“30-60% of the most commonly used medications do not achieve the desired therapeutic effect”

Hello, I’m John. I’ve had a heart attack so the doctor prescribed a new pill.

John’s genes made the treatment ineffective to this prodrug and that’s what made him suffer another heart attack. I will change the treatment!!

CYP2C19 Allele2

A few months later...

The access to pharmacogenomics studies by the patient’s bedside would mean a hopeful approach to individualized therapies and precision medicine.

The main goal is to define a custom drug treatment for each patient based on their genetic profile, ...

...to identify biomarkers in order to select the right dose and duration of the treatment...

...and to prevent side effects due to an increased or a lower pharmacological effect caused by different genomes.

Different human genomes lead to different responses to medicines

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