



Aptuit Verona

FACTSHEET



Integrated Candidate Selection and Lead Optimization Service - Aptuit Verona

Aptuit's acquisition of GlaxoSmithKline's Medicines Research Centre in Verona, Italy expands and bolsters Aptuit's integrated scientific expertise and operational capabilities for the benefit of our global customers.

Our drug development offering is based on a team of highly skilled scientists from integrated disciplines (Medicinal Chemistry, API, Biology and Discovery DMPK, Preclinical, Analytical Chemistry and Solid State Chemistry) working together to generate and screen candidates. Our scientists have a strong track record of delivering high quality candidates by understanding causes of candidate attrition and applying the most advanced approaches to reduce it. We are also experienced in developing patent strategies and building the associated portfolios.

Therapeutic areas of particular expertise include Neurology, CNS, Cardio-Vascular and Antibiotics.

Aptuit's Integrated Candidate Selection and Lead Optimization Services:

Target Discovery and Biology

- Target distribution
- Target functional characterization
- Electrophysiology in cells and integrated systems
- Native tissues, cell lines and primary cells
- Animal models development
- Range of validated neurosciences models

Medicinal Chemistry

- Computational chemistry
- Rational drug design
- Structure-activity relationship
- Array synthesis
- Synthesis of discrete compounds

Lead Characterization & Screening

- Structural characterization of complex molecules
- Screening of physicochemical properties

Safety Assessment

- Early screening of toxicity, including in silico prediction
- Toxicity studies (GLP) up to 6 months
- Safety Pharmacology studies (GLP) including Abuse Liability Assessment and Neuro-Cardio Model
- Integrated investigative capabilities, including biomarkers identification and validation
- Regulatory and Investigative Pathology, including electromicroscopy (GLP), animal model characterization, transgenic phenotyping and peer-review
- Non clinical assessment of safety and regulatory document preparation

DMPK and Bioanalysis

- In-vitro High Throughput Assays
- Preclinical and clinical blood, plasma, and tissues bioanalysis
- Metabolic profile in plasma, tissues excreta and in-vitro preparations
- Structural identification and characterization of metabolites
- ADME in-vitro and in-vivo
- IVIVE, mechanistic PK/PD analysis, Toxicokinetics, TK modeling
- GLP standard of work

Laboratory Animal Science

- Animal model development
- Range of validated neuroscience models
- Genetically modified mice: colony maintenance and phenotyping

Equipment and Techniques

- Electron Microscopy (ESEM & TEM)
- Confocal Microscopy
- MRI/MRS
- Taqman (RT-PCR, DNA - reverse transcriptase-mRNA analysis)
- Accusampler - automated blood sampler
- Haematology and clinical chemistry analysis
- Gene expression
- Telepathology
- Echocardiology
- Genetic toxicology
- Metabolic profiling
- Longitudinal fMRI

Additional Aptuit Capabilities

Aptuit offers a comprehensive suite of drug development services that range from candidate selection through to market, including consultancy services, API development and manufacture, preclinical and clinical technologies, pharmaceutical services, large and small scale manufacturing, IVRS, clinical packaging and logistics, and clinical support services, across a wide range of compounds, dosage forms and delivery systems.

For information about Aptuit's services, please call or email:

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Engineering a better drug development process through scientific excellence.