Message

From: Jennings, Susan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=B3E06D481ADC45F296232CF2DE82A8B7-JENNINGS, SUSAN]
Sent: 12/6/2017 9:42:20 PM
To: Raziano, Amanda J. (CDC/OID/NCEZID) [aqg3@cdc.gov]
Subject: RE: Azole-resistance follow up

Yes, that would be good. And could you also add: Giles-Parker, Cynthia <Giles-Parker.Cynthia@epa.gov>; Holloman, Rachel <Holloman.Rachel@epa.gov>; Johnson, Hope <Johnson.Hope@epa.gov>; Kish, Tony <Kish.Tony@epa.gov>; Jones, Arnet <Jones.Arnet@epa.gov>; Chandgoyal, Tara Chandgoyal.Tara@epa.gov
?
Thanks.

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Wednesday, December 06, 2017 4:35 PM
To: Jennings, Susan <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Great – I'll send you a calendar invite with conference line if that works.

Amanda

From: Jennings, Susan [mailto:Jennings.Susan@epa.gov]
Sent: Wednesday, December 06, 2017 4:29 PM
To: Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Subject: RE: Azole-resistance follow up

Ok, 1/11 from 2 – 3 will work. 1/22 is no longer available.

Thanks,

Susan.

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Wednesday, December 06, 2017 3:39 PM
To: Jennings, Susan <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Hi Susan,

Thanks for offering some additional times.

Either 1/11 from 2-3 or 1/22 from 2-3 would both be possible on our side.

Thanks!
Amanda

From: Jennings, Susan [mailto:Jennings.Susan@epa.gov]
Sent: Tuesday, December 05, 2017 5:33 PM

To: Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Subject: RE: Azole-resistance follow up

Fridays don't work for us, we have a lot of people who work a compressed schedule.

We could do 1/11 from 2 – 3, or 1/22 from 2 – 3, or 1/23 from 10-11 or 1-2.

Will any of those work?

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Tuesday, December 05, 2017 9:31 AM
To: Jennings, Susan <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Hi Susan,

It looks like our folks have a block that morning form 10-12. Friday, 12/12 would work at that time though.

Amanda

From: Jennings, Susan [mailto:Jennings.Susan@epa.gov]
Sent: Monday, December 4, 2017 1:04 PM
To: Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Subject: RE: Azole-resistance follow up

How about Thursday January 11, from 11 – 12?

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Monday, December 04, 2017 12:49 PM
To: Jennings, Susan <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Hi Susan,

My apologies for not including the name below. Jay Garland was the individual we heard from and met with previously.

I think we can look at the new year if that's better for your staff. Just let us know what would work best.

Amanda

From: Jennings, Susan [mailto:Jennings.Susan@epa.gov]
Sent: Monday, December 4, 2017 12:22 PM
To: Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Subject: RE: Azole-resistance follow up

Thanks for the info. Can you tell me the name of the ORD person you've been in touch with? I remember Gardner, but can't remember the first name and there is more than one.

I'm working on getting a complete list of people in OPP who are interested. In the meantime, did you want to hold this before or after the Christmas break. We have a lot of people taking leave this time of year, but if you want to do it before we can do our best.

Thanks,

Susan.

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Thursday, November 30, 2017 11:19 AM
To: Jennings, Susan <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Good morning Susan,

Attached is the statement of work for the BAA project listed below. Thank you again for helping to coordinate!

Amanda

From: Raziano, Amanda J. (CDC/OID/NCEZID)
Sent: Wednesday, November 29, 2017 5:21 PM
To: 'Jennings, Susan' <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Hi Susan,

Thank you again for taking the time to connect yesterday and set me straight on who's on first on your side ☺ Our fungal folks would love to reconnect with the SMEs on the last call to follow up on some of their data discussion as well as share a little bit about a BAA that was awarded for some additional work on azole resistance. There is a very brief description on our website (https://www.cdc.gov/drugresistance/solutions-initiative/innovations-to-slow-AR.html):

University of Georgia Research Foundation, Inc.

