

**Subject:** RE: CBD Online Forum Update

**From:** Heath Packard <heath.packard@islandconservation.org>

**Date:** 7/14/2017 1:01 PM

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

**CC:** Karl Campbell <karl.campbell@islandconservation.org>, Gregg Howald <gregg.howald@islandconservation.org>, Ray Nias <ray.nias@islandconservation.org>, Nick Holmes <nick.holmes@islandconservation.org>, Karen Poiani <karen.poiani@islandconservation.org>, "Ingrid Parker (imparker@ucsc.edu)" <imparker@ucsc.edu>, Carol Schimke <carol.schimke@islandconservation.org>, Todd Kuiken <tkuiken@ncsu.edu>

Hi Royden,

Ben says your deadline is this weekend instead of Monday!

Best,

**Heath Packard**

Director of Marketing & Communications

[Island Conservation](#)

360.584.3051 (mobile)

heath.packard1 (skype)

---

**From:** Heath Packard

**Sent:** Thursday, July 13, 2017 8:53 AM

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

**Cc:** Karl Campbell <Karl.Campbell@islandconservation.org>; Gregg Howald <Gregg.Howald@islandconservation.org>; Ray Nias <Ray.Nias@islandconservation.org>; Nick Holmes <Nick.Holmes@islandconservation.org>; Karen Poiani <karen.poiani@islandconservation.org>; Ingrid Parker (imparker@ucsc.edu) <imparker@ucsc.edu>; Carol Schimke <carol.schimke@islandconservation.org>; Todd Kuiken <tkuiken@ncsu.edu>

**Subject:** RE: CBD Online Forum Update

**Importance:** High

Thanks, Royden.

You have it right...please be vigilant in your monitoring emails from Benjamin. See latest from yesterday. These are our time-saving shortcuts to our strategic engagement!

I'd also advise drafting a response and circulating it for review/comment/contributions as opposed to soliciting recommendations from the team at the outset...that will streamline the input time needed by others and really facilitate the process. Please be sure to align whatever you submit with the information I submitted for us in the call for information last month. You all got copies of that.

My time to engage in this has been eclipsed by my needs to prioritize DARPA press statement and talking points for the partnership...really appreciate you taking the lead on this.

Best,

**Heath Packard**

Director of Marketing & Communications

[Island Conservation](#)

360.584.3051 (mobile)

heath.packard1 (skype)

---

**From:** Royden Saah

**Sent:** Tuesday, July 11, 2017 9:39 PM

**To:** Heath Packard <[heath.packard@islandconservation.org](mailto:heath.packard@islandconservation.org)>

**Cc:** Karl Campbell <[karl.campbell@islandconservation.org](mailto:karl.campbell@islandconservation.org)>; Gregg Howald <[gregg.howald@islandconservation.org](mailto:gregg.howald@islandconservation.org)>; Ray Nias <[ray.nias@islandconservation.org](mailto:ray.nias@islandconservation.org)>; Nick Holmes <[nick.holmes@islandconservation.org](mailto:nick.holmes@islandconservation.org)>; Karen Poiani <[karen.poiani@islandconservation.org](mailto:karen.poiani@islandconservation.org)>; Ingrid Parker ([imparker@ucsc.edu](mailto:imparker@ucsc.edu)) <[imparker@ucsc.edu](mailto:imparker@ucsc.edu)>; Carol Schimke <[carol.schimke@islandconservation.org](mailto:carol.schimke@islandconservation.org)>; Todd Kuiken <[tkuiken@ncsu.edu](mailto: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](mailto:royden.saah@islandconservation.org)>

