

## Contract Research and Scientific Consulting Services

### For Biotech and Pharmaceutical Companies

*Are you taking advantage of computational science to reach your goals?*

You have limited time and cash. Your needs may be in genetics, lead identification, lead optimization and/or drug development. You must apply the cash that you have to meet numerous challenges using the right combination of scientific expertise and technology.

#### **The Challenge**

Your in-house scientists are often fully engaged in the projects that you have set for them. They don't have the time to assess, much less implement, computational approaches to your overall discovery and development process. Often you can deploy specific scientific skills to solve short-term resource requirements, but cannot invest to develop and retain those resources over the long term.

#### **Our Collaborative Research Solution**

Accelrys Contract Research and Scientific Consulting Services provide extremely cost-effective, collaborative, and flexible ways for you to apply computational expertise and technology under strict confidentiality.






- **Contract Research Projects:** You can engage our computational scientists to help you solve a particular problem. Our scientists have experience working on real discovery and development projects using relevant tools from Accelrys' industry-leading modeling and informatics portfolio.
- **Scientific Consulting:** Find out how computational expertise and technology can assist your research process with our Scientific Consulting program. Our scientist will come to your site and under strict confidentiality determine how you can best take advantage of computational methods to accelerate the discovery process as well as improve your return on investment in computational tools and services.
- **Computational Scientist Resource:** We recruit and place an experienced computational scientist at your research site for an agreed period; typically, one year. We provide all the software and support needed to make the maximum impact on your R&D. We work with you throughout the term to track and maximize your return on investment.

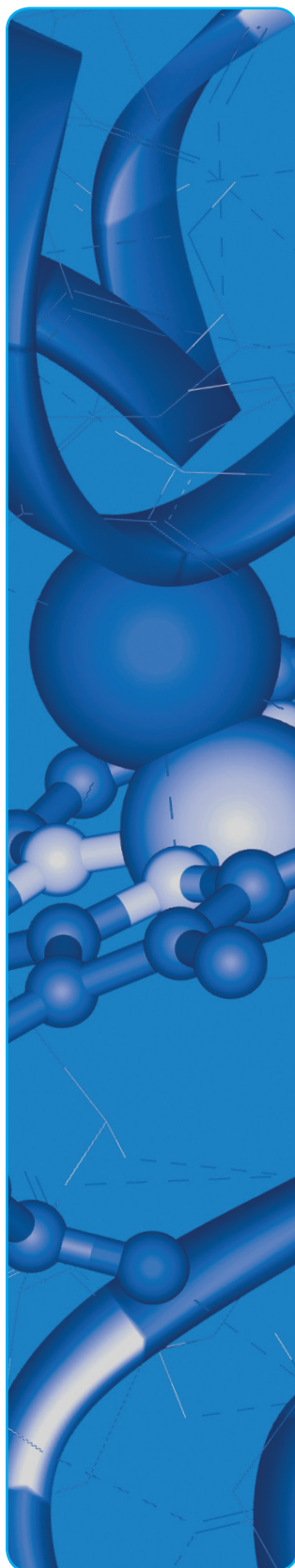
We have many years of experience working with pharmaceutical and biotechnology companies across North America, Europe and Japan.

#### **Do you need to:**

- determine ways to streamline your research process and improve productivity?
- reduce time-consuming and costly experimental laboratory work?
- identify key chemical interactions driving certain essential properties?
- accelerate your IP patent process through an understanding of key discovery pathways?

### **Extend your reach with Molecular Simulations:**

-  Understand key chemical processes better
-  Accelerate discovery processes
-  Probe experimentally intractable areas
-  Design optimized property
-  Gain key insights to help direct experiments



“We at Addex had a unique target of therapeutic interest but only a small series of congeneric molecules address this difficult problem. We contracted with Accelrys’ Contract Research Services to help us address this difficult problem. Accelrys’ scientist used their software to look for molecules that would be active, lead-like and possess minimal ADME issues. At the end of the project, we tested three dozen compounds and found two that were active. One was 1.2 mM and the other was 350 nM against the target. As a result of our engagement with Accelrys, we were able to move forward with viable compounds for our novel target.”

