

CURRENT AND EMERGING THREATS TO CROPS: BUILDING THE KNOWLEDGE BASE

CHAT TRANSCRIPT

OCTOBER 21, 2020

PRESENTERS

Dr. Robert Bertram, USAID Bureau for Resilience and Food Security

Dr. Angela Records, USAID Bureau for Resilience and Food Security

Dr. R. Muni Muniappan, Feed the Future Innovation Lab for Integrated Pest Management

Dr. B. M. Prasanna, CIMMYT Maize Program

Dr. Gael Pressoir, Faculty of Agricultural and Environmental Sciences, Quisqueya University

MODERATOR

Tor Edwards, USAID Bureau for Resilience and Food Security

Adam Ahmed - Agrilinks: Greetings everyone, we will begin the webinar in about 40 minutes. Thank you for your patience.

Viktor Kommerell: from Hamburg, Germany

Eugene Ofori: hi i am from Accra, Ghana

Adam Ahmed - Agrilinks: Welcome Viktor and Eugene!

Gerry LaRue: Hello everyone., from Fort Worth, Texas

namgay thinley: This is Namgay Thinley from Bhutan. I work as Chief Agriculture Officer for the Department of Agriculture under Ministry of Agriculture and Forests.

Diba Wako: Diba Dida Wako from Kenya, working for USAID Somalia

Marilyn Balderas: Hi everyone Marilyn Balderas from Camarines Sur , Philippines

Reuben Mutofwe: Hi Reuben Mutofwe from Zambia SNV.

ANDREW MEDLICOTT: Hello - Andy Medicott, from Honduras

Mary Barbercheck: Mary Barbercheck, Penn State University, US

Zia Ahmed: Hi everyone, this is Zia Ahmed! Good evening from Dhaka, Bangladesh!

Ishrat Jahan: This is Ishrat Jahan from IFDC

Jennifer Sjölund: Hi, this is Jennifer Sjöund from the International Foundation for Science, Stockholm, Sweden.

Ivan Rwomushana: Ivan Rwomushana, CABI Africa, Nairobi

Naidu Rayapati: Good motning everybody. This is Naidu Rayapati from Washington State University.

Barbara Godlew: University of Illinois at Urbana-Champaign

Rangaswamy Muniappan 2: Muni Muniappan, IPM Innovation Lab, Virginia Tech

Abdul Rehman: Morning. Abdul Rehman from Pakistan

Dan Makumbi: Hello Everyone. Dan, CIMMYT Nairobi, kenya

JULIE ABISGOLD: Julie Abisgold, AgDevCo

Suresh Mahabaleswara: Hello Everyone ,, Suresh CIMMYT

Sara Hendery: Good morning! Sara Hendery, IPM Innovation Lab, Virginia Tech

Dr. Md. Salim Ullah Khan Eusufzai 2: Hello everyone: I am Dr. Md. Salim UllaH Khan Eusufzai, IUBAT, Bangladesh

LEWIS KAMIRI: Jambo, Lewis is on.

Senbeto Funte: Hellow everyone, Senbeto Funte, Mercy Corps, Ethiopia

Netlyn Bernard: Hi Everyone.

Dr. Md. Salim Ullah Khan Eusufzai 2: Prof. Dr. Md. Salim Ullah Khan Eusufzai, IUBAT, Bangladesh

Rob Bertram: Welcome everyone, we're delighted that you are here!

KV Raman 2: Karim Maredia, Michigan State University

Jan Low: Great to see this happening. Jan Low from Intl Potato Center in Nairobi

Elsa Murano: Elsa Murano from the Borlaug Institute at Texas A&M University, really looking forward to the presentations!

Md. Mehedi Hasan: Mehedi Hasan, USAID/Bangladesh

Liana Calegare: Hello everyone! Liana Calegare from the Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln

Pepijn Schreinemachers: Hello from World Vegetable Center, Thailand!

