

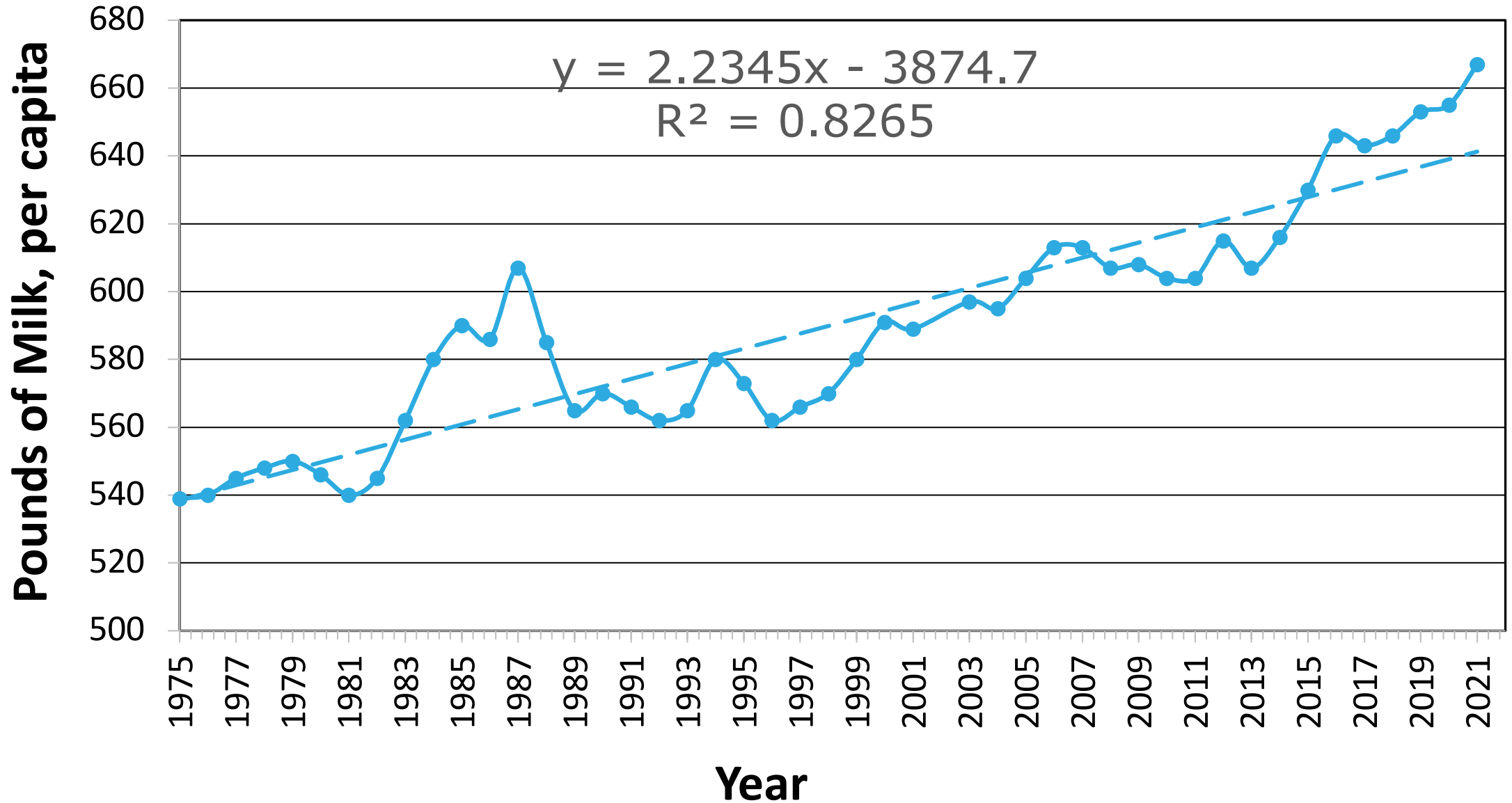


BUILD Dairy

ERIC BASTIAN

BU!LD
DAIRY

All Dairy Products Consumption, Milk-Equivalent, Milk-fat basis



BUILD Dairy Program Initiated in 2014

Building **U**niversity-**I**ndustry linkages through **L**earning and **D**iscovery

