

Drug-Drug Interaction

Altasciences is a full-service, early phase CRO with strategically located clinical pharmacology units that have been conducting pharmacokinetic studies, including drug-drug, food and alcohol interaction studies, for over 25 years.

Our team is well versed in designing stand-alone studies for each inhibitor or substrate, as well as developing “cocktail” studies to be able to look at interactions of multiple CYP enzymes or transporters in one study.

Our Expert Clinical Operations

- Clinical teams well versed at dosing drug-drug interaction studies
 - in both healthy normal participants and patients
- Accustomed to the high demands of drug interaction studies on our phlebotomy and laboratory staff
 - easily able to handle groups of over 60 patients at a time

Our Laboratory

- Method development expertise includes sensitive and reliable bioanalytical methods for New Molecular Entities (NMEs) and commercially available compounds
- Various biological matrices
- Large number of common interacting substrates.
- Adherence to timelines supported by:
 - innovative workflows developed by our scientists
 - use of state-of-the-art instrumentation to provide extremely low detection limits even with little sample volume
 - 24/7 production capabilities

Expert Guidance

- Highly skilled in early clinical pharmacology trials
 - study design
 - clinical conduct
 - data management
 - CSR (clinical study report) production
 - etc.

Should significant interactions be seen with the strong inducers or inhibitors, we will work with you to design follow-up studies with weak inhibitors, and offer guidance for dosing adjustments needed.

Full Array of Support Services

- Customizable
- Full-service
- Choose any one or combination of support services from protocol writing to CSR production

Rapid recruitment and study start-up with a sizeable database of poor and extensive metabolizers for different CYP enzymes and routinely genotyped patients as part of the screening process, including:

- 3A4
- 2C9
- 2D6
- 2C19

Over 2600 patients genotyped!

More than 35 LC-MS/MS instruments and ligand binding capabilities, and an extensive list of **validated assays** with a large number of interacting substrates, including:

- Theophylline – 1A2
- Efavirenz – 2B6
- Repaglinide – 2C8
- Warfarin – 2C9
- Omeprazole – 2C19
- Desipramine – 2D6
- Midazolam – 3A4/5

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