

# ANIMAL MICROBIOME & NUTRITIONAL HEALTH CONGRESS USA

March 3-4, 2020 • Chicago





Ehsan Khafipour
Director, Microbiome Research
and Technical Support
Cargill





Dari Brown
Senior Director, Livestock
Technical Innovation
Purina Animal Nutrition LLC A division of Land O'Lakes, Inc.

LAND O'LAKES, INC.



Ronald Tessman
Manager, Clinical Efficacy
Bayer Animal Health





Brandon Reinbold
Principal Research Scientist,
Food Animal Research
Elanco Animal Health





Kevin Kessler Senior Veterinarian Tyson Foods





Anita Menconi
Technical Services Manager,
Gut Health Solutions
Evonik
EVONIK

Harnessing the microbiome to control infection, manage inflammation, and aid digestion to improve animal health



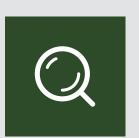
The number one partnering event for nutritional health: Showcasing the acceleration of nutritional health innovation to foster new strategic partnerships



Crossing the finish line: Learn how to overcome major hurdles in regulatory approval and patent authorization and become the first to achieve live biotherapeutics



Feed-induced animal health:
Understand the latest efficacy data
in the replacement of antibiotics with
nutritional strategies



Accelerating market growth: Hear why nutritional health is beginning to play a significant role within marketplace and how large strategics are navigating this new and emerging field



**Probiotic Development:** Demonstrate approval-level safety and efficacy by hearing product development case studies, guiding your internal R&D strategies to increase your product portfolio



Microbiome Modulation: Learn how targeted phage approaches are being used to improve animal health by modulating the gut microbiome

Associate Partner:



Event Partners



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PRICING &

# WELCOME

Case studies from human medicine are receiving widespread attention due to techniques to study the microbial world decreasing in cost and increasing in accessibility, this has led to interest in animal nutritional health solutions and gut microbiomes as a therapeutic becoming a hot topic.

With this rising interest and building on the huge success of our European Animal Microbiome Congress in London this past July, we are incredibly excited for the Animal Microbiome & Nutritional Health Congress to be returning to the USA in March 2020, this time in Chicago, Illinois.

This year, we're focusing on the current state of techniques and strategies that are being used to modify the microbiome to improve animal health, along with case studies of market-available products in domestic pets and farm animals. We'll also be taking a deep dive into the new and emerging trends and dynamics of the animal nutrition market and regulatory approval hurdles, as we get closer to knowing where we stand with the integration of microbiome-based products into mainstream food production and veterinary practice.

Join (stakeholders) to untangle the biology of microbiome-directed therapies in animals, uncovering examples in the application of probiotics, prebiotics, and other microbiome-directed therapies, as well as feed additives that are being used to benefit animal health.

#### New for 2020:

For the first time we're excited to launch an innovation showcase, where 8 emerging companies and start-ups who have nutritional and microbiome solutions present and pitch their latest research and innovation for both companion and production animals.

Think your company has what it takes? Submit your application now to be in with a chance to present your company's innovation to our audience.

**APPLY HERE** 





HUVEPHARMA:

(S) Philea

**UNITED** 



# SPEAKERS



Devan Compart
Ruminant Feed Additive
Specialist
Land O'Lakes, Inc.



Greg Sunvold
Principal
Sunvold Technology LLC



Jane Leedle
President
JL Microbiology, Inc.



Rod Macki Professor of Microbiology University of Illinois



Sherry Layton
CSO
BV Science



Ehsan Khafipour
Director, Microbiome Research
and Technical Support
Cargill



Hannah Cunningham
Assistant Professor,
Animal Genetics
University of Wyoming





Rachelle J. S. Galvin, PhD
Chief Operating Officer
Resilient Blotics



Aashish Jha
Head of Bioinformatics
Nom Nom Now



Monika Weglarz Research Molecular Biologist USDA-ARS



Jonathon Roepke
Lead Product Development
Research Scientist
Microsintesis



Lisanne Verschuren Geneticist Topigs



Brandon Reinbold
Principal Research Scientist,
Food Animal Research
Elanco Animal Health



Ronald Tessman
Manager, Clinical Efficacy
Bayer Animal Health



Ava Firth
Director of R&D
Tonisity



Massimo Marzorati
CEO
ProDigest



David Boyko
Global Business Development
Merck Animal Health



Holly Ganz CEO Animal Biome



Bruce Johnson
Corporate Vice President,
Business Development
Phibro Animal Health



Kevin Kessler
Senior Veterinarian
Tyson Foods



Anthony Sabatelli
Patent Counsel
Wiggin & Dana LLP





Dari Brown Senior Director, Livestock Technical Innovation **Purina Animal Nutrition,** LLC - Land O'Lakes, Inc.