**Cc:** Karl Campbell <[karl.campbell@islandconservation.org](mailto:karl.campbell@islandconservation.org)>; Gregg Howald <[gregg.howald@islandconservation.org](mailto:gregg.howald@islandconservation.org)>; Ray Nias <[ray.nias@islandconservation.org](mailto:ray.nias@islandconservation.org)>; Nick Holmes <[nick.holmes@islandconservation.org](mailto:nick.holmes@islandconservation.org)>; Karen Poiani <[karen.poiani@islandconservation.org](mailto:karen.poiani@islandconservation.org)>; Ingrid Parker ([imparker@ucsc.edu](mailto:imparker@ucsc.edu)) <[imparker@ucsc.edu](mailto:imparker@ucsc.edu)>; Carol Schimke <[carol.schimke@islandconservation.org](mailto:carol.schimke@islandconservation.org)>; Todd Kuiken <[tkuiken@ncsu.edu](mailto: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 17<sup>th</sup>, 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 place 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](mailto:npiediab@gmail.com); [ana.atanassova@bayer.com](mailto:ana.atanassova@bayer.com); [a.drcrianti@imperial.ac.uk](mailto:a.drcrianti@imperial.ac.uk); [l.collyns@imperial.ac.uk](mailto:l.collyns@imperial.ac.uk); [toni.i.piaggio@aphis.usda.gov](mailto:toni.i.piaggio@aphis.usda.gov); [bdass@fnih.org](mailto:bdass@fnih.org); [a.badolo@gmail.com](mailto:a.badolo@gmail.com); [a.burt@imperial.ac.uk](mailto:a.burt@imperial.ac.uk); [cbloss@ucsd.edu](mailto:cbloss@ucsd.edu); [dtompkins@landcareresearch.co.nz](mailto:dtompkins@landcareresearch.co.nz); [dobrocht@umd.edu](mailto:dobrocht@umd.edu); [d.thizy@imperial.ac.uk](mailto:d.thizy@imperial.ac.uk); [dwatuku@yahoo.com](mailto:dwatuku@yahoo.com); [ebier@ucsd.edu](mailto:ebier@ucsd.edu); [fred\\_gould@ncsu.edu](mailto:fred_gould@ncsu.edu); [f.tripet@keele.ac.uk](mailto:f.tripet@keele.ac.uk); [fredros@ihi.or.tz](mailto:fredros@ihi.or.tz); Gregg Howald <[gregg.howald@islandconservation.org](mailto:gregg.howald@islandconservation.org)>; [g.immobile@pologgb.com](mailto:g.immobile@pologgb.com); Heath Packard <[heath.packard@islandconservation.org](mailto:heath.packard@islandconservation.org)>; [hquemada@danforthcenter.org](mailto:hquemada@danforthcenter.org); Jason Delborne <[jadelbor@ncsu.edu](mailto:jadelbor@ncsu.edu)>; [Jeff.Chertack@gatesfoundation.org](mailto:Jeff.Chertack@gatesfoundation.org); [j.mumford@imperial.ac.uk](mailto:j.mumford@imperial.ac.uk); [jkayondo@uvri.go.ug](mailto:jkayondo@uvri.go.ug); [jkayondo@gmail.com](mailto:jkayondo@gmail.com); Karl Campbell <[karl.campbell@islandconservation.org](mailto:karl.campbell@islandconservation.org)>; [kele.lekoape@bayer.com](mailto:kele.lekoape@bayer.com); [kent@archipelagoconsulting.com](mailto:kent@archipelagoconsulting.com); [l.cinti@pologgb.com](mailto:l.cinti@pologgb.com); [luciadesouza100@gmail.com](mailto:luciadesouza100@gmail.com); [luke.alphey@pirbright.ac.uk](mailto:luke.alphey@pirbright.ac.uk); [lydia.slobodian@iucn.org](mailto:lydia.slobodian@iucn.org); [doudou@icermali.org](mailto:doudou@icermali.org); [mrbenites2002@yahoo.es](mailto:mrbenites2002@yahoo.es); [mqbenedict@yahoo.com](mailto:mqbenedict@yahoo.com); [michael.bonsall@zoo.ox.ac.uk](mailto:michael.bonsall@zoo.ox.ac.uk); [nachee@nd.edu](mailto:nachee@nd.edu); [nbesansk@nd.edu](mailto:nbesansk@nd.edu); [p.freemont@imperial.ac.uk](mailto:p.freemont@imperial.ac.uk); [adrade@ufpe.br](mailto:adrade@ufpe.br); [filipposaris.papathanos@unipg.it](mailto:filipposaris.papathanos@unipg.it); [pietvandermeer@gmail.com](mailto:pietvandermeer@gmail.com); [monnat@uw.edu](mailto:monnat@uw.edu); [renee.wegrzyn@darpa.mil](mailto:renee.wegrzyn@darpa.mil); [rfriedman@jcvl.org](mailto:rfriedman@jcvl.org); [roberta.spaccapelo@unipg.it](mailto:roberta.spaccapelo@unipg.it); Royden Saah <[royden.saah@islandconservation.org](mailto:royden.saah@islandconservation.org)>; [r.muller@pologgb.com](mailto:r.muller@pologgb.com); [ryan@longnow.org](mailto:ryan@longnow.org); [slwerner@UCSD.EDU](mailto:slwerner@UCSD.EDU); [carter@sciencepolicyconsulting.com](mailto:carter@sciencepolicyconsulting.com); [sarah.lukie@croplife.org](mailto:sarah.lukie@croplife.org); [scott@shorebiotech.com](mailto:scott@shorebiotech.com); [sjames@fnih.org](mailto:sjames@fnih.org); [sr120@hermes.cam.ac.uk](mailto:sr120@hermes.cam.ac.uk); [ssubramani@ucsd.edu](mailto:ssubramani@ucsd.edu); [tkuiken@ncsu.edu](mailto:tkuiken@ncsu.edu); [aajames@uci.edu](mailto:aajames@uci.edu); [t.nolan@imperial.ac.uk](mailto:t.nolan@imperial.ac.uk); [zachadel@tamu.edu](mailto:zachadel@tamu.edu); [sentelle@uci.edu](mailto:sentelle@uci.edu)

