

5th Annual Research Spotlight Meeting

May 22nd – 23rd, 2024
Coffman Memorial Union
300 Washington Ave SE, Minneapolis 55455
Great Hall



Plant Protein Innovation Center

FOOD SCIENCE
AND NUTRITION

CFANS
COLLEGE OF FOOD, AGRICULTURAL,
AND NATURAL RESOURCE SCIENCES

U
UNIVERSITY
OF MINNESOTA

Wednesday, May 22nd, 2024

8:00 – 9:00 am

Breakfast & Registration

Welcome and Opening Remarks

9:00 – 9:10

Brian Buhr, Dean of the College of Food, Agriculture, and Natural Resource Sciences, University of Minnesota

9:10 – 9:45

Introduction to the PPIC: Mission, Model, Goals

Pam Ismail, Professor and PPIC Director and Founder, University of Minnesota

9:50 – 10:15

**Keynote Speaker: Challenges and Opportunities for
Plant Proteins from Agri-food Side Streams**

Stephan Drusch, Professor, Technische Universität Berlin

10:15 – 10:50

POSTER SESSION / COMPANY BOOTHS / NETWORKING SESSION I

10:55 – 11:20

A Novel Approach to Plant Protein Processing by High Pressure Structuring

Carmen I. Moraru, Professor and Chair, Cornell University

11:25 – 11:50

Extrusion Processing of Plant Proteins: Chemistry and Engineering Aspects

Girish M Ganjyal, Professor, Washington State University

11:55 – 12:20 pm

**Tasty but Slippery: Liquid Oil Feeds and their Impact
on High-Moisture Extrusion Processing**

Lutz Grossmann, Assistant Professor, University of Massachusetts Amherst

12:20 – 1:20

LUNCH & NETWORKING SESSION II

1:25 – 1:50

Plant Proteins are a Foe or a Friend? Extraction and Modification Remedies

Pam Ismail, Professor and PPIC Director and Founder, University of Minnesota

1:55 – 2:20

Use of Tunable Green Solvents for Chickpea Protein and Oil Co-extraction

Fernanda F. G. Dias, Assistant Professor, University of Minnesota

2:25 – 2:50

**Fine-Tuning Sustainable Extraction Processes for
Enhanced Protein Functionality and Process Feasibility**

Juliana de Moura-Bell, Associate Professor, University of California Davis

2:50 – 3:25

POSTER SESSION / COMPANY BOOTHS / NETWORKING SESSION III

3:30 – 3:55

Beyond the Pod: Breeding for Protein Quality in Minnesota Peas

Steve Mulkey, Researcher Scientist, University of Minnesota

4:00 – 4:25

AI-Empowered Discovery of Bioactive Peptides from Food Proteins

Yonghui Li, Associate Professor, Kansas State University

4:30 – 4:55

**Influence of Animal and Plant Protein Isolates on the
Human Gut Microbiota Under High and Low Carbohydrate Conditions**

Devin Rose, Professor, University of Nebraska-Lincoln

6:00 pm

Networking Dinner (Optional)

Courtyard Marriott Minneapolis
1500 Washington Ave S, Minneapolis, MN 55454

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Thursday, May 23rd, 2024

8:00 – 9:00 am

Breakfast

9:00 – 9:25

***Electrostatically Enriched Plant Proteins and
their Application in 3D Food Printing***
Solmaz Tabatabaei, Associate Professor, Howard University

9:30 – 9:55

Towards Scalable Processes for Culturing Meat
Amy Rowat, Professor, UCLA

10:00 – 10:25

Sustainable Materials for Cellular Agriculture
Reza Ovissipour, Assistant Professor, Texas A&M University

10:25 – 11:00

POSTER SESSION / COMPANY BOOTHS / NETWORKING SESSION IV

11:05 – 12:20 pm

Panel Discussion
Denis Chéreau, General Manager & Founder, IMPROVE SAS
Jen Kimmel, Head of R&D Americas, Roquette America, Inc.
Nathan Knutson, Enrichment CoE Lead for NA, Cargill
Mindi McKibbin, Director R&D Innovation, PureField Ingredients
Julie Simonson, VP R&D Product Innovation, Schwan's Company

12:20-12:30

Closing Remarks
Pam Ismail, Professor and PPIC Director and Founder, University of Minnesota

12:30

Boxed Lunch