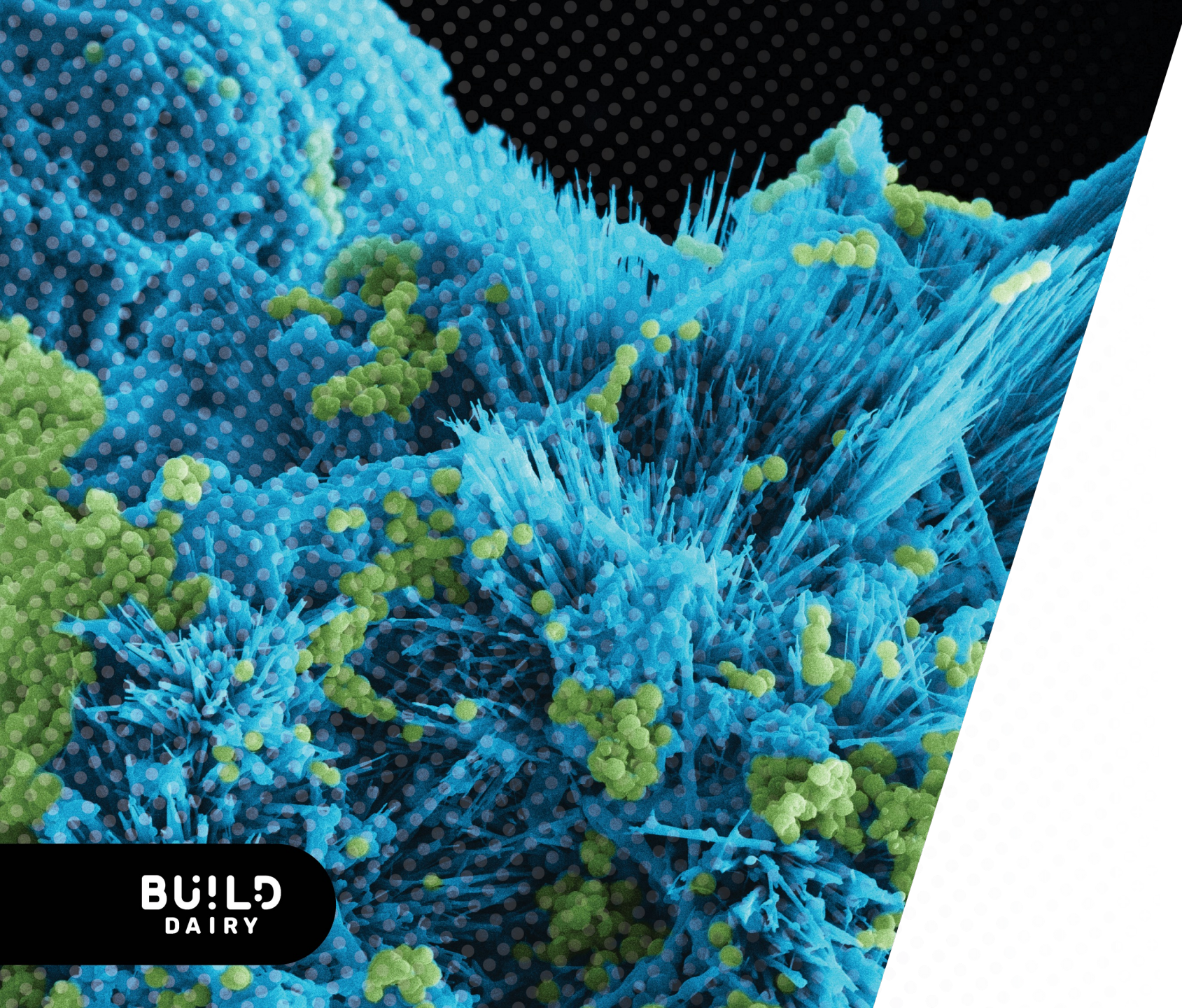
BUILD upon university funding to recruit and train students from the Western states in dairy food technology and innovation.

BUILD leadership qualities in students.

BUILD awareness, linkages and communication between professors, students and dairy food companies.

Goals of BUILD Program

- 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
- Revitalize the Western Dairy Center
- Develop technologies for our future



BUILD Progress

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BUILD

2014 – 7 new projects, 7 new students – total program = 7 students

2015 – 8 new projects, 8 new students – total program = 15 students

2016 – 8 new projects, 8 new students – total program = 19 students, 4 graduates

2017 – 19 new projects, 19 new students - total program = 29 students, 10 graduates

2018 – 18 new projects, 18 new students – total program = 41 students, 21 graduates

2019 – 19 new projects, 19 new students – total program = 51 students, 32 graduates

2020 – 19 new projects, 19 new students – total program = 49 students, 45 graduates

2021 – 24 new projects, 24 new students – total program = 46 students, 58 graduates

2022 – 28 new projects, 29 new students – total program = 55 students, 68 graduates

2020 check-off funds \$2.1 M for BUILD Dairy. Co-funding of \$841K bringing total to \$2.941 M.

