

Transcriptome Seminar 9/9/09

Stuart Sealfon

Stuart.sealfon@mssm.edu

Readings and Questions for Transcriptome Seminar 9/15/08 S. Sealfon

Background Reading:

Champe & Harvey p. 479-485

Chu TT, Fink MY, Mong JA, John G, Auger AP, Sealfon SC. Effective Use of Microarrays in Neuroendocrine Research J. Neuroendocrinology 19:145-161, 2007

Basic principles/vocabulary you should know:

- basic principles of hybridization
- transcriptome
- introns/exons/promoters, enhancers/non-coding regions
- RNA splice forms
- chip-on-chip assay
- CGH
- microRNAs
- how PCR works, (we will discuss real-time PCR)
- microarray

Questions for Discussion:

1. Compare and Contrast—northern blot and microarray
2. Why would you want to measure the transcriptome?
3. What special problems are there in the design and analysis of transcriptome (array) experiments?