Get the Most from Your Agilent Seahorse XF Analyzer

How does energy metabolism impact cell behavior? Are your cells built to meet energy challenges? Agilent Seahorse XF assay kits—designed to work with your Agilent Seahorse XF analyzer—help you to answer these questions and more. Follow the journey below to reveal the bioenergetic phenotype and the mechanisms that drive the behavior of your cell models.

### General cell metabolism

- **Aerobic**
  - **Rotenone/Antimycin A**
  - **Complex I** substrates
- **Spare respiratory capacity**
  - Basal demand
  - Lower demand
  - **Mitochondrial oxygen consumption**
- **Non-mitochondrial oxygen consumption**
  - ATP-linked respiration
  - **Mitochondrial linked respiration**
  - **Mitochondrial function**
  - ATP production rate (pmol/min)
  - GlycoATP
  - MitoATP

- **Mitochondrial toxicity**
  - **Mitochondrial linked respiration**
  - **Mitochondrial function**
  - ATP production rate (pmol/min)

### Glycolytic

- **Glycolysis**
  - **Glycerol**
  - **ATP**
  - **Glucose**
  - **Pyruvate**
  - **Lactate**

### Immuno-metabolism

- **Immuno-metabolism**
  - **Insulin**
  - **Interleukin-6**
  - **CD28 engagement**

### Targeted approach to metabolic mechanisms

- **Aerobic**
  - **Rotenone/Antimycin A**
  - **Complex I** substrates
- **Spare respiratory capacity**
  - Basal demand
  - Lower demand
- **Mitochondrial oxygen consumption**
  - ATP-linked respiration
  - **Mitochondrial linked respiration**
  - **Mitochondrial function**
  - ATP production rate (pmol/min)
  - GlycoATP
  - MitoATP

### Mitochondrial toxicity

- **Mitochondrial linked respiration**
- **Mitochondrial function**
- ATP production rate (pmol/min)

### Move beyond analyzing what your cells are with Agilent Seahorse XF technology to gain deeper insights into the critical functions that drive cellular processes.

www.agilent.com/chem/discoverXF

Need more in-depth XF assay training? Contact technical support: cellanalysis.support@agilent.com

Learn more about running XF assays. Visit our learning center.