**Cc:** Morgane Danielou <[Morgane@emergingag.com](mailto:Morgane@emergingag.com)>; Delphine Thizy <[d.thizy@imperial.ac.uk](mailto: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>
  - o 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>

**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 place 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.

Regards,  
Ben



Ben Robinson  
Policy Coordinator  
+39 334 994 2405  
[ben@emergingag.com](mailto:ben@emergingag.com)  
[www.emergingag.com](http://www.emergingag.com)  
[Follow Emerging ag on LinkedIn](#)

**CBD Online Forum on Synthetic Biology will take place soon!** Experts should [register online](#) to participate.

Contact us if you require assistance.

Supporter of the Manyinga orphan schools project – find out more at [www.manyinga.org](http://www.manyinga.org)

— ForwardedMessage.eml —

---

**Subject:** CBD Forum update

**From:** Benjamin Robinson <Ben@emergingag.com>

**Date:** 7/14/2017 11:37 AM

**To:** "npiediab@gmail.com" <npiediab@gmail.com>, "ana.atanassova@bayer.com" <ana.atanassova@bayer.com>, "a.drcrianti@imperial.ac.uk" <a.drcrianti@imperial.ac.uk>, "l.collyns@imperial.ac.uk" <l.collyns@imperial.ac.uk>, "toni.j.piaggio@aphis.usda.gov"

