ADSA 2020
Virtual Annual Meeting

ADSA Awards Program
Monday, June 22
As the overall awards committee chair and on behalf of the ADSA Board of Directors, I would like to welcome you to the 2020 ADSA awards program. Please join me in congratulating the 2020 winners and thanking our sponsors for their continued support and partnership.

Miriam Snyder, Graduate Student Division secretary, and Heather Keefer-McCain, Graduate Student Division vice president, will alternate reading each winner’s biography. I’d like to thank them both for their assistance with this.

So please sit back, relax, and join me in honoring the 2020 ADSA award winners.

Geoff Dahl
ADSA Past President
Matthew Lucy is the recipient of the 2020 ADSA Award of Honor. Lucy is a professor of animal science at the University of Missouri. He has served ADSA through his work with the *Journal of Dairy Science*. He served on the editorial board from 1997 to 2002 and on the journal management committee from 2001 to 2003. He was a section editor for Physiology from 2006 to 2012. In 2014, Lucy became the editor-in-chief, completing his term in 2019. During his tenure, Lucy maintained the historical excellence of the journal through a series of new initiatives that were implemented through the coordinated efforts of Lucy, the FASS staff, and Elsevier.
Catherine Stanton is the recipient of the 2020 ADSA Distinguished Service Award. Stanton has been senior scientist at Teagasc, Moorepark Food Research Center, Ireland, for the past 25 years and is a research professor at APC Microbiome Ireland, University College Cork. She received master of science degree in nutrition, a PhD in biochemistry, and, in 2009, a doctor of science degree in recognition of published work. Her career focuses on development of innovative dairy foods that influence human health and the developing gut microbiota in early life. She was ranked in the top 1% by citations in the field of agricultural science, according to Clarivate Analytics in 2017, 2018, and 2019. She is a member of The Royal Irish Academy and previously received the Elie Metchnikoff Award from the International Dairy Federation.
Kathryn Boor has been elected a Fellow of the American Dairy Science Association. Boor’s unparalleled commitment to the dairy industry is evident by her world-renowned impact. Her scholarship has led to improved tools for detecting and monitoring microbes that cause illness and spoilage and she has forged new insights into the underlying cellular mechanisms that contribute to dairy pathogen survival and virulence. Her translation of research into practice ensures direct dairy industry impact. As a mentor and administrator at Cornell University and member of scientific boards, she has been instrumental in shaping dairy and agricultural science education. She serves as a determined advocate for science-based dairy practices and policies.
Jeffrey Firkins has been elected a Fellow of the American Dairy Science Association. Firkins earned his PhD at the University of Illinois and started at Ohio State University in 1987, being promoted to professor in 2000. He teaches and conducts research interfacing nutrition and rumen function and has published more than 140 refereed articles and book chapters, averaging more than 25 citations each, with 84 in the *Journal of Dairy Science*. He has advised 25 graduate students and has served on and managed competitive grant panels and planning committees for numerous international conferences. He is a senior editor for the *Journal of Dairy Science* and a committee member of NASEM’s *Nutrient Requirements of Dairy Cattle*.
Karen Plaut has been elected a Fellow of the American Dairy Science Association. Plaut’s research work has focused on understanding the basic biology of the mammary gland. Her efforts have led to a more complete understanding of control of mammary growth and metabolism in dairy cattle and to important contributions in understanding mammary cancer biology. Plaut has been active in ADSA for her entire career, serving in many roles from judging scrapbooks for the Student Affiliate Division and selecting award winners to chairing and developing symposia and as a member of the board of directors and chair of the science policy committee.
Charles Schwab has been elected a Fellow of the American Dairy Science Association. Schwab, professor emeritus at the University of New Hampshire and principal of Schwab Consulting in Wisconsin, has selflessly served the dairy industry for 45 years as an educator and researcher. His true passions include creating new opportunities and programs for dairy students, researching amino acid nutrition in dairy cattle, and educating students, nutritionists, and producers worldwide on advances in amino acid nutrition and its implications for dairy cattle performance. He has given more than 375 presentations in 26 countries during his career. As a member of the Dairy NRC (2001) Committee, he led the development of the protein and amino acid submodel.
To celebrate publication of the 100th volume of the *Journal of Dairy Science®* (JDS) in 2017, an award was developed to recognize individuals who have authored or co-authored 100 or more papers in the journal: JDS Club 100.