Paul McNamara: Hello everyone! Paul McNamara from University of Illinois AgReach

David Resetar: morning

Jean Ristaino: Hello from NC State Emerging Plant Disease and Global Food Security Cluster

Allan Hruska: Allan Hruska, Michigan State University

Wondi Mersie: Good Morning: Wondi Mersie from Virginia State University

Donald Tambunan: Hi everyone. Greetings from Jakarta.

Patricia Neenan: Hello all Patricia neenan from CABI

Daniel Otwani: Hallo, all, Daniel Otwani from the University of Western Australia

tim johnson: Tim Johnson with IFSI & QBS Board member

Roger Day: Roger Day, CABI

Orry Pratt: Orry Pratt, FAO Subregional Office for Eastern Africa

Alex Winter-Nelson: Hello All, Alex Winter-Nelson from the University of Illinois here.

Fouzia Nasreen: Hi everyone, this is Fouzia from Canada

Melanie Miller Foster: Hello, Melanie Miller Foster from Penn State University

Gary Alex: Hello, all! Gary Alex -Virginia, USA.

Bill Thomas: Bill Thomas, BEO for RFS

Richard Tinsley: Dick Tinsley from smoky burning Colorado

Rachel Percy: HI everyone. Rachel Percy, freelance agricultural innovation consultant and a CRP review team member

Adam Ahmed - Agrilinks: Hi Dick, stay safe out there my friend

Lucinda Charles: Lucinda Charles, CABI

Cambria Finegold: Brie Finegold from CABI

Abdu Beshir 2: Hello every one, Abdu from CIMMYT Nepal

Rafiqul Islam: Hello everyone, Rafiqul Islam from IRRI Bangladesh, hope all of you are well.

Abdeljalil Mouhafid: Hi! Glad to attend from Morocco

Stas Burgiel: StaS Burgiel, NISC (US)

LALIT SAH: Hi Everyone, Its LALIT from FTFNIPM/iDE Nepal. Wish everyone healthy and safe..!!

Munyaradzi Jonga: Munyaradzi Jonga from AATF, Kenya

David Tinsley: Good morning, David Tinsley, Virginia tech

Laura Doughty: Hi everyone. Laura Doughty from CABI

ROYSTON CARTER: Royston Carter, consultant

Adrian Self: good morning all Adrian Self from K-State University/National Ag Biosecurity Ctr

Myra Emata-Stokes: Hi, Is there also a call-in number for the event?

Lisa Lauxman: Hi, Lisa Lauxman, Consultant, former USDA NIFA, Wash., D C

Adam Ahmed - Agrilinks: Hi Myra, there is no call in number for this event

David Mowbray: Hi everyone, David Mowbray, Farm Radio International, based in Ottawa Canada our
owrk is in Africa

Patrice Thomas: Good morning all

Patrice Thomas: I work for DAI in the Agriculture, Market System and Resilience Practice

Jan Kreuze: Good morning everyone, looking forward to learning more about this increasingly important
topic

eric bergthold: Hi. Good morning from the University of Arizona in Tucson. Eric Bergthold, Office of
Global Projects

KV Raman 6: No sound

Romalene Limpiada 2: Hi everyone!

Corey O'Hara: Hi all, Corey O'Hara from iDE Nepal. Glad to see this so well attended!

Abdeljalil Mouhafid: @David Mombray Hope to meet in Morocco and chat abt Ag business in Morocco

Jane Ininda: Hi All, Jane Ininda here

Esther Ngumbi: Good morning. Esther Ngumbi, University of Illinois at Urbana Champaign

May-Guri Saethre: May-Guri Sæthre, NIBIO Norway

Dan McGrath: Good Day everyone - this is Dan McGrath

Alberto Dança: Hi everyone, Dança from Mozambique/Dondo

JD Newman: Good day to all - glad to be listening in - Ibex Group HQ in Atlanta

John Mark Muwangala: Hi all, John Mark Muwangala from Uganda. Glad to meet you all.
jmark@ichuliconsulting.com

Tor USAID/Uganda: Reminder to all, please enter any questions you may have here.

Dan McGrath: What is the meaning of life?

