



**CHESTNUT CHAT SERIES:**  
**CHAT 29: GENOMIC SEQUENCING 101**  
**DATE: FRIDAY, OCTOBER 15, 2021**

<b>ORIGINATOR</b>	<b>QUESTION / COMMENT</b>
Michael Moroney:	Unfortunately, the squirrels must have beat me to the burrs, I cannot find them or nuts, if any.
Peter Lane:	Just collected some ripe chestnuts to be baked into bread that I'll bake. Usually tastes goood.
Sara Fern Fitzsimmons:	Peter that sounds great! Wish I could have a slice!
David Driscoll:	This is an excellent presentation.
Sky Stephens:	Very nicely done Nathan!
John Caruso:	Thank you
Alan Beattey:	Have the most resistant "American" hybrid chestnuts been DNA sequenced?
Sara Fern Fitzsimmons:	Hi Alan -- Yes, they have. TACF has now sequenced over 1800 hybrids w/in its breeding program and will be using that information toward highlighting areas of these genomes which may contribute to disease resistance.
Alan Beattey:	Thanks
Tom B:	Great book!
good:	have you ever contemplated the idea that fungi can change faster than the trees we are breeding?
Douglas McLane:	Jared, you say that Chinese trees have been somewhat domesticated in Asia. Are there still 'wild' Chinese chestnut trees in Asia? If so, how do they differ from the cultivars being grown?
Sara Fern Fitzsimmons:	Hi good - Yes, fungi can change rapidly. The reason we want multiple pathways for resistance is exactly for that reason. There is little evidence that the chestnut blight fungus or P cinnamomi would evolve rapidly to overcome a resistance mechanism, but it could over time. Therefore, having multiple pathways of resistance is a good idea.
Sara Fern Fitzsimmons:	Hi all - I'm going to lose track of your questions here in the Chat. could you please put them over in the Q&A module? Thanks! Sara
Douglas McLane:	Jared, what evidence do we have that LSA trees have survived actual blight infections?
Sara Fern Fitzsimmons:	Hi Doug - please put your questions over in the Q&A module
JULES:	To all participants, please click on the Q&A icon (bar below presentation) to ask questions.
Kendra Collins:	To all participants, please click on the Q&A icon (bar below presentation) to ask questions.
Tom B:	This was excellent! Thank you!!