

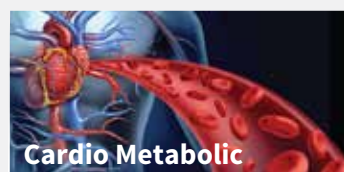
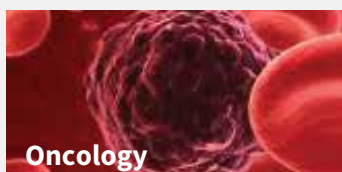
# Integrated Drug Discovery Solutions



## **Innovative and differentiating AI & ML tools to accelerate Discovery Programs**

Aragen utilizes its expertise in Medicinal Chemistry, Computational Chemistry/Informatics, DMPK, In Vitro and In Vivo models to provide customized integrated drug discovery solutions leading to preclinical candidates. 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

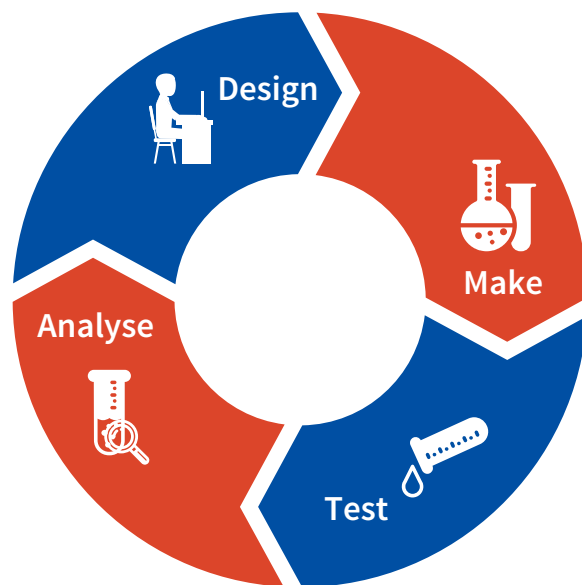
Beside the traditional way of virtual screening, high-throughput screening on commercial / client provided library and knowledge-based design, we are moving ahead with newer ways. Team is now trained and equipped to analyse the DNA encoded libraries results to identify new hit. Novel AI platforms is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



### Validation

- Assay development for primary assays
- Reference compound assay profiling
- Structural Biology
- CADD/Informatics

### 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
- Automated workflow from Design to Registration, Compound management to Biology data publish and Data processing/analysis using software like Torx, CDMS, and SARVision
- Strong computational & informatics group with proprietary fingerprint databases for CNS, PROTACS and oncology
- Schrodinger platform with GPU enabled infrastructure 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](mailto:bd@aragen.com)  
W: [aragen.com](http://aragen.com)  
[in](#) /company/aragen-life-sciences  
[f](#) /AragenLifeSciences



India • USA • Netherlands • Japan • S Korea