ADSA is pleased to announce that Giovanni Bittante (University of Padua, Italy), Glen Broderick (Broderick Nutrition and Research), Jan Dijkstra (Wageningen University), and Paul VanRaden (USDA Animal Genomics and Improvement Lab) are being inducted as members of the 2020 class of JDS Club 100.
Audino Melgar Moreno is the recipient of the 2020 Alltech Inc. Graduate Student Paper Publication Award. Audino Melgar Moreno grew up in Pese, Panama. Melgar Moreno completed a bachelor’s degree in animal science at the University of Panama in 1999. In 2000, he joined the Panamanian Institute of Agricultural Research (IDIAP), where he has been working up to date. In 2002, Melgar Moreno moved to the United States for a master’s degree program in animal sciences at the University of Idaho. In 2016, he received a scholarship from the Government of Panama to pursue a PhD in dairy cattle nutrition at The Pennsylvania State University under the supervision of Alexander Hristov. His research focused on enteric methane emission and lactational performance of dairy cows fed 3-nitrooxypropanol. Upon completion of his PhD, Melgar Moreno returned to his research position at IDIAP in Panama.

Thank you to the Alltech Biotechnology Center for sponsoring the Graduate Student Paper Publication Award.
Christiane Girard is the recipient of the 2020 American Feed Industry Association Award. Girard works as a research scientist at the Sherbrooke Research and Development Centre, Agriculture and Agri-Food Canada. Her work on B vitamins has challenged the generally accepted concept that dietary requirements of dairy cows for B vitamins do not have to be taken into account because their synthesis by the rumen microflora is sufficient to prevent deficiency symptoms. Her work has clearly led the path and truly made an outstanding contribution to improve estimations of supply and requirements of B vitamins. From the perspective of precision farming to optimize metabolic efficiency, meeting dairy cow requirements for B vitamins cannot be overlooked.

Thank you to the American Feed Industry Association for sponsoring this award.
Antonio Faciola is the recipient of the 2020 Cargill Animal Nutrition Young Scientist Award. Faciola is an assistant professor at the University of Florida. The overarching goal of his program is to improve the efficiency of nutrient utilization in dairy cows to enhance production and minimize its environmental impact. Since 2013, Faciola has published 43 papers, presented 23 invited talks, secured more than $5.4 million in competitive grants, and mentored 15 graduate students, 24 visiting scholars, 3 postdocs, and more than 55 undergrads. Faciola demonstrated that canola meal improves milk production when it replaces soybean meal in the diet of dairy cows, which has contributed to the wide adoption of canola meal throughout the United States and beyond.

Thank you to Cargill Animal Nutrition for sponsoring the Young Scientist Award.
Donna Amaral-Phillips is the recipient of the 2020 DeLaval Dairy Extension Award. Amaral-Phillips is an extension professor and dairy extension specialist at the University of Kentucky. Her extension education program centers on applying sound, science-based nutrition recommendations for replacements and lactating dairy cows, often using hands-on demonstrations and farmer-led discussion groups. She was the project leader for DAIReXNET, a national web-based resource, and co-coordinator for the North American Invitational 4-H Dairy Quiz Bowl. Amaral-Phillips has authored or co-authored 52 peer-reviewed extension articles and 356 popular press articles. Some of her most fulfilling extension work in Kentucky has been done sitting at a kitchen table listening to a farmer’s concerns and did not involve dairy science concepts.

Thank you to DeLaval for sponsoring the Dairy Extension Award.
Katharine F. Knowlton is the recipient of the 2020 Hoard’s Dairyman Youth Development Award. Knowlton, a professor of dairy science at Virginia Tech, is enthusiastic about teaching and mentoring young people, including 4-H and FFA members and college students. Knowlton is the curriculum coordinator for the Department of Dairy Science and is academic advisor to an average of 40 undergraduates per year. Knowlton has served as advisor to 6 PhD students, 10 master’s students, and 4 post-doctoral researchers. A highly successful collegiate dairy judging team coach, she coached winning teams at the National Intercollegiate Dairy Cattle Judging Contest on four occasions. She has also developed a highly sought-after workshop for youth called Dairy Judging 101.

