

# STEVEN J. BURGESS, PH.D.

SENIOR PATENT AGENT

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## OVERVIEW

Steven prepares and prosecutes U.S. patent applications and assists with the preparation and prosecution of international and foreign patent applications.

Steven is a patent agent skilled in all aspects of chemistry. He has more than 15 years of industrial experience in synthetic organic and medicinal chemistry including drug discovery, small molecule synthesis and drug product intermediates, as well as nanoparticles, thin films and coatings, and semiconductors. Prior to joining Klarquist, he worked at a drug discovery company, designing and synthesizing novel antimalarial and antibacterial drugs. He also previously worked at a chemical company designing libraries for high-throughput screening, and synthesizing heterocyclic building blocks and intermediates for drug discovery and pharmaceutical customers.

Steven joined Klarquist as a patent agent in 2013.

## PROFESSIONAL EXPERIENCE

- ▶ DesignMedix | Senior Scientist, 2008 – 2013 | Portland, OR  
Designed and synthesized novel antimalarial and antibacterial small molecule drugs. Project manager, chemical development and preclinical testing of the lead antimalarial candidate.
- ▶ Portland State University | Teaching Assistant, 2003 – 2008 | Portland, OR  
Dissertation title: Design and synthesis of antimalarial drugs based on a chloroquine scaffold.00
- ▶ Maybridge Chemical Company | Scientist, 2001 – 2003 | Team Leader, 1999 – 2001 | Senior Chemist, 1995 – 1999 | Chemist, 1992 – 1995 | Tintagel, Cornwall, England  
Designed and synthesized screening libraries of small molecules. Designed and synthesized intermediate compounds for use by drug discovery and pharmaceutical companies. Managed custom synthesis projects.

## PROFESSIONAL ACTIVITIES

- ▶ Reviewer, Journal of Medicinal Chemistry

## EDUCATION

Ph.D., Chemistry,  
Portland State  
University, 2008

B.Sc., *Hons*, in  
Chemistry, University of  
Bristol, U.K., 1992

## ADMISSIONS

U.S. Patent and  
Trademark Office, 2013  
(Reg. No. 71,428)

## PRACTICE AREAS

Patents

## TECHNOLOGY AREAS

Chemical  
Electrical &  
Semiconductors  
Nanotechnology

**Klarquist**

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## HONORS & AWARDS

- ▶ Paul Emmett Outstanding Graduate Student Award, 2007

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## PRESENTATIONS & PUBLICATIONS

- ▶ Gunsaru B, Burgess SJ, Morrill W, Kelly JX, Shomloo S, Smilkstein MJ, Liebman K, Peyton DH. 2017. Simplified reversed chloroquines to overcome malaria resistance to quinoline-based drugs. *Antimicrob Agents Chemother* 61:e01913-16
- ▶ Wirjanata G, Sebayang BF, Chalfein F, Prayoga, Handayuni I, Noviyanti R, Kenangalem E, Poespoprodjo JR, Burgess SJ, Peyton DH, Price RN, Marfurt J. 2015. Contrasting ex vivo efficacies of “reversed chloroquine” compounds in chloroquine-resistant *Plasmodium falciparum* and *P. vivax* isolates. *Antimicrob Agents Chemother* 59:5721–5726
- ▶ Burgess, SJ; Kelly, JX; Shomloo, S; Wittlin, S; Brun, R; Liebmann, K; Peyton, DH: Synthesis, Structure-Activity Relationship, and Mode-of-Action Studies of Antimalarial Reversed Chloroquine Compounds. *J. Med. Chem.* 2010, 53(17): 6477-6489
- ▶ Andrews S, Burgess SJ, Skaalrud D, Kelly JX, Peyton DH: Reversal agent and linker variants of reversed chloroquines: activities against *Plasmodium falciparum*. *J. Med. Chem.* 2010, 53(2):916-919
- ▶ Burgess SJ, Selzer A, Kelly JX, Smilkstein MJ, Riscoe MK, Peyton DH: A Chloroquine-like Molecule Designed to Reverse Resistance in *Plasmodium falciparum*. *J. Med. Chem.* 2006, 49(18):5623-56