

**Patrick R. Maloney**  
**Curriculum Vitae**

**EXPERIENCE**

<b>University of Central Florida</b> Orlando, FL 3/2019 - present	Laboratory Manager- Department of Chemistry. Responsible for a team of laboratory technicians and coordinators to support all chemistry and forensic science teaching labs offered at UCF. Manage chemical and stockroom inventories, hazardous materials, waste streams, lab safety, and facilities.
<b>Sanford Burnham Medical Research Institute</b> Orlando, FL 10/2008-6/2018	Medicinal Chemistry. Conrad Prebys Center for Chemical Genomics. Team chemist and chemistry program leader for various hit-to-probe projects under the Florida Translational Research Program and the NIH-funded MLPCN initiative. Focus on hit validation, synthesis, SAR development, and lead optimization to identify candidate compounds for <i>in vivo</i> proof of concept studies.
<b>GlaxoSmithKline GlaxoWellcome Glaxo</b> RTP, NC 5/1989-8/2008	Medicinal Chemistry. Roles of increasing responsibility from entry level up to Chemistry Program Leader. Co-leadership responsibilities for a matrix team discovering novel Farnesoid X-Receptor (FXR) agonists for orphan target validation. Designed and implemented chemistry strategies, developed compound progression schemes, prepared analogs, coordinated efforts of team chemists and other disciplines to design key experiments. Coordinated with Chemical Development and Safety Assessment to evaluate pre-clinical material and toxicology experiments. Team Chemist on multiple programs including <b>Avodart (peak annual sales 1.34B USD)</b> , $\alpha$ 1-c antagonist, TNF $\alpha$ -convertase, PLA2 inhibitor, Opioid antagonist, GPR120 agonist, PPARs, LXR agonist, CaMKK2 inhibitor. Experienced in new project development (i.e. early stage hit generation) through later stage chemical lead optimization utilizing traditional medicinal chemistry and in solid phase synthesis/reagents.
<b>Pfizer</b> Groton, CT 5/1987-4/1989	Medicinal Chemistry. Design and synthesis of dual 5-HT <sub>2</sub> / D <sub>2</sub> antagonists toward the invention of the atypical antipsychotic <b>Geodon. (peak annual sales 959M USD).</b>
<b>Naval Research Laboratory</b> Orlando, FL 1/1986-5/1987	Underwater Sound Reference Detachment: Designed, developed, and evaluated polymer composites for a variety of submersible sonic applications.

## EDUCATION

Bachelor of Science - Chemistry. University of Central Florida, Orlando, FL. May 1987.  
Undergraduate research performed under the supervision of Dr. John T. Gupton.

## PUBLICATIONS/PRESENTATIONS

Smith, Layton H; Pinkerton, Anthony B; Hershberger, Paul M; Maloney, Patrick R;  
McAnally, Danielle. **Apelin Receptor Agonists and Methods of use Thereof.**  
US11673873.

Berneburg, Isabell; Peddibhotla, Satyamaheshwar; Heimsch, Kim C; Haeussler, Kristina;  
Maloney, Patrick; Gosalia, Palak; Preuss, Janina; Rahbari, Mahsa; Skorokhod, Oleksii;  
Valente, Elena; et. al. **An Optimized Dihydrodibenzothiazepine Lead Compound  
(SBI-0797750) as a Potent and Selective Inhibitor of Plasmodium falciparum and P.  
vivax Glucose 6-Phosphate Dehydrogenase 6-Phosphogluconolactonase.**  
*Antimicrobial Agents and Chemotherapy* (2022), 66(64), 1-16.

Dobrovolskaite, Aiste; Moots, Holly; Tantank, Mukund P; Shah, Kunal; Thomas, Jenna;  
Dinara, Sharifa; Massaro, Chelsea; Hershberger, Paul M; Maloney, Patrick R;  
Peddibhotla, Satyamaheshwar; et al. **Discovery of Anthranilic Acid Derivatives as  
Difluoromethylornithine Adjunct Agents that Inhibit Far Upstream Element  
Binding Protein-1 (FUBP1) Function.** *J. Med. Chem.* (2022), 65(22), 15391-15415.

