



Summary of the MAQC September-08-2005 Teleconference

The MAQC Project: Calibrated RNA Samples, Reference Datasets, and QC Metrics/Thresholds for Microarray Quality Control

Teleconference Date: September 8, 2005 (9am PDT/11am CDT/12pm EDT/16:00 GMT)

Summary Date: September 12, 2005

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MAQC URL: <http://edkb.fda.gov/MAQC/>

Thanks to Mike Wilson for moderating the discussions.

- 1. RNA Sample Processing:** Affymetrix, Agilent, Applied Biosystems, Combimatrix, GE Healthcare, and NCI_Operon updated the status of RNA sample processing at their test sites. Eppendorf and Illumina were absent during the TC, but were contacted later on. All platform providers expressed confidence in meeting the data submission deadline – September 30, 2005. Questions were raised about the RIN of the Ambion brain sample (~8); Mike Wilson emphasized the importance of reporting the quality of RNA samples and exploring its correlation with array data quality.
- 2. Final Gene List for TaqMan Validation:** Based on updated array annotation files provided by array manufacturers by August-30-2005, Leming Shi made some modifications to the initial list of 1,041 RefSeq's and generated an updated list of 1,007 RefSeq IDs. The 1,007-list consisted of (1) 904 RefSeq's from the original list of 1,041 (137 of the 1,041 records were dropped due to changes in annotation); (2) 26 RefSeq's common to ABI-AFX-AGL-GEH-ILM-NCI-CMB and Gene Express Inc.; (3) 46 "favorite" RefSeq's including NM_005228 (EGFR) nominated by Zoltan; (4) 31 randomly picked RefSeq's. 1,041 TaqMan assays are available for the list of 1,007 RefSeq's. Applied Biosystems was provided with the list and will conduct the 1,041 TaqMan assays. The gene list is available upon request.
- 3. Timing of Commercial Availability of Ambion's Brain RNA:** Mike Wilson stated that Ambion has been taking all measures possible to make sure that the brain RNA sample will be stored in as consistent condition as possible. The MAQC group will be updated as soon as the product release date is determined.
- 4. StaRT-PCR from Gene Express Inc. (GEX):** The request from GEX to participate in the MAQC study was discussed and approved. RNA samples were sent to GEX, which will generate StaRT-PCR data on the four MAQC samples for ~200 genes.
- 5. Scoreboard:** FDA/NCTR received datasets on September 12, 2005 from AFX_1 (Affymetrix), AFX_6 (UCLA), and AGL_2 (NCTR). Submission status is available at http://www.fda.gov/nctr/science/centers/toxicoinformatics/maqc/docs/MAQC_Main_Study_Scoreboard.pdf.

The next MAQC Teleconference:

Thursday, September 22, 2005 (9 am PDT / 11 am CDT / 12 pm EDT / 16:00 GMT)

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