**Niel Baxter** Research Scientist, Nutritional Health **Elanco Animal Health** 



Anita Menconi Technical Services Manager, Gut Health Solutions **Evonik** 



**Andrew Skidmore** Technical Services Manager **Lallemand Animal Nutrition** 



Leluo Guan Professor, Agricultural Food and Nutritional Science **University of Alberta** 

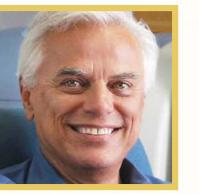




**Scott Carter** Chief Scientific Officer **ANIZOME LLC** 



Ignacio Ipharraguerre Senior Scientist **Institute of Human Nutrition** and Food Science, Christian-**Albrechts-University** 



Vincent A. Fischetti, Ph.D. Professor and Head Laboratory of Bacterial Pathogenesis and Immunology **Rockefeller University** 



**Thomas Bissot** Global Key Account Manager, Pet Food **Leiber GmbH** 



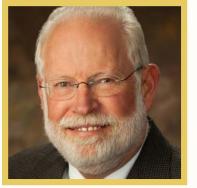
Ravi Starzl CEO BioPlx Inc.



John Parkinson Professor **University of Toronto** 



Mike Kogut Ph.D. Research Microbiologist **USDA-ARS** 



**Jack Garrett** Director of Research and Technical Support, Animal Nutrition QualiTech, Inc



Dr. Stefan Gabriel Buzoianu PhD, Dr. Vet. Med R&D Project Manager **Tonisity** 



The team at Kisaco Research are great at pulling together the right people. This was a fantastic opportunity to gather knowledge, discovery the latest innovations and network with industry stakeholders all excited by this emerging sector"

LAWRENCE BROWN, DEPARTMENT OF INTERNATIONAL TRADE, GOVERNMENT OF THE **UNITED KINGDOM** 



# MAPPING OUT ANIMAL NUTRITIONAL HEALTH

To develop nutritional strategies in replacing antibiotics to control disease & infection

#### FUTURE OPPORTUNITIES





David Boyko Global Business Development **Merck Animal** Health





Anita Menconi Technical Services Manager, Gut Health Solutions Evonik







Learn what new strategies emerging companies are employing to benefit the lives of our companion animals through postbiotic development and microbiome changes in response to diet.



**Aashish Jha** Head of **Bioinformatics NomNomNow** NOM NOW



Jonathan Roepke Lead Product Development Research Scientist **Microsintesis** 





## **ONUTRITIONAL HEALTH**

Hear nutritional health explained through a new lens from Cargill's Director of Microbiome Research, Ehsan Khafipour, using nutritional strategies to combat pathogenic infection in place of antibiotic use.



**Ehsan Khafipour** Director, Microbiome Research & Technical Support, Cargill



## PROBIOTIC DEVELOPMENT

Understand the developments industry are making to improve animal health through probiotic manufacture and implementation from Lallemand Animal Nutrition and Elanco.



**Andrew Skidmore Technical Services** Manager Lallemand **Animal Nutrition** 



**Niel Baxter** Research Scientist, Nutritional Health Elanco



#### MAINSTREAM FOOD PRODUCTION

Understand the current state of microbiome-based product integration into mainstream food production and veterinary practices from Tyson Foods' Kevin Kessler and Land O'Lakes' Dari Brown, and develop insight into the potentially of maintaining profitability with a new production system.



Dari Brown Senior Director. Livestock Technica Innovation **Purina Animal** Nutrition, a division of Land O'Lakes, Inc.

LAND O'LAKES, INC.



