WILSON SONSINI

Marcos Gonzalez Lopez

PATENT AGENT

Patents and Innovations

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FOCUS AREAS

Patents and Innovations

EXPERIENCE

Dr. Marcos Gonzalez Lopez is a patent agent in the San Diego office of Wilson Sonsini Goodrich & Rosati, where he assists with the preparation and prosecution of patent applications in the fields of chemistry, pharmaceuticals, and biotechnology.

Prior to joining the firm, Marcos spent 12 years as a medicinal chemist at Ignyta Inc, Ideaya Biosciences, and ERASCA Inc. He joined those three companies at their early-stage start-up phase, and he helped advance programs from hit identification to candidate selection. In his most recent role, Marcos was a senior director of chemistry at ERASCA Inc.

Marcos received his Ph.D. in synthetic organic chemistry from Universidad Autonoma de Madrid in Spain. After completing his graduate studies, Marcos carried out postdoctoral research work in natural product total synthesis at Broad Institute of MIT and Harvard and U.C. Davis, nanotechnology at The Scripps Research Institute, and medicinal chemistry at Sanford Burnham Prebys. He is the co-author of 14 publications and is listed as a co-inventor on numerous issued and pending U.S. and international patents.

CREDENTIALS

Education

- Ph.D., Synthetic Organic Chemistry, Universidad Autonoma de Madrid (Spain), 2006
  Comunidad Autonoma de Madrid Predoctoral Fellowship
- B.S., Chemistry, Universidad Autonoma de Madrid (Spain), 2001
  2001 Extraordinary National Award

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author with K. Welsh, D.F. Finlay, R.J. Ardecky, S.R. Ganji, Y. Su, P.T. Teriete, P. D. Mace, S.J. Riedl, K. Vuori, J.C. Reed, and N.D. Cosford, “Design, synthesis and evaluation of monovalent Smac mimetics that bind to the BIR2 domain of the anti-apoptotic protein XIAP,” 21 *Bioorg Med Chem Lett.* 4332-6, 2011
- Co-author with Y.S. Park, C.I. Grove, S. Urgaonkar, J.C. Fettinger, and J.T. Shaw, “Synthesis of (+)-viriditoxin, a 6,6’ binaphthopyrone that targets the bacterial division protein FtsZ,” *Angew. Chem. Int. Ed.* 3730-33, 2011
- Co-author, with J. Chu, S.L. Cockroft, M.A. Amorin, and M.R. Ghadiri, “Real-time monitoring of DNA polymerase function and stepwise single-nucleotide DNA, strand translocation through a protein nanopore,” *Angew .Chem. Int. Ed.* 10106-09, 2010

- Co-author with C. Carreno and A. Urbano, “Oxidative dearomatization of *p*-alkyl phenols into *p*-peroxy quinols and *p*-quinols mediated by oxone as a source of singlet oxygen,” 45 *Angew. Chem. Int. Ed.* 2737-41, 2006
- Co-author with C. Carreno and A. Urbano, “Efficient asymmetric synthesis of [7]helicenebisquinones,” *Chem. Commun.* 611–13, 2005

TECHNICAL FLUENCY

Biological Sciences and Biotechnology

- Biochemical assays
- Biochemistry
- Bioconjugation
- Biophysics
- Cancer therapeutics
- Epigenetics
- Immuno-oncology

Therapeutics and Drug Discovery

- Antimicrobial agents
- Drug delivery
- Immunotherapy targets
- Neuropharmacology
- Peptide therapeutics
- Pharmacodynamics
- Pharmacogenomics
- Pharmacokinetics
- Pharmacology
- Small molecule synthesis
- Small molecules

Diagnostics and Medical Devices

- Biosensors

Chemistry and Material Science

- Catalysis
- Chemical synthesis
- Chemistry
- Chemoenzymatic synthesis
- Green chemistry
- Materials chemistry
- Nanochemistry
- Organic chemistry
- Organometallics
- Peptidomimetics
- Polymers
- Polymorph
- Process chemistry
- Protein folding
- Supramolecular chemistry

Engineering and Technology

- Materials science

Genomics and Data Analysis

- Next-generation sequencing
- Sequencing

Miscellaneous

- Cancer
- Formulations