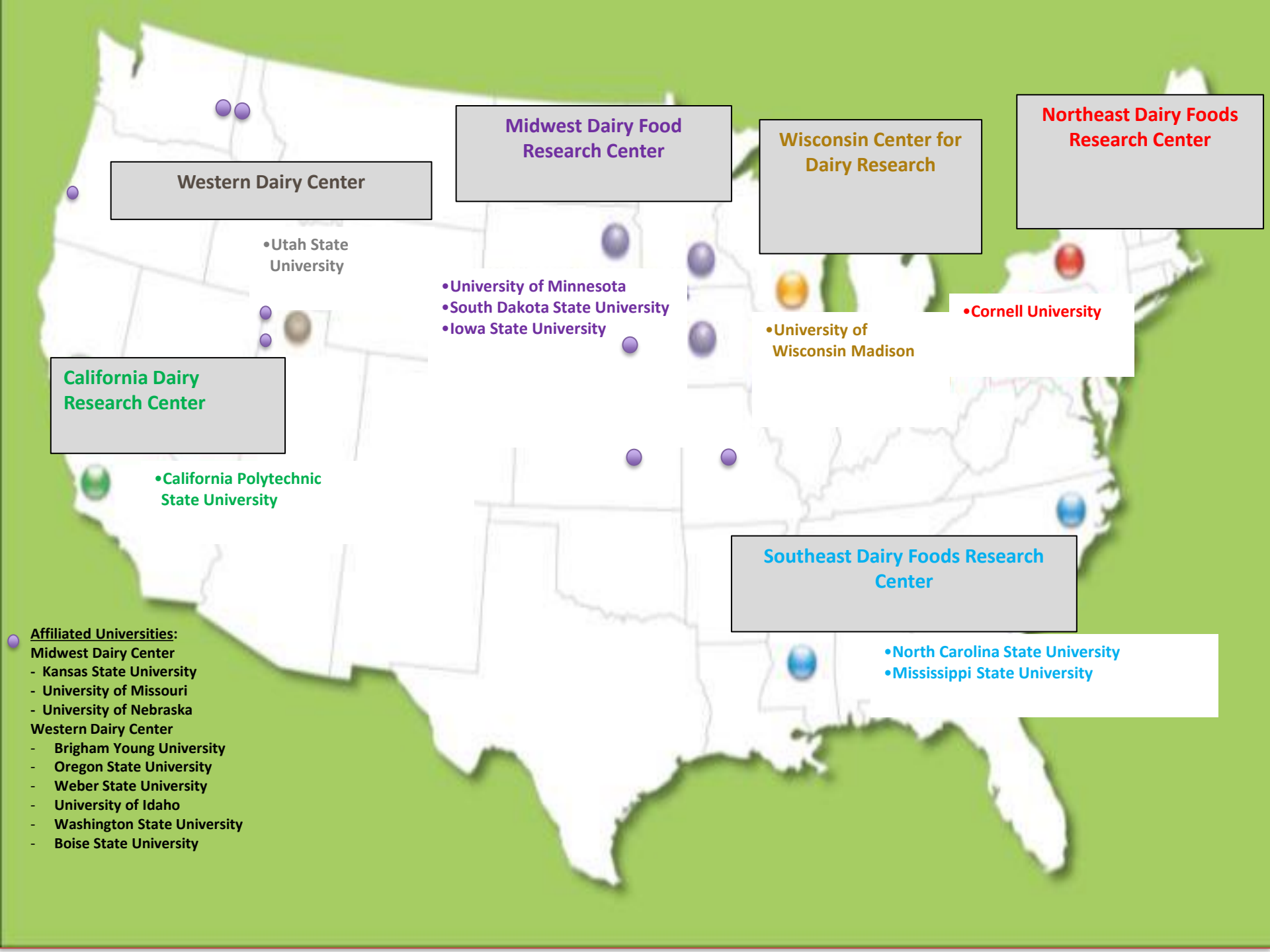




## BUILD Dairy - Next Generation of Dairy Scientists

IMPA – August 2021



**Northeast Dairy Foods Research Center**

**Wisconsin Center for Dairy Research**

**Midwest Dairy Food Research Center**

**Western Dairy Center**

• **Cornell University**

• **University of Wisconsin Madison**

• **University of Minnesota**  
 • **South Dakota State University**  
 • **Iowa State University**

• **Utah State University**

**Southeast Dairy Foods Research Center**

• **North Carolina State University**  
 • **Mississippi State University**

**California Dairy Research Center**

• **California Polytechnic State University**

**Affiliated Universities:**

- **Midwest Dairy Center**
- **Kansas State University**
- **University of Missouri**
- **University of Nebraska**

**Western Dairy Center**

- **Brigham Young University**
- **Oregon State University**
- **Weber State University**
- **University of Idaho**
- **Washington State University**
- **Boise State University**

# BUILD Dairy Program Initiated in 2014

Building University-Industry linkages through Learning and Discovery

- BUILD upon university funding to recruit and train students from the Western states in dairy food technology and innovation.
- BUILD leadership qualities in students.
- BUILD awareness, linkages and communication between professors, students and dairy food companies.

