

At Altasciences, we have been providing clinical research services to the global biopharmaceutical industry for 25 years, with a particular expertise in developing programs and conducting full-service clinical pharmacology studies for novel biologic or biosimilar products. We have the scientific, medical and bioanalytical expertise to design studies to meet your objectives, your recruitment timelines, manage the associated risks and develop the methods required to analyze the product and any anti-drug antibodies produced.

## **Full-Service Clinical Experience**

We have been conducting studies for 10+ years on various types of biologics.

#### Studies/Year

- 20 Clinical
- 70 Bioanalytical
- 10 Scientific and Data Services

## **Biologics**

- Recombinant Proteins Small Inhibitory RNA
- Monoclonal Antibodies
  Antisense RNA
- Vaccines

In addition, we have conducted numerous clinical pharmacology studies for biosimilar submissions, recruiting up to 250 subjects per study.

- 14 Pharmacokinetic Comparison of Test versus Reference studies
- 6 Immunogenicity studies
- 8 Pharmacodynamic studies

#### **Tailored Integrated Services**

We provide comprehensive early stage clinical drug development services, including the necessary clinical support solutions in this critical stage of drug development.

- Recruitment QA/QC Biostatistics Quantitative Bioanalysis
- Clinical Conduct Protocol Development Medical Writing Method Development and Validation
- Pharmacy Data Management PK and PD Analysis Project Management

### **Bioanalytical Expertise**

We are renowned for our vast experience in LC-MS/MS and Ligand Binding bioanalytical platforms and provide support for all stages of drug development (from preclinical to Phase IV) for both small and large molecules programs, including Immunogenicity. We offer:

- Bioanalytical capabilities are supported by over 100 highly-trained specialists, working with the latest equipment in state-of-the-art, purpose-built laboratories
- Dedicated Method Development teams and space
- Analysis performed 24/7
- Capacity for upwards of 60,000 study samples a month
- Designated containment Level 2 (CL2) areas for work with Risk Group 2 (RG2) Pathogens - known infectious material and monkey serum/plasma/tissues
- The latest equipment to ensure compliant, on-time regulatory submissions

## LC-MS/MS

- PK assessment of recombinant proteins and monoclonal antibodies
- Product characterization including glycosylation patterns

## **Ligand Binding**

- PK assessment of recombinant proteins and monoclonal antibodies
- Immunogenicity assessment by measuring anti-drug antibodies (ADA)
- Neutralizing antibody detection through competitive binding

#### **Study Design**

We design, conduct, analyze and report all our studies in-house.

- Complete programs designed in collaboration with our regulatory consultants
- Individual study designs
- Distinctive recruitment and retention strategies
- Specialized pharmacies
- Experts in clinical conduct on biologics
- Bioanalytical support PK, PD and ADA
- In-house biostatisticians, data managers and medical writers with expertise in biologics

# How we facilitate outsourcing of your Biologic and Biosimilar programs

- We understand that speed, quality and meeting recruitment milestones are vital
- We routinely dose high-risk compounds
- Our studies are designed to meet regulatory requirements in multiple regions
- We design, conduct and report on innovator biologics
- We design complex studies with multiple endpoints (BE, ADA, POC)
- Our pharmacies and pharmacists have the required equipment and experience
- We have a successful record in recruiting and retaining healthy participants for biosimilar studies