



## Zhiqiang Liu, Ph.D.

Counsel

[zliu@pbwt.com](mailto:zliu@pbwt.com)

212.336.2833

Zhiqiang Liu is Counsel in the firm's Litigation department. Prior to joining the Firm, Mr. Liu was a Senior Research Scientist at Colgate-Palmolive Company. Mr. Liu worked in the Oral Care Research Department for approximately seven years, developing new actives, formulations, and studying the mode of actions. His work at Colgate resulted in 26 issued U.S. and European patents with additional pending applications. He also received a Global Technology award at Colgate in 2007.

Mr. Liu holds a doctorate in Chemistry from Columbia University. His graduate work was directed to the study of properties of zeolite particles, as well as properties of synthetic polymers. Mr. Liu also pursued a postdoctoral study at Columbia in a joint program between the Chemistry Department and the Genome Center, focusing on the development of a parallel gene sequencing technology and the development of a rapid PCR and mass spectrometry-based platform for simultaneously detecting multiple viruses and bacteria in clinical samples. Mr. Liu's research at Columbia led to thirteen peer-reviewed publications.

### **Representative Matters**

#### ***Patent Litigation***

Represented/representing brand pharmaceutical companies in various Hatch-Waxman (ANDA) suits regarding their drugs for treating HIV, gout, obesity, constipation, psychosis and hypertension.

Representing a medical devices company in patent infringement suits concerning its products for soft tissue surgical procedures, including successfully defending a motion for preliminary injunction.

Represented a medical devices company in a patent infringement suit concerning its products for knee replacement surgery.

Represented a brand pharmaceutical company in patent infringement suits regarding its diagnostic products for detecting viral infections.

Represented an information technology company in defending its telecommunications products and services in a patent infringement suit.

#### ***Inter Partes Review Proceedings in USPTO***

Represented clients in defending the validity of patents covering methods for treating Pompe disease, and drugs for treating HIV and psychosis.

### **Other Patent Experience**

Prepared patent-related opinions, including freedom-to-operate opinions, in connection with product development and business transactions.

Advised a client regarding prosecution and defense of its U.S. and foreign patent portfolios.

### **Special Education Advocacy (pro bono)**

Represented multiple students in seeking proper educational programs and placements through negotiations and hearings.

### **Other Pro Bono Matters**

Represented clients in a public-housing matter in New York state court.

Represented a district attorney's office in defending a narcotics-related criminal conviction in the appellate division of New York state court and secured a unanimous decision upholding the conviction.

### **Admissions**

- U.S. Patent and Trademark Office
- U.S. Court of Appeals, Federal Circuit
- U.S. District Court, Southern and Eastern Districts of New York; District of New Jersey
- New York
- New Jersey

### **Languages**

- Mandarin Chinese

### **Publications**

- Co-Author, "Federal Circuit Affirms Precedential Opinion Panel Decision Limiting the Circumstances In Which the Board Should Raise *Sua Sponte* Patentability Issues Against Proposed Substitute Claims," *The Intellectual Property Strategist* (May 2022)
- Co-Author, "Mixed Results as IPR Petitions for Biosimilars Soar," *Bloomberg BNA Life Sciences Law & Industry Report* (December 2017)
- Co-Author, "New Targets in the Crosshairs: A forum to invalidate patents is now being used on biotech firms." *Corporate Counsel* (June 2015)
- "Clinical Efficacy of a Specifically Targeted Antimicrobial Peptide Mouth Rinse: Targeted Elimination of Streptococcus Mutans and Prevention of Demineralization," *Caries Research* (2011, 45, 415)
- "MassTag Polymerase-Chain-Reaction Detection of Respiratory Pathogens, Including a New Rhinovirus Genotype, That Caused Influenza-Like Illness in New York State during 2004-2005," *The Journal of Infectious Diseases* (2006, 194, 1398)
- "Characterization of the External Surface of Silicalities Employing Election Paramagnetic Resonance," *The Journal of Physical Chemistry A* (2004, 108, 8040).

### **Education**

- Rutgers University Law School (J.D., *summa cum laude*, 2012)
  - Order of the Coif
- Columbia University (Ph.D., 2003)

- Chemistry
- Dalian University of Technology (B.A./B.E., 1998)