Thank you to Hoard’s Dairyman for sponsoring the Youth Development Award.
Sanjeev Anand is the recipient of the 2020 International Dairy Foods Association Research Award in Dairy Foods Processing. Anand is a well-recognized dairy science professional with 36 years of teaching and research experience. He holds master’s and PhD degrees in dairy microbiology. He joined South Dakota State University in 2006 as an assistant professor of dairy manufacturing and earned the rank of professor in 2014. Anand oversees research projects related to dairy manufacturing, product quality and safety, food and environmental pathogens, food preservation, and food safety education. He is a recipient of several awards, including the 2018 International Dairy Foods Association Teaching Award from ADSA, 2019 Gamma Sigma Delta Teaching Award, and 2020 Fishback Honors Advocate, to name a few.

Thank you to the International Dairy Foods Association for sponsoring the Research Award in Dairy Foods Processing.
F. Xavier Malcata is the recipient of the 2020 International Dairy Foods Association Teaching Award in Dairy Manufacturing. Malcata received his bachelor of science degree in chemical engineering from the University of Porto in Portugal) and his PhD in chemical engineering and food science from University of Wisconsin–Madison. He is currently full professor in the College of Engineering at the University of Porto. In addition to having been elected Fellow of ADSA in 2013, he has received several previous awards, including the Foundation Scholar Award in Dairy Foods, the Danisco International Dairy Science Award, and the Distinguished Service Award from ADSA, as well as the William V. Cruess Award for Excellence in Teaching from the Institute of Food Technologists and the Elmer Marth Educator Award from the International Association for Food Protection.

Thank you to the International Dairy Foods Association for sponsoring the Teaching Award in Dairy Manufacturing.
Christian Maltecca is the recipient of the 2020 J. L. Lush Award in Animal Breeding. Maltecca is a professor of quantitative genetics and breeding in the animal science department as well as part of the genetics and bioinformatics programs and the Comparative Medicine Institute at North Carolina State University. In addition, he is adjunct professor at the University of Guelph and adjunct member of the PhD School of Animal Science of the University of Padua, Italy. His main areas of interest are the genetic improvement of functional traits as well as optimizing methods and breeding scheme designs under genomic selection. Maltecca has published more than 100 refereed papers in scientific journals; about 30% of these papers were published in the *Journal of Dairy Science*. Thank you to the Council on Dairy Cattle Breeding for sponsoring the J. L. Lush Award in Animal Breeding.
Erin Horst is the recipient of the 2020 National Milk Producers Federation Richard M. Hoyt Award. Horst grew up on a small swine farm in Van Horne, Iowa, and received her bachelor’s degree in animal science at Iowa State University in spring 2015. She stayed at Iowa State and obtained her PhD under the direction of Lance Baumgard. Her research focuses on the consequences of immune activation on energetic and calcium homeostasis and its relevance to transition cow disorders. In addition, her work investigates potential dietary strategies that may ameliorate the response to infection. Horst has accepted a position with Innovative Liquids LLC upon completion of her PhD.

Thank you to the National Milk Producers Federation Dairy Scholarship Fund for sponsoring the Richard M. Hoyt Award.
John K. Bernard is the recipient of the 2020 Nutrition Professionals Inc. Applied Dairy Nutrition Award. Bernard is a professor at the University of Georgia Tifton Campus. His applied research has focused on improving the utilization of Southern forages and developing supplementation strategies using by-products and specialty ingredients to improve production and efficiency. He has served ADSA on the editorial board for the Journal of Dairy Science, has chaired numerous committees, and received the Pioneer Hi-Bred Forage Award in 2011. He currently serves as the past president of the ARPAS Foundation, as an editorial board member for Applied Animal Science, and as an ad hoc reviewer for the Journal of Dairy Science.

