



CHESTNUT CHAT SERIES:
CHAT 20: HYPOVIRULENCE AND BIO CONTROL
DATE: FRIDAY, JANUARY 13, 2021

ORIGINATOR	QUESTION / COMMENT
Amedeo Cimini to Everyone	you appear to be a master zoomist!
sally quale to Everyone	Hi, Sara. it
Sara Fern Fitzsimmons to sally quale and all panelists	HI Sally!!!
sally quale to Everyone	hi, Sara. It's Sally Quale here in Bronxville NY. It is great to see ups and join you!
Lisa Thomson to Everyone	Hi Sally! I owe you a phone call. Hope all is well with you! Lisa
David Stout to All panelists	We were all born about the same 5 year period too. David Stout.
Amedeo Cimini to Everyone	I'm the only Amedeo I know.
David Stout to All panelists	I have a cousin named Lisa.
sally quale to Everyone	Hi, also, to you Lisa! Best, Sally
Sara Fern Fitzsimmons to Amedeo Cimini and all panelists	I don't know any other Amedeo's. A great name!!
sally quale to Everyone	Hi, also, Lisa! Great to be with you all. Best. Sally
Kendra Collins to All panelists	Lisa - there was totally a Walter at Riona's daycare...he might be in kindergarten by now
Amedeo Cimini to Everyone	Ama is Love Deo is God.
Robert Alvey to All panelists	Might be on the wrong site. Is this the American Chesnut Society?
Amedeo Cimini to Everyone	Si
Robert Alvey to All panelists	THANKS!!! LOL
Cherin to All panelists	I had 2 brothers as well - and I found that my girlie nails came in handy when needed !
Robert Alvey to All panelists	I'll still wear pants.
Gail H to All panelists	Will seeds/seedlings still be distributed this spring?
Sara Fern Fitzsimmons to Gail H and all panelists	Hi Gail -- yes, we will still do distributions this spring.
Lisa Thomson to Everyone	Yes, if you donated to the Seed Sponsorship Program we will still be sending seeds out in Feb. And the pure American program will also continue.
Hill Craddock to All panelists	Sorry I'm late (Hill)
Sara Fern Fitzsimmons to Hill Craddock and all panelists	Hi Hill - no worries! Glad you could make it

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Sara Fern Fitzsimmons to Jacob Pease and all panelists	Jacob - Absolutely! Especially in the southern Appalachians.
Rob W to All panelists	Forgive me as I'm new, but will we know the genetic background and originating location(s) of the seeds distributed (hybrids, etc)?
Sara Fern Fitzsimmons to Rob W and all panelists	Hi Rob -- sort of. You'll get the parent of the tree distributed with the nuts. If you would like a more detailed pedigree, just send us an email once you get the seeds, and we'll send you that info.
Rob W to All panelists	Thanks! My hope is to keep (relative) track of the offspring so we can share information on the health of the population over time, though I that may be impractical, but tracking numbers could be helpful for all of us!
Sara Fern Fitzsimmons to Rob W and all panelists	Rob - yes! we also have an online database which we can make you an account for. You can track the pedigree info, planting, and growth data there, too.
Rob W to Everyone	Will I get a "Chestnut Geek" T-shirt?
Sara Fern Fitzsimmons to Rob W and all panelists	We need to make one! LOL!
Kristen Wickert WVDA to All panelists	Cryphonectria Slushie
Sara Fern Fitzsimmons to Kristen Wickert WVDA and all panelists	Ha!!
Fred Behringer to All panelists	Does the virus infect all <i>C. parasitica</i> strains equally and is the virus common through the range of <i>C. parasitica</i> . Also, what are the barriers to further use that you alluded to.
Robert Alvey to All panelists	Have any American chestnut trees been found that have a natural ability to resist the fungus?
Balfour Sartor to Everyone	Will treatment of one canker with the hypovirulent virus be able to either spread to other cankers on the same tree, or persist to prevent future cankers?
Balfour Sartor to Everyone	cankers- sorry!
Dennis Liu to Everyone	Seems like a hypovirulent fungus would be at a selective disadvantage out in the woods, and that overall new strains of resistant fungus would keep arising and be at an advantage. All the live rootstock helps keep the fungus more virulent?
Ursula Heiniger to All panelists	Amy thanks - a beautiful talk!
Russel Boyer to All panelists	how long does it take the chestnut blight take to kill the tree
Brian Lovett to All panelists	HEY!
John Taylor to All panelists	Can a virus solution be fogged with a UAV/drone?

