Kilpatrick

Life Sciences: Biotechnology, Pharmaceuticals & Bioinformatics

Life Sciences from A-Z

Innovation is at the core of life science companies and the protection of a life science company's technology and innovations through patent acquisition is fundamental to the success of the company. As the life science company's technology is developed over time, its new innovations must be protected by new patents. The resulting patent portfolio becomes the company's most valuable asset for product and process protection, as collateral for investments, and as a vehicle for licensing, joint development, monetization, and partnerships. Our chemistry and life sciences patent attorneys are essential to our client's efforts to commercialize and monetize their technology.

Areas of specialized expertise:

- Adjuvants
- Antibodies / Proteins
- Biologics
- Biomarkers
- Cell biology
- Cell culture
- Diagnostics
- Gene Editing
- Gene therapy
- Genomics
- Immunology
- Immunotherapy
- Liquid biopsy
- miRNA
- Molecular biology
- Nucleic acid sequencing and chemistry
- Personalized medicine
- Plant biology
- Proteomics
- RNA
- siRNA
- SNPs
- Stem cells
- Therapeutic proteins
- Vaccine

Biotechnology

Patents are valuable assets that biotechnology startups, emerging companies, and publicly traded companies can use to encourage investment, foster partnerships, and protect their IP. Patents are especially critical for biotechnology startups as they allow the company to protect its IP rights and provide a way to recoup research, development, and regulatory review investment costs.

Many of our life science and biotechnology patent practitioners have advanced degrees in a wide variety of disciplines spanning the entire spectrum of the biological arts. Our deep bench of patent practitioners has an unparalleled combination of experience, expertise, and skill sets. Their backgrounds include agricultural chemistry, biologics, cell biology, diagnostics, gene editing, gene therapy, genomics, immunology, immunotherapy, liquid biopsy, neuroscience, nucleic acid chemistry, plant biology, stem cells, and T-cell therapies.

Pharmaceuticals

Startups and pharmaceutical companies develop new compounds or small molecules as new drugs. Typically, the compound patents are drafted before any drug development or clinical trials. As the drug is further developed, formulations, and methods-of-treatment patent applications are drafted and prosecuted.

Our patent professionals have advanced degrees in chemistry or the life sciences and extensive experience with IP protection of pharmaceutical research and development. We help pharmaceutical companies protect their new drugs by preparing and prosecuting patent applications in the United States and throughout the world. We also help protect pharmaceutical formulations, polymorphs, and methods of treatment using the pharmaceuticals. In addition, we render opinions drawn to the validity of a patent or the freedom-to-operate of a new pharmaceutical or formulation. Our practitioners also perform prior art searching which can be used in a landscape analysis or in competitive intelligence.

Bioinformatics

The application of innovative data-driven approaches such as bioinformatics and artificial intelligence to the life science sector has brought about a change in the way that biological inventions can be protected by patent laws. Kilpatrick attorneys use patent filing and prosecution strategies often developed in the fields of computer science and business methods to aid our clients in protecting certain aspects of their data-driven innovations, which include computer-implemented tools, methods of doing business, and uses of insights discovered from data as well as more traditional biotechnological products and processes.

Many of our highly skilled patent attorneys and staff have graduate degrees in bioinformatics/computational biology, computer science, medical technology, electrical engineering, mathematics, and physics coupled with extensive experience working for various biotechnology, health, and software technology companies, universities, and government organizations.

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