**Kevin Kessler** Senior Veterinarian **Tyson Foods** 





Animal Health

**Animal Nutrition** 

Probiotic Manufacturer

Pet Food Manufacturers

Strain Manufacturer

**Animal Production** 

Phage Biotechs

**Feed Additives Suppliers** 

Investors

Law Firms

Consultants

Academics

**Emerging Companies** 

**Animal Breeders** 

Food Manufacturers

Government Researchers

#### **Job Function**

**Head of/VP/Director of:** 

R&D\*

Technical Services\*

Clinical Development\*

Food Animal Research\*

Business Development\*

Technical Support\*

Strategy\*

Agribusiness\*

Scientist\*

Nutritional Health\*

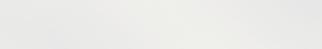
Formulation\*

Quality Control\*

Partner/Managing Partner\*

President\*

Founder/Co-founder\* CEO/CSO/CMO/COO



\*Including but not limited to











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#### 08:50

#### **Chairperson's Opening Remarks**

#### 09:00

#### The interaction between the Gut Microbiota and Intestinal Immunity: Emerging Function in Regulating Tissue Physiology

Recent studies indicate that in addition to classical immune functions, cells of the innate and adaptive immune system also sense complex tissue- and environmentderived signals, including those from the brain, liver, lung, and skeletal muscle, that, in turn, regulate physiologic processes in multiple tissues throughout the body. How the animal immune system senses and interacts with other with these other complex organ physiological systems to maintain tissue and whole body homeostasis should be the focus of future host-microbiome studies. By understanding these inter-organ physiological sensing systems and pathways, it reasonable to predict that more holistic approaches; for example dietary interventions, to regulate homeostatic conditions against infectious and noninfectious insults in production animals can be achieved.

Mike Kogut Ph.D., Research Microbiologist, USDA-ARS

#### 09:25

#### Increasing feed efficiency globally with probiotics, prebiotics, and phytobiotics

- In a market demanding for higher standardards of food quality and environmentresponsible systems, key tools for antibiotic-free production strategies are necessary
- In-depth look into large scale field trials spanning countries across Europe, North America, and Latin America to show the benefits of additives

Sherry Layton, Ph.D., Chief Scientific Officer, Vetanco

#### 09:50

#### What can we do to better leverage the microbiome in enhancing pet health?

- This presentation will discuss microbiome-related product opportunities to better serve pets' needs
- To enable greater incorporation of microbiome tools into pet products, the needs of pet food manufacturers will also be discussed

Greg Sunvold, Ph.D., Principal, Sunvold Technology, LLC.

#### 10:15

#### Evaluation of the prebiotic effect of a brewers' yeast cell wall product using the Simulator of the Canine Intestinal Microbial Ecosystem (SCIME®)

- Proof of prebiotic effect in the canine gastrointestinal tract
- Increase in both propionate and butyrate production in response to Biolex® MB40 dosing
- Biolex® MB40 positively affected the gut microbial activity and composition in the SCIME

Thomas Bissot, DVM, Global Key Account Manager, Pet Food, Leiber GmbH Massimo Marzorati, Ph.D, Chief Executive Officer, ProDigest

#### 10:45

#### **Networking Break**









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#### 11:15

#### Using the microbiome to build better feed additives

- How feed additives can be used in their most effective way, including prebiotics and probiotics
- Insight into work at Land O'Lakes in how microbiome research can support the use of feed additives and probiotics in the field

Devan Paulus Compart, Ph.D., Ruminant Feed Additive Specialist, Land O'Lakes, Inc.

#### 11:40

#### **Early Life Intervention Strategies In Microbiome Establishment In Piglets**

- When administered to piglets between days 2 and 8 of life and peri-weaning, Tonisity Px has been shown to stimulate beneficial bacteria while reducing potential pathogens
- Tonisity Px administration in early-life also modulates intestinal development by increasing villus height
- From a production perspective, Tonisity Px reduced pre-weaning mortality and improved post-weaning growth performance

Ava Firth, Ph.D., R&D Director, Tonisity

Dr. Stefan Gabriel Buzoianu, PhD, Dr. Vet. Med, R&D Project Manager, Tonisity

#### 12:05

#### Opportunities for Postbiotic metabolites as antibiotic alternatives in companion animals

- Specific postbiotic metabolites can manage acute and chronic diarrhoea in dogs.
- The combination of live cells and postbiotic metabolites can be used as a microbiome therapy in companion animals

Jonathan Roepke, Ph.D., Lead Product Development Research Scientist, Microsintesis

#### 12:30

#### How nutritional health will shape the future of animal health

- What are the emerging trends and dynamics of the animal nutrition market?
- What are the needs of the industry and what challenges to overcome?
- Where can Animal Health source nutritional innovation, and how important will nutrition be in the future of the animal health industry?

