**M. smegmatis SMR5: decreased transcript levels of 231 genes under nitrogen starvation**

- Metabolism
  - I: Lipid transport and metabolism
  - Q: Carbohydrate transport and metabolism
  - P: Inorganic ion transport and metabolism
  - Q: Secondary metabolites biosynthesis, transport and catabolism
  - E: Amino acid transport and metabolism
  - C: Energy production and conversion
  - H: Coenzyme transport and metabolism
  - F: Nucleotide transport and metabolism

**Metabolism**

- Poorly characterized
  - X: Not in COG
  - R: General function prediction only
  - S: Function unknown

**Poorly characterized**

- Information storage and processing
  - J: Translation, ribosomal structure and biogenesis
  - K: Transcription
  - L: Replication, recombination and repair

**Information storage and processing**

- Cellular processes and signaling
  - O: Posttranslational modification, protein turnover, chaperones
  - M: Cell wall/membrane/envelope biogenesis
  - D: Cell cycle control, cell division, chromosome partitioning
  - T: Signal transduction mechanisms
  - N: Cell motility
  - U: Intracellular trafficking, secretion and vesicular transport

**Cellular processes and signaling**

**M. smegmatis SMR5: increased transcript levels of 284 genes under nitrogen starvation**

- Poorly characterized
  - X: Not in COG
  - R: General function prediction only
  - S: Function unknown

**Metabolism**

- Information storage and processing
  - K: Transcription
  - J: Translation, ribosomal structure and biogenesis
  - L: Replication, recombination and repair
  - B: Chromatin structure and dynamics

**Information storage and processing**

- Cellular processes and signaling
  - O: Posttranslational modification, protein turnover, chaperones
  - T: Signal transduction mechanisms
  - M: Cell wall/membrane/envelope biogenesis
  - D: Cell cycle control, cell division, chromosome partitioning
  - V: Defense mechanisms
  - U: Intracellular trafficking, secretion and vesicular transport