



CHESTNUT CHAT – Q & A
CHAT 12: METABOLOMICS WITH DR. JEANNE ROMERO-SEVERSON
DATE: FRIDAY, AUGUST 21, 2020

QUESTION	ASKER NAME	ASKER EMAIL	ANSWER(S)
yes seeing the screen	John Scrivani	jscrivani@gmail.com	thanks John. Hi
Where in Wisconsin?	Frank Skalak	mathob@icloud.com	live answered
My wife and I spent 4 hours collecting samples of original American chestnuts for dna sampling. As far as I know we did everything as requested. However, we were told later they were not good. What happened?	Frank Skalak	mathob@icloud.com	live answered
Tell Jeanne I said "Good Job!" Gotta go (lecture at noon) - Hill	Hill	Hill-Craddock@utc.edu	live answered
For the non-biochemists, can you explain the difference between metabolites and secondary metabolites	Bruce Levine	BruJonLev@yahoo.com	live answered
Do you see an analytical method like LC/MS as a replacement or an adjunct to field methods like small stem or large stem assays?	Mark Stoakes	mstoakes@hotmail.com	live answered
Fascinating primer for me, thank you. I have no scientific background, so please excuse my ignorance. That being said, I see a lot of parallels from this line of research with the current "moonshot" push for C19 research. My Q: Would there be any possible application of the research tool "folding@home" to help with this?	Fred Bullmer	fred_bullmer@yahoo.com	live answered



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Is it helpful to know the metabolite you are looking for before you start (e.g.) from other pre-metabolomics research? Or is it better not to have preconceived ideas and just see what the trees tell you?	Bruce Levine	BruJonLev@yahoo.com	live answered
What if, and is it possible that, blight resistance is not caused by one or more secondary metabolites?	Greg	empirechestnut@gmail.com	live answered
I am from Mauston but prefer fresh cheese curds. Beat cheese any day	Frank Skalak	mathob@icloud.com	live answered
Has any of this technology been used to find and/or develop American Elm or American Beech that could be used for restoration?	Allen Nichols	fajknichols.75@gmail.com	live answered
Hi Jeanne! How do you go about determining which metabolites would be important in identifying pathogen resistance to blight? And would these metabolites change as the tree's age or change in their environmental conditions (like going from open sun to shaded conditions)?	Stacy Clark	stacy.l.clark@usda.gov	live answered
Given that there might be 1000 metabolites in a tissue sample, were there any particular methods - or tricks even - that you used to identify the 5 to 9	Mike Aucott	mlaucott@gmail.com	live answered



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metabolites that identify ash trees with high larval kill?			
We in RI are hoping that the very new, small leaves we collected last month gave good DNA! We noticed that some trees are still putting out a very small number of brand-new leaves in mid-July... (fingers crossed)	Yvonne Federowicz	yvonne.federowicz@gmail.com	live answered
Can someone from TACF (Jared?) explain as to whether this approach would help the TACF efforts?	Doug Rademacher	drademacher@metmail.org	live answered
When developing a phenotypic tool based on plant metabolites, do you think constitutive or induced or both are going to be important? Also, how many years of field trials do you think would be required to get a robust metabolite-based tool?	Anna Conrad	anna.conrad@usda.gov	live answered
Really enjoyed your talk!	Anna Conrad	anna.conrad@usda.gov	live answered