David Boyko, Global Business Development, Merck Animal Health

Anita Menconi, DVM, Technical Services Manager, Gut Health Solutions, Evonik

Bruce Johnson, Ph.D., Corporate Vice President, Business Development, Phibro **Animal Health** 

Moderated by Scott Carter, Chief Scientific Officer, ANIZOME LLC

#### 13:10

#### **Networking Lunch**

#### 14:10

#### Review of the effects of a first generation probiotic on calves and beef under North America production systems

Andrew L Skidmore, DVM, Ph.D., Technical Services Manager, Lallemand Animal **Nutrition** 









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3 MARCH DAY ONE TUE

#### 14:40

#### The Animal Microbiome and Nutritional Health Innovation Showcase

Emerging companies present and showcase the innovation and opportunity they bring to the market for both livestock and companion animals





#### 15:20

#### Understanding rumen development in neonatal ruminants through microbial metagenomes and host transcriptomes

- Early rumen development is vital for efficient fermentation
- Investigation of the extent and functional basis of host-microbial interactions regulating rumen development during the first 6 weeks of life

Leluo Guan, Ph.D., Professor of Agricultural Food and Nutritional Science, **University of Alberta** 

#### 15:45

#### Phage lysins: the first effective antibiotic alternative

 A phage lytic enzyme to treat MRSA bacteremia has successfully completed phase 2 human trials and was permitted to enter phase 3 by the FDA. This is the first antibiotic alternative to achieve this milestone

- Lysins have been developed against MDR ESKAPE pathogens and other major gram-positive and gram-negative disease bacteria. Lysins have been applied in a variety of animal models to prove that their use and efficacy is similar to that of antibiotics
- During the 20 years of lysin development, resistance has not been observed, despite repeated attempts to select for such mutants

Vincent A. Fischetti, Ph.D, Professor and Head Laboratory of Bacterial Pathogenesis and Immunology, Rockefeller University

#### 16:15

#### We could have biotherapeutics today. Why don't we?

- A thought-provoking insight addressing the notion that we cannot reproducibly manufacture a microbiome mixture, covering patent issues, small ROI's, regulatory approval hurdles and expenses
- Why we should invest in the microbiome and probiotic development and where the money is to be made
- Using documented examples, the technical scale manufacture, novelty, and ROI of microbial combinations will be addressed, along with regulatory strategies needed to bring biotherapeutic microbiome products to the market

Jane A.Z. Leedle, Ph.D., President, JL Microbiology, Inc.

#### 16:40

#### Tackling bovine mastitis: competitive exclusion

Ravi Starzl, Co-founder and CEO, BioPlx

#### 17:10

#### **Poster Session & Networking Drinks**









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#### 08:50

#### **Chairperson's Opening Remarks**

#### 09:00

#### How to view nutritional health through a different lens: The gut-mammary axis in dairy cows

- Understanding mastitis and udder health from a pathogen perspective to better understand the dairy cow microbiome
- A shift in thinking from pathogen to pathobiome to allow alternative views on udder health, incorporating nutritional strategies to improve the mammary microbiome and immune function over elimination via antibiotics

Ehsan Khafipour, Ph.D., Director, Microbiome Research & Technical Support, Cargill

#### 09:25

#### Improving broiler performance by limiting intestinal pathogenic microbial growth through iron availability

- Improving broiler performance can be accomplished by dietary formulations that limit the bioavailability of iron to pathogens while optimizing its delivery to the bird
- Birds exposed to pathogens associated with necrotic enteritis can perform similarly to control birds by limiting pathogens growth rate.
- Subclinical exposure to necrotic enteritis pathogens can reduce optimal broiler performance.

Jack Garret, Director of Technical Service and Research, Animal Nutrition, QualiTech, Inc.

