	www.MattsYeastLab.com	
	(304) 483-1786	
ACADEMIC BACKGROUND		
West Virginia University, <i>Morgantown, WV, USA</i> PhD: Systems Biology	2020	
 Advisor: Dr. Jennifer E.G. Gallagher Exploration of Nanotoxicological Copper and Interspecific Sacc 	haromyces Hybrids	
Saga University – Fermentation Institute, Saga-shi, Kyushu, Japan Advisor: Dr. Hiroshi Kitagaki	2017	
Fairmont State University, <i>Fairmont, WV, USA</i> Bachelor of Science: Biology	2012	
Boston University, Cockburn Harbor, South Caicos, TCI Emphasis: Biology	2010	
INDUSTRY EXPERIENCE		
 Imperial Yeast, Portland, OR Research & Development Lead Scientist Envision industrial laboratory facility from ground up - design, construction, instrume Aligned Sales Team with New Product Introductions via Phase-Gate framework Overhauled product QC pipeline via modern molecular techniques Presented technical presentations both externally to clients and internally to stake here Coordinated with academic partners with industry insights, experimental direction, and 	2020 – 2023 ntation, & SOP olders nd microbio support	
Appalachian Brewer Research, Morgantown, WV Founder & Consulting Scientist Identified, developed, and retained niche fermentation clients driven by quality and innov	2019 - 2021 vative improvement	
National Research Institute of Brewing, <i>Hiroshima, Japan</i> <i>Visiting JSPS Scientist</i> <i>Utilized formal training and skill set to complete critical experimental needs in a demandi</i>	2017 ng environment	
Winans Services and Extras Support Staffing, <i>Parkersburg, WV</i> Operations & Marketing Executive Led 400+ member team in (7+) branch development, contract negotiation, and client/emp	2013 - 2015 ployee acquisition	
SELECT PUBLICATIONS		
Ni Putu Dewi Nurmalasari, Matthew J Winans, Katelyn Perroz, Victoria R Bovard, Robert Anderson, Steve S Gallagher. Toxicity and Assimilation of Cellulosic Copper Nanoparticles Require α-arres cerevisiae, Metallomics, 2023.	Smith, Jennifer EG t ins in S.	
Matthew J. Winans. Yeast Hybrids in Brewing. Fermentation, 2022.		
Matthew J. Winans. Toxicological and Metabolic Studies in Saccharomyces: The Explorat Nanotoxicological Copper and Interspecific Saccharomyces Hybrids, Research Reposit	ion of tory, 2020.	
Matthew J. Winans, Yuki Yamamoto, Yuki Fujimaru, Yuki Kusaba, Jennifer E. Gallagher, and Hiroshi Kitagar arboricola and its Hybrids' Propensity for Sake Production: Interspecific Hybrids Reve Fermentation Abilities and a Mosaic Metabolic Profile. <i>Fermentation</i> , 2020.	ki. Saccharomyces eal Increased	
Matthew J. Winans and Jennifer E. G. Gallagher. Metallomic and Lipidomic Analysis of S. cerev Cellulosic Copper Nanoparticles Uncovers Drivers of Toxicity. Metallomics, 2020.	<i>visiae</i> Response to	

Jordan B. Barney, Matthew J. Winans, Catherine B. Blackwood, Amaury Pupo, and Jennifer E. G. Gallagher. The Yeast Atlas of Appalachia: Genetic Diversity and Phenotypic Diversity of Herbicide Resistance of Wild Yeast. Diversity, 2020.

Xiaoqing Rong-Mullins, Matthew J. Winans, Justin B. Lee, Zachery R. Lonergan, Vincent A. Pilolli, Lyndsey M Weatherly, Thomas W. Carmenzind, Lihua Jiang, Jonathan R. Cumming, Gloria S. Oporto, and Jennifer E. G. Gallagher. Proteomic and Genetic Analysis of the Response of S. cerevisiae to Soluble Copper Leads to Improvement of the Antimicrobial



Matthew J. Winans

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Function of Cellulosic Copper Nanoparticles, Metallomics, 2017.

AWARDS & FUNDING

Integrative Graduate Education and Research Traineeship – NSF East Asia and Pacific Summer Institutes – NSF & JSPS	2016, '17, '18, '19	2017
Productivity Award – WVU Eberly College of Arts and Sciences Entrepreneur Pitch Contest, Patenting – WVU Launch Lab WVDEP: Save Our Streams, – NASA Space Grant Scholars Program	2017, '18, '19, '20	2017 2011
SELECT PRESENTATIONS		
Yeast Biotransformation: Comprehensive Profiling via High-Throughput Evaluations <i>Craft Brewers Conference, Oral & Poster Presentation – Nashville, TN</i>		2023
Diastatic Yeast: Investigating a Novel and Practical Definition Through Protocol Deve Brewing Summit, Poster Presentation – Providence, RI	elopment	2022
Adventure Guide to Sake Brewing Brewers Association - Home-brewer's Convention, Oral Presentation – Pittsburgh, PA		2022
Interspecific Yeast Influence in Fermentation American Society of Brewing Chemists, Poster Presentation – (Web Hosted)		2021
Distilling Microbiology: Love it or Hate it, We Need it American Distilling Institute, Oral Presentation – (Web Hosted) New Orleans, LA		2020
Yeast of America: A Biogeological Study of Todays Yeast American Society of Brewing Chemists, Poster Presentation – New Orleans, LA		2019
Exploring the Unique Mode of Copper Nanoparticle Toxicity Genetics Society of America, Poster Presentation – Stanford, CA		2018
Metabolomics & Toxicity of Copper Nanoparticles Metabolomics Society, Poster Presentation – Seattle, WA		2018
Exploring Novel Yeast, Saccharomyces arboricola, in Japanese Biotechnology Japanese Society for the Promotion of Science, Poster Presentation – Hayama (Sokenda	ai), Japan	2017
Harnessing Flavor Diversity of Yeast Strains from the Allegheny Mountains World Brewing Congress, Poster Presentation – Denver, CO		<u>2016</u>

SERVICE & ORGANIZATIONAL EXPERIENCE

MBAA - TQ Publications Committee	2022 - Current
ASBC - Program Committee, Microbiology sub-committee	2020 - Current
Foundation of WVU, Parkersburg member	2014 - Current
Biology Graduate Student Association of WVU, President & Treasurer	2018 - 2020
Science on Tap, Morgantown, WV	2015 - 2019
Gallagher Lab Community Outreach Program, Morgantown, WV	2016 - 2019
 NASA High School Experiment Design, Liquid Nitrogen Elementary Day, Yeast Community Sourcing 	
Rotary Club - Parkerburg business member	2013 - 2015
βββ Volunteer and Fundraising Activities, <i>Fairmont, WV</i>	2008 - 2012
 Humane Society, Adopt a Highway, Children's Hospital, Special Olympics 	

TECHNICAL DETAILS AND REFERENCES AVAILABLE UPON REQUEST

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