

# Dr. Asako Kubota

## Associate



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Asako focuses on the drafting and prosecution of life sciences and biotechnology related patent applications, with a particular emphasis on small molecule pharmaceuticals.

Asako also assists in invalidity/non-infringement, freedom to operate and patentability analyses and opinions. She works with clients on a range of technical areas, including novel small molecules for various medicinal indications, organic and organometallic reactions and process development routes, pharmaceutical formulations, fertilizer compositions, and agricultural materials.

Prior to joining Cooley, Asako was an associate scientist at Dow AgroSciences (now Corteva Agriscience) in Indianapolis, Indiana working on discovery research for novel insecticides and fungicides. She gained substantial technical knowledge in crop management science with a focus on technology and science involving insecticides, fungicides, herbicides and the process involved in developing a new pesticide, including research, biological assays, greenhouse testing, field testing and formulations.

While obtaining her PhD from the University of Michigan in Professor Melanie Sanford's laboratory, Asako's doctoral research focused on palladium-catalyzed oxidative functionalization reactions.

### US Patents

- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent 8,901,153
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent 8,937,083
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent 9,282,739
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Related Methods. U.S. Patent 9,295,260
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Related Methods. U.S. Patent 9,445,597
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Related Methods. U.S. Patent 9,497,966
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Related Methods. U.S. Patent 9,523,100
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Related Methods. U.S. Patent

9,549,560

- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent 9,591,857
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent 9,655,365
- Kubota, A. et al. (Dow AgroSciences). Metalloenzyme Inhibitor Compounds as Fungicides. U.S. Patent 9,663,491
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent 9,708,288
- Kubota, A. et al. (Dow AgroSciences). Metalloenzyme Inhibitor Compounds as Fungicides. U.S. Patent No. 9,944,664.
- Kubota, A. et al. (Dow AgroSciences). Metalloenzyme Inhibitor Compounds as Fungicides. U.S. Patent No. 9,957,252.
- Kubota, A. et al. (Dow AgroSciences). Pesticidal Compositions and Processes Related Thereto. U.S. Patent No. 10,165,775.
- Kubota, A. et al. (Dow AgroSciences). Metalloenzyme Inhibitor Compounds as Fungicides. U.S. Patent No. 10,167,300.

#### **Publications**

- Satterfield, A. D.; Kubota, A.; Sanford, M. S. Palladium-Catalyzed 1,1-Aryloxygenation of Terminal Olefins. *Org. Lett.* 2011, 13, 1076. (Highlighted in *Synfacts* 2011, 5, 545.)
- Kubota, A.; Sanford, M. S. Palladium-Catalyzed Ligand-Directed Oxidative Functionalization of Cyclopropanes. *Synthesis* 2011, 2579-2589. (Invited contribution for a special issue on C–H activation.)
- Kubota, A.; Emmert, M. H.; Sanford, M. S. Pyridine Ligands as Promoters in PdII/O-Catalyzed C–H Olefination Reactions. *Org. Lett.* 2012, 14, 1760.
- Stowers, K. J.; Kubota, A.; Sanford, M. S. Nitrate as a redox co-catalyst for the aerobic Pd-catalyzed oxidation of unactivated sp<sup>3</sup>-C–H bonds. *Chem. Sci.* 2012, 3, 3192.

## Education

The George Washington University Law School  
JD, 2019

University of Michigan  
PhD, 2012

University of Michigan  
MS, 2009

University of Mary Washington  
BS, 2007

## Admissions & Credentials

District of Columbia

Registered to practice before the United States Patent and Trademark Office (USPTO)