Subject: Re: CBD Online Forum Update **From:** Todd Kuiken <tkuiken@ncsu.edu>

Date: 7/13/2017 7:11 AM

To: Royden Saah <royden.saah@islandconservation.org>

Hey Royden happy to talk anytime. I'm pretty open this week.

On Jul 13, 2017, at 4:39 AM, Royden Saah < royden.saah@islandconservation.org > wrote:

Hi Todd,

Hope you are well. Do you have some time to chat about this over the next day or two. I would like to present to the forum in the best manner, but not sure about the amount of data available showing synbio benefit to environment at this time. One example may be in agriculture that reduces use of pesticide.

Anyway, if you have some time, let me know what time zone you are in and I will call.

Cheers

rs

From: Royden Saah

Sent: Wednesday, July 12, 2017 2:39 PM

To: Heath Packard < Heath. Packard@islandconservation.org >

Cc: Karl Campbell < Karl. Campbell@islandconservation.org >; Gregg Howald

<<u>Gregg.Howald@islandconservation.org</u>>; Ray Nias <<u>Ray.Nias@islandconservation.org</u>>; Nick Holmes <<u>Nick.Holmes@islandconservation.org</u>>; Karen Poiani <<u>karen.poiani@islandconservation.org</u>>; Ingrid Parker (<u>imparker@ucsc.edu</u>) <<u>imparker@ucsc.edu</u>>; Carol Schimke <<u>carol.schimke@islandconservation.org</u>>; Todd

Kuiken < tkuiken@ncsu.edu>

Subject: RE: CBD Online Forum Update

Importance: High

Roger. To be clear on the task, I will elicit responses from IC GBIRd associates and GBIRd listserv and compile. Deadline of July 17 is understood. Please (including those copied on the email) feel free to clarify as I move forward. Your input and peer reviewed references are critical.

Thanks,

rs

From: Heath Packard

Sent: Tuesday, July 11, 2017 11:29 PM

To: Royden Saah < royden.saah@islandconservation.org >

Cc: Karl Campbell < karl.campbell@islandconservation.org >; Gregg Howald

<gregg.howald@islandconservation.org>; Ray Nias <<u>ray.nias@islandconservation.org</u>>; Nick Holmes
<<u>nick.holmes@islandconservation.org</u>>; Karen Poiani <<u>karen.poiani@islandconservation.org</u>>; Ingrid Parker
(<u>imparker@ucsc.edu</u>) <<u>imparker@ucsc.edu</u>>; Carol Schimke <<u>carol.schimke@islandconservation.org</u>>; Todd

Kuiken <tkuiken@ncsu.edu>

Subject: FW: CBD Online Forum Update

Importance: High

Hi Royden,

I've copied here a specific recommendation for our (GBIRd/Island Conservation) engagement in the CBD Online Forum. The recommendation is excerpted from the update below from Ben (from the gene drive research sponsors/supporters coalition), who is helping staff us for the forum. I've attached his initial introductory email as I think you'll find it helpful.

Given that I'm traveling in in a conference all week and starting PTO on Saturday, I'm hoping you could take a lead on developing and submitting a response along the lines recommended by Ben. This segment of the forum closes on the 17th, so I presume that's our drop deadline.

Suggested Actions:

1. As much of the discussion up to this point has focused on the unknown dangers and potential negative consequences of gene drive for ecosystems and biodiversity, it may be good for those working in conservation (particularly those affiliated with Island Conservation) to provide some comments related to the moderator's request to "capture positive impacts of synbio organisms on biodiversity", which can be found in the following comment: https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8365#8442

Summary of new developments: so far in the discussions, gene drive has mostly come up in the context of hypothetical deleterious effects on ecosystems. In response to this, some participants (e.g. https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8410) have asked that discussions be limited to concrete examples and specific situations and problems, avoiding sweeping and vague generalizations. This may be a useful message to pick up on. Sub-groups have also been mobilized to address concerns about the likelihood of horizontal gene transfer, and to clarify that vector control strategies (even those making use of synthetic biology) do not intend to cause the extinction of vector organisms, only to reduce their numbers. With regards to general tenor, the discussions have tended to placed more emphasis on the risks and unknowns associated with novel uses of synthetic biology, although several members of this group have attempted to redress this balance.