Dan McGrath: (just kidding)

Stephen Farinmade: Hi everyone, Stephen from Nigeria

Paul Rugambwa: Good day all. Am with EcoSecure Holdings Ltd a private sector in Rwanda

JULITO IITUMAY: Hi from the the Visayas, Phillippines.

Farhad Hossain: Farhad Hossain, USAID/Bangladesh

Stephen Walsh: Question: Measuring the counterfactual - crops & money saved via mitigation / control- of Pest and Pathogen is a big challenge. Do we we have any standard protcole / lessons for making these estimates?

Syed Ali: Syed Akbar Ali, Karachi Pakistan

Carl Wahl: Carl Wahl, Concern Worldwide - remote from Baltimore

Eugene Ofori: can the same parasitoid be used to control the cocoa mealybug?

Raul Itong: Good evening, Food for the Hungry, Philippines

Peter Goldsmith 2: Pete Goldsmith Here, soybean innovation lab. Hello everyone.

JULITO IITUMAY: Good evening, Food for the Hungry, Phillippines.

Patrice Thomas: when projects get hold of these threats, how do they connect to experts for solutions?

Roger Day: Classical biocontrol is/should be regulated by national authorities. But regulatory systems are often weak and can end up hindering the use of biocontrol. What can be done to address this?

Eugene Ofori: the scientific name for the cocoa mealybug is Planococcus lilacinus, can you please suggest any parasitoid to control the mealy bug?

Javier Chaparro: What is the risk of these biological controls attacking useful crops once they have controlled the pests they were intended to control?

Abdu Beshir: Dear Muni thanks for the great PPT and happy to see the effort of eradicating parthynium in Ethiopia.

LALIT SAH: Thank you Dr. Muni for interesting presentation and your great work on the IPM and Biological Control globally

Dan McGrath: Muni, good to hear your voice. May you and yours be well.

Donald Tambunan: Will the biocontrol agents survive once the target organisms dissapear? How long will they remain active after they are released in the field?

Peetambar Dahal: Just sharing the link on the need to minimize food toxins and monitoring in LMICs. PIIS2542519620301431. Definitely, IPM is one important actor in overall goal to minimize food toxins.

Wondi Mersie: Wondi Mersie: Excellent presentation on biological control of two major pests. Parthenium remains a major threat to food security, biodiversity and human health in Africa.

Richard Tinsley: you mention hybrids lines do you also have some composite line for which the seed can be retained from season to season, and avoid the massive logistic of getting hybrid seed to remote areas?

Dr. Md. Salim Ullah Khan Eusufzai : I can't see the presentation

Dr Lalu Prasad Yadav: ppt isn't coming

Jean Ristaino 2: Since MLN is primarily transmitted in seed, what efforts are being made by CIMMYT to track spread in African seed systems and prevent future introductions of this or other virus problems? Second, what strains of the virus have emerged in Africa and will CIMMYT lines be resistant to most of them?

Dr Lalu Prasad Yadav: may I have the presentation please on Lalu.Yadav@icar.gov.in

Adam Ahmed - Agrilinks: Lalu, the presentation slide deck is available to download from the file downloads pod

Dr Lalu Prasad Yadav: ok

JULITO IITUMAY: If MLN is caused by viral infection, any possibility for human or livestock infection?

Naidu Rayapati: We recently published the following review article that might be useful for all agricultural scientists in developing countries globally:

Mosisa Worku Regasa: Thanks all

Naidu Rayapati: Jones, R. and Naidu, R.A. 2019. Global dimensions of plant virus diseases: Current status and future perspectives. Annual Review of Virology 6:387-409.

Stephen Walsh: Question: What is the tolerance / resistance level of the lines? Re-infection feasible in field?

Richard Tinsley: Thank you for addressing the issue,

Carl Wahl: @Richard Tinsley - It would likely fall on governments to transfer these traits into composite varieties.

ROYSTON CARTER: Are lines equally resistant to both viruses? Is it the same mechanism of action?

Dr. Md. Salim Ullah Khan Eusufzai : PPT is OK

Senait Senay: To Dr Lalu Prasad Yadav: you can download it from the "File Downloads" window within the Adobe Connect window for the webinar.

