

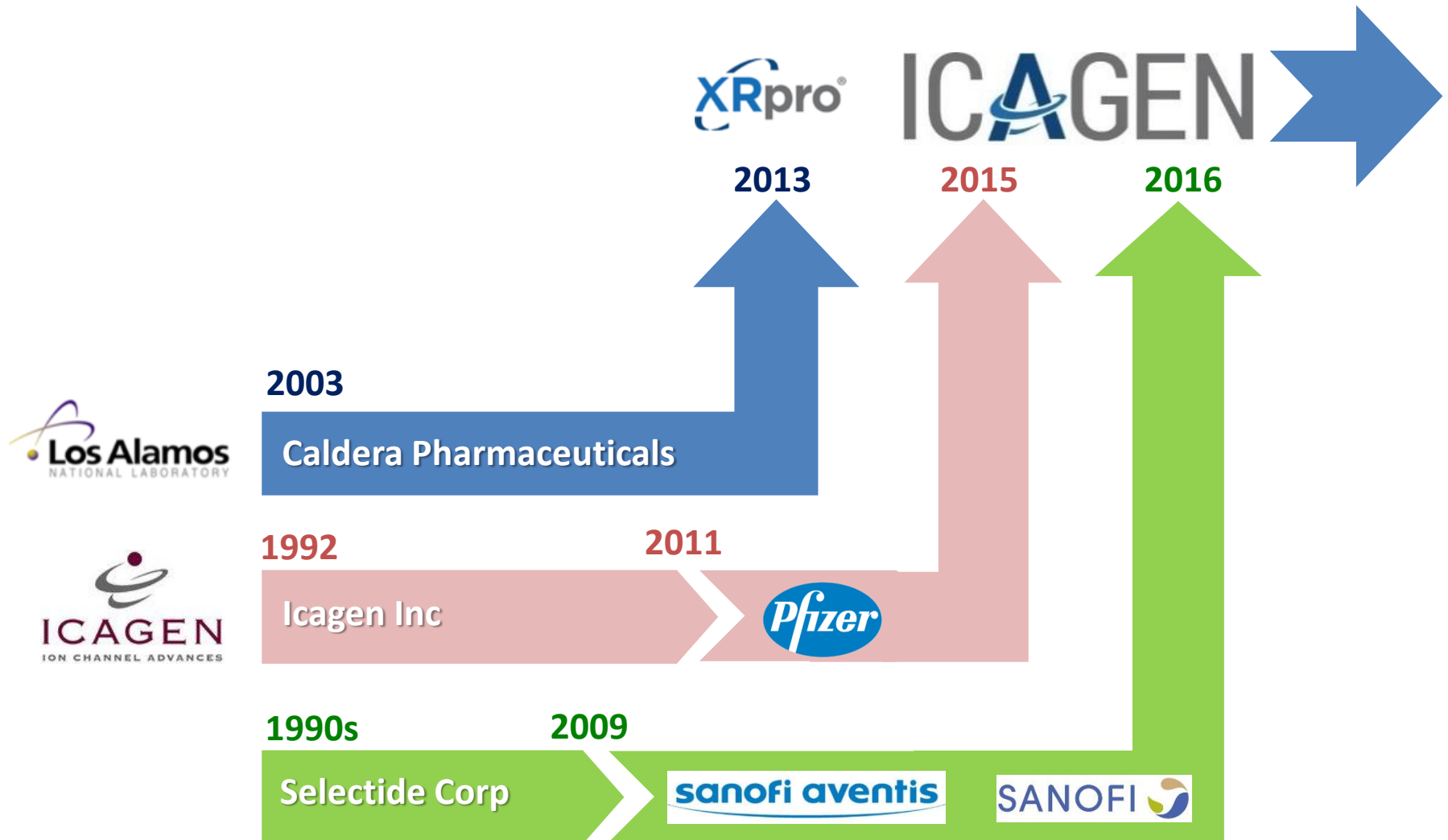


September 2016



Icagen Background

ICAGEN





Tucson, Arizona USA **Integrated Drug Discovery Site**

Benefits:

- *Cost effective*
- *Convenient, West Coast*

Capabilities:

- Compound management
- HTS & Hit identification
- *In vitro* & *in vivo* pharmacology
- Medicinal chemistry
- ADME, PK/PD



Durham, North Carolina USA **ION Channel / XR-PRO Site**

Benefits:

