

## **Description of Additional Supplementary Files Document**

**Supplementary Data 1** – GENOMICS -- Multiregional cohort information, Case Assay, Somatic Mutations, Gene Level Copy Number

**Supplementary Data 2** - Statistical values for additional MEM models.

**Supplementary Data 3** – TRANSCRIPTOMICS -- Combat counts, pathway-based classifications, transcriptomic classifications

**Supplementary Data 4** – GENE ONTOLOGY – differentially expressed genes, tumor microenvironment signatures

**Supplementary Data 5** – Correlation between pathway-based classifications and conventional MRI features

**Supplementary Data 6** – Correlation between pathway-based classifications and advanced imaging features

**Supplementary Data 7** - Sample Sizes for Correlative Analyses