

From: QUARLES, LEE [AG/1000]
To: VICINI, JOHN L [AG/1000]; Alison Van Eenennaam
Cc: SACHS, ERIC S [AG/1000]; Zagora, Tony
Subject: RE: Van Eenennaam version
Date: Tuesday, November 25, 2014 11:06:11 AM
Attachments: AVE Revised -- IntelligencesquaredDraft11_25_14.docx

Alison

I've worked with Tony and built some additional comments on top of John's previous notes. As you will see, I tried to remove some of the overly technical language (which will get lost on some of the audience) and worked to ensure that you were delivering the single most important points throughout. Please review and let me know if you have any questions. We greatly appreciate the opportunity to share the stage with you and discuss the important role of the science and its broader applications.

All my very best,
Lee

From: VICINI, JOHN L [AG/1000]
Sent: Tuesday, November 25, 2014 7:27 AM
To: Alison Van Eenennaam; QUARLES, LEE [AG/1000]
Cc: SACHS, ERIC S [AG/1000]; Zagora, Tony
Subject: RE: Van Eenennaam version

Great job. Attached are some minor suggestions.

From: Alison Van Eenennaam [<mailto:alvaneennaam@ucdavis.edu>]
Sent: Sunday, November 23, 2014 10:30 PM
To: QUARLES, LEE [AG/1000]
Cc: SACHS, ERIC S [AG/1000]; VICINI, JOHN L [AG/1000]; Zagora, Tony
Subject: Van Eenennaam version

Version 2 for me with suggested changes and personalization etc. - I can meet on phone call Wednesday. I have to breed cattle all day Tuesday and then teach 10-11 PST Wednesday so would have to be sometime after that on Wed. I think a run through/practice would be helpful. I do appreciate it is the day before Thanksgiving but I will likely be in the office that Wednesday afternoon. Am also pretty open December 1 - fly out super early December 2.

Alison

From: QUARLES, LEE [AG/1000] [<mailto:lee.quarles@monsanto.com>]
Sent: Friday, November 21, 2014 7:12 PM
To: Alison Van Eenennaam
Cc: SACHS, ERIC S [AG/1000]; VICINI, JOHN L [AG/1000]
Subject: Working draft of Robb's 7 min version

Alison

As promised, attached is the working draft of Robb's version of the seven minute introduction. We will be working to revise and narrow this down to meet the seven minute mark but I wanted to provide it to you so you knew the general direction.

Thanks so much for taking the time today to discuss. I hope you have a great weekend and I'll continue to keep you posted as this draft gets revised.

Lee

Sent from my iPhone

Begin forwarded message:

From: Robb Fraley [REDACTED]
Date: November 20, 2014 at 10:41:48 PM CST
To: <lee.quarles@monsanto.com>
Cc: <robert.t.fraley@monsanto.com>
Subject: My 7 min version

Have incorporated your points in my style.

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INTRODUCTION – 7 minutes

I'm really pleased to be here tonight and discuss the topic of Let's define "Genetically Modified Food." This is an important subject and is really commonplace in our society. It's ~~as~~ food derived from crops produced using genetic engineering. So ~~specifically tonight we're~~ ~~we are~~ debating the use of a breeding method, recombinant DNA technology, which allows breeders to access useful genetic variation from any species. To some this movement of genes from one species to another is the overriding concern associated with GM. I can understand that concern particularly since we are talking about food, both as a scientist and as a mother but as I will discuss, this breeding method ~~is not hazardous~~ has been proven safe, and is sometimes uniquely able to deliver useful traits like crops that are more resilient to climate change. The current and potential benefits of GM are too great to vote anything but YES on GM food.

~~This GMO~~ technology often gets identified with Monsanto and Big Ag policy. But it is actually a method, one that can be used for many purposes, and one that is widely used across the public and private sectors. In my own research on selection for disease resistant cattle, I use many breeding methods including traditional selection for healthy animals, and more recently the use of DNA markers to assist in selecting for disease resistance genes. As a geneticist I can envision how combining GM with these other breeding methods could ~~synergistically accelerate~~ the progress of my publicly-funded research program by enabling me to use GM to directly protect cattle from ~~viral~~ infection.

