CAST Publication Impacts Report

The Science Source for Food, Agricultural, and Environmental Issues



CAST Issue Paper 68

Agriculture and the Microbiome

Released August 24, 2020

Co-Chairs: **Drs. Ignazio Carbone and Megan Andrews**, North Carolina State University; 17-member task force

Release/Rollout

CAST Issue Paper 68, "Agriculture and the Microbiome," was released on August 24, 2020. On August 25, Drs. Ignazio Carbone and Megan Andrews presented highlights of the paper in a webinar followed by Q&A with a panel of task force authors—Elizabeth Stulberg, Gregory Maloney, and Carolyn Young. There were 653 registrants for the webinar with 282 attendees.

<u>Webinar Video</u> – 829 views as of August 11, 2022 <u>Link to commentary</u>, Ag quickCAST, student study guide, webinar video, and Q&A

In-kind Contributions: 270 volunteer hours; \$19,980 monetary value

Press Release (results two weeks after release)

- Distributed through <u>Constant Contact</u>, <u>PRWeb</u>, and the <u>CAST website</u>.
- Press release went to 8,544 e-contacts resulting in 3,671 opens
- 591 views of the press release from the CAST website as of February 24, 2022.
- The press release through PRWeb resulted in 1,832 views and reached 886 targeted influencers (journalists/bloggers).

103 media outlets posted the press release. A sampling of sites where the press release was picked up: AgriTech Tomorrow, RFD-TV, News Break, NAAE Communities of Practice, Journal of Commercial Biotechnology, eGreenews, Biotechblog, One News Page (U.S. and Global Editions), Markets Insider, Ask.com, Scoop.it, Seed Daily, Owler, and many daily news and business journal sites, and regional news channels (ABC, CBS, CW, FOX, NBC)

Follow-On Activities

American Society of Agronomy/Soil Science Society of America, 1 CEU was offered to certified crop advisors for watching the webinar

Email comments received following webinar:

Thank you very much for the paper Agriculture and the Microbiome, very important contribution for the comprehension of this area of knowledge for us.

SEC, Facultad de Ingeniería Agraria, Industrias Alimentarias y Ambiental

Thank you for your work around the recent microbiome zoom meeting. I hope that it received broad participation, as it seems there is an extraordinary amount of work to do. As a fellow communicator, I am aware that our work is mostly in the background. The session was well orchestrated on your part.

DRM, Outreach Strategist US|Africa|Asia

Paper Distribution

Paper Distribution (print and online) 2 years after release - 3,113

Indirect Paper Distribution

AgriTech Tomorrow (link to paper)

https://www.agritechtomorrow.com/whitepapers.php

EBSCO

Phytobiomes Alliance (link to paper)

https://phytobiomesalliance.org/all-news/

https://phytobiomesalliance.org/people/kellye-eversole/

Policy Commons https://policycommons.net/artifacts/1693466/publication-impacts-report/2425114/

Articles and Web Mentions

American Society of Agronomy

https://www.agronomy.org/science-policy/sspr/2020-08-05/

America's Farm Report

http://americasfarmreport.com/farm-report/usda-tightens-eligibility-rules-for-farm-subsidies-august-24-2020/

North Carolina State University CALS News

https://cals.ncsu.edu/event/agriculture-and-the-microbiome-cast-webinar/

North Carolina State University CALS News, For the Next Agricultural Revolution, Look to the Microbiome, Dee Shore, August 24, 2020

https://cals.ncsu.edu/news/for-the-next-agricultural-revolution-look-to-the-microbiome/?utm medium=social&utm source=twitter&utm content=cals&utm campaign=socialhub

The Ohio State University, Center of Microbiome Science

https://u.osu.edu/coms/events/

Citations

Fungal Genetics and Biology, *Genetic map and heritability of* Aspergillus flavus, Richard M. Gell, B.W. Horn, I. Carbone, November 2020,

https://www.sciencedirect.com/science/article/pii/S1087184520301699?casa_token=-QFfQ879g8YAAAAA:krH8fQgvnjF7c1hoa3UwrZ1poGxKGWVEhm1zcD6lSJqpCJ-

toX kD9z7JamF2qTXUY3ZFBsHPbnd

Critical Reviews in Food Science and Nutrition, *Practical considerations will ensure the continued success of pre-harvest biocontrol using non-aflatoxigenic Aspergillus flavus strains*, Geromy G. Moore, January 28, 2021 https://www.tandfonline.com/doi/full/10.1080/10408398.2021.1873731

Portland Press, Emerging Topics in Life Sciences, *Plant growth-promoting microbes* — *an industry view*, Natalie W. Breakfield, Dayna Collett, Michael E. Frodyma, February 18 2021 https://doi.org/10.1042/ETLS20200313

Society for Applied Microbiology, Can it be all more simple? Manufacturing aflatoxin biocontrol products using dry spores of atoxigenic isolates of Aspergillus flavus as active ingredients, Alejandro Ortega-Beltran, Lawrence Kaptoge, Amadou L. Senghor, Morounranti O. S. Aikore, Patrick Jarju, Henry Momanyi, Matieyedou Konlambigue, Titilayo D. O. Falade, Ranajit Bandyopadhyay, First published: 23 March 2021 https://doi.org/10.1111/1751-7915.13802

Creating Prosperity from Chaos: A CAPI presentation at the big solutions forum trusted opinion leaders predialogue, *The Canadian Agri-Food Policy Institute*, May 22, 2021, https://capi-icpa.ca/wp-content/uploads/2021/06/C2-2021-05-11-CAPI-BSF-Ted-Bilyea-Presentation-at-Pre-Dialogue-Component-2.pdf

