



BIOTECHNOLOGY AND LIFE SCIENCES

The biotechnology field presents some of the most complex challenges in intellectual property. One reason for this complexity is the rapid development of scientific disciplines, such as molecular biology, microbiology, cell biology, developmental biology, immunology, bioinformatics, synthetic biology, nanoscience, biochemistry, embryology, and genetics. All of these disciplines produce novel subject matter to be protected as well as swiftly evolving laws affecting patenting.

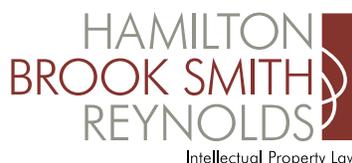
Our firm's practice includes experience in the following areas of biotechnology and life sciences:

- Genetic diagnostics
- Novel biofuels and methods of biofuel production
- Pharmaceuticals and drug development (drug delivery, drug discovery)
- Small molecules, synthetic polymers, and proteins
- Immunology and antibody technologies as well as their application in fields such as neurobiology, immunology, microbiology (including vaccines and therapeutics), biodefense, tissue regeneration and transplantation, and pluripotent stem cell isolation and differentiation
- Therapeutics and diagnostics for cancer, neurodegenerative disorders and metabolic disorders, antibody technologies, new medical uses and formulations of known compounds, and nucleic acid sequencing and detection/labeling technologies, including immunofluorescence
- Gene expression and gene chips
- Gene therapy, signal transduction, and gene activation
- RNA (including siRNA, antisense, and micro RNAs)
- Metabolomics

Our attorneys have strong scientific backgrounds; many have advanced degrees in biology, molecular and cellular biology, bio physics, physiology, cell and developmental biology, biochemistry, epidemiology and biostatistics, medicinal chemistry, organic chemistry, and biological and computational chemistry. Several of our attorneys also have done research at both small and large pharmaceutical and biotech companies.

In view of the Supreme Court decisions in *Association for Molecular Pathology v. Myriad Genetics, Inc.* and *Mayo Collaborative Services v. Prometheus Laboratories, Inc.*, which set more stringent guidelines for subject matter to be eligible for patent protection, patentees need to devise new strategies for protecting their biological inventions. Our attorneys have the scientific and legal expertise to overcome the hurdles that *Myriad* and *Mayo* present.

Hamilton Brook Smith Reynolds helps clients with whole life cycle management because we have worked with inventions ranging from benchtop discoveries to billion-dollar drugs. From basic discoveries to patent estates, such as starting with one



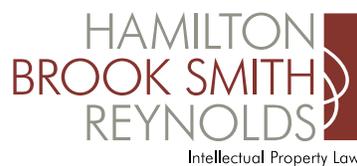


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gene and then finding and identifying multiple uses, we can help you develop and manage your patent portfolio. We have also conducted due diligence for companies looking to acquire or invest in companies.

For biotechnology and life sciences, we have assisted our clients in various areas, including:

- Antibodies and immunotherapies that can be used to treat cancer and immunological disorders
- Small molecule drugs that can be used to treat the effects of heart attacks and can increase survival rates
- Methods of identifying stem cells by the size and shape of the cell's nucleus and targeting their destruction in cancer
- Gene chips and assays to detect full-length expressed genes that can be used in high-throughput assays to detect the expression of novel genes and proteins related to diseases



(Page 2 of 2)