Thank you to Nutrition Professionals Inc. for sponsoring the Applied Dairy Nutrition Award.
Chad Dechow is the recipient of the 2020 Purina Animal Nutrition Teaching Award in Dairy Production. Dechow is an associate professor at Penn State University and holds degrees from SUNY Morrisville, Cornell University, Penn State University, and the University of Tennessee. He is the instructor of courses relating to animal genetics and dairy management. Undergraduate students are important contributors to his research program, with many presenting at ADSA annual meetings and contributing as authors for peer-reviewed publications. Dechow is co-advisor to Penn State’s Dairy Science Club and coach of the Pennsylvania 4-H Dairy Judging Team. He lives in central Pennsylvania with his wife and five children.

Thank you to Purina Animal Nutrition for sponsoring the Teaching Award in Dairy Production.
Juan Loor is the recipient of the 2020 West Agro Award. Loor is professor of animal sciences and nutritional sciences at the University of Illinois, Urbana. He received his bachelor’s degree from the University of California, Davis, and earned master’s and PhD degrees from Virginia Tech. Loor leads an innovative research program emphasizing the role of feeding on ruminant mammary gland metabolism and immune function. His laboratory is at the forefront of applying molecular biology and bioinformatics to understand regulation of mammary immune response and milk fat and protein synthesis. Since 2014, his work in those areas has resulted in more than 80 scientific papers garnering more than 1,000 citations.

Thank you to West Agro Inc. for sponsoring this award.
Zinpro Award for Excellence in Dairy Science

Dan Weary is the recipient of the 2020 Zinpro Award for Excellence in Dairy Science. Weary is a professor at the University of British Columbia. His research focuses on methods of assessing and relieving pain and distress in cattle, developing alternative methods of housing and managing cattle (including group housing, milk feeding, and weaning for calves), methods for early detection and prevention of disease in animals (including lameness), and using social science methods to better understand the motivations and constraints of farmers, policy makers, and the public with regard to the care of dairy cattle.

Thank you to Zinpro Animal Health for sponsoring the Award for Excellence in Dairy Science.
Zoetis Physiology Award

Pierre Lacasse is the recipient of the 2020 Zoetis Physiology Award. Lacasse has made outstanding contributions to the understanding of the biological processes controlling lactation and immune resistance, as well as to the development of tools and methods to improve the health, well-being, and longevity of dairy cows. Most remarkably, his results on the role of prolactin during ongoing lactation revived the importance of this hormone and have led to the development of a product sold in several countries. Postpartum incomplete milking improves health and reproduction and is now adopted by a growing number of dairy farms. He is also involved in the management of large integrated research programs.

Thank you to Zoetis for sponsoring the Physiology Award.
The winner of the 2020 FASS-AFIA New Frontiers in Animal Nutrition Award is Luis Tedeschi. Dr. Tedeschi has garnered national and international recognition for integrating ruminant nutrition and modeling in the development of applied decision-support tools that assist many stakeholders in the ruminant production arena. In the early 2000s, Tedeschi’s work in the bioenergetics of growth led him to mathematically postulate the relationship of an animal’s body gain composition to its efficiency of use of energy deposition in tissues of beef cattle. His work changed the paradigm of determining the efficiency of use of energy derived from dietary components to focus on the composition of the gain. His credibility and usefulness in the animal sciences have earned the highest level of recognition in the field.
Nicholas Uzee is the recipient of the 2020 Genevieve Christen Distinguished Undergraduate Student Award. Uzee is a graduating senior at Louisiana State University, majoring in animal sciences with a concentration in dairy production. Uzee became interested in the dairy industry after joining the LSU Dairy Science Club in his freshman year. Since then, he has served in various executive positions in the organization. In addition to the club, Uzee has gained extensive industry knowledge by attending the United States Dairy Education and Training Consortium and participating in the North American Intercollegiate Dairy Challenge and ASAS Academic Quadrathlon. Uzee currently serves as the LSU Dairy Science Club president and ADSA Student Affiliate Division first vice president.
Brandon Batty is the recipient of the 2020 ADSA Foundation Graduate Student Literature Review Award, in the Dairy Foods, MS division. Batty, a graduate of Oregon State University’s undergraduate and graduate programs, has a passion for the dairy industry and human health. Batty focused his master’s program on illustrating milk’s effect on skeletal growth and development. He believes that the key to sustained health and longevity is high-quality nutrition, and milk is certainly a part of that. Batty is currently a student at the Carlson College of Veterinary Medicine and is working to become a doctor in veterinary medicine with interests in nutrition and surgery.