2021 check-off funds \$2.2 M for BUILD Dairy. Co-funding of \$1.49 M bringing total to \$3.7 M.

2022 check-off funds \$2.7 M for BUILD Dairy. Co-funding of \$1.25 M bringing total to \$3.95 M.

Projects running at USU, U of U, BYU, U of I, BSU, WSU, OSU, NCSU and KSU.

Progress

2022 Co-funding, \$1.25 M from

- Glanbia Nutritionals
- Tillamook
- Lactalis
- Jerome Cheese/Agropur
- Chobani
- Darigold
- High Desert Milk
- Idaho Milk Products
- Rogue Creamery
- Hilmar Cheese
- Hyacinth Proteins
- Daisy Brand
- Oregon Dairy and Nutrition Council
- Dairy Farmers of Washington
- California Milk Advisory Board
- DMI/NDC
- Utah State University
- Brigham Young University
- Washington State University
- Boise State University
- University of Idaho
- Clemson University
- NC State University/Dairy Alliance
- USDA/ARS

BUILD Process

- **Identify and prioritize research needs – industry driven**
- **Identify students, find co-funding and propose projects – University driven**
- **Connect BUILD students to industry early & often**
- **Research uptake by industry**
- **Student employment in industry**

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 Alumni Current

- Jimmy Zhong (USU) – Hilmar
- Ying Lu (USU) – SAHM
- Nicola Beatty (USU) -
- 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
- Katherine Speight Rhodes (NCSU) – Takasago Flavors
- Hannah Damiano Fosberg (UI) – Commercial Creamery
- 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
- David Doxey (BYU) – Built Brands
- Rachel Yates (Del Toro-Gipson) (NCSU) – Kellogs
- Courtney Schlossareck (WSU) – General Mills
- Muriel Allen (BYU) – Ecocert, USA
- Kate Kalbas (OSU) – Noosa Yogurt
- Casey Rush (OSU) – Kerr Concentrates
- Daria Van De Grift (OSU) - Document Compliance Network
- Dariann Gallegos (Penn S.) – Rogue Creamery
- Jeff Dayley (WSU) – John I Haas
- Wyatt Olson (OSU) – Glanbia Nutritionals
- Eliza Brock (BYU) – Seeking employment
- Heather Keefer (NCSU) – Blue California
- Stephanie Kung(USU) – Unicity International
- Glenn Grout (UI) – Advanced Food Products, LLC
- Jared Johnson (OSU) – Post-doc @ Michigan HHS
- Clara Racette (NCSU) – Plantible Foods
- Jeffrey Rime (BYU) – Factory6
- Jeremy Pack (BYU) – Hyacinth Proteins
- Alejandro Torres Beauchamp (OSU) – Agropur
- Rhees Crompton (USU) – Innovative Labs
- Brantzen Wood (USU) – Glanbia Nutritionals
- Tyson Hardy (BSU) – Agropur
- Kate Gentry (BYU) – SAHM
- Brandon Carter (NCSU) – High Desert Milk
- Carson Davis (OSU) – 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) – Unicity International
- Vanessa Campfield (BSU) – Micron Technologies
- Marshall Dunn (NCSU) – California Dairies, Inc.
- Sara Maruyama (OSU) – Tillamook
- Zachary Cooper (USU) – Pepperidge Farms
- Minghao Lee (USU) – USU COVID testing Director
- Daniel Whit (NCSU) – Glanbia Nutritionals
- Ireland Green (USU) – Better Body Foods
- Brandon Selover (OSU) – Xibus Systems
- Brynli Tattersal (USU) – Plant Science
- Kristin Sparkman (UI) – Culinex, LLC
- Kaitlyn Kornberg (OSU) – Food & Drug Administration
- Fariba Zad Bagher (UI) - Kuleana
- Immanuel Rodriguez (OSU) – Rogue Creamery
- Sophie Overbeek (USU) – Capstone Nutrition
- Abrar Sindhi (UI) – Certified Laboratories
- Ben Woodward (BYU) – Sensapure
- Keely Hayes (OSU) – Darigold
- Quentin Ferraris (OSU) – Biogen Lab Developments
- Jeremy Arbon (BYU) – Tillamook
- Rose Saxton (BSU) – BSU Chemistry Lab Manager
- Ivan Pettit (UI) – Group 14 Technologies
- Bryna Rackerby (OSU) - ?
- Zac Cooper (USU) – Pepperidge Farms
- Alex Hernandez (NCSU) – Upstate Niagara
- Hayden Hoyt (NCSU) – Milk Specialties Global
- Jason Young (USU) – Glanbia Nutritionals
- Annalisa Jones Broadhead (USU) – USU Creamery Manager
- Gloria Angima (OSU) – EMPWR Nutrition Group
- Kristin Jensen (OSU) – Hill’s Pet Nutrition

