# 2014-11

2014-11-24

## Review: Robert Gatenby (2013). Quantitative imaging in cancer evolution and ecology. Radiology

Summary: Observing regional differences in tumor phenotypes can enable us to trace tumor evolution.

Cited: Eran Segal and Michael Kuo (2007). Decoding global gene expression programs in liver cancer by noninvasive imaging. Nature Biotechnology

## Eran Segal and Michael Kuo (2007). Decoding global gene expression programs in liver cancer by noninvasive imaging. Nature Biotechnology

Summary: The author used combinations of image features to predict gene expression levels with 78% accuracy.

Note: Howard Chang is a senior author.

2014-11-25

## So-Youn Shin, Nicole Sorano, MuTHER consortium. (2014). An atlas of genetic influences on human blood metabolites

Summary: Found statistically significant association between 145 motabolic loci and 400+ metabolites in human blood using a large cohort of 7824 individual.

Relevance:

* They used a Gaussian Graphical Model (GGM) based on metabolites partial correlation to reconstruct metabolic pathway. Can I do the same using RNAseq data?

# 2014-12

2014-12-05

## William Staford Noble (2009). A quick guide to organizing computational biology projects

Summary: I use this method for organizing my projects.