The Amiercan Phytopathological Society, Root-Lesion Nematodes Affecting Dryland Cereals in the Semiarid Pacific Northwest U.S.A., Richard W. Smiley, published November 24, 2021, https://apsjournals.apsnet.org/doi/full/10.1094/PDIS-04-21-0883-FE

Fungal Biology, *Development of sexual structures influences metabolomics and transcriptomic profiles in* Aspergillus flavus, Volume 126, Issue 3, March 2022, p. 187-200. https://www.sciencedirect.com/science/article/pii/S1878614622000071

Social Media

Twitter-

Jennie Schmidt MS RD @FarmGirlJen, August 4, 2020 https://twitter.com/FarmGirlJen/status/1290690470755086336 1 retweet, 2 likes

@CASTagScience, August 18, 2020

https://twitter.com/CASTagScience/status/1295723114991583235 1 quote tweet, 1 like

@CASTagScience, August 22, 2020

https://twitter.com/CASTagScience/status/1297187426398609411 1 retweet, 2 likes

@Ron_on_RON, August 24, 2020

https://twitter.com/Ron_on_RON/status/1297934705371697152

NABC/K-State @KSU_NABC, August 24, 2020

https://twitter.com/KSU_NABC/status/1297867704624390144 1 like

David Gogerty @docgoges, August 31, 2020

https://twitter.com/docgoges/status/1300424598521962496 2 likes

Phytobiomes @PhytoBiomes, August 4, 2020

https://twitter.com/PhytoBiomes/status/1290754171969445890

1 retweet, 2 likes

AgriTechTmrw @AgriTechTmrw, August 24, 2020

https://twitter.com/AgriTechTmrw/status/1297946233596764161

1 like

@CASTagScience, August 24, 2020

https://twitter.com/CASTagScience/status/1297889067225550850

6 retweets, 4 likes

@CASTagScience, August 25, 2020

https://twitter.com/CASTagScience/status/1298251494341447681

1 retweet, 1 quote tweet, 1 like

Phytobiomes @PhytoBiomes, August 26, 2020

https://twitter.com/PhytoBiomes/status/1298693299457257472

3 retweets, 4 likes

@CASTagScience, August 26, 2020

https://twitter.com/CASTagScience/status/1298625032260853761

3 retweets, 2 quote tweets, 2 likes

Novozymes N. America @NovozymesNA, August 28, 2020

https://twitter.com/NovozymesNA/status/1299370541846089728

1 like

@CASTagScience, August 29, 2020

https://twitter.com/CASTagScience/status/1299715964414689283

1 like

Lucas Palmeira @LuPa1386, August 31, 2020

https://twitter.com/LuPa1386/status/1300461650860883970

@CASTagScience, August 31, 2020

https://twitter.com/CASTagScience/status/1300434123635462145

2 likes

Debbie Yaver @DYaver, September 11, 2020

https://twitter.com/DYaver/status/1304524375685836800

@CASTagScience, December 15, 2020

https://twitter.com/CASTagScience/status/1338858884321034245

2 retweets, 3 likes

Facebook-

Council for Agricultural Science and Technology (CAST), June 18, 2020

https://www.facebook.com/CASTagScience/photos/a.477568575671277/3091225140972261

3 likes. 1 share

Council for Agricultural Science and Technology (CAST), July 7, 2020

https://www.facebook.com/CASTagScience/photos/a.477568575671277/3142690249159083 2 likes, 1 share

Council for Agricultural Science and Technology (CAST), August 6, 2020

https://www.facebook.com/CASTagScience/photos/a.477568575671277/3226535217441252 2 likes, 1 share

Council for Agricultural Science and Technology (CAST), August 13, 2020

https://www.facebook.com/CASTagScience/photos/a.477568575671277/3246630672098373

Council for Agricultural Science and Technology (CAST), August 18, 2020

https://www.facebook.com/CASTagScience/photos/a.477568575671277/3261212807306826

Council for Agricultural Science and Technology (CAST), August 22, 2020

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https://www.facebook.com/CASTagScience/photos/a.477568575671277/3278927662202007 1 like, 1 share

Council for Agricultural Science and Technology (CAST), August 25, 2020

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Council for Agricultural Science and Technology (CAST), August 26, 2020

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Council for Agricultural Science and Technology (CAST), August 29, 2020

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Council for Agricultural Science and Technology (CAST), August 31, 2020

https://www.facebook.com/CASTagScience/photos/a.477568575671277/3300626793365427

Council for Agricultural Science and Technology (CAST), December 15, 2020

https://www.facebook.com/CASTagScience/posts/3624170384344398 2 likes, 1 share

LinkedIn-

CAST (Council for Agricultural Science and Technology), August 3, 2020

https://www.linkedin.com/feed/update/urn:li:activity:6696049532670615552

CAST (Council for Agricultural Science and Technology), August 6, 2020

https://www.linkedin.com/feed/update/urn:li:activity:6697136684477255680

CAST (Council for Agricultural Science and Technology), August 12, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6699311021804285952 1 like

CAST (Council for Agricultural Science and Technology), August 13, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6699676438351634432

CAST (Council for Agricultural Science and Technology), August 18, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6701488277578387457

CAST (Council for Agricultural Science and Technology), August 22, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6702952897568632832 4 likes

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CAST (Council for Agricultural Science and Technology), August 26, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6704390813624893440
1 like

CAST (Council for Agricultural Science and Technology), August 29, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6705481748173598720 2 likes

CAST (Council for Agricultural Science and Technology), August 31, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6706199367029690369 2 likes

CAST (Council for Agricultural Science and Technology), December 15, 2020 https://www.linkedin.com/feed/update/urn:li:activity:6744624556901711872 1 like

Blog-

"Agriculture and the Microbiome" Blog, August 27, 2020 https://www.cast-science.org/agriculture-and-the-microbiome-blog/