LEASON ELLIS INTELLECTUAL PROPERTY ATTORNEYS

Marcus J. Jellen, Ph.D.

PATENT AGENT

Dr. Marcus J. Jellen is a Patent Agent at Leason Ellis and a member of the Patent Practice Group. His practice focuses on drafting and prosecuting patent applications for pharmaceutical, biotechnology, and other life sciences clients. He works with a range of technologies across the life sciences spectrum, including small molecules, polymorphs, pharmaceutical formulations, polymeric materials, and protein therapeutics. Marcus also provides IP portfolio development services, including due diligence investigations, competitive landscape analyses and freedom-to-operate searches.

Prior to joining the legal field, Marcus worked as a Synthetic Chemist at Element Biosciences, where he developed patent-pending dye scaffolds with tailored photophysical properties and improved solubility for Next-Generation Sequencing systems. He also gained engineering experience at Intel as a chemical-mechanical-planarization engineer.

Marcus earned his Ph.D. in Chemistry at UCLA, where his research focused on designing and synthesizing stimuli-responsive small molecules and materials. He received his B.S. in Chemistry with a minor in Physics from the University of Wisconsin–Milwaukee, where he conducted research on asymmetric cross-coupling reactions and pharmaceutical small-molecule synthesis.

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Education

- University of California, Los Angeles, Ph.D., Organic Chemistry, 2021
- University of Wisconsin-Milwaukee, Chemistry, Minor in Physics, B.S., *Summa Cum Laude*, 2015

Bar Admissions

- Registered Patent Agent: U.S. Patent and Trademark Office

Experience

- Hayley Guiliano LLP, Patent Agent, 2023-2025
- Elemental Biosciences, Scientist I, 2022-2023
- Intel Corporation, Process Engineer, 2021-2022

Selected Articles

Peer-Reviewed Publications

- Chen, X.; Ghovvati, M.; Wang, Z.; Jellen, M. J.; Mostafavi, A.; Dana, R.; Annabi, N.* Engineering a Drug Eluting Ocular Patch for Delivery and Sustained Release of Anti-Inflammatory Therapeutics. AIChE 2023, 69, e18067.
- Colin-Molina, A.; Arcudia, J.; López-López, E. R.; Jellen, M. J.; García-González, M. C.; Merino, G.; Rodríguez-Molina, B.* Multicomponent Crystals with Two Fast Reorienting Constituents Over Perpendicular Noncovalent Axes. Growth Des. 2022, 22, 673-680.
- Jellen, M. J.; Jiang, X.; Benders, S.; Adams, A., Garcia-Garibay, M. A.* Slip/Stick Viscosity Models of Nanoconfined Liquids: Solvent-Dependent Rotation in Metal–Organic Frameworks. Org. Chem. 2021, 87, 1780-1790.
- Jellen, M. J.=; Liepuoniute, I.=; Jin, M.; Jones, C. G.; Yang, S.; Jiang, X.; Nelson, H. M.; Houk, K. N.; Garcia-Garibay, M. A.* Enhanced Gearing Fidelity Achieved Through Macrocyclization of a Solvated Molecular Spur Gear. Am. Chem. Soc. 2021, 143, 7740-7747.
- Jin, M.; Ando, R.; M. J.; Garcia-Garibay, M. A.; Ito, H.* Encapsulating N-Heterocyclic Carbene Binuclear Transition-Metal Complexes as a New Platform for Molecular Rotation in Crystalline Solid-State. J. Am. Chem. Soc. 2021, 143, 1144-1153.
- Liepuoniute. I.=; Navarro-Huerta, A.; Jellen, M. J.; Arcudia, J.; Teat, S.; Toscano, R.; Merino, G.; Rodríguez-Molina, B.* Tailoring the cavities of hydrogen-bonded amphidynamic crystals using weak contacts: towards faster molecular machines. Sci. 2021, 12, 2181-2188.
- Jellen, M. J.=; Garcia-Garibay, M. A.* Correlated motion and mechanical gearing in amphidynamic crystalline molecular machines. Chem. Sci. 2020, 11, 12994-13007.
- Jellen, M. J.=; Ayodele, M. J.=; Cantu, A.; Forbes, M. E.; Garcia-Garibay, M. A.* 2D Arrays of Organic Qubit Candidates Embedded into a Pillared-Paddlewheel Metal–Organic Framework. Am. Chem. Soc. 2020, 43, 18513-18521.
- Colin-Molina, A.; Jellen, M. J.; Rodríguez-Hernández, J.; Cifuentes-Quintal, M. E.; Barroso, J.; Toscano, R.; Toscano, R. A.; Merino, G.; Rodríguez-Molina, B.* Hydrogen-Bonded Crystalline Molecular Machines with Ultrafast Rotation and Displacive Phase Transitions. Eur. J., 2020, 26, 1-8.
- Colin-Molina, A.; Velázquez-Chávez, D.; Jellen, M. J.; Rodríguez-Cortés, L. A.; Cifuentes-Quintal, M. E.; Merino, G.; Rodríguez-Molina, B.* Dynamic characterization of crystalline fluorophores with conformationally flexible tetrahydrocarbazole frameworks. CrystEngComm, 2020, 22, 3789-3796.
- Jiang, X.; Song, Y.; Jellen, M. J.; Houk, K.; Garcia-Garibay, M. A.* Molecular Spur Gears with Triptycene Rotators and a Norbornane-Based Stator. Lett., 2020, 22, 4049-405.

Honors

- Majeti-Alapati Distinguished Dissertation Award (UCLA, 2021)
- Majeti-Alapati Excellence in Research Award (UCLA, 2020)
- NSF International Research Experiences for Students Fellow (UCLA, June–August 2018)
- Three-Time Support for Undergraduate Research Fellow (UWM, June 2014; September 2014; June 2015)

Selected Articles (Continued)

- Aguilar-Granda, A.; Colin-Molina, A., Jellen, M. J.; Núñez-Pineda, A.; Toscano, R. A.; Rodríguez-Molina.* Triggering the dynamics of a carbazole-p-[phenylene-diethynyl]-xylene rotor through a mechanically induced phase transition. ChemComm., 2019, 55, 14054-14057.
- Jiang, X.; Duan, H.B.; Jellen, M. J.; Chung, T.S.; Liang, Y.; Garcia-Garibay, M. A.* Thermally Activated Transient Dipoles and Rotational Dynamics of Hydrogen-Bonded and Charge-Transferred Diazabicyclo [2.2.2]Octane Molecular Rotors. Am. Chem. Soc., 2019, 141, 16802-16809.
- Colin-Molina, A.; Jellen, M. J.; Garcia-Quezada, E.; Cifuentes-Quintal, E.; Murillo, F.; Barroso, J.; Pérez-Estrada, S.; Toscano, R. A.; Merino, G.; Rodríguez-Molina, B.* Origin of the isotropic motion in crystalline molecular rotors with carbazole stators. Sci., 2019, 10, 4422-4429.
- Colin-Molina, A.; Karothu, D. P.; Jellen, M. J.; Toscano, R. A.; Garcia-Garibay, M. A.; Naumov, P.; Rodríguez-Molina, B.* Thermosalient Amphidynamic Molecular Machines: Motion at the Molecular and Macroscopic Scales. Matter, 2019, 1, 1033-1046.
- Ahmed, S. A.=; Hinz, D. J.=; Jellen, M. J.; Hossain, M. M.* A Concise Synthesis of Potential COX Inhibitor BRL-37959 and Analogs Involving Bismuth(III) Catalyzed Friedel-Crafts Acylation. Biodiversity, 2018, 15, e1800334.