**A**

Diagram showing metabolic pathways involving methanol, CO2, formate, glyoxylate, glycine, (S)-malate, and other metabolites.

- Methanol is converted to formate, CO2, and (S)-malate.
- Formate is converted to CO2 and CO2.
- Glyoxylate is converted to CO2 and CO2.
- Glycine is converted to CO2 and CO2.
- (S)-Malate is converted to CO2 and CO2.

**B**

Graph showing NADPH production by MtdB (mmol.g-1.h-1) and growth rate (h-1) with flux variation (% relative to the /f_lux value observed at optimal growth).

- NADPH production by MtdB increases with growth rate until a peak at around 0.15, then decreases.
- Growth rate increases from 0.00 to 0.20 h-1.
- Flux variation ranges from -50 to 300%.

Legend:
- **EMCP-variant**: Black diamonds.
- **ICL-variant**: Black circles.
- **EMCP flux**: Open diamonds.
- **ICL flux**: Open circles.