# Our Goals

- Revitalize the Western Dairy Center
- Develop a technically-trained workforce - dairy scientists for the innovative future of our industry – regional effort
- Create innovation driven by R&D, QA, Technical Services and Technical Sales professionals
- Provide future Dairy Leaders
- Develop Dairy Advocates among our young people
- Relevant Research Programming
- Develop technologies for our future



# Progress

- December 31, 2017 – 19 new projects with 19 new students, bringing total program to 29 students
- December 31, 2018 – 18 new projects with 18 new students and undergraduate research opportunities offered for 21 undergraduate students bringing total graduate students to 41.
- December 31, 2019 – 19 new projects with 19 new students, continuing undergraduate research opportunities.
- YTD 2020 – 19 new projects with 19 new students plus UROP at Weber State.
- Projects running at USU, U of I, WSU, OSU, BYU, NCSU and BSU.
- 2020 check-off funds \$2.1 M for BUILD Dairy Projects.
- Co-funding of \$841K bringing total to \$2.941 M.



# Progress

- 2020 Co-funding, \$841K from
  - Glanbia Nutritionals
  - Tillamook
  - Jerome Cheese/Agropur
  - High Desert Milk
  - Idaho Milk Products
  - Lactalis
  - Darigold
  - Rogue Creamery
  - Oregon Dairy and Nutrition Council
  - DMI/NDC
  - Washington State University
  - Weber State University
  - BYU
  - NC State University
  - Utah State University



# BUILD Alumni - 2018

- Jimmy Zhong (USU) – Hilmar
- Ying Lu (USU) – Modesto Junior College
- Nicola Beatty – BYU Creamery
- Tyler Allen (USU) – Glanbia
- Jason Kim (BYU) – General Mills -Yoplait
- Sam Smith (NCSU) – Glanbia
- Dillon Fallen (USU) – Sargento
- Eva Kuhn (OSU) – Darigold
- Hannah Damiano Fosberg (UI) – Continental Mills
- Tom Overbeek (USU) – Jeneil Biotech
- Elton Li (UI) – Happy Family Brands
- Kanak Bulbul – Glanbia (Management Trainee)
- Alex Meldrum – Foodwit
- Vidita Deshpande – graduated, non-BUILD PhD
- Richard Geslison (USU) – Chobani



# BUILD Hires -current

- Jimmy Zhong (USU) – Hilmar
- Tyler Allen (USU) – Glanbia Nutritionals
- Danny Clayton (USU) - Sargento
- Jason Kim (BYU) – General Mills
- Sam Smith (NCSU) – Glanbia Nutritionals
- Dillon Fallen (USU) – ConAgra Brands (Dairy Team)
- Eva Kuhn (OSU) – Tillamook
- Tom Overbeek (USU) – Jeneil Biotech
- Elton Li (UI) – Happy Family Brands (Infant Formula)
- Alex Meldrum (UI) – Wild Rose Foods (organic dairy/food)
- Richard Geslison (USU) – Glanbia Nutritionals
- Danton Batty (OSU) – Tillamook
- Isaac Bowen (USU) – Jeneil Biotech
- Kanak Bulbul (USU) – Glanbia Nutritionals
- Muriel Allen – Lidl US Food Testing Lab
- Kate Kalbas – Noosa Yogurt
- Casey Rush – Glanbia
- Wyatt Olson– Glanbia Nutritionals
- Tyson Hardy (BSU) – Agropur
- Deb Hutchins (BYU) – Agropur
- Kate Hartman (BYU) – BYU Sensory Lab Manager
- Brandon Carter (NCSU) – High Desert Milk
- Savannah Branson (USU) – Pepperidge Farms
- Rhitika Poudel (USU) – Glanbia Nutritionals
- Sebastian Ramirez (OSU) – Tillamook
- Lovepreet Singh (UI) – Idaho Milk Products
- Garth Lee (BYU) – 4Life Research
- Marshall Dunn (NCSU) – California Dairies, Inc.
- Sara Maruyama (OSU) – Tillamook
- Zachary Cooper(USU) – Pepperidge Farms
- Daniel Whit (NCSU)– Glanbia Nutritionals
- Ireland Green (USU) – Better Body Foods
- Kristin Sparkman (UI) – Culinex, LLC
- Kaitlyn Kornberg (OSU) – Food & Drug Administration
- Immanuel Rodriguez (OSU) – Rogue Creamery
- Arshdeep Singh (WSU) – Idaho Milk Products
- Keely Hayes (OSU) – Darigold
- Jason Young – Glanbia Nutritionals





# BUILD Work Pillars



New dairy products, new dairy processes, dairy food safety – All Food Science developments that comprise most of our existing projects and efforts.



Human nutrition, cell culture, animal models & human randomized trials. We have several projects in place – Next major project is high school athletes with supplemental protein



Sustainability – Working alongside IDA with USDA ARS research station in Twin Falls.



Packaging – working to find appropriate researchers and companies with which we can partner. This one is a little further out.

