

**Memorandum of Understanding:
PGRN Systems Biology Working Group - STAR - Mayo PGRN Collaboration**

Date: January 5, 2011

Background

One of the major activities of all the PGRN groups is to develop statistical methods for analyses of large data sets containing different types of high throughput data as well as drug response phenotypes. The PGRN Systems Biology working group and the PSTAR Network Resource have developed a joint project using common data sets from different PGRN groups for use in developing novel statistical methods, in this case, methods that can be used to analyze multiple data sets including genome-wide SNPs, expression levels and drug cytotoxicity phenotypes.

One of the common data sets that will be used in this project was generated by the Mayo PGRN and consists of data for 180 lymphoblastoid cell lines (60 CA, 60AA and 60 HCA) for which 550K genome-wide SNPs, 54,000 basal gene expression array data as well as quantitative drug cytotoxicity phenotype (IC50 and AUC values) for an anti-cancer drug, gemcitabine, is available. Each of the PGRN group is welcome to participate in this activity.

Memorandum of Understanding:

1. Any PGRN groups can apply for access to the data set for methods development by submitting a brief proposal to PSTAR.
2. Groups will be expected to participate in conference calls or other activities related to the project.
3. Groups using this dataset to develop methods are free to publish their results. If other PGRN groups use the common data sets, authorships should be decided based on their contributions.
4. Groups providing the common dataset (in this case, the Mayo PGRN) need to be acknowledged in publications with individual PGRN grant number that generate those data sets.
5. Members of groups providing common datasets will be offered an opportunity to participate to projects utilizing those datasets and share an authorship on the basis of their contributions.
6. The role of the PGRN PSTAR and Systems Biology working group should be also acknowledged in publications.

The Mayo Clinic requires that projects using their data set have to adhere to the following data use restrictions:

- The data have to be used for genetic studies designed to learn about, prevent, or treat health problems.
- Investigators must state in the Data Use Request their intention to publish or otherwise broadly share any findings from his or her study with the scientific community.

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