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Jacob Pease to Everyone	Evolution breeds evolution. I can't say for certain, but seems like the virus could easily enter into an evolutionary arms race with the fungus (i.e., the Red Queen hypothesis).
Mark Double to Everyone	To answer Dennis' question, it is correct that the hypovirulent fungus is at a disadvantage on American chestnut. The virus-containing strains do not spread well from tree-to-tree in the U.S., but that is not the case with European chestnut in many areas of Europe. The slightly more resistant European chestnuts do have an advantage over American chestnuts.
Ursula Heiniger to Everyone	It was sold in France - but any more, as far as I know. In Switzerland the hypovirulent strains are custom made by my former institute.
Mark Double to Everyone	Ursula, Can you provide your email address for those of us who would like to contact you?
Stewart Dean to All panelists	Can you spray antifungals agents on infected trees, chemical agents and biological controls like Serenade. I have an ongoing losing battle with blight on my tomatoes and have used such on them
Helen Koch to All panelists	Vermont HAD abundant chestnut, now all gone.
Ursula Heiniger to Everyone	ursula.heiniger@swissonline.ch
Stewart Dean to All panelists	Is this presentation going to be available recorded and online on request
Sara Fern Fitzsimmons to Stewart Dean and all panelists	hi stewart - yes! this is being recorded and will be put up on our Chestnut Chat website.
Sara Fern Fitzsimmons to Stewart Dean and all panelists	https://acf.org/resources/chestnut-chat-series/
Andrew Newhouse to All panelists	FYI, at least some of the differences in hypovirulent strains are likely due to reduced oxalate production. Dr. Sandy would know more!
Dennis Liu to Everyone	well maybe similar to phage in being a virus, but fungal kingdom is eukaryotic, so these viruses are dealing with a nucleated genome
Jacob Pease to Everyone	I have to duck out, but thanks everyone for the information today. Always amazing to see the sheer number of knowledgeable people dedicated to the chestnut effort. Thank you for your time, Amy!
Anita Klein to All panelists	Thanks to all!
Dennis Liu to Everyone	Thanks Amy etal!
Fred Behringer to All panelists	Thanks!
Kristen Wickert WVDA to All panelists	Great job Amy!!!!
Andrew Newhouse to All panelists	Thank you Amy! Great job!

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dennishamm to All panelists	Thank you Sara and Amy for helping to understand the place this technique has along with other approaches and that, in time, it can lead to broader application. My first session and delighted I was able to attend.
Lawson SS to Everyone	Thank you Amy and everyone else that put this together! See you next time!
francisgroeters to All panelists	Excellent presentation, thanks.
Robert Alvey to All panelists	Applause!
Dennis Liu to Everyone	Cool review on fungal viruses, https://pubmed.ncbi.nlm.nih.gov/11700275/
Helen Koch to All panelists	THANK YOU! That was awesome.
Tyler Payne to Everyone	very interesting work, thanks for being here
Jamie to All panelists	Thank you all!
Thom G to All panelists	Great talk. Interesting frontier of research and management!
Cindy to All panelists	Yes, thank-you. I do hope that goes beyond landscape/personal trees to the forest!
Robbie Shaw to All panelists	thanks ladies that was really great
James R. McKenna to All panelists	Nice JOB!!!!
Weninegar to All panelists	Thanks from AL!! Bye