As discussed by my debate partner, current commercial products include the widely-adopted herbicide-tolerant and insect-protected plants. In the almost twenty years since they were first introduced commercially, GM seeds have been ~~rapidly~~ planted by farmers wherever they have access, and are currently grown by 18 million farmers globally, 16.5 million of whom are small-holder farmers in the developing world, that farm areas smaller than this room.

What have been the impacts of this widespread adoption of the first generation of GM crops? As a scientist I look to the independent, peer-reviewed scientific literature to answer such questions, especially review studies and meta-analyses that present a summary of many independent studies. It is like a well-informed referee presenting an objective assessment of the state of play.

Comment [ZT1]: This may come in Rabb's remarks, but I think we need a simple definition of herbicides and insecticides here. Most in the audience won't know what this means.

A 2014 meta-analysis, funded by the German government, examined the results from 147 studies from around the globe that reported the impacts of GM soybean, ~~maize~~corn, or cotton on crop yields, pesticide use, and/or farmer profits. The conclusion of this comprehensive analysis study from scientists ~~who~~ declared they have no competing interests was **"On average, GE technology adoption has reduced chemical pesticide use by 37%, increased crop yields by 22%, and increased farmer profits by 68%."** The yield gains and pesticide reductions are largest for insect-resistant crops, and the yield and profit gains are higher in developing countries than in developed countries." These sound like outcomes that ~~would~~should be applauded by environmentalists, agriculturalists, and global development agencies alike.

~~Beyond these clear benefits, researchers throughout the public and private sector are now using this tool to help bring broader benefits to society. This breeding tool was also used by p~~Public sector scientists in Hawaii and here in New York have used it to produce a the ring spot virus-resistant papaya, an product which has literally saved the Hawaiian papaya industry. The Brazilian government has developed a "golden mosaic virus"-resistant bean. Other ~~recent~~ introductions include drought-resistant corn and sugarcane, consumer traits like a non-browning, low-acrylamide potato, crops that produce healthier improved oils for nutrition, and alfalfa that can improve be more efficiently digested by livestock diets, meaning a better conversion from hay to ice cream!

Both nationally and internationally there are many ~~public and private sector~~ scientists that are using this breeding tool to address urgent problems beyond herbicide tolerance and insect-resistance in a wide variety of crops. Land grant researchers are working to develop oranges that are resistant to citrus greening disease which is devastating the Florida orange industry, Here in New York researchers are using ~~have used a~~ wheat gene to develop a GM American Chestnut tree resistant to the imported chestnut blight. ~~They are now seeking crowd source funding to take these blight-resistant American chestnut trees through the federal regulatory review process involving the USDA, the EPA, and the FDA, which will take several years and millions of dollars to complete. If approved, these trees will be distributed to the public at minimal costs in a not-for-profit program to restore the American chestnut tree to our eastern forests.~~

Importantly, they are also targeting Pplant diseases which annually destroy some 15 percent of the world's agricultural harvest and which impact will grow as our climate changes. There are many publicly-funded groups around the world working to develop disease-resistant GM varieties of both

plants and animals. These crops include apples, bananas, cassava, cowpea, eggplant, grapes, potatoes, rice, sweet potatoes and wheat. Some of these staple crops are an essential source of calories and nutrients in the diets of the poor.

And it does not stop at plants. Researchers ~~here~~ at SUNY are working with colleagues at the International Livestock Research Institute and Kenyan partners to develop genetically-engineered cattle that are resistant to Africa sleeping sickness, ~~a~~ This zoonotic disease that kills 3 million cattle and several thousand people annually. This project is being publicly funded by the US National Science Foundation and the Bill and Melinda Gates Foundation.