BUILD Work Pillars



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



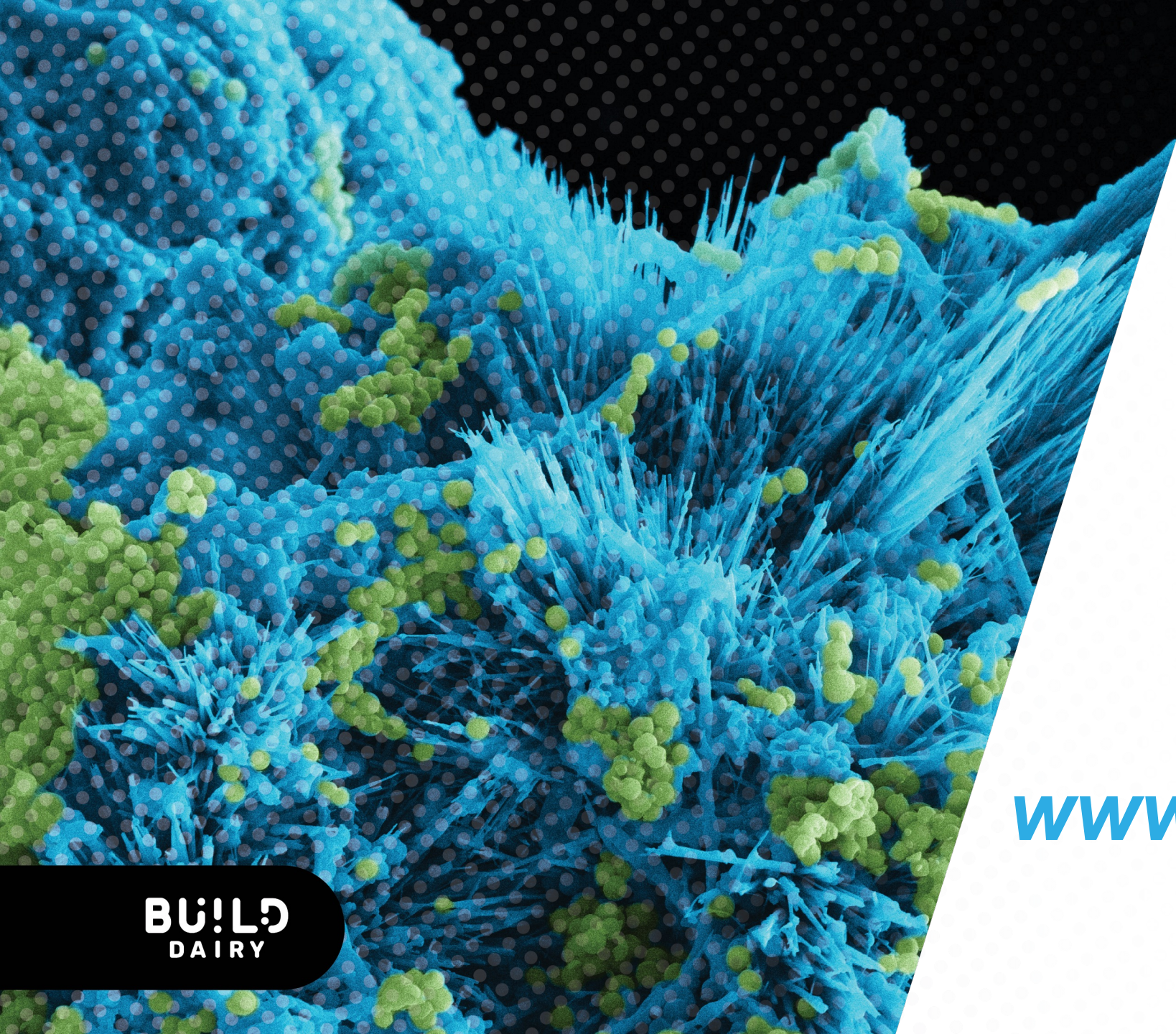
Human nutrition, cell culture, animal models & human randomized trials.



Sustainability – Projects focus on manure handling, farm management and vermiculture.



Packaging – working with Clemson University Center for Packaging on milk and cheese packaging developments.



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