



Personalized Medicine: Redefining Cancer Treatment

Predict the effect of Genetic Variants to enable Personalized Medicine

\$15,000 · 449 teams · 2 months to go

Overview

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Overview

Description

Evaluation

Prizes

Timeline

A lot has been said during the past several years about how precision medicine and, more concretely, how genetic testing is going to disrupt the way diseases like cancer are treated.

But this is only partially happening due to the huge amount of manual work still required. Memorial Sloan Kettering Cancer Center (MSKCC) launched this competition, accepted by the [NIPS 2017 Competition Track](#), because we need your help to take personalized medicine to its full potential.



Once sequenced, a cancer tumor can have thousands of genetic mutations. But the challenge is distinguishing the mutations that contribute to tumor growth (drivers) from the neutral mutations (passengers).

Currently this interpretation of genetic mutations is being done manually. This is a very time-consuming task where a clinical pathologist has to manually review and classify every single genetic mutation based on evidence from text-based clinical literature.

For this competition MSKCC is making available an expert-annotated knowledge base where world-class researchers and oncologists have manually annotated thousands of mutations.

We need your help to develop a Machine Learning algorithm that, using this knowledge base as a baseline, automatically classifies genetic variations.

Kaggle is excited to partner with research groups to push forward the frontier of machine learning. Research competitions make use of Kaggle's platform and experience, but are largely organized by the research group's data science team. Any questions or concerns regarding the competition data, quality, or topic will be addressed by them.

Leaderboard

1

Bojan Tunguz

2

Oleg Panichev

3

doitall

4

andrewhz

5

Pandas

6

Bluefool

7

Keep Calm

8

Jackling_Gu

Kernels

Personalised Medicine - EDA...

97 votes · 16 days ago

EDA in Python

0 votes · 16 hours ago

Redefining Treatment [0.574...

42 votes · 7 days ago

Brief insight on Genetic varia...

50 votes · 19 days ago

Genetic Variants to Protein F...

11 votes · 13 days ago

58 discussion topics

When is it foolish to anonymi...

8 replies · an hour ago

More info about the machine ...

4 replies · 2 hours ago

Official external data and pre...

37 replies · a day ago

Text feature is messed up

1 reply · a day ago

Is this the expected scenario ...

3 replies · a day ago

Launch

25 days ago

Close

2 months

449

Teams

477

Competitors

Points

This competition does not award standard ranking points

Tiers

This competition does not count towards tiers