Thank you to the ADSA Foundation for sponsoring the Graduate Student Literature Review Award.
Cody McCary is the recipient of the 2020 ADSA Foundation Graduate Student Literature Review Award in the Production, MS division. McCary was born in Kennewick, Washington. He attended Utah State University, where he received a bachelor of science degree in animal, dairy, and veterinary science. Upon completion of his bachelor’s degree, he began a master’s program at the University of Florida under the supervision of Luiz Ferraretto. McCary’s program focused on strategies to improve the nutritive value of whole-plant sorghum silage, which culminated in his review titled “Current perspectives on whole-plant sorghum silage production and utilization by lactating dairy cows.” Since graduating, McCary has joined Purina Animal Nutrition and is pursuing a career as a dairy nutritionist.

Thank you to the ADSA Foundation for sponsoring the Graduate Student Literature Review Award.
Samuel Alcaine is the recipient of the 2020 ADSA Foundation Scholar Award in Dairy Foods. Alcaine is an assistant professor of dairy fermentations in the Department of Food Science at Cornell University with a research and extension appointment. He earned a bachelor’s degree from the University of Maryland, a master’s degree from Cornell University, and a PhD from the University of Massachusetts. His research focuses on fermentation-based methods to reduce dairy product spoilage, fermentation-based upcycling of dairy by-products, and bacteriophage-based applications for the control and identification of bacteria. His extension program encompasses the key areas of yogurt and fermented dairy production, dairy food safety, and coaching artisan dairy producers on FSMA-compliant food safety plan implementation.

Thank you to the ADSA Foundation for sponsoring the Scholar Award in Dairy Foods.
ADSA Foundation Scholar Award in Production

Michael Steele is the recipient of the 2020 ADSA Foundation Scholar Award in Production. For his innovation in, and commitment to, research and teaching in the field of dairy cow and calf management and nutrition, Michael Steele has been awarded the 2020 ADSA Foundation Scholar Award. As a result of a lifelong passion for enhancing the nutrition and health of dairy cattle, Steele has established a highly productive research and training program and continuously transfers scientific knowledge to industry stakeholders. His combined scientific record and industry experience has made a notable impact on our national and international dairy industry.

Thank you to the ADSA Foundation for sponsoring the Scholar Award in Production.
The *Journal of Dairy Science* Highly Cited Award is awarded to Adegbola Adesogan and co-authors for their paper titled “Meta-analysis of effects of inoculation with homofermentative and facultative heterofermentative lactic acid bacteria on silage fermentation, aerobic stability, and the performance of dairy cows,” which was published in the June 2017 issue of the *Journal of Dairy Science*.

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**JDS Highly Cited Award**

Meta-analysis of effects of inoculation with homofermentative and facultative heterofermentative lactic acid bacteria on silage fermentation, aerobic stability, and the performance of dairy cows


*Journal of Dairy Science* 100:4578–4603

Citation read by Miriam Snyder
The *Journal of Dairy Science* Highly Cited Award is awarded to Lance Baumgard and co-authors for their paper titled “Glucose requirements of an activated immune system in lactating Holstein cows,” which was published in the March 2017 issue of the *Journal of Dairy Science*. 

Glucose requirements of an activated immune system in lactating Holstein cows


*Journal of Dairy Science* 100:2360–2374
The *Journal of Dairy Science* Highly Cited Award is awarded to Adriano Cruz and co-authors for their publication titled “Rapid consumer-based sensory characterization of requeijão cremoso, a spreadable processed cheese: Performance of new statistical approaches to evaluate check-all-that-apply data,” which was published in the August 2017 issue of the *Journal of Dairy Science*. 

Citation read by Miriam Snyder
The winner of the Leprino Foods Graduate Student Poster Presentation Contest in Dairy Foods Research is Daniel Whitt of North Carolina State University. Whitt is completing his master’s degree in food science under the guidance of Dr. MaryAnne Drake.

