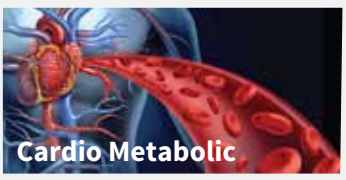
aragen.com

Integrated Drug Discovery Solutions

Innovative and differentiating AI & ML tools to accelerate Discovery Programs

Aragen utilizes its expertise in Medicinal Chemistry, CADD, DMPK, *In Vitro* and *In Vivo* models to provide customized integrated drug discovery solutions leading to preclinical candidates. Our sister company (Excelra) brings valuable and distinguished actionable insights on any therapeutic field through its unique Bio and Chem informatics platforms. Our strong scientific team works in close association with clients to select and execute the most promising strategy to deliver project goals in the shortest possible time. We have a proven track record of providing cost effective, innovative and highly efficient technical expertise in delivering clinical candidates.

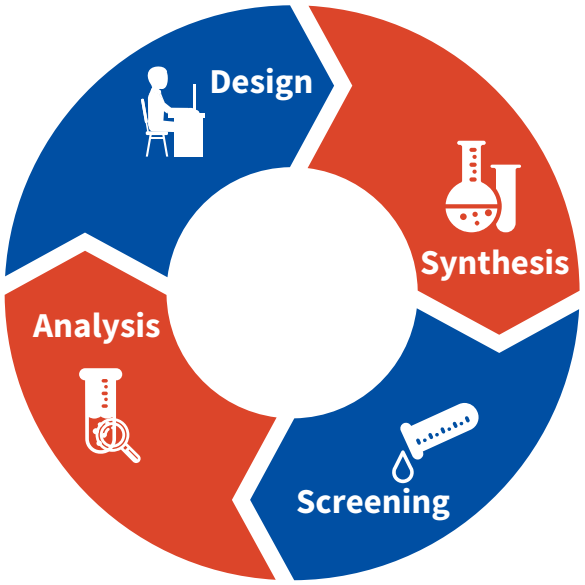
Focus Therapeutic areas:



Integrated Drug Discovery solutions are provided ranging from hit, lead generation and lead optimization to an optimized preclinical candidate for development.

Hit Generation

Beside the traditional way of virtual screening, high-throughput screening on commercial / client provided library and knowledge-based design, we are moving ahead with newer ways. Team is now trained and equipped to analyse the DNA encoded libraries results to identify new hit. Novel AI platforms is helping to rediscover the process of generating and selection of hit/lead molecules.



Lead Generation

Multi Parameter Optimization (MPO) for identification of potent and selective compounds with desirable PK parameters & evidence of target engagement.

Lead Optimization

Optimization of potency, PK, efficacy and safety profiling to deliver a pre-clinical candidate.

PROGRAM SETUP → HIT → LEAD → DRUG CANDIDATE → IND

Validation

- Reference compound synthesis and profiling
- Assay development for potency and ADME

Optimization

- SAR development
- Computational Chemistry
- *In Vitro* screening
- In-depth ADME, PK, ***In Vivo*** efficacy
- Exploratory Tox

Regulatory support

- Patent writing
- non-GMP and GMP manufacturing
- Tox studies CMC documentation

INTEGRATED DISCOVERY TEAM:

Small molecule drug discovery requires a deep knowledge of disease biology and medicinal chemistry. Over the years, Aragen has developed an expertise in the area of oncology, pain, inflammation and cardio-metabolic diseases. Aragen integrated drug discovery solutions team has the experience and learning from/through their global customers on drug discovery programs, and know-how to advance small molecule into clinics.

Experience

25+ recent integrated programs with large pharma, mid-sized and small biotechs

Track Record

Delivered 2 clinical & 8 preclinical candidates

Scientific Expertise

Inventors on >100 patents / publications in the last 8 years

AUXILIARY TEAM:

Our medicinal chemists work in collaboration with an experienced group of synthetic chemists. Their experience is utilized at the various stages of drug discovery right from library synthesis, reference molecule synthesis, asymmetric synthesis and scale-up. They also bring differentiation in terms of having hands-on experience with not only on heterocyclic chemistry but also on PROTAC, carbohydrate, peptide, steroid and nucleotide chemistry. A team of 150+ biologists (India and USA) routinely assist collaborators with protein production, assay development, DMPK and in vivo disease models. This vast experience is readily utilized by discovery team during discovery programs. The Aragen is also working exclusively on degradomer (including PROTAC) chemistry/integrated program, with full battery of expertise in synthesis, screening and specific ADME/PK profiling.

Resources

- Large pool of highly skilled 1600+ scientists including 200+ PhDs
- 7 independent research centres at different geographical locations with 24/7 analytical support and ancillary functions
- Strong computational & informatics group with proprietary Biomarker and SAR Database (GOSTAR database - The world's largest small molecule medicinal chemistry intelligence platform providing a 360^0 view of millions of compounds linking chemical structure to biological, pharmacological and therapeutic activities)
- Data processing/analysis software like ChemAxon, Spotfire, Pipeline pilot, ACD labs to manage the SAR data
- Schrodinger platform with team of expertise for computational work.
- FDA approved GMP manufacturing facility.

IP and Confidentiality

- No Conflict Model: Target exclusivity on the programs.
- Various technology platform ensures IP protection and confidentiality of client programs
- Regular Training and monitoring of the team on IP sensitivity
- Secured IT infrastructure with Websense Triton APX DLP implemented for protection against advanced threats and data theft

Let's begin the Conversation

E: bd@aragen.com
W: aragen.com
in /company/aragen-life-sciences
f /AragenLifeSciences

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