#### 09:55

#### Identification and development of microbiome-derived live biotherapeutics for animal health

- Understanding the role commensal microbes play in host health to identify potential new live biotherapeutics
- Developing insight into how microbiome alternatives can replace antibiotics to improve animal health
- Pushing microbiome-derived live biotherapeutics through the pipeline: future outlook

Rachelle J. S. Galvin, PhD, Chief Operating Officer, Resilient Blotics

#### 10:20

#### Developing microbial communities to promote gut health

A key challenge in maintaining gut health is identifying products that help establish complex, yet stable, communities of beneficial microbes. With a need to engraft and persist in the gut, allied to the success of fecal microbiome transplants, attention has shifted from the use of single strain probiotics, to synthetic microbial communities. The question is how best to develop such communities. Integrating next generation sequencing technologies with computational modeling, our lab is investigating the molecular interactions that help sustain healthy microbial communities. These studies allow us to identify cliques of microbes that may be prioritized for designing novel "community probiotics" that promote gut health.

John Parkinson, Professor, University of Toronto

#### 10:45

#### Manipulating microbial metabolism in the gut: an ecological perspective

- Ecological principles for rational design of microbiome-based therapies
- Prebiotic interventions to alter microbial metabolism
- Alternative methods for modulating the gut microbiota

Niel Baxter, Research Scientist, Nutritional Health, Elanco Animal Health









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#### 11:10

#### **Networking Break**

#### 11:40

#### Bioenergetic targets for controlling growth of rumen bacteria: insights into the molecular mode of action of ionophores

- Ionophores improve fermentation characteristics in the rumen, leading to improved production efficiency
- Insight into the molecular mode of action of ionophores and bioenergetic targets for controlling the growth of rumen bacteria

Rod Mackie, Ph.D., Professor of Microbiology, University of Illinois

#### 12:05

#### The benefits of fecal microbiome transplantation in pets

- Development of gut health restoration supplements and microbiome restorations systems to improve overall pet health
- Identification of optimal digestive health make-up to develop strategies to help restore companion animal digestive systems

Holly Ganz, Ph.D., Chief Executive Officer, Animal Biome

12:30

#### Development of broiler microbiomes form hatching to adulthood to identify potential intervention strategies

- Using prebiotics and probiotics to assess the development of the gut barrier and the microbiome to understand microflora establishment
- How can the addition of feed additives early in life affect the development of the microbiome and how does this link with immunity?

Monika Weglarz, Ph.D., Research Microbiologist, USDA-ARS

#### 12:55

#### Developing insights on health, disease and products from companion animal microbiomes using shotgun metagenomics and direct to consumer tests

- Various barriers exist in the pet microbiome field, and as a consequence, results are often inconsistent and contradictory across studies and therefore not readily applicable to companion animals in the general population
- A direct to consumer approach addresses many limitations and allows reciprocation of known/suspected trends (e.g. breed, geography) and novel factor identification (e.g. dog size) associated with pet microbiome

Aashish Jha, Head of Bioinformatics, NomNomNow















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#### 13:20

#### **Networking Lunch**

#### 14:20

#### Early-life interventions strategies in the rumen microbiome

- How does establishment of the rumen microbiome occur?
- Evaluation of different maternal microbiomes to find management strategies and nutritional supplementation in gestating cows to develop early-life intervention strategies

Hannah Cunningham-Collinger, Ph.D., Assistant Professor, Animal Genetics, **University of Wyoming** 

#### 14:45

#### Potential role of the microbiome in a modern pig breeding program to increase animal production

- Variation in feed efficiency related traits is associated with variation in the fecal microbiome
- The fecal microbiome is an indicator of environmental and genetic differences between pigs
- Consequently, can we use the fecal microbiome to improve current selection?

Lisanne Verschuren, Ph.D., Microbiome Researcher, Topigs Norsvin

#### 15:10

#### **Networking Break**

#### 15:40

#### Patenting the microbiome: challenges & opportunities

- Research activity has been increasing in the microbiome area with more inventions arising out of work
- Due to the substantial investments of money and time needed to bring a microbiome-based product to market, it is important to seek patent protection for these products
- Challenging legal framework for patenting microbiome-based inventions requires strategic and creative thinking to create a strong patent portfolio
- This presentation will provide history on how and why the current legal challenges have arisen, where the legal landscape is evolving, and strategy tips for protecting your microbiome-based inventions

Anthony Sabatelli, Ph.D., Patent Counsel, Wiggin & Dana LLP









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#### 16:05

#### Where do we stand with microbiome-based products becoming integrated into mainstream food production and veterinary practice?

- What are the current challenges in bringing these kinds of products to market?
- What key actions are needed to make microbiome-based products the norm among animal producers, pet owners, and veterinarians?
- What efforts can be made to effectively communicate the benefits of these products in order to increase acceptance and incorporation within the animal health sector?
- Can we incorporate these kinds of products and still maintain profitability within both the food production and pet care systems?
- Are we close to achieving mainstream incorporation or is it still a pipe dream?