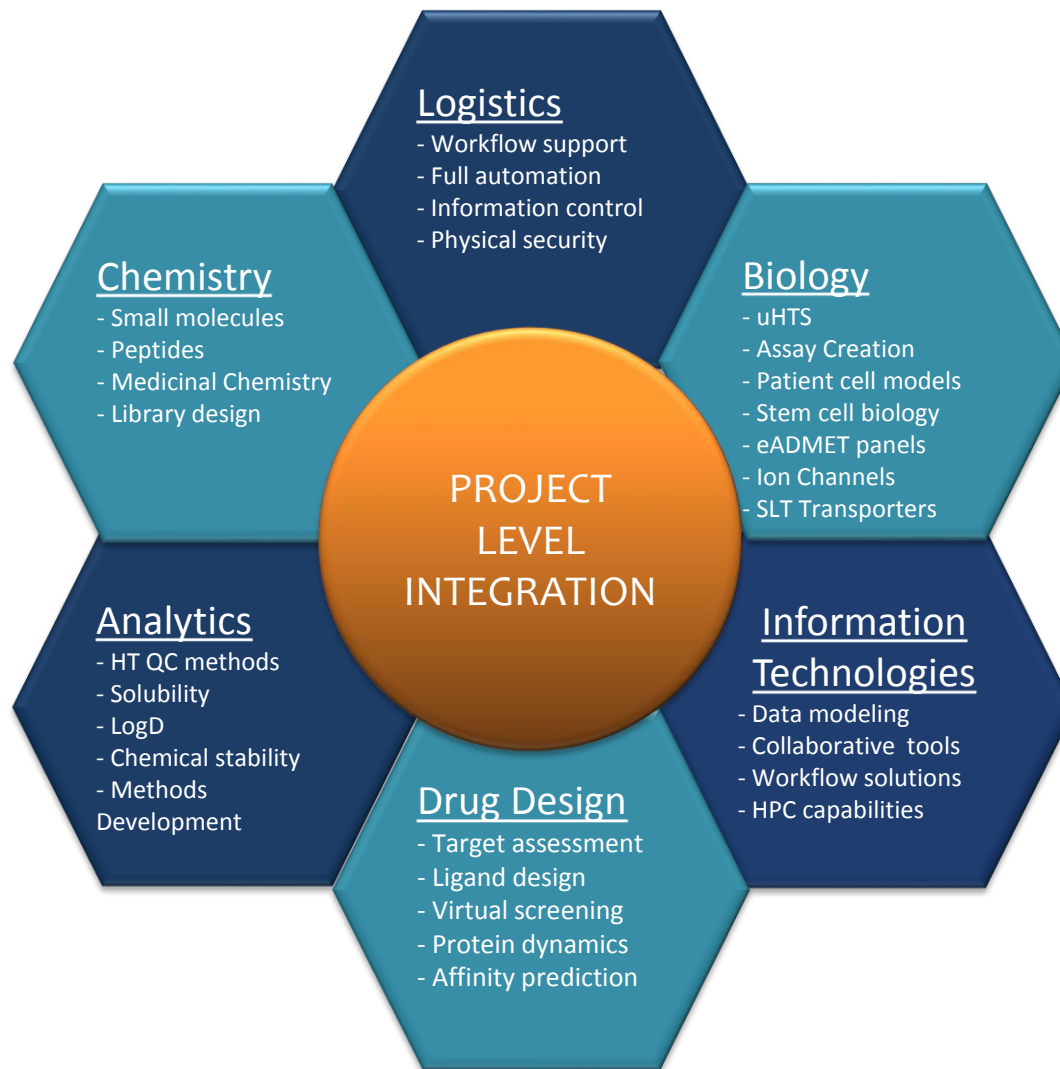
- *Cost effective*
- *Convenient, East Coast*

Capabilities:

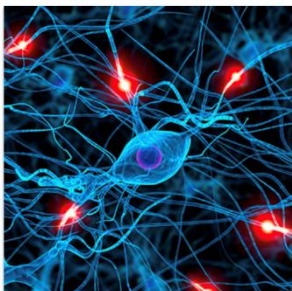
- Ion Channel/Transporter HTS & Lead Optimization Support
- Ion Channel Profiling
- Assay Development
- X-Ray Fluorescence Platform

Effective and Efficient Integration

- A complete solution

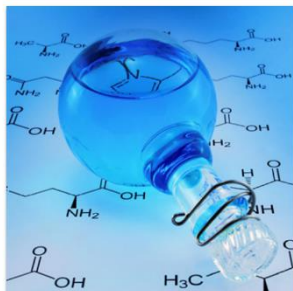


Integrated Drug Discovery



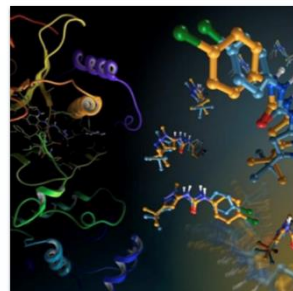
Discovery Biology

- Cellular assays
- Patient cell lines
- Gene-transcript assays
- Cell imaging
- Ion Channels
- SLT Solute Transporters



Chemistry

- Small molecules
- Peptides
- SAR & multiparametric optimization
- Combinatorial libraries
- Solid-phase chemistry



In Silico Drug Discovery

- Virtual screening
- Pharmacophore models
- Drug design
- Molecular dynamics simulations
- Cheminformatics



ADME And Drug Safety

- High throughput in-vitro assays
- Metabolic stability
- Drug-drug interaction
- Metabolite ID
- Protein binding



High Throughput Screening

- Assay design
- Assay development and adaptation
- High-throughput screening
- Multi-dose response curves



Compound Purification

- Automated LC-MS purification
- Direct and reverse phase methods
- Sample registration
- Integrated with other functions



Analytics

- Quality control
- Sample quantitation
- Structure determination
- Physico-chemical properties



Sample Management

- High capacity compound storage
- Efficient sample handling
- World-wide sample distribution
- Support of compound flows