

Cheuk Hei Ho

PATENT AGENT

Patents and
Innovations
Boulder

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FOCUS AREAS

Intellectual Property
Life Sciences
Patents and Innovations

EXPERIENCE

Dr. Cheuk Hei Ho is a patent agent in the Boulder office of Wilson Sonsini Goodrich & Rosati, where he is a member of the patents and innovations practice. Cheuk Hei has over ten years of experience in life science research. His diverse scientific expertise includes biotechnology, chemical genetics, functional genomics, gene editing, microbiology, molecular and cell biology, neurobiology, and RNA biology.

Cheuk Hei conducted his postdoctoral research in the Skirball Institute of Biomolecular Medicine at New York University Langone Medical Center, focusing on the development of the nervous system. He studied how the proper scale of a neuron and its target tissue is regulated during development in the fruit fly.

Cheuk Hei earned his Ph.D. degree in Molecular Genetics from the University of Toronto. His research focused on developing functional genomics tools to study the mechanism-of-action of bioactive chemical compounds in the budding yeast. He also constructed the first genome-wide dosage-suppression genetic-interaction network.

Before joining the firm, Cheuk Hei interned in the New York University Office of Industrial Liaison/Technology Transfer. He conducted patentability assessments and strategized responses to Office actions for inventions that originated in New York University.

CREDENTIALS

Education

- Postdoctoral Research, New York University Langone Medical Center
2011-2020
- Ph.D., Molecular Genetics, University of Toronto, 2011
- B.Sc., Biology, The Hong Kong University of Science and Technology, 2004

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author, "Specific Isoforms of the Guanine-Nucleotide Exchange Factor dPix Couple Neuromuscular Synapse Growth to Muscle Growth," 54(1) *Developmental Cell* 117-131, July 6, 2020
- Co-author, "m6A modulates neuronal functions and sex determination in *Drosophila*," 540(7632) *Nature* 242-247, December 8, 2016
- Co-author, "Dosage suppression genetic interaction networks map: A functional wiring diagram of the cell," 29(6) *Nature Biotechnology* 505-11, May 15, 2011

- Co-author, “Combining Functional Genomics and Chemical Biology to Identify Targets of Bioactive Compounds,” 15(1) *Current Opinion in Chemical Biology* 66-78, February 2011
- Co-author, “The Awesome Power of Synergy From Chemical-Chemical Profiling,” 17(8) *Chemistry and Biology* 789-90, August 27, 2010
- Co-author, “A molecular barcoded yeast ORF library enables mode-of-action analysis of bioactive compounds,” 27(4) *Nature Biotechnology* 369-77, April 2009
- Co-author, “Exploring the Mode-Of-Action of Bioactive Compounds by Chemical-Genetic Profiling in Yeast,” 126(3) *Cell* 611-25, August 11, 2006

TECHNICAL FLUENCY

Biological Sciences and Biotechnology

- Cancer biology
- Cell biology
- Cell therapy
- Cellular biology
- Genetics
- Genomics
- Microbiology
- MicroRNA (miRNA) research
- Neurobiology
- PCR
- Virology

Therapeutics and Drug Discovery

- CRISPR
- Gene editing
- Gene therapy
- Peptide therapeutics

Diagnostics and Medical Devices

- miRNA detection

Genomics and Data Analysis

- Functional genomics
- Next-generation sequencing
- Sequencing
- Single-cell sequencing

Miscellaneous

- Food science
- Infectious diseases