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“Genetic basis for heart attack”

The Kathiresan Lab

Gene Discovery. Of the 3.2 billion letters that comprise the human genetic code, we want to understand which specific letters confer risk for heart attack and its risk factors such as LDL cholesterol and triglycerides.

Functional Biology. We use model systems (cells, mice) to understand the mechanisms by which the newly discovered genes lead to phenotype.

Clinical Translation. We utilize the discovered gene variants to address specific clinical questions such as risk prediction and distinguishing causal factors from reactive ones.