

CANCER PATIENTS

CONTROLS

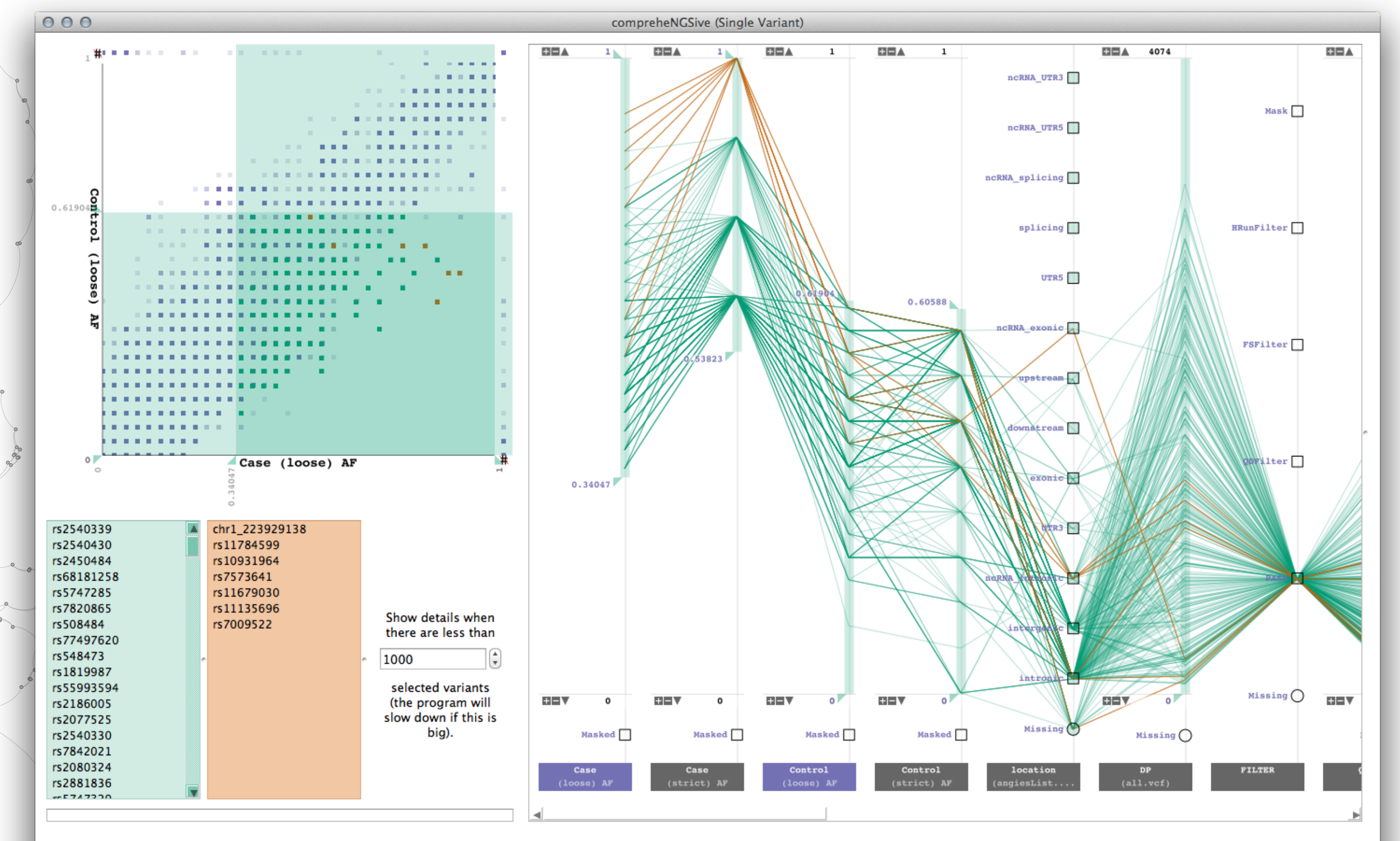
Assuming we have quality data for everyone in a study, we have another problem: of the roughly 15 million variations from person to person (three are shown here), which ones could be causing or contributing to disease?

Next-Generation Sequencing is a new technology that lets scientists access a person's entire genome. Short pieces of DNA are read, and specialized algorithms stitch them together. In terms of money, it's much cheaper than previous methods. In terms of complexity, it's much trickier to analyze.

EXPLORING THE BIOLOGICAL DATA

EXPLOSION

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compreheNGSive is a tool Alex Bigelow (SCI) and Nicola Camp (U of U Genetic Epidemiology) are developing using design study methodology to tackle the NGS issue. Statistics, annotations, and quality scores for each variant are visualized and filtered interactively.