The second-place winner is Ying Zhu from the University of Wisconsin-Madison. The third-place winner is Bryna Rackerby from Oregon State University.

Thank you to Leprino Foods for sponsoring the Graduate Student Poster Presentation Contest in Dairy Foods Research.
The winner of the National Dairy Council Graduate Student Paper Presentation Contest in Dairy Foods Research is Matilde Portnoy of Cornell University. Portnoy is currently a PhD student in the Department of Food Science in Dr. David Barbano’s laboratory, and recently finished her master’s degree in Cornell’s Food Science Department. She is originally from Puerto Rico, where she obtained her BS degree in chemistry in 2017 from the University of Puerto Rico.

The second-place winner is Gonzalo Miyagisuku Cruzado from The Ohio State University. The third-place winner is Linran Wang from Cornell University.

Thank you to the National Dairy Council for sponsoring the Graduate Student Paper Presentation Contest in Dairy Foods Research.
The winner of the Purina Animal Nutrition Graduate Student Poster Presentation Contest – MS Division is Nicole Hardy of The Ohio State University. Hardy originates from Bucks County, Pennsylvania, and received her bachelor’s from Virginia Tech in 2018. Currently she is a master’s student at The Ohio State University, OARDC, studying the development of the mammary vasculature in calves under the advisement of Dr. Benjamin Enger. After finishing her degree, Hardy looks forward to starting a career in agricultural extension or in an industry position.

The second-place winner is Lexie Padilla from Utah State University. The third-place winner is Vicki Brisson from the University of Guelph.

Thank you to Purina Animal Nutrition for sponsoring the Graduate Student Poster Presentation Contest – MS Division.
The winner of the Purina Animal Nutrition Graduate Student Poster Presentation Contest – PhD Division is Kelly Mitchell of The Ohio State University. Mitchell is originally from Tulare, California, where she grew up around dairy cattle by following her father, who is a dairy veterinarian. After completing her undergraduate degree in animal sciences at UCD, she continued her education there with Dr. Heidi Rossow and earned a master’s in animal biology in 2017. Currently she is working towards her PhD with Dr. Jeff Firkins in The Ohio State University nutrition program, while she also works as a research associate in the Animal Sciences department.

The second-place winner is Marcela Marrero-Perez from the University of Florida. The third-place winner is Alexis Hruby, of Virginia Tech.

Thank you to Purina Animal Nutrition for sponsoring the Graduate Student Poster Presentation Contest – PhD Division.
National Milk Producers Federation Graduate Student Paper Presentation Contest in Dairy Production Award: MS Division

The winner of the National Milk Producers Federation Graduate Student Paper Presentation Contest in Dairy Production Award – MS Division is Robert Matson of the University of Guelph. Matson grew up on a family dairy farm in Ontario, Canada. He completed his undergraduate degree in biochemistry at the University of Ottawa. He is now completing his master’s of science degree under the supervision of Dr. Trevor DeVries, focusing on the effects of housing and management on cow health and production in automated milking systems.

The second-place winner is Padraig Lucey from the University of California-Davis. The third-place winner is Brittney Davidson from the University of Florida.

Thank you to the National Milk Producers Federation Dairy Scholarship Fund for sponsoring the Graduate Student Paper Presentation Contest in Dairy Production Award.
The winner of the National Milk Producers Federation Graduate Student Paper Presentation Contest in Dairy Production Award – PhD Division is Carsten Walker of Michigan State University. Walker is a second-year PhD student in the Meadow Brook Endowed Immunobiology Laboratory at Michigan State. His focus of research is the bovine endocannabinoid system and its implications on endothelial cell health under endotoxin challenge. Before starting his PhD, he worked as a nutrition consultant and operations manager for a human-grade cricket farm.

The second-place winner is Alex Tebbe from The Ohio State University. The third-place winner is Rebecca Klopp from Purdue University.

Thank you to the National Milk Producers Federation Dairy Scholarship Fund for sponsoring the Graduate Student Paper Presentation Contest in Dairy Production Award.
The winner of the Novus International ADSA/EAAP PhD Student Travel Award is Carsten Walker from Michigan State University.

Thank you to Novus International for sponsoring the ADSA/EAAP PhD Student Travel Award.
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