**Genome and Pathology-Based Subtyping of Schizophrenias for Personalized Treatment**

**Technology Summary:**
Schizophrenia is a common brain disorder that affects approximately 1.1% of adults in the US. It is a complex disease with substantial genetic components, yet the genetic architecture underlying the disease remains unclear. A group of Washington University scientists and physicians, led by Dr. Jorge Sergio (Igor) Zwir, has developed a robust method to classify schizophrenia cases into 8 sub-groups based on their genetic and psychopathological data. Each of the sub-groups is associated with distinct underlying genetics, clinical symptoms, and severity of illness, potentially requiring different treatments or clinical actions. A searchable interface of this knowledge base, accompanied by customized genotyping panels, will aid clinicians in diagnosing schizophrenia and formulating personalized treatments.

**Advantages:**
- Provide a clinically useful knowledge base for classification and diagnosis.
- Achieve accurate classification based on both genetic and psychopathological data.
- Allow clinicians to leverage the information through searchable interfaces.

**Stage of Development:** Clinical testing

**Applications:**
- Aid personalized treatment of schizophrenia.
- The algorithm and approach may be generalized and applied to other complex diseases.

**Patent Information:** Provisional patent filed

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