Azole resistance in agricultural settings

Researchers will collect and characterize azole-resistant fungal strains from agricultural and horticultural sites. Azoles are used to protect crops from fungi, but azole-resistant fungi can infect people and cause disease that is difficult to treat and can lead to death.

I am checking on what else we can send to you for background and will follow up soon. Also, as discussed, I'm attaching slides from a presentation that he gave here at CDC in late July. Let me know if they don't come through and I'll try to convert to pdf.

After a quick scan of calendars, it looks like we have the most flexibility for a call on a Mon, Wed or Fri over the coming weeks. If there are dates/times you want to propose, I can look in more detail.

Thanks!
Amanda

From: Jennings, Susan [mailto:Jennings.Susan@epa.gov]
Sent: Tuesday, November 28, 2017 9:15 AM
To: Giles-Parker, Cynthia <Giles-Parker.Cynthia@epa.gov>; Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Subject: RE: Azole-resistance follow up

Yes, I would be happy to coordinate from our side. Are you available to talk about this sometime? I'm fairly available for the next couple of weeks, please feel free to suggest a time or give me a call.

Thanks,

Susan.

Susan Jennings
Senior Advisor for Public Health
Office of Pesticide Programs
(706) 355-8574 (office)
(703) 216-8627 (cell)

From: Giles-Parker, Cynthia
Sent: Tuesday, November 28, 2017 9:12 AM
To: Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Cc: Jennings, Susan <Jennings.Susan@epa.gov>
Subject: RE: Azole-resistance follow up

Hello Amanda,

I have copied Susan Jennings on this email regarding your request for a meeting. Susan will be your contact on this topic. Hopefully, she will be able to coordinate a meeting between our agencies.

Regards,
Cynthia

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Monday, November 27, 2017 3:38 PM
To: Giles-Parker, Cynthia <Giles-Parker.Cynthia@epa.gov>
Subject: RE: Azole-resistance follow up

Hello Cynthia,

I am following up on the email below to see if the folks we connected with earlier this year might be available for another call to discuss additional work around azole resistance. I hope you enjoyed the Thanksgiving holiday!

Best,
Amanda

From: Raziano, Amanda J. (CDC/OID/NCEZID)
Sent: Thursday, October 19, 2017 9:40 AM
To: Giles-Parker, Cynthia <Giles-Parker.Cynthia@epa.gov>
Cc: Jackson, Brendan R. (CDC/OID/NCEZID) <iyn0@cdc.gov>; Litvintseva, Anastasia P. (CDC/OID/NCEZID) <frq8@cdc.gov>; Chiller, Tom (CDC/OID/NCEZID) <tnc3@cdc.gov>; Lockhart, Shawn (CDC/OID/NCEZID) <gyi2@cdc.gov>; Sievert, Dawn M. (CDC/OID/NCEZID) <alz1@cdc.gov>; Benjamin, Lynette E. (CDC/OID/NCEZID) <bil0@cdc.gov>
Subject: Azole-resistance follow up

Good morning Cynthia,

I hope this email finds you well. We have been able to extend our work around azole resistance and fungicide use through another targeted project and wanted to see if there might be a good time to provide an update for those interested on your side.

Please let me know if there's a good date/time to reconnect.
Best,
Amanda

From: Giles-Parker, Cynthia [mailto:Giles-Parker.Cynthia@epa.gov]
Sent: Wednesday, June 21, 2017 8:53 AM
To: Raziano, Amanda J. (CDC/OID/NCEZID) <aqg3@cdc.gov>
Cc: Jackson, Brendan R. (CDC/OID/NCEZID) <iyn0@cdc.gov>; Litvintseva, Anastasia P. (CDC/OID/NCEZID) <frq8@cdc.gov>; Chiller, Tom (CDC/OID/NCEZID) <tnc3@cdc.gov>; Lockhart, Shawn (CDC/OID/NCEZID) <gyi2@cdc.gov>
Subject: RE: Thank you!