An excellent overview on trends, expectations, and the status of product development in microbiome technologies"

- SILKE POTARD, WANADOO





Dari Brown, Ph.D., Senior Director, Livestock Technical Innovation, Purina Animal Nutrition LLC - A division of Land O'Lakes, Inc.

Brandon Reinbold, Ph.D., Principal Research Scientist, Food Animal Research, R&D, **Elanco Animal Health** 

Ronald Tessman, DVM, Ph.D., Manager, Clinical Efficacy, Bayer Animal Health

Kevin Kessler, DVM, Senior Veterinarian, Tyson Foods

Ehsan Khafipour, Ph.D., Director, Microbiome Research & Technical Support, Cargill

#### 16:40

#### Close of day 2



Ground-breaking innovations were shared that will truly make a huge difference in the fight against AMR"

- RIAAN DU PREEZ, AFRIVET



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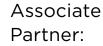
#### **DELEGATE BREAKDOWN**

- Nutrition Companies 4
- Probiotic Manufacturers
- Feed Additive Producers
- Animal Producers

- Veterinarians
- Academics
- Emerging Companies
- Strain Manufacturers

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Interesting and enjoyable event, highlighting new research trends in the field of animal microbiomes, health and performance. The event also offered many opportunities for discussions and networking"

- KLAUDYNA BOREWICZ, TROUW NUTRITION





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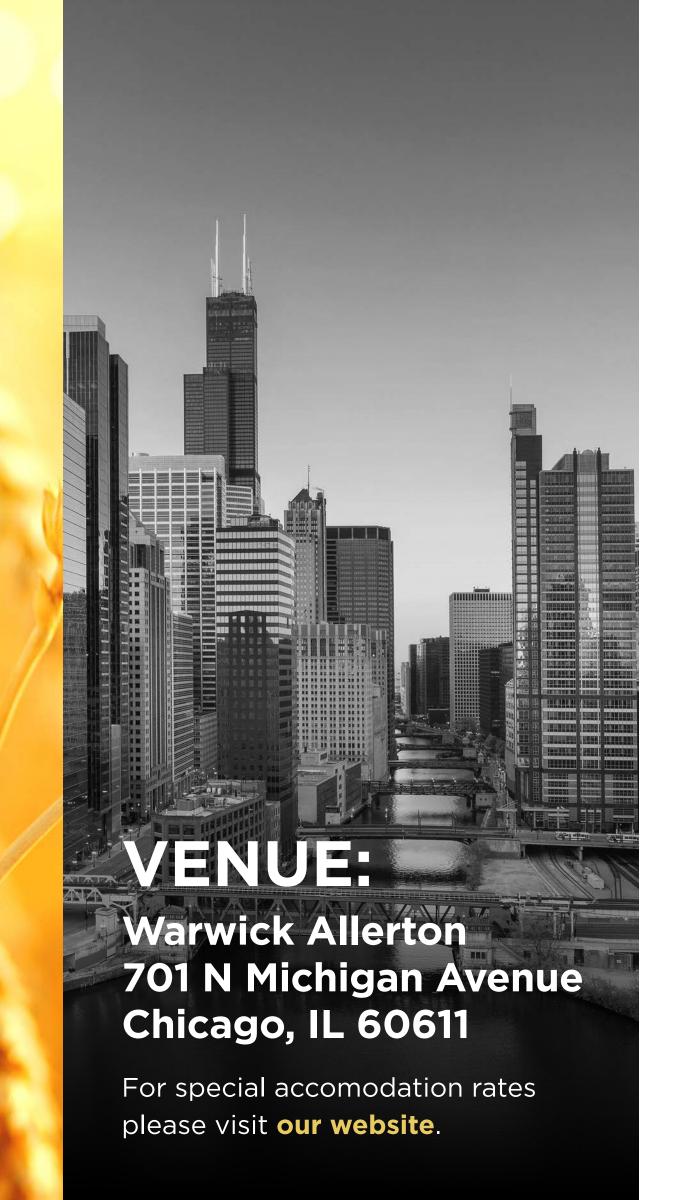
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# VENUE & PRICING

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Industry	\$1,499	\$1,799
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