Heath Packard

Director of Marketing & Communications

Island Conservation

360.584.3051 (mobile)

heath.packard1 (skype)

From: Benjamin Robinson [mailto:Ben@emergingag.com]

Sent: Friday, July 07, 2017 8:40 AM

To: npiediab@gmail.com; ana.atanassova@bayer.com; a.drcrisanti@imperial.ac.uk; l.collyns@imperial.ac.uk; toni.j.piaggio@aphis.usda.gov; bdass@fnih.org; a.badolo@gmail.com; a.burt@imperial.ac.uk; cbloss@ucsd.edu; dtompkins@landcareresearch.co.nz; dobrocht@umd.edu; d.thizy@imperial.ac.uk; dwatuku@yahoo.com; ebier@ucsd.edu; fred gould@ncsu.edu; f.tripet@keele.ac.uk; fredros@ihi.or.tz; Gregg Howald

<gregg.howald@islandconservation.org>; g.immobile@pologgb.com; Heath Packard

<heath.packard@islandconservation.org>; hquemada@danforthcenter.org; Jason Delborne

<jadelbor@ncsu.edu>; Jeff.Chertack@gatesfoundation.org; j.mumford@imperial.ac.uk; jkayondo@uvri.go.ug; jkayondo@gmail.com; Karl Campbell <karl.campbell@islandconservation.org>; kele.lekoape@bayer.com;

kent@archipelagoconsulting.com; l.cinti@pologgb.com; luciadesouza100@gmail.com;

<u>luke.alphey@pirbright.ac.uk</u>; <u>lydia.slobodian@iucn.org</u>; <u>doudou@icermali.org</u>; <u>mrbenites2002@yahoo.es</u>;

mqbenedict@yahoo.com; michael.bonsall@zoo.ox.ac.uk; nachee@nd.edu; nbesansk@nd.edu; p.freemont@imperial.ac.uk; adrade@ufpe.br; filipposaris.papathanos@unipg.it; pietvandermeer@gmail.com; monnat@uw.edu; renee.wegrzyn@darpa.mil; rfriedman@jcvi.org; roberta.spaccapelo@unipg.it; Royden Saah <royden.saah@islandconservation.org>; r.muller@pologgb.com; ryan@longnow.org; slwerner@UCSD.EDU; carter@sciencepolicyconsulting.com; sarah.lukie@croplife.org; scott@shorebiotech.com; sjames@fnih.org; sr120@hermes.cam.ac.uk; ssubramani@ucsd.edu; tkuiken@nscu.edu; aajames@uci.edu; t.nolan@imperial.ac.uk; zachadel@tamu.edu; sentelle@uci.edu

Cc: Morgane Danielou < Morgane@emergingag.com">Morgane@emergingag.com; Delphine Thizy < d.thizy@imperial.ac.uk> **Subject:** CBD Online Forum Update

Hi all,

There continues to be a high-volume of activity on the forum, with many raising concerns about horizontal gene transfer and the ecological effects of deployment of synthetic biotech, and with the first explicit mention of gene drive.

Points you may wish to address:

- 1. Edward Hammond, Third World Network: https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8431
 - He questions whether appropriate facilities and expertise for safe containment are in place in many developing countries. Although his concerns focus on one project in particular, they can be applied more broadly to the entire gene drive research community.
 - Please note that a sub-group is currently drafting a response outlining some of the containment procedures used, and clarifying which are appropriate to which types of projects and what the risks involved are.

Suggested Actions:

1. As much of the discussion up to this point has focused on the unknown dangers and potential negative consequences of gene drive for ecosystems and biodiversity, it may be good for those working in conservation (particularly those affiliated with Island Conservation) to provide some comments related to the moderator's request to "capture positive impacts of synbio organisms on biodiversity", which can be found in the following comment: https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8365#8442

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Regards, Ben

<image001.jpg>

Ben Robinson Policy Coordinator +39 334 994 2405

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CBD Online Forum on Synthetic Biology will take place soon! Experts should <u>register online</u> to participate.

Contact us if you require assistance.

Supporter of the Manyinga orphan schools project – find out more at www.manyinga.org