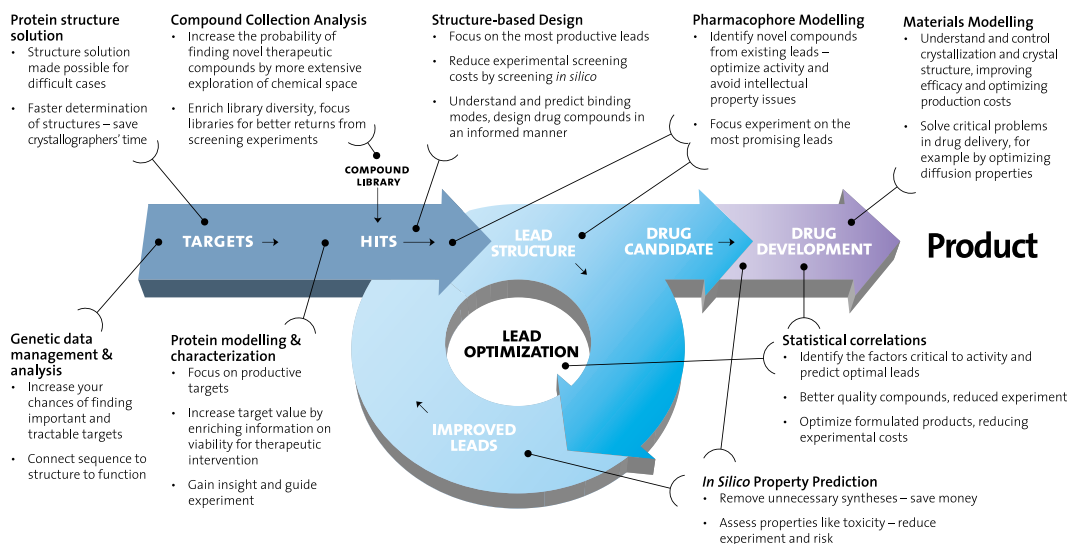
Jean-Philippe Rocher, Head of Core Chemistry, Addex Pharmaceuticals

## Your Next Step

Please visit our website at [www.accelrys.com/services/contract](http://www.accelrys.com/services/contract), e-mail [contractresearch@accelrys.com](mailto:contractresearch@accelrys.com), or contact your local sales representative for more information.

## Where can we help in your design and development process?

We can handle complex systems, numerous processes, multiple characterizations, and varied data.



## Accelrys’ Contract Research and Scientific Consulting Services Already at Work

High Content Screening	Kinases	Metalloproteins
Structure Based Pharmacophore	P450s	Nucleic Acid Complex
Ligand Receptor Docking	Virtual Library Design	High Throughput Data Content
Antigen-Antibody Modeling	Pharmacophore Profiling	Explicit & Implicit Solvation
Cardiovascular Target	Structure Based Drug Design	Olfactory Molecules
Homology Modeling	Lead Optimization	Memory Molecules
QSAR and SAR	Electrostatic Characteristics	Phase Separation of Excipient
Nucleic Acid Structure	Lead Discovery	Drug Formulation
Lead Hopping	Pharmacophore Modeling	Drug Delivery
Drug Metabolism	Thermacophore Modeling	Toxicity Assessment
CHARMm Simulations	Immunology	Drug Chemical Stability
Ubiquitin Pathways	Protein Protein Docking	ANOVA
Oncology Target	ROC Curve	Solvent Accessibility
GPCR	Sequence Analysis	Drug Emulsion Stability
Docking	Diversity Analysis	Drug Combination Therapy
Proteases	Polymorph Prediction	Nuclear Hormone Receptors