**Literature Informatics: **

* Which proteins are related to Alzheimer’s disease?
* Where/who are the leading centers and scientists for liver transplantation?
* Where is the main research done for dengue and leprosy?
* Who are the Principle Investigators for NIH funded research projects on the study of BCL2 gene in the state of Tennessee?

**Gene-centric Information:**

* Your favorite gene -OR-
* BRCA1 / BAD / brokenheart / superman / primonine-1 / Ken and Barbie
	+ How many splice variants have been reported?
	+ What is its intron-exon architecture?
	+ What are its neighboring genes?
	+ What percentage of sequence similarity its human gene shares with its mouse homolog?
	+ Find a siRNA sequence which has been reported to be used in gene silencing experiment.
	+ What are its upstream regulators?
	+ What is its promoter sequence and what transcription factors have been reported to bind to its regulatory region?

**Bioinformatics Resources:**

* Locate database(s) on
	+ Natural antisense
	+ UTR
	+ copy number variation
* Find a suitable protocol for experiments:
	+ RNA isolation
	+ Real time PCR / methylation PCR /CGH array
	+ Multiple sequence alignment / BLAST search