



Attention data scientists and genetic and computational toxicologists! We are now accepting applications for the EMGS Bioinformatics Challenge 2020. It will be held at the annual meeting from September 12th to 16th, 2020 in Palm Springs, CA. The goal of this competition is to generate interaction between EMGS members and bioinformatics/data science experts. We encourage members to work together to develop novel tools and approaches that harness publicly available “big data” to identify signatures of genotoxic hazards and provide insight into their mechanisms of action.

Please submit a 250-word abstract with a data visualization and/or any inquiry to bioinformatics@emgs-us.org by **April 15th, 2020**. You will receive a confirmation email upon submission. Selected participants will receive (a) a \$300 monetary award for academic participants and (b) a membership waiver for non-member participants. The abstracts will be evaluated by four criteria:

- (1) Model performance in classifying/predicting carcinogens
- (2) Identification of a novel genotoxic mode(s) of action
- (3) Effectiveness of the data visualization
- (4) Originality and innovation

Participating groups will then be invited to send representatives to present their work at the EMGS 2020 annual meeting and compete for the grand prize of \$1,200.

We welcome any data-intensive study that involves genomics, proteomics, metabolomics, and high-throughput data, including (but not limited to):

- | | |
|-------------------|---|
| (1) Tox21/ToxCast | (5) Toxicogenomics Dataset |
| (2) Drug Matrix | (6) Litron Labs MultiFlow® DNA Damage Dataset |
| (3) TG-Gates | (7) NCI-60 Human Tumor Cell line Screen |
| (4) Health Canada | |

Please see <https://www.emgs-us.org/page/bioinformatics> for further information and updates. Let us bring DNA and data science together!