Hello Amanda

Thanks for the additional information identified below. I have listed the participants on the call yesterday. There are a couple of items that we need to follow up on to continue our discussion on the azoles which I have also listed below:

Participants on call:

Cynthia Giles-Parker, Offices Pesticide Programs (OPP)/Registration Division (RD)/Fungicide Branch (FB)
Rachel Holloman, OPP/RD/Fungicide Herbicide Branch
Hope Johnson, OPP/RD/FB
Tony Kish, OPP/RD/FB
Susan Jennings, OPP/Immediate Office/Public Health Officer for OPP
Arnet Jones, OPP/Biological and Economic Analysis Division (BEAD)/Immediate Office
Tara Chandgoyal, OPP/BEAD/Biological Analysis Branch
Tracy Perry, OPP/Pesticide Re-evaluation Division (PRD)

Action Items:

Search use information on registered conazoles. Try to provide non-confidential version of information
Fungicide Resistance Action - check to see if any reports on pathogen resistance and Aspergillus resistance
http://www.frac.info/
USDA – query if any information on resistance in peanuts or other crops, make USDA aware of concern
Search if USGS has any water information/monitoring on conazoles

Look forward to our continued discussions and next steps on this topic.

Cynthia

From: Raziano, Amanda J. (CDC/OID/NCEZID) [mailto:aqg3@cdc.gov]
Sent: Tuesday, June 20, 2017 5:41 PM
To: Giles-Parker, Cynthia <Giles-Parker.Cynthia@epa.gov>
Cc: Jackson, Brendan R. (CDC/OID/NCEZID) <iyn0@cdc.gov>; Litvintseva, Anastasia P. (CDC/OID/NCEZID) <frq8@cdc.gov>; Chiller, Tom (CDC/OID/NCEZID) <tnc3@cdc.gov>; Lockhart, Shawn (CDC/OID/NCEZID) <gyi2@cdc.gov>
Subject: Thank you!

Cynthia,

Thank you again for helping to facilitate the conversation today. It was very helpful to get feedback from your colleagues and we appreciate the offers for additional information sharing and future communications.

I wanted to be sure you had the names and contact information for our experts on the call today, including Shawn, our Fungal Reference Laboratory Director who wasn't able to join. Please feel free to share with those in your office as appropriate. If you are able to share a list of the folks on the call with us, we would appreciated it as well. We are happy to work through you or appropriate channels for communications, but I don't think we fully caught all the names and offices during the introductions.

> Tom Chiller, MD MPH – Chief, Mycotic Diseases Branch, Division for Foodborne, Waterborne & Environmental Disease, National Center for Emerging and Zoonotic Infectious Diseases
> Brendan Jackson, MD MPH – Deputy, Mycotic Diseases Branch, Division for Foodborne, Waterborne & Environmental Disease, National Center for Emerging and Zoonotic Infectious Diseases
> Shawn R. Lockhart, PhD (ABMM) – Director, Fungal Reference Laboratory, Division for Foodborne, Waterborne & Environmental Disease, National Center for Emerging and Zoonotic Infectious Diseases
> Anastasia Litvintseva, PhD – Lead, Fungal Research Team, Mycotic Diseases Branch, Division for Foodborne, Waterborne & Environmental Disease, National Center for Emerging and Zoonotic Infectious Diseases

We also wanted to share a couple additional references:

A link to information on the European CDC Risk Assessment for azole resistance in Aspergillus: http://ecdc.europa.eu/en/press/news/_layouts/forms/News_DispForm.aspx?List=8db7286c-fe2d-476c-9133-18ff4cb1b568&ID=32

2015 invited article on azole resistance (attached): Verweij, PE. Azole resistance in *Aspergillus fumigatus:* can we retain clinical use of mold-active antifungal azoles? J Clin Infect Dis.

Best,
Amanda

Amanda Raziano MPH
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