All of these GM applications **focus on controlling disease with genetics rather than with chemistry** - an objective that I would argue is consistent with most definitions of agricultural sustainability. And, the welfare impact of improved animal health is obvious, as it would mean space for fewer animals, feed for fewer animals, and a reduced environmental impact for our planet.

Comment [JLV2]: May be redundant with what I added above, but at least one of these can help people get the benefit to them.

There are also dozens of other useful ~~traits~~ applications in field trials: nitrogen-efficient and flood tolerant rice; drought-tolerant wheat, and Biocassava Plus, that will use genetic engineering to increase the nutrient levels, shelf life, and disease resistance of cassava – which is a major source of carbohydrates in parts of the world. Improved cassava harvests could increase the incomes of more than sixty percent of the households in western Kenya and central and eastern Uganda.

I could go on, but it's important that you understand that the scientific consensus on the benefits of GMO food applications is clear and compelling, and new innovations will only add to this.

Of course none of these applications would be under development in the absence of a broad scientific consensus around the safety of GM food. A 2013 review article, written by independent Italian academic scientists, reviewed 1783 scientific records on GE crop safety published this past decade and concluded that "The scientific research conducted so far has not detected any significant hazards directly connected with the use of GE crops." My own 2014 review paper examined both well-designed animal feeding studies in the peer-reviewed literature, and additionally the field performance and health trends of the billions of food producing animals that have been consuming GM feed for over

a decade, and I found no credible evidence that animals have been harmed by consuming feed containing GM ingredients.

The American Association for the Advancement of Science (AAAS), the world's largest and most prestigious general scientific society, stated in 2012 "The science is quite clear: crop improvement by the modern molecular techniques of biotechnology is safe ... The World Health Organization, the American Medical Association, the U.S. National Academy of Sciences, the British Royal Society, and every other respected organization that has examined the evidence has come to the same conclusion: consuming foods containing ingredients derived from GM crops is no riskier than consuming the same foods containing ingredients from crop plants modified by conventional plant improvement techniques."

Given the documented safety record, the realized benefits, and potential benefits, I urge you to allow breeders access to this valuable breeding method as they improve the genetics of your food and vote YES for genetically modified food.

SUMMARY TWO MINUTES

This past week the U.S. celebrated Thanksgiving, an emotional holiday for me. We had 16 people over to share a meal, and as the hostess my job was to prepare a safe, delicious feast. You know the drill— keeping the raw turkey out of contact with food surfaces, cooking the bird enough to avoid food borne illness but not overcooking it —coordinating the simultaneous presentation of the side dishes, all whilst balancing a glass of bubbly in one's hand! **Safety hazards abounded!** Three thousand people a year die from food borne illness in the US.

One hazard I was not concerned about was whether any of this cornucopia of food was GM. I served this meal to the people I love most in the world, my very dearest friends, my husband and my two teenage sons. Their well-being is of paramount importance to me. [REDACTED]

[REDACTED] understand risk, and my responsibility to use the best available information to protect my children's health. That is why my kids drink pasteurized milk, and are up to date on all of their vaccinations! In the words of Peter Sandman, **"The risks that kill people and the risks that upset people are completely different"**. [REDACTED]

For too long the debate over the merits of GM food in food secure developed countries has focused on unrealized hypothetical risks and tangential issues, and has not addressed the real risks faced by the hungry, nor the voices of those with the most lose from the demonization of this technology. Don't get me wrong, it's important that scientists work to understand people's questions, but ~~There~~ there are very real opportunity costs associated with excessive precaution. If vitamin-A enriched rice had been released in 2002, it would have saved well over one million life years in India alone by now, mostly children. That is a risk that kills people. As a mother that is a number that upsets me. No parent should have to grieve the loss of a child to a preventable cause. Please rethink GM Food and join me in voting YES for GM food.

From: GOUGH, GEORGE N (AG/1983)
To: Alison L. Van Eenennaam
Subject: RE: Video on impact of genetics and breeding on animal productivity
Date: Wednesday, May 02, 2012 12:53:41 PM

Great video Alison! You got my vote!