Dan McGrath: Thank you Prasanna. Busy?

MD. SHAHADATH HOSSAIN: From Dr. Shahadath, BARI, Bangladesh: Hi Dr. Muni and Dr. Naidu. Nice to see both of you

MD. SHAHADATH HOSSAIN: Hi Lalit!!

Abdul Qayoom Rajput: it is not connect with laptopbut

LALIT SAH: Hi Dr. Naidu, Dr. Shahadath, Nice and Happy to see you Virtually in this great Webinar..!
Wish you safe and healthy in current pandemic.. Take care..!

KV Raman 6: For current and emerging threats are national plant protection quarantine systems adequately supported to use modern tools for diagnostics and risk assessment? Is there a need for capacity development?

Abdul Qayoom Rajput: any attendance sheet

Roger Day: To all speakers: how could the response to the new pests you talked about have been improved/hastened, at national/international level?

Patrice Thomas: For Dr. Pressoir, how do you commercialize the improved varieties, since you are a university. What is your market channel to allow this improved variety to reach farmers?

Stephen Walsh: Question: Dr. Gael - Can you comment on pest impacts of sorghum diversity in Haiti. sorry If you noted and i missed this.

JULITO IITUMAY: Why sorghum? Why not Maize? Is sorghum a staple food in Haiti?

Edouard Nizeyimana: Sorghum is a commodity recommended for the arid and semi arid regions, with all these threats what do we do to safeguard sorghum in the context of climate change?

Donald Tambunan: Would you expect that these improved variety will perform well in other countries of relatively similar agroclimatic conditions?

Rangaswamy Muniappan 2: Ofori: Please send me an email message after this webinar at rmuni@vt.edu

Stephen Walsh: Thank you for your response.

Senait Senay: How does the IPM innovation lab prioritize pests, diseases or weeds for research?

Stephen Walsh: Happy to know there is effort to recover / protect farmer varieties.

Gael Pressoir: Note we are recruiting a faculty position or a PostDoc in pathology if anyone is interested in moving to Haiti

Gael Pressoir: Gael H Pressoir, PhD Doyen de la Faculté des Sciences de l'Agriculture et de l'Environnement Vice-Recteur adjoint à la recherche Directeur et chercheur au Chibab Université
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Gael Pressoir: gael.pressoir@univ.edu

Rangaswamy Muniappan 2: USAID identifies countries in which IPM Innovation Lab participates. In collaboration with national stakeholders IPM Innovation Lab collaborating scientists from U.S. prioritize pests in each country.

Stephen Walsh: Xanthomonas wilt, BBT....

Peetambar Dahal: Perhaps it is time to have one more Innovation lab on food toxin monitoring as food toxins are also traded across borders especially in LMICS primarily due to lack of sensitive monitoring systems.

Viktor Kommerell: Indeed Rob. Wheat blast in Zambia.

Ishrat Jahan: Dr. Bertram FAW was also found in Myanmar and IFDC worked with funding from USAID to combat this disease.

Thomas Akol: Thomas Akol: what is the rate of economic damage caused by the wheat Blast? Is it also a sign of deteriorating soil fertility or caused due to other factors?

Stephen Walsh: CMD / Cassava in SE Asia.

Gary Alex: I suppose that with population growth, greater intensification of production systems, and globalization of markets and trade, there is a natural vulnerability to wider spread of pests and diseases. To what extent is there potential to strengthen regulatory systems to reduce spread between countries and regions?

Rob Bertram: Yes Ishrat, you are right! USAID sponsored regional workshops in Asia with our mission and NARS partners, including those from Myanmar

Abdu Beshir: Dear Rob, thanks for the great work you are spearheading across the globe under FtF - BRFS, Kudos!

Rob Bertram: Thanks Viktor!

Lisa Lauxman: Research is critical and so is the extending of research into practical application... how will the ag research agenda work with public and private extension sector partners?

