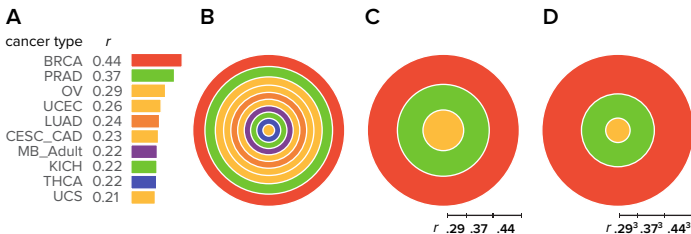


# 5 YEARS OF POG

The Personal Oncogenomics Program (POG) is a collaborative research study between BC Cancer Agency oncologists, pathologists and other clinicians along with Canada's Michael Smith Genome Sciences Centre with support from BC Cancer Foundation.

The aim of the program is to sequence, analyze and compare the genome of each patient's cancer—the entire DNA and RNA inside tumor cells—in order to understand what is enabling it to identify less toxic and more effective treatment options.

The commemorative 5-year anniversary artwork explores the 545 cases studied so far and highlights their similarities and differences to a large database of previously characterized cancer samples.



**Case POG661.** The RNA sequence is used to compare the expression of 1,744 genes to the TCGA database of cancer samples. (A) The TCGA cancer types with the 10 largest median gene expression correlation to POG661. (B) The correlations from A encoded as a series of concentric rings. (C) Simplified concentric representation showing only 3 correlations. (D) Differences are emphasized by a power scaling of the encoding in C.

## CHRONOLOGICAL

## BY DIAGNOSIS



Cases are ordered in two ways: chronologically (left) or by diagnosis (right). Within each diagnosis group, cases are ordered by similarity to each other.

Personalized Oncogenomics Project at Canada's Michael Smith Genome Sciences Center

● Gastrointestinal ● Breast ● Thoracic ● Gynecologic ● Soft Tissue ● Skin ● Urologic ● Hematologic ● Head and Neck ● Endocrine ● Central Nervous System ● Other