George

From: Alison L. Van Eenennaam [mailto:ALVanE@UCDavis.Edu]
Sent: Saturday, April 28, 2012 2:06 PM
To: GOUGH, GEORGE N [AG/1983]
Subject: Video on impact of genetics and breeding on animal productivity

Alison Van Eenennaam and her lab at the University of California, Davis have submitted an entry in the first ever American Society of Animal Science Video Competition
<http://asas.org/videocontest/> .

The 5 minute video depicts the impact of **animal genetics and breeding** on animal production and food production efficiency.

The direct link to the entry "**Were Those the Days My Friend?**" is:

<http://www.youtube.com/watch?v=6B-CH-NCdiY&feature=plcp&context=C4616c9bVDvjVQa1PpcFOKAFjI8G6AE5xDeslETRQIk-ZGC51F2jw%3D>

You can vote for this video to win by clicking "**LIKE**" – **for your vote to count you have to be logged into "YouTube" or logged into your gmail account.**

The video with the most "LIKE" votes wins.

All entries for the competition can be found at:

<http://www.youtube.com/user/videosforASAS/videos>

Feel free to forward to other people who may be interested!

Alison Van Eenennaam, PhD
Cooperative Extension Specialist
Animal Genomics and Biotechnology
Department of Animal Science
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One Shields Avenue
Davis, CA 95616
Phone: 530-752-7942
Mobile: [REDACTED]
FAX: 530-752-0175
Email: alvaneennaam@ucdavis.edu
Web: <http://animalscience.ucdavis.edu/animalbiotech/>

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From: SAVIDGE, BETH (AG/1983)
To: Alison L. Van Eenennaam
Subject: RE: Vote for CA! to win the ASAS YouTube video competition
Date: Thursday, April 05, 2012 12:02:12 PM

Hi Alison,

I will check it out and vote on at least 1 youtube account in our family and will pass it on.

Meanwhile, we need one of your buddies to write a factual rebuttal to all of the anti-MON rhetoric going around. The things they say are truly astonishing and it is so hard for us to respond.


Beth

From: Alison L. Van Eenennaam [mailto:ALVanE@UCDavis.Edu]
Sent: Thursday, April 05, 2012 5:48 AM
To: SAVIDGE, BETH (AG/1983)
Subject: Vote for CA! to win the ASAS YouTube video competition

Hi Beth

Can you please do me a favor -- see below. Feel free to distribute widely.

Cheers

Alison

Dear friend of the Van Eenennaam lab --

I need your help! See below. Please get all of your tech-savvy friends to vote as they are likely to have YouTube accounts -- the old farts my age think they have "liked" but are not logged in and so although my video has the most views....we are not winning!! Please take a minute to vote -- and feel free to distribute

Cheers

Alison

Alison Van Eenennaam and her lab have submitted an entry in the first ever American Society of Animal Science Video Competition <http://asas.org/videocontest/>.

The 5 minute video depicts the impact of animal genetics on animal production and food production efficiency.

The direct link to the entry "Were Those the Days My Friend?" is:

<http://www.youtube.com/watch?v=6B-CH-NCdiY&feature=plcp&context=C4616c9bVDvjVQa1PpcFOKAFjI8G6AE5xDeslETRQIk-ZGC51F2jw%3D>

You can vote for this video to win by clicking "LIKE" -- **for your vote to count you have to be logged into "YouTube" with an account.**

The video with the most "LIKE" votes wins.

All entries for the competition can be found at:

<http://www.youtube.com/user/videosforASAS/videos>

From: QUARLES, LEE [AG/1000]
To: Alison Van Eenennaam
Subject: RE: Working draft of Robb's 7 min and 2 min version
Date: Wednesday, November 26, 2014 1:10:18 PM

That's fine with me

From: Alison Van Eenennaam [mailto:alvaneennaam@ucdavis.edu]
Sent: Wednesday, November 26, 2014 11:34 AM
To: QUARLES, LEE [AG/1000]
Subject: RE: Working draft of Robb's 7 min and 2 min version

Bruce Chassy asked to join the call this afternoon - he has a lot of debate experience but wanted to ask if that is OK with you

From: QUARLES, LEE [AG/1000] [mailto:lee.quarles@monsanto.com]
Sent: Tuesday, November 25, 2014 4:13 PM
To: Alison Van Eenennaam
Subject: Re: Working draft of Robb's 7 min and 2 min version

I know. :) trying my best to make sure he gets everything right.