Sangaralingham, Jeson; Whig, Kanupriya; Peddibhotla, Satyamaheshwar; Kirby, Jason  
R; Sessions, Hampton E; Maloney, Patrick R; Hershberger, Paul M; Mose-Yates,  
Heather; Hood, Becky L; Vasile, Stefan; et al. **Discovery of Small Molecule Guanylyl  
Cyclase-A Receptor Positive Allosteric Modulators.** *Proc. Nat. Acad. Sci. USA.*  
(2021), 118(52), e2109256118.

Burnett, John C; Sangralingham, Jeson; Malany, Siobhan; Sessions, Edward Hampton Jr;  
Peddibhotla, Satyamaheshwar; Hershberger, Paul Mitchell; Maloney, Patrick Reed.  
**Synthesis of Heterocyclic Particulate Guanylyl Cyclase Receptor-A Enhancers  
Treating Cardiovascular, Renal, and Metabolic Diseases and Cancers.**  
WO2021243230.

Pinkerton, Anthony B; Sessions, Hampton E; Hershberger, Paul M; Maloney, Patrick R;  
Peddibhotla, Satyamaheshwar; Hopf, Meghan; Sergienko, Eduard; Ma, Chen-Ting;  
Smith, Layton H; Jackson, Michael R; et al. **Optimization of Urea-containing Series of  
Nictinamide Phosphoribosyltransferase (NAMPT) Activators.** *Bioorg & Med Chem  
Lett.* (2021), 41, 128007.

Peddibhotla, Satyamaheshwar; Hershberger, Paul M; Kirby, Jason R; Malany, Siobhan;  
Smith Layton H; Maloney, Patrick R; Sessions, Hampton E; Divlianksa, Daniela;

Pinkerton, Anthony B. **Preparation of Azabicyclononanes and Diazabicyclononanes as CXCR6 Inhibitors and Methods of use.** WO2021007208.

Peddibhotla, Satyamaheshwar; Hershberger, Paul M; Kirby, Jason R; Sugarman, Elliot; Maloney, Patrick R; Sessions, Hampton E; Divlianska, Daniela; Morfa, Camilo; Terry, David; Pinkerton, Anthony B; et al. **Discovery of Small Molecule Antagonists of Chemokine Receptor CXCR6 that Arrest Tumor Growth in SK-HEP-1 Mouse Xenografts as a Model of Hepatocellular Carcinoma.** *Bioorg & Med Chem Lett.* (2020), 30(4), 126889.

Phanstiel, Otto IV; Moots, Holly; Maloney, Patrick; Hershberger, Paul; Peddibhotla, Satyamaheshwar. **Preparation of Piperazinylphenyl Benzamide Derivatives as Non-polyamine Based Polyamine Transport Inhibitors and their use in the Treatment of Human Cancers.** WO2020033944.

Slosky, Lauren M; Bai, Yushi; Ray, Caroline; Rochelle, Lauren K; Chandrasekhar, Rahul; Atluri, Namratha; Toth, Krisztian; Badea, Alexandra; Pogorelov, Vladimir M; Abraham, Dennis M; Peddibhotla, Satyamaheshwar; Hedrick, Michael P; Hershberger, Paul; Maloney, Patrick; Yuan, Hong; Li, Zibo; Wetsel, William C; Pinkerton, Anthony B; Barak, Lawrence S; Caron, Marc G. **B-Arrestin-Biased Allosteric Modulator of NTSR1 Selectively Attenuates Addictive Behaviors.** *Cell* 2020, 181(6) 1364-1379.

Smith, Layton H; Maloney, Patrick; McAnally, Danielle; Hershberger, Paul; Sessions, Hampton; Peddibhotla, Satyamaheshwar. **4-Aminoquinoline Compounds for the Treatment of Pathological Angiogenesis.** WO2019173482.

Pinkerton, Anthony B; Peddibhotla, Satyamaheshwar; Yamamoto, Fusayo; Maloney, Patrick; Hershberger, Paul; Hedrick, Michael; Falter, Bekhi; Ardecky, Robert; Smith, Layton H; Chung, Thomas D.Y.; Jackson, Michael R; Slosky, Lauren M; Bai, Yushi; Caron, Marc; Barak, Lawrence S. **Discovery of B-Arrestin Biased, Orally Bioavailable, and CNS Penetrant Neurotensin Receptor 1 (NTR1) Allosteric Modulators.** *J. Med. Chem.* 2019, 62(17), 8357-8363.

