

# Collaborative Research Lab with industry partners

A UC Davis / Seed Central project

## Primary partners

**Ag biotech, food companies, animal sciences co., etc.**

- Conduct research in own lab
- Fund central lab
- Fund scientists in central lab
- Fund research in central lab
- Place own scientist in central lab
- Internships

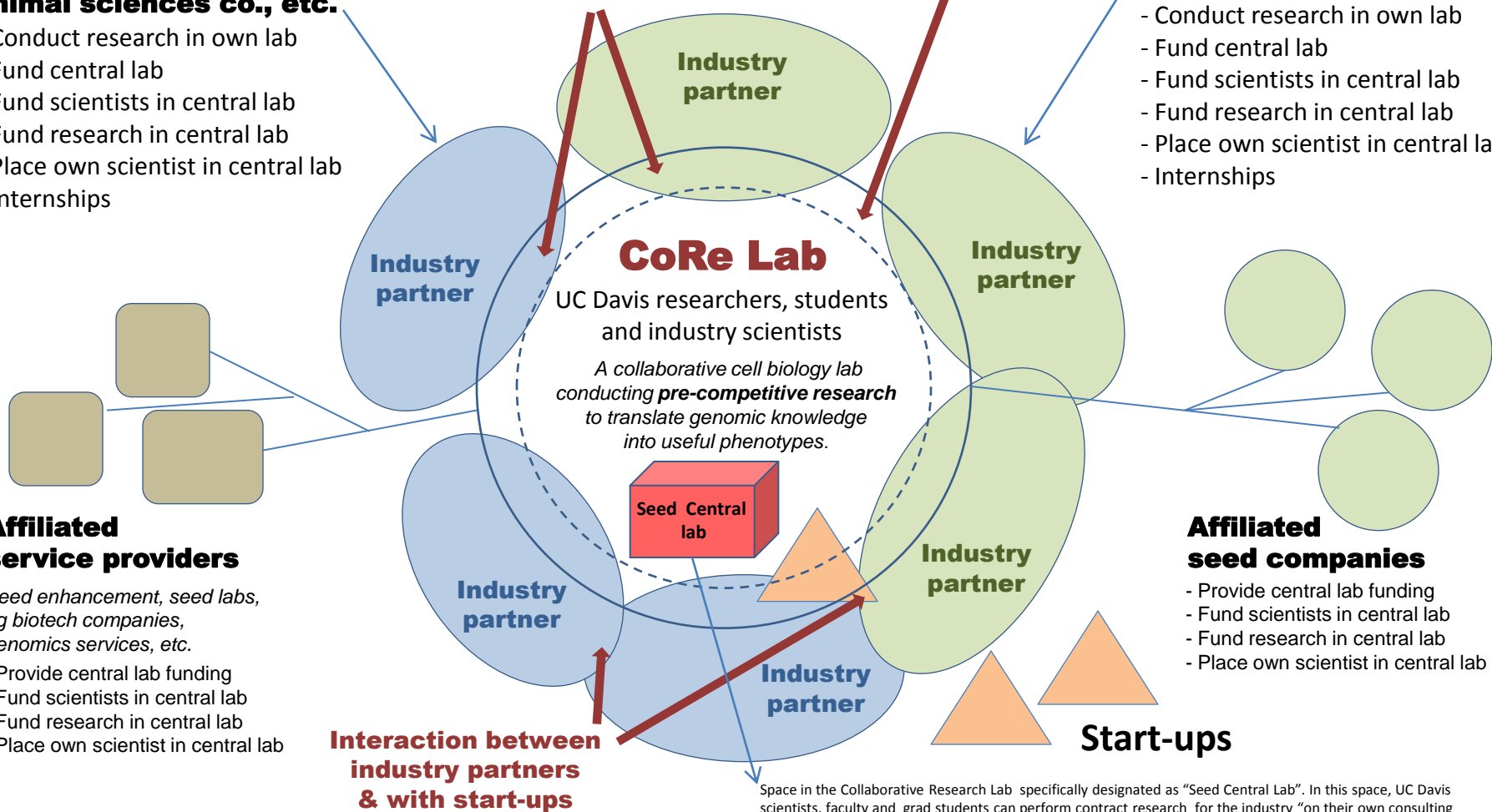
**Interaction between industry partners and lab**

## Shared facilities

Equipment, conference rooms, class rooms, lecture hall, break rooms, space for networking events, etc.

## Primary partners Seed companies

- Conduct research in own lab
- Fund central lab
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- Place own scientist in central lab
- Internships



## Affiliated service providers

*Seed enhancement, seed labs, ag biotech companies, genomics services, etc.*

- Provide central lab funding
- Fund scientists in central lab
- Fund research in central lab
- Place own scientist in central lab

