



Lipid Oxidation in Foods:

Improving Food Quality and Protecting Bioactive Lipids

University of Massachusetts Amherst
March 21-22, 2019



Short Course Agenda

DAY 1 - THURSDAY, MARCH 21, 2019

7:30 am to 8:30 am	Registration & Continental Breakfast
8:30 am to 10:30 am	Lecturer: Eric Decker, UMass Food Science Fundamentals of Lipid Oxidation & Antioxidants <ul style="list-style-type: none"> • <i>Free Radical Mechanisms</i> • <i>Fatty Acid Decomposition Pathways</i> • <i>Prooxidants</i> • <i>Impact of Environmental/ Lipid Processing Conditions</i>
10:30 am to 11:00 am	Break
11:30 am to 12:15 pm	Lecturer: Eric Decker, UMass Food Science Fundamentals of Lipid Oxidation & Antioxidants Continued <ul style="list-style-type: none"> • <i>Free Radical Scavengers</i> • <i>Metal Chelators</i>
12:15 pm to 1:30 pm	Lunch
1:30 pm to 2:00 pm	Lecturer: Bingcan Chen, North Dakota State University Methods to Measure Oxidation
2:00 pm to 2:30 pm	Lecturer: Eric Decker, UMass Food Science Oxidation in low moisture foods
2:30 pm to 3:00 pm	Lecturer: Rick Delporta, Frito-Lay Oxidation in frying oils
3:30 pm to 4:00 pm	Break with Poster Viewing
4:00 pm to 4:30 pm	Lecturer: Eric Decker, UMass Food Science Oxidation in Emulsions
4:30 pm to 5:30 pm	Lecturer: Charlotte Jacobsen, National Food Institute, Technical University of Denmark Stabilizing Omega-3 Oils in foods
5:30 pm to 6:30 pm	Cocktail Reception with Poster Presentations (Cash Bar)

DAY 2 - FRIDAY, MARCH 22, 2019

7:30 am to 8:30 am	Continental Breakfast
8:30 am to 9:00 am	Lecturer: Mark Richards, University of Wisconsin Lipid Oxidation in Muscle Foods
9:00 am to 9:30 am	Lecturer: Guodong Zhang Health Impacts of Lipid Oxidation Products
9:30 am to 10:00 am	Lecturer: David Johnson, Kalsec Natural Antioxidants and Their Application in Foods
10:00 am to 10:30 am	Break
10:30 am to 11:00 am	Lecturer: Cindy Tian, Kalsec Market Trends and Control of Lipid Oxidation
11:00 am to 11:30 am	Lecturer: D. Julian McClements, UMass Food Science Lipid Delivery Systems and Protection of Bioactive Compounds
11:30 am to 12:30 pm	Open Discussion with all Speakers
12:30 pm	Grab N' Go Lunches