Smith, Layton H.; Pinkerton, Anthony B.; Hershberger, Paul; Maloney, Patrick; McAnally, Danielle. **Preparation of Pyrazolopyrimidines as Apelin Receptor Agonists and Methods of use Thereof.** WO2019032720.

McAnally, Danielle; Siddiquee, Khandakar; Gomaa, Ahmed; Szabo, Andras; Vasile, Stefan; Maloney, Patrick r.; Divlianska, Daniela B.; peddibhotla, Satyamaheshwar; Morfa, Camilo J.; Hershberger, Paul; Falter, Rebecca; Williamson, Robert; Terry, David B.; Farjo, Rafal; Pinkerton, Anthony B.; Qi, Xiaping; Quigley, Judith; Bolton, Michael E.; Grant, Maria B.; Smith, Layton H. **Repurposing Antimalarial Aminoquinolines and Related Compounds for Treatment of Retinal Neovascularization.** *PloS One* (2018) 13(9), e0202436/1 – e0202436/23.

R. Jason Kirby, Daniela B. Divlianska, Kanupriya Whig, Nadezda Bryan, Camilo J. Morfa, Ada Koo, Becky L. Hood, Kevin H. Nguyen, Patrick Maloney, Satyamaheshwar Peddibhotla, E. Hampton Sessions, Paul M. Hershberger, Layton H. Smith, Siobhan Malany. **Discovery of Novel Small Molecule Inducers of Heme Oxygenase-1 that Protect iPSC-derived Cardiomyocytes from Oxidative Stress.** *J. Pharm. Exp. Ther.* January 2018, 364(1) 87-96.

Price, Daniel J.; Drewry, David H.; Shaller, Lee T.; Thompson, Brian D.; Reid, Paul R.; Maloney, Patrick R.; Liang, Xi; Banker, Periette; Buckholz, Richard G.; Selley, Paula K.; McDonald, Octerloney B.; Smith, Jeffrey L.; Shearer, Todd W.; Cox, Richard F.; Williams, Shawn P.; Reid, Robert A.; Tacconi, Stefano; Faggioni, Federico; Wang, Tony Y. **An Orally Available, Brain Penetrant CAMKK2 Inhibitor Reduces Food Intake in Rodent Model.** *Bioorg. Med. Chem. Lett.* (2018) 28(10), 1958-1963.

Smith, Layton H.; Pinkerton, Anthony B.; Hershberger, Paul M.; Maloney, Patrick R.; McAnally, Danielle. **Apelin Receptor Agonists and Methods of use Thereof.** WO2016176473.

Larry S. Barak, Yushi Bai, Sean Peterson, Tama Evron, Nikhil Urs, Satyamaheshwar Peddibhotla, Michael P Hedrick, Paul Hershberger, Patrick R. Maloney, Thomas D.Y. Chung, Ramona M. Rodriguiz, William C. Wetsel, James B. Thomas, Glen R. Hanson, Anthony B Pinkerton, and Marc G. Caron. **ML314: A Biased Neurotensin Receptor Ligand for Methamphetamine Abuse.** *ACS Chem. Biol.* (2016) 11(5), tbd.

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Satyamaheshwar Peddibhotla, Pauline Fontaine, Chi K. Leung, Patrick Maloney, Paul M Hershberger, Ying Wang, Michelle S Bousquet, Hendrik Luesch, Arianna Mangravita-Novo, Anthony B Pinkerton, Layton H. Smith, Siobhan Malany, and Keith Choe. **Discovery of ML358, a selective small molecule inhibitor of the SKN-1 pathway involved in drug detoxification and resistance in nematodes.** *ACS Chem. Biol.* (2015) 10(8), 1871-1879.

Pinkerton, Anthony; Maloney, Patrick; Hershberger, Paul; Peddibhotla, Satyamaheshwar; Hedrick, Michael; Barak, Lawrence; Caron, Marc. **Preparation of piperazinylquinazolines and related compounds as agonists of neurotensin receptor 1.** WO2014100501.