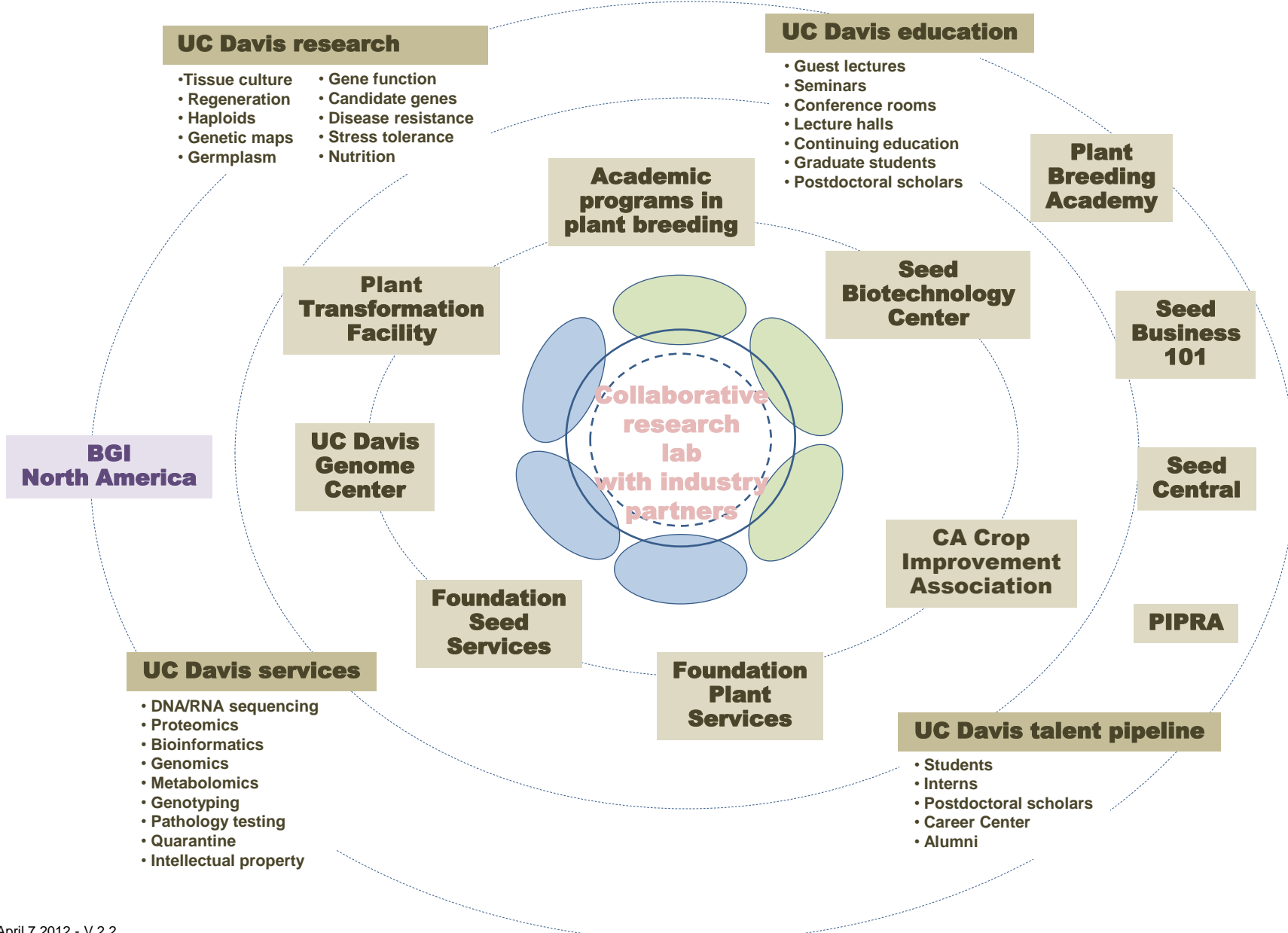
**Interaction between industry partners & with start-ups**

## Affiliated seed companies

- Provide central lab funding
- Fund scientists in central lab
- Fund research in central lab
- Place own scientist in central lab

## Start-ups

Space in the Collaborative Research Lab specifically designated as "Seed Central Lab". In this space, UC Davis scientists, faculty and grad students can perform contract research for the industry "on their own consulting time", i.e. as "free agents" and not as UC Davis personnel, which means that all IP resulting from this research will be fully owned by the industry partner for which it is conducted.



# Collaborative Research Lab

## Research components & resources

(Physical and virtual)

### BGI North America

- Sequencing
- Assembly
- Bioinformatics
- Genetic maps

### UC Davis Genome Center

- DNA/RNA sequencing
- Bioinformatics
- DNA technologies
- Expression analysis
- Proteomics
- Metabolomics
- TILLING

### CA&ES Genomics Facility

- DNA sequencing
- Genotyping
- Robotics
- Genomics instrumentation
- Custom applications

### PIPRA

- Biotechnology tools
- Intellectual property pool
- Freedom to operate analyses
- Vectors, protocols

### Plant Transformation Facility

- Tissue culture
- Transformation
- Regeneration
- Cell biology
- Protocol development

### CoRe Lab research

- Cell biology
- Tissue culture
- Haploid production
- Candidate genes
- Gene function
- Metabolic pathways
- Disease resistance
- Molecular markers

### CoRe Lab amenities

- Equipment
- Special facilities
- Conference rooms
- Class rooms, lecture hall
- Break rooms
- Networking events
- Seminars

### Seed Biotechnology Center

- Breeding tools
- Marker-assisted breeding
- Novel traits
- Seed quality and technology
- Commercialization and co-existence

### Seed Central

- Networking events
- Research agreements
- Intellectual property assistance
- Tech transfer
- Proof of concept / de-risking

### Related UC Davis research

- Food safety
- Flavor
- Processing
- Engineering
- Consumer science
- Pathology
- Entomology
- Nematology
- Weed science
- Environmental biology

### Plant Science

- Haploids
- Recombination
- Gene silencing
- Development
- Regulation
- Flavor
- Nutrition
- Gene function
- Candidate genes
- Physiology
- Metabolism
- Stress tolerance
- Disease resistance
- Yield

# Collaborative Research Lab

## Partnership options

