

# scientific consulting

and contract research services



**Helping** biotech & pharmaceutical companies succeed with chemistry

Moving from a series of screening hits to a lead compound, generating active, structurally diverse backup scaffolds or optimising those leads for the right mix of activity, ADME and toxicity properties can be highly challenging and very costly, especially if you don't succeed first time.

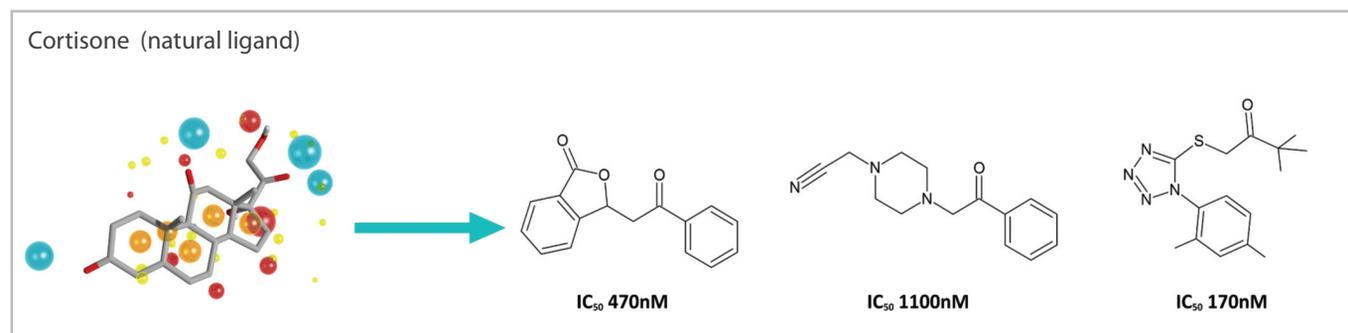
Companies and research groups focused on developing innovative and novel therapies often do not have the full range of expertise, software and systems required to perform compound design and optimisation in their labs. These can be highly complex tools, and knowing which solutions to choose, learning the science behind them and how to run them properly is a full time commitment that takes a level of experience and time that many labs simply cannot afford. Fortunately there is a simpler and cost effective way to access those skills.

Cresset has a long and successful track record of performing drug discovery services for our clients and collaborators. Our Scientific Consulting and Contract Research services provide a secure, confidential and cost-effective way to gain the benefit of a hugely experienced and well equipped computational chemistry team without having to run it yourself.

## Moving Forward with Cresset

- Generate innovative chemical starting points for your targets.
- Optimise your lead series' activity, ADME and toxicity.
- Identify the binding mode of a target with/without a structure.
- Understand the SAR of your compounds.
- Hop between bioisosteric chemical scaffolds.

Example results showing structurally diverse active chemistry derived from a natural ligand.



## What Works for You?

All of our software and services can be accessed through a range of flexible options to suit every customer:

## Let Us Do It

Our team of highly experienced computational and medicinal chemists can undertake projects of all sizes from single lead optimization studies to huge programs (our record is 40 targets in a single engagement).

## Rent It in the Cloud

We have built implementations of our solutions on our private, secure Cloud computing platform. We can provide you with access to those systems and as much or little support as you require to run your jobs quickly and efficiently.

## Rent It at Your Lab

We have 'Cluster on Wheels' (COW) solutions for all of our products. We build a fully working system on a portable cluster which we ship to your site. You add your data on your hard disks and run the jobs on the COW. Once complete all of your data and the results remain on your hard disks, which never have to leave your firewall.

**Call Us Today to Discuss Your Projects**



SMARTER MOLECULE DESIGN DISCOVERY OPTIMISATION PROTECTION



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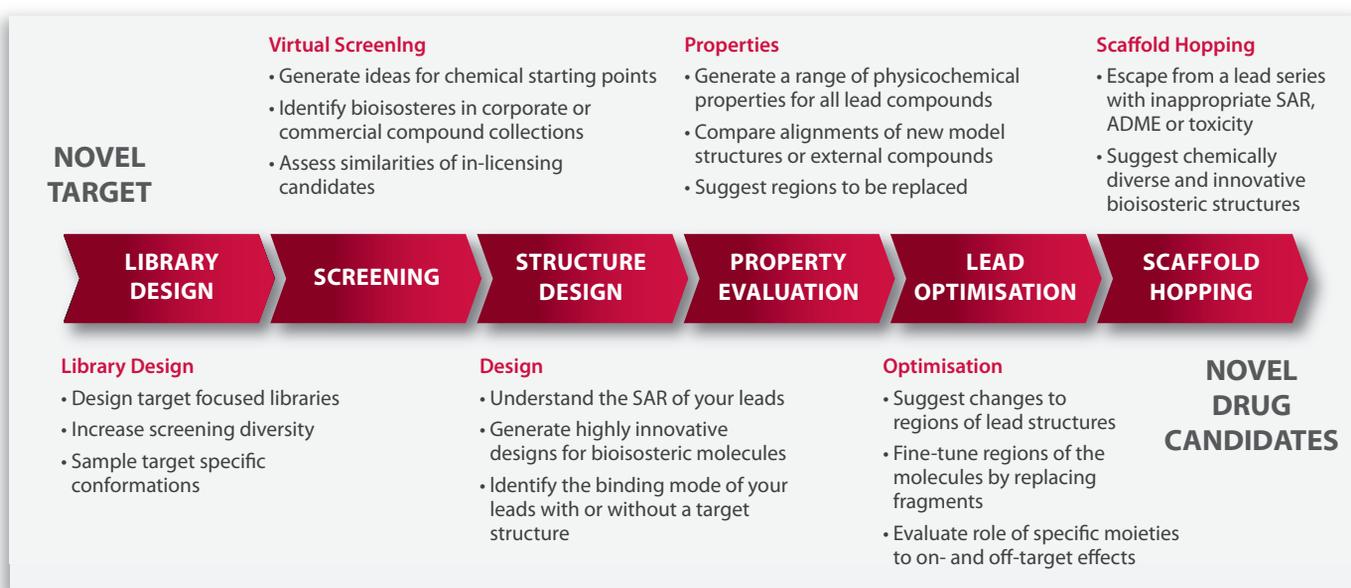
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## Where Can We Help?

Cresset can contribute to your projects at various stages and to the degree that suits your needs. We can run whole lead discovery and optimisation projects or just help you overcome obstacles in your path. We offer solutions in a range of areas:



## Cresset's Track Record of Drug Discovery

Cresset has successfully concluded over 100 contract research and scientific consulting projects with our customers, many of whom have come back time and time again for additional services. Because Cresset's technology can work with or without a structure of the target protein it can be used on the widest range of target classes. Example projects include:

Drug reprofiling	Protein-protein interactions	Opioid receptors	Ubiquitin pathways	Novel anti-inflammatory target
Focused library design	Lead optimisation	Steroid receptors	Patent analysis	Nuclear receptors
Diverse screening library design	Lead discovery	Ion channels	Fragment based virtual screening	Design of fragment libraries
Small molecule peptidomimetic design	Virtual screening	Proteases	P450s	In-licensing candidate assessment
Scaffold hopping	Structure based drug design	Matrix Metalloproteases	Anti-infectives	Open innovation
Field based pharmacophores	Bioisostere detection	Protein Kinases	Toxicity prediction	Nematode control agents
SAR analysis	GPCR class A & B peptide receptors	Sensing proteins	Automated fragment growing	
	Chemokines	β-amyloid Aggregation	Fragment selection for screening	
		Antibodies		
		Retinoic acid receptors		



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