Sparks, Steven M.; Chen, Grace; Collins, Jon L.; Danger, Dana; Dock, Steven T.; Jayawickreme, Channa; Jenkinson, Stephen; Laudeman, Christopher; Leesnitzer, M. Anthony; Liang, Xi; Maloney, Patrick; McCoy, David c.; Moncol, David; Rash, Vincent; Rimele, Thonas; Vulimiri, Padmaja; Way, James M.; Ross, Sean. **Identification of diarylsulfonamides as agonists of the free fatty acid receptor 4 (FFA4/GPR120).** *Bioorg. Med. Chem. Lett.* (2014) 24, 3100-3103.

Paul M. Hershberger, Eliot Sugarman, Patrick Maloney, Satyamaheshwar Peddibhotla, Ada Koo, Eigo Suyama, Manuel E. Ruidiaz, Susanne Heynen-Genel, Kevin H. Nguyen, Stefan Vasile, Arianna Mangravita-Novo, Layton H. Smith, Mangala M. Soundarapandian, Sumeet Salaniwal, Paul Kung, Rick B. Vega, Thomas D.Y. Chung, Anthony B. Pinkerton, Siobhan Malany, and Daniel P. Kelly. **Inhibitors of Myocyte Triacylglyceride Accumulation.** *Probe Reports from the NIH Molecular Libraries Program.* 2013.

Satyamaheshwar Peddibhotla, Chi K. Leung, Patrick Maloney, Paul M. Hershberger, Kevin Nguyen, Stefan Vasile, Eigo Suyama, Ada Kane, Michelle S. Bousquet, Hendrick Leusch, Derek Stonich, Arianna Mangravita-Novo, Sumeet Salaniwal, Paul Kung, Jena Diwan, Layton H. Smith, Thomas D.Y. Chung, Anthony B. Pinkerton, Siobhan Malany, and Keith Choe. **A High Throughput Screen for Inhibitors of Nematode Detoxification Genes.** *Probe Reports from the NIH Molecular Libraries Program.* 2013.

Peddibhotla, Satyamaheshwar; Hedrick, Michael P.; Hershberger, Paul; Maloney, Patrick R.; Li, Yujie; Milewski, Monika; Gosalia, Palak; Gray, Wilson; Mehta, Alka; Sugarman, Eliot; Hood, Becky; Suyama, Eigo; Nguyen, Kevin; Heynen-Genel, Susanne; Vasile, Stefan; Salaniwal, Sumeet; Stonich, Derek; Su, Ying; Mangravita-Novo, Arianna; Vicchiarrelli, Michael; Roth, Gregory P.; Smith, Layton H.; Chung, Thomas D. Y.; Hanson, Glen R.; Thomas, James B.; Caron, Marc G.; Barak, Lawrence S.; Pinkerton, Anthony B. **Discovery of ML314, a Brain Penetrant Nonpeptidic  $\beta$ -Arrestin Biased Agonist of the Neurotensin NTR1 Receptor.** *ACS Med. Chem. Lett.* (2013), 4(9), 846-851.

Paul M. Hershberger, Satyamaheshwar Peddibhotla, Eliot Sugarman, Patrick Maloney, Danielle Key, Eigo Suyama, Kevin Nguyen, Stefan Vasile, Martha Kraft, Derek Stonich, Arianna Mangravita-Novo, Michael Vicchiarrelli, Palak Gosalia, Monica Milewski, Linda Li, Michael Hedrick, Qing Sun, Eduard Sergienko, Anton Cheltsov, Sumeet Salaniwal, Jena Diwan, Layton H. Smith, Russell S. Taichman, Thomas D.Y. Chung, Anthony B. Pinkerton, Siobhan Malany, and Gregory P. Roth. **Probing the CXCR6/CXCL16 Axis: Targeting Prevention of Prostate Cancer Metastasis.** *Probe Reports from the NIH Molecular Libraries Program.* 2012.

Ada Kane, Satyamaheshwar Peddibhotla, Patrick Maloney, Alka Mehta, Becky Hood, Eigo Suyama, Kevin Nguyen, Stefan Vasile, Laurel Leavitt, Anton Cheltsov, Sumeet Salaniwal, Derek Stonich, Arianna Mangravita-Novo, Michael Vicchiarrelli, Layton H. Smith, Jena Diwan, Thomas D.Y. Chung, Anthony B. Pinkerton, Paul Hershberger, Siobhan Malany, and Richard N. Kitsis. **Cardioprotective Inhibitors of Reperfusion Injury.** *Probe Reports from the NIH Molecular Libraries Program.* 2012.