Tor USAID/Uganda: It's important to involve the Mission teams to promote these research-based solutions in the field

Viktor Kommerell: FYI: All-CGIAR+CABI working group on plant health crops pests & diseases just set up. Aim: Describe 2022+ CGIAR value proposition. Graham Thiele and myself coordinate.

Rob Bertram: Great point Tor...

Utpal Barman: Quality of pesticides is also major concern along with non-judicious application of pesticides.

Elsa Murano: Great presentations! Just wanted to know whether there are specific countries or regions that the new Lab should focus on?

James Woolley: Would the IL consider a similar lab for current and emerging threats to livestock?

Syed Ali: how can private startups get in connection with FtF or Cabi

Rob Bertram: Hi James, our work in Animal Health is a good case in point. But i can assure you we are thinking about that, recognizing both the impacts on the livestock sector directly but also One Health concerns.

Diana Horvath: Will biotechnology be supported as an approach to develop durable resistance strategies?

Cambria Finegold: @Syed - I'm happy to be a CABI contact (I'm Global Director, Digital Development) - c.finegold@cabi.org

James Woolley: Thanks a lot Rob.

Syed Ali: @Cambria. Thanks. I will surely connect with you w

Allan Hruska: Thanks! Can you talk to current thinking about priorities for the new design? Which Crops? Geographic focus? Partners? Focus on Prediction or Response? Types of farmers? Regional systems? Any synergy with the new Gates project on plant health in East Africa?

LALIT SAH: Many thanks to USAID team and all Speakers for great today presentations. Hope the new USAID's design activities on New threats and emerging pest would have prioritize the crop pests, diseases and weeds which is more threats for food security mostly on the developing countries and more emphasis and address on the Biological control. Also Thanks to the great work that USAID through IPM Innovations Lab done on Crop threats helping on Food Security in developing countries.

Abdul Qayoom Rajput 2: is there any funding agencies in America to work for the biological control

JULITO IITUMAY: Tanks for answering my question. Great information.

Gael Pressoir: @Julito

Gael Pressoir: our sorghum are tested in the spring and autumn + summer ; yield stability is one of our target so we expect them to behave well in a great amount of places

Gael Pressoir: We are happy to share germplasm

May-Guri Saethre: To Rob: Prevention of introductions are far less costly than management, could we do both?

Simone Buechler: Will implementing organizations, INGOs with field offices, be able to be formal partners in the Innovation Lab?

Rob Bertram: Hi May-Guri, yes absolutely correct...and our hope ideally is that research can also help better inform other type of control like SPS too, but yes absolutely

Liana Calegare: to Tob: is there currently an Innovation Lab on One Health ?

Syed Ali: email of FtF?

James Woolley: Thanks a lot for this webinar!

Utpal Barman: Thanks to organiser and presenter for providing important information.

Jean Markendy CHARLES 2: Thank You!!!!

Dan McGrath: Thank you Tor. Well met.

Paul McNamara: Thank you for the very helpful presentations

Donald Tambunan: Thank you all!

Abdu Beshir: Thanks and bye!

Rob Bertram: Thanks all!

May-Guri Saethre: thnak you

Patricia Neenan: thank you all

LALIT SAH: Thank you all..! Byeee Take care.!

Alex Winter-Nelson: thanks to all the presenters and organizers

Abdul Qayoom Rajput 2: bye

Gael Pressoir: Thank you everyone

Senait Senay: Thank you everyone.

Adam Ahmed - Agrilinks: Thank you so much everyone, really great questions. We will be sending the post-event resources to all of you early next week, including a recording of the webinar.

Utpal Barman: Thank you all

Alberto Dança: Thanks for the very comprehensive presentations, Greetings from Food for the Hungry Mozambique

Wondi Mersie: Thank you to the presenters and organizers

Marilyn Balderas: thank you all

David Resetar: thanks

Stephen Farinmade 2: thanks

PH Zaidu: Great,very knowlegeable! New insights!

Keith West: Excellent presentations and appreciated the links to nutrition !

Adam Ahmed - Agrilinks: Happy to hear you enjoyed the presentation. We will see you all at the next Agrilinks webinar.