Docket #: S09-107

Protein and Gene Biomarkers for Rejection of Organ Transplants

Researchers in Prof. Minnie Sarwal's laboratory have discovered a panel of urine protein biomarkers to diagnose acute rejection in patients with kidney transplants. Acute rejection of kidney grafts remains a significant problem in transplantation community. It is currently diagnosed by biopsy which is invasive and associate with complications. This technology could provide a safe alternative for monitoring patients.

Ongoing Research
The inventors are using ELISA assays to validate these biomarkers on an independent set of patients.

Applications

- **Diagnostic** - to monitor acute rejection in kidney transplants

Advantages

- **Non-invasive** - urine profiling is safer and causes less pain and discomfort than the current invasive biopsy
- Allows for **frequent monitoring** to better assess patient status and adjust immunosuppressive therapy accordingly

Patents

- Published Application: WO2011119980
- Published Application: 20130143755

- Published Application: 20170227549
- Published Application: 20210199669
- Issued: 9,535,075 (USA)
- Issued: 11,768,208 (USA)

Innovators

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