# EntCDP+ModSDP includes two complementary models

- \*\*EntCDP\*\* is designed to identify \*\*common signaling pathways\*\* across multiple cancer types.

➤ To run EntCDP, execute:

`run\_EntCDP.m`

- \*\*ModSDP\*\* aims to identify \*\*specific signaling pathways\*\* in one group of cancers \*\*relative to another group\*\*.

➤ To run ModSDP, execute:

`run\_ModSDP.m`

---

## Requirements

- \*\*MATLAB\*\* (tested on R2021a and above)

- \*\*IBM ILOG CPLEX Optimizer\*\* (for solving ModSDP via mathematical programming)

- Alternatively, we provide a Genetic Algorithm (GA)-based solver (ModSDP\_GA\_matlab.m) in this package as a substitute for CPLEX.

[Download CPLEX from IBM](https://www.ibm.com/products/ilog-cplex-optimization-studio)