent Nuclease Inhibitors*, 39th Middle Atlantic Regional Meeting of the American Chemical Society, Collegeville, PA, May 17, 2007.

Professional Development, Service, and Awards

- Referee: *Journal of Organic Chemistry*, *Journal of Polymer Science Part A: Polymer Chemistry*, *Journal of Applied Polymer Science*
- Situational Leadership Training – Incite Partners Consulting 2019
- From the Laboratory to Leadership – The Leadership Edge 2018
- ResMed – Residential School on Medicinal Chemistry and Biology in Drug Discovery 2017
- Biotech Primer – 2-Day Drug Development Immersion, South San Francisco, CA 2016
- Session Chair, 25th Congress – International Society of Heterocyclic Chemistry, Santa Barbara, CA 2015
- Session Chair, *Total Synthesis of Complex Molecules*, 239th ACS National Meeting, San Francisco, CA 2010
- Robert H. DeWolfe Teaching Fellowship 2011 – 2012
- Phi Lambda Upsilon – Chemistry Honor Society