Sent from my iPhone

On Nov 25, 2014, at 5:01 PM, "Alison Van Eenennaam" <alvaneennaam@ucdavis.edu> wrote:

Dr van N N M !! really? ☺

From: QUARLES, LEE [AG/1000] [mailto:lee.quarles@monsanto.com]
Sent: Tuesday, November 25, 2014 1:50 PM
To: Alison Van Eenennaam
Cc: SACHS, ERIC S [AG/1000]; VICINI, JOHN L [AG/1000]
Subject: Working draft of Robb's 7 min and 2 min version

Alison

As promised, attached are the current working drafts of Robb's seven minute introduction and his two minute close. We are working to tighten the versions to meet the time limit but I wanted to provide it to you so you knew the current status and general direction.

I hope you have a great day today and I'll talk to you tomorrow.

As always, please call my cell if you need anything, [REDACTED].

Lee

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From: VICINI, JOHN L [AG/1000]
To: Alison Van Eenennaam; QUARLES, LEE [AG/1000]
Cc: SACHS, ERIC S [AG/1000]
Subject: RE: Working draft of Robb's 7 min and 2 min version
Date: Tuesday, November 25, 2014 2:04:59 PM

Very good day -- but seems unnaturall

From: Alison Van Eenennaam [mailto:alvaneenennaam@ucdavis.edu]
Sent: Tuesday, November 25, 2014 3:52 PM
To: QUARLES, LEE [AG/1000]
Cc: SACHS, ERIC S [AG/1000]; VICINI, JOHN L [AG/1000]
Subject: RE: Working draft of Robb's 7 min and 2 min version

We had a 70% activated heat patch day on a timed AI sync protocol !! - that is a great day! If you have no idea what I am talking about - ask John.

From: QUARLES, LEE [AG/1000] [mailto:lee.quarles@monsanto.com]
Sent: Tuesday, November 25, 2014 1:50 PM
To: Alison Van Eenennaam
Cc: SACHS, ERIC S [AG/1000]; VICINI, JOHN L [AG/1000]
Subject: Working draft of Robb's 7 min and 2 min version

Alison

As promised, attached are the current working drafts of Robb's seven minute introduction and his two minute close. We are working to tighten the versions to meet the time limit but I wanted to provide it to you so you knew the current status and general direction.

I hope you have a great day today and I'll talk to you tomorrow.

As always, please call my cell if you need anything, [REDACTED].

Lee

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From: VICINI, JOHN L [AG/1000]
To: Alison Van Eenennaam; QUARLES, LEE [AG/1000]
Cc: SACHS, ERIC S [AG/1000]
Subject: RE: Working draft of Robb's 7 min and 2 min version
Date: Sunday, November 30, 2014 5:43:21 PM

Good to hear that you didn't have to rewrite your ending from a hospital room. Looks great. Just one comment, this crowd might not know what Land Grant is? Could just say Agricultural University researchers.

From: Alison Van Eenennaam [mailto:alvaneennaam@ucdavis.edu]
Sent: Saturday, November 29, 2014 3:51 PM
To: QUARLES, LEE [AG/1000]
Cc: SACHS, ERIC S [AG/1000]; VICINI, JOHN L [AG/1000]
Subject: RE: Working draft of Robb's 7 min and 2 min version

Today's thoughts - glad to report no guests got food poisoning from Thanksgiving dinner at my house - hope the same occurred at your houses. Tried to modify as suggested. Have no time for additional words (i.e. already have too much there) - so edits should be made accordingly
Alison

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