



CHESTNUT CHAT – Q & A
CHAT # 25: CONTROLLED POLLINATIONS
DATE: FRIDAY, JUNE 18, 2021

QUESTION	ASKER NAME	ANSWER(S)
What is the closest college curriculum to Washington DC that includes wood identification?	Anonymous Attendee	live answered
"Have you tried 24/7 high light like they use in other hydroponics?	Tim Eck	live answered
If your work is producing pollen in 6-8 months, is the pollen sexually mature? Or is this comparable to premie babies?	tmorgan	live answered
Is it possible that the 16-hour stress situation causes the pollen itself to be wierd in some way, making the pollen itself less viable?	Mike Aucott HDP	live answered
Are these seedlings making pollen within a year of starting the extreme photoperiod?	John Hempel	live answered
What temp is frozen pollen stored?	gordon	live answered
why does the water need to be acidic?	Cindy Kuster	live answered
It is my understanding that during the carbonaceous period when many coal seams were laid down that atmospheric CO2 was much higher than today. Have there been any attempts to introduce higher CO2 levels in the light chambers to speed growth?	Clark Beebe	live answered
Can a household freezer be used to freeze pollen or are lower temps required?	Fred Behringer	live answered
why not do it in laminar flow hoods. to keep out pathogens	Robert Gilman	live answered
In the outplanting picture, what is the 3' square black material around the trunks of the saplings? Is it permeable or non?	tmorgan	live answered
How do you address the spiraling root issue in potted plants?	tmorgan	live answered
Can't you use a soil drench insecticide systemically or a fungicide soil drench?	tmorgan	live answered



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what about crisp	Robert Gilman	live answered
What are some of the methods to control pests in Lily's enclosure?	gordon	live answered
(That was subsequently answered, of course.)	John Hempel	live answered
Cost of the building fully equipped ?	Evan Fox	live answered
Are the transgene seedlings homo or heterozygous for the blight gene?	nurul faridi	live answered
How can we identify homozygous for the transgene?	nurul faridi	live answered
Hi, I own 10 acres of mature oak trees. Once transgenic is approved, what would planting them here look like? Clear-cut and start from scratch, or prune some of the oaks and wait for the chestnuts to mature?	John	live answered
I missed the first 10min if this was covered, but if not, does one have to be in an academic center or something of the sort to be able to get pollen?	John Hempel	I would get a hold of Tom directly on this...it's about APHIS permit.
Have you used inoculated biochar in your growing medium? -Jessica	8Amishshield	live answered
Please go over your watering recommendations, seed in pots, once sprouted, seedling to 7-8 inches, once planted outside. Thank you great work.	Timothy Lori Clippinger	live answered
Will silica gel get pollen dry enough for freezing?	Tim Eck	live answered
Sorry, as I was interrupted and this may have been answered in the presentations: What happens to the seedlings after pollen is harvested?	Anonymous Attendee	live answered
Does glass slide pollen collection get all available pollen, and if not could it be improved by adding a charge to the plates?	gordon	live answered
You are conducting this experiment in Maine. What do you expect to be the growing range in the U S of the final tree product?	cabell	live answered



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1. How/when do you determine that a tree should be removed from the high light chamber? 2. Do you rotate new seedlings in as trees expire? 3. Have you established the minimum light level required to accelerate catkin production?	Steve Johnstonbaugh	live answered
How can i make our water more acidic? What should we do so the water works better for the seedlings?	LSL_-_ARM	live answered
Please let me know if my two Dunstan chestnut trees in Silver Spring Maryland would be useful for research purposes. They are both healthy, approximately 8 inches dbh, 30 feet tall, producing burrs and easily accessible by a cherry picker. bruce.b.cohen@gmail.com	Bruce	Please type this in the Chat so everyone can see your email. Thanks, Bruce.
I have had good luck with Bacillus thuringensis for fungus gnats. Mealy bugs and whiteflies are harder to control without pesticides although waterjets and insecticidal soap helps. Any experience with biocontrols?	dave	live answered
Is thomas currently using highlight in the open greenhouse setting or was that an experiment only?	Steve Johnstonbaugh	live answered
Have any crosses been made with Transgenic and the best of the B3F2?	Todd-Ross	live answered
B3F3	Todd-Ross	live answered
Diatmceaous for fungus nats	Todd-Ross	live answered
Add a charge to a slide. Rub with fur.	Jack Morris	live answered
The slightly sticky nature to pollen also helps collect as much as possible on the microscope slides! Along with static electricity.	Hannah P	live answered
you said that it is better for the water to be slightly acidic, in order to help the seedlings uptake nutrients; what should we do to make our water more acidic? Should we add a little lemon juice to the water?	LSL_-_ARM	live answered



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Tom: please say a few words about the USDA permitting process.	hmc nab	live answered
We have 60 year old forest (upstate NY) and fields that we mow 2 x per year. Could I plant chestnuts at the edge of the forest? We have lots of deer. I'd be afraid if I planted saplings that the deer would eat them or they would die from some other reason - and I would feel terrible. Are regular people planting them in fields, at the edges of forests, or where, and how protected do they need to be?	Cindy Kuster	live answered
Are your "stressed" pollen producer plants chosen for specific trait crosses?	gordon	live answered
What par level do you have Lily.	Steve Johnstonbaugh	live answered
Could you start with RO water as opposed to tatp water?	gordon	live answered
How on earth do you keep squirrels out of anything?	John Hempel	live answered
Can you use an industrial sewing machine to chain sew (ask any quilter about chain sewing!)? Jessica	8Amishshield	live answered
The mesh bags keep squirrels out of transpollinated flowers, but I gathered that USDA wants squirrels out of transgenic trees, too, right?	John Hempel	live answered
Great job everyone! Thanks!	Hannah P	