

# **Metabolism: Investigating and predicting how biology changes molecules and their properties**

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Most molecules are transformed and transported by specific metabolising enzymes and transporters resulting in changes in their bioactivities, pharmacokinetics and toxicity profiles. This is a key consideration in the design of drugs. Ideally, when medicines have performed their task; they need to fade away gracefully, and not introduce unexpected or untoward biological effects. Some examples of predictive metabolism, transport and interesting design considerations of drugs are described.