



## Greta E. Noland

Patent Agent

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Greta E. Noland builds and manages global patent portfolios for clients in the biotechnology and pharmaceutical industries. As a component of her portfolio management, Greta represents clients in interference and appeal proceedings in the United States, and guides clients through opposition, appeal, conflict and revocation proceedings in other countries. She also frequently performs due diligence analyses for intellectual property transactions and public stock offerings. By virtue of working for academic, not-for-profit, private and public entities, her advice encompasses many perspectives important for product life cycle management. Greta achieves clients' goals by delivering creative, attentive service molded by thirty years of experience in the field.

### Practices

- IP Litigation
- Patent Prosecution
- Post-Grant Patent Proceedings

### Industries

- Biotechnology & Life Sciences
- Non-Profit Technology Transfer
- Pharmaceutical

## Representative Experience

- Successfully opposing an extensive series of European patents relating to CRISPR-Cas9 systems
- Winning an appeal upholding a lack of formal entitlement to priority of a European patent relating to CRISPR-Cas9 systems
- Prosecuting U.S. patents to chimeric antigen receptors (CARs) and their use in treating cancer
- Completing due diligence analyses for a client's acquisition of a FDA-approved bone graft product

Greta has advanced clients' rights in such technologies as:

- CRISPR-Cas9 systems
- CAR T-cells
- Therapeutic and diagnostic antibody products
- Viral vectors for gene therapy and vaccines
- Novel gene products including cellular adhesion molecules, chemokines, hormones, G proteins, phosphodiesterases, phosphatases and kinases
- Genetic engineering of plants
- Gene regulation techniques
- Diagnostic and prognostic methods

## Education

- Northwestern University (M.S.)
  - Molecular Biology
- University of Notre Dame (B.S.)
  - Microbiology

## Bar Admissions

- U.S. Patent and Trademark Office

## Background and Credentials

Greta was registered as a patent agent in 1991. Previously, she earned a B.S. in microbiology from the University of Notre Dame and an M.S. in molecular biology from Northwestern University.

## Representative Matters

\*Party Represented

*Adams (Monsanto)\* v. Leemans (Bayer Crop Sciences)*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*Barton v. Fischhoff\* (Monsanto) v. Adang (Mycogen Plant Science)*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*Birkenbach v. Godiska (ICOS Corporation)\**

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*Conflict re: Kirin-Amgen, Inc.\**

Canadian Intellectual Property Office

Case Type(s): Conflict

Area(s) of practice: Pharmaceuticals

*Conflict re: Monsanto Company\**

Canadian Intellectual Property Office

Case Type(s): Conflict

Area(s) of practice: Biotechnology

*Fraley (Monsanto)\* v. Zambryski v. Anderson*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*Fraley (Monsanto)\* v. Comai*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*Fraley (Monsanto)\* v. Zambryski*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*Godiska (ICOS Corporation)\* v. Li (Human Genome Sciences)*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Pharmaceuticals

*Invalidity Action re: Pfizer Research and Development Company*  
Canadian Federal Court  
Area(s) of practice: Pharmaceuticals

*Masinovsky (ICOS Corporation)\* v. Newman v. Rice*  
U.S. Patent Office  
Case Type(s): Patent Interference  
Area(s) of practice: Biotechnology

*Oppositions and Appeal on behalf of CRISPR Therapeutics AG\* re: Broad Institute Inc., Massachusetts Institute of Technology and President and Fellows of Harvard College*  
European Patent Office  
Case Type(s): Opposition, Appeal  
Area(s) of practice: Biotechnology, CRISPR-Cas9

*Oppositions re: Emmanuelle Charpentier\*, The Regents of the University of California and University of Vienna*  
European Patent Office  
Case Type(s): Opposition  
Area(s) of practice: Biotechnology, CRISPR-Cas9

*Opposition and Appeal re: Kirin-Amgen, Inc.\**  
European Patent Office  
Case Type(s): Opposition, Appeal  
Area(s) of practice: Pharmaceuticals

*Opposition and Appeal re: Pfizer Limited*  
European Patent Office  
Case Type(s): Opposition, Appeal  
Area(s) of practice: Pharmaceuticals

*Opposition and Appeal re: Protein Design Labs, Inc.*  
European Patent Office  
Case Type(s): Opposition  
Area(s) of practice: Pharmaceuticals

*Opposition and Federal Court Appeal re: Kirin-Amgen, Inc.\**  
Australian Patent Office and Federal Court  
Case Type(s): Opposition, Appeal  
Area(s) of practice: Pharmaceuticals

*Opposition and Appeal re: Amgen, Inc.\**  
European Patent Office  
Case Type(s): Opposition  
Area(s) of practice: Pharmaceuticals

*Opposition re: Genentech, Inc.*  
European Patent Office  
Case Type(s): Opposition  
Area(s) of practice: Pharmaceuticals

*Opposition re: Genetics Institute, Inc.*

Australian Patent Office

Case Type(s): Opposition

Area(s) of practice: Pharmaceuticals, Biotechnology

*Opposition re: Kirin-Amgen, Inc.\**

Israeli Patent Office

Case Type(s): Opposition

Area(s) of practice: Pharmaceuticals

*Revocation and Amendment Proceedings re: Kirin-Amgen, Inc.\**

The Court of the Commissioner of Patents for The Republic of South Africa

Area(s) of practice: Pharmaceuticals

*Revocation and Appeal re: Pfizer Limited*

UK High Court of Justice and Supreme Court of Judicature Court of Appeal

Case Type(s): Appeal

Area(s) of practice: Pharmaceuticals

*Schilperoort v. Rogers (Monsanto)\* v. Barton v. Zambryski*

U.S. Patent Office

Case Type(s): Patent Interference

Area(s) of practice: Biotechnology

*The Broad Institute, Inc., Massachusetts Institute of Technology, and President and Fellows of Harvard College v. The Regents of the University of California, University of Vienna, and Emmanuelle Charpentier\**

U.S. Patent Trial and Appeal Board

Case Type(s): Patent Interference

Area(s) of practice: CRISPR-Cas9 technology

*Vanderbilt v. ICOS Corporation\**

U.S. District Court

Case Type(s): Patent Litigation

Area(s) of practice: Pharmaceuticals