Paul Hershberger, Michael Hedrick, Satyamaheshwar Peddibhotla, Patrick Maloney, Yujie Li, Monika Milewski, Palak Gosalia, Wilson Gray, Alka Mehta, Eliot Sugarman, Becky Hood, Eigo Suyama, Kevin Nguyen, Susanne Heynen-Genel, Stefan Vasile, Sumeet Salaniwal, Derek Stonich, Ying Su, Arianna Mangravita-Novo, Michael

Vicchiarelli, Layton H. Smith, Gregory Roth, Jena Diwan, Thomas D.Y. Chung, Marc G. Caron, James B. Thomas, Anthony B. Pinkerton, and Lawrence R. Barak. **Small Molecule Agonists for the Neurotensin 1 Receptor (NTR1 Agonists)**. *Probe Reports from the NIH Molecular Libraries Program*. 2012.

Patrick Maloney, Michael Hedrick, Satyamaheshwar Peddibhotla, Paul Hershberger, Monika Milewski, Palak Gosalia, Linda Li, Janina Preuss, Eliot Sugarman, Becky Hood, Eigo Suyama, Kevin Nguyen, Stefan Vasile, Eduard Sergienko, Sumeet Salanawil, Derek Stonich, Ying Su, Russell Dahl, Arianna Mangravita-Novo, Michael Vicchiarelli, Danielle McAnally, Layton H. Smith, Gregory Roth, Jena Diwan, Thomas D.Y. Chung, Anthony B. Pinkerton, Lars Bode, and Katja Becker. **A 2<sup>nd</sup> Selective Inhibitor of *Plasmodium falciparum* Glucose-6-Phosphate Dehydrogenase (PfG6PDH)- Probe 2**. *Probe Reports from the NIH Molecular Libraries Program*. 2012.

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Patrick Maloney, Michael Hedrick, Satyamaheshwar Peddibhotla, Paul Hershberger, Monika Milewski, Palak Gosalia, Linda Li, Janina Preuss, Eliot Sugarman, Becky Hood, Eigo Suyama, Kevin Nguyen, Stefan Vasile, Eduard Sergienko, Sumeet Salanawil, Derek Stonich, Ying Su, Russell Dahl, Arianna Mangravita-Novo, Michael Vicchiarelli, Danielle McAnally, Layton H. Smith, Gregory Roth, Jena Diwan, Thomas D.Y. Chung, Anthony B. Pinkerton, Lars Bode, and Katja Becker. **A Selective Inhibitor of *Plasmodium falciparum* Glucose-6-Phosphate Dehydrogenase (PfG6PDH)**. *Probe Reports from the NIH Molecular Libraries Program*. 2011.

Pasha Khan, Patrick R Maloney, Michael Hedrick, Palak Gosalia, Monika Milewski, Linda Li, Gregory P Roth, Eduard Sergienko, Eigo Suyama, Eliot Sugarman, Kevin Nguyen, Alka Mehta, Stefan Vasile, Ying Su, Shenghua Shi, Derek Stonich, Hung Nguyen, Fu-Yue Zeng, Arianna Mangravita Novo, Michael Vicchiarelli, Jena Diwan,

Thomas DY Chung, Anthony B Pinkerton, and Layton H Smith. **Functional Agonists of the Apelin (APJ) Receptor**. *Probe Reports from the NIH Molecular Libraries Program*. 2011.

Patrick R. Maloney, Pasha Khan, Michael Hedrick, Palak Gosalia, Monika Milewski, Linda Li, Gregory P. Roth, Eduard Sergienko, Eigo Suyama, Eliot Sugarman, Kevin Nguyen, Alka Mehta, Stefan Vasile, Ying Su, Derek Stonich, Hung Nguyen, Fu-Yue Zeng, Arianna Mangravita Novo, Michael Vicchiarelli, Jena Diwan, Thomas D.Y. Chung, Anthony B. Pinkerton, and Layton H. Smith. **Functional Antagonists of the Apelin (APJ) Receptor**. *Probe Reports from the NIH Molecular Libraries Program*. 2011.

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