<toni.j.piaggio@aphis.usda.gov>, "bdass@fnih.org" <bdass@fnih.org>, "a.badolo@gmail.com" <a.badolo@gmail.com>, "a.burt@imperial.ac.uk" <a.burt@imperial.ac.uk>, "cbloss@ucsd.edu" <cbloss@ucsd.edu>, "dtompkins@landcareresearch.co.nz" <dtompkins@landcareresearch.co.nz>, "dobrocht@umd.edu" <dobrocht@umd.edu>, "d.thizy@imperial.ac.uk" <d.thizy@imperial.ac.uk>, "dwatuku@yahoo.com" <dwatuku@yahoo.com>, "ebier@ucsd.edu" <ebier@ucsd.edu>, "fred\_gould@ncsu.edu" <fred\_gould@ncsu.edu>, "f.tripet@keele.ac.uk" <f.tripet@keele.ac.uk>, "fredros@ihi.or.tz" <fredros@ihi.or.tz>, Gregg Howald <gregg.howald@islandconservation.org>, "g.immobile@pologgb.com" <g.immobile@pologgb.com>, Heath Packard <heath.packard@islandconservation.org>, "hquemada@danforthcenter.org" <hquemada@danforthcenter.org>, Jason Delborne <jadelbor@ncsu.edu>, "Jeff.Chertack@gatesfoundation.org" <Jeff.Chertack@gatesfoundation.org>, "j.mumford@imperial.ac.uk" <j.mumford@imperial.ac.uk>, "jkayondo@uvri.go.ug" <jkayondo@uvri.go.ug>, "jkayondo@gmail.com" <jkayondo@gmail.com>, Karl Campbell <karl.campbell@islandconservation.org>, "kele.lekoape@bayer.com" <kele.lekoape@bayer.com>, "kent@archipelagoconsulting.com" <kent@archipelagoconsulting.com>, "l.cinti@pologgb.com" <l.cinti@pologgb.com>, "luciadesouza100@gmail.com" <luciadesouza100@gmail.com>, "lydia.slobodian@iucn.org" <lydia.slobodian@iucn.org>, "doudou@icermali.org" <doudou@icermali.org>, "margret.engelhard@bfm.de" <margret.engelhard@bfm.de>, "mrbenites2002@yahoo.es" <mrbenites2002@yahoo.es>, "mqbenedict@yahoo.com" <mqbenedict@yahoo.com>, "michael.bonsall@zoo.ox.ac.uk" <michael.bonsall@zoo.ox.ac.uk>, "nachee@nd.edu" <nachee@nd.edu>, "nbesansk@nd.edu" <nbesansk@nd.edu>, "p.freemont@imperial.ac.uk" <p.freemont@imperial.ac.uk>, "adrade@ufpe.br" <adrade@ufpe.br>, "filipposaris.papathanos@unipg.it" <filipposaris.papathanos@unipg.it>, "pietvandermeer@gmail.com" <pietvandermeer@gmail.com>, "monnat@uw.edu" <monnat@uw.edu>, "renee.wegrzyn@darpa.mil" <renee.wegrzyn@darpa.mil>, "rfriedman@jcvl.org" <rfriedman@jcvl.org>, "roberta.spaccapelo@unipg.it" <roberta.spaccapelo@unipg.it>, Royden Saah <royden.saah@islandconservation.org>, "r.muller@pologgb.com" <r.muller@pologgb.com>, "ryan@longnow.org" <ryan@longnow.org>, "slwerner@UCSD.EDU" <slwerner@UCSD.EDU>, "carter@sciencepolicyconsulting.com" <carter@sciencepolicyconsulting.com>, "sarah.lukie@croplife.org" <sarah.lukie@croplife.org>, "scott@shorebiotech.com" <scott@shorebiotech.com>, "sjames@fnih.org" <sjames@fnih.org>, "s.russel@gen.cam.ac.uk" <s.russel@gen.cam.ac.uk>, "ssubramani@ucsd.edu" <ssubramani@ucsd.edu>, "tkuiken@ncsu.edu" <tkuiken@ncsu.edu>, "aajames@uci.edu" <aajames@uci.edu>, "t.nolan@imperial.ac.uk" <t.nolan@imperial.ac.uk>, "zachadel@tamu.edu" <zachadel@tamu.edu>, "sentelle@uci.edu" <sentelle@uci.edu>

**CC:** Morgane Danielou <Morgane@emergingag.com>

Hi all,

As a reminder, please note that discussion on the 1<sup>st</sup> topic of the forum ("Reviewing recent technological developments within the field of synthetic biology to assess if the developments could lead to impacts on biodiversity and the three objectives of the Convention, including unexpected and significant impacts") will be closed on **Monday July 17<sup>th</sup>**. Any final points you would like to make must therefore be submitted today, or over the weekend.

**Points you may wish to address:**

- Eva Sirinathsingji, Third World Network: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8523>
- Edward Hammond, Third World Network: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8535>
  - Both posts call for a moratorium on gene drive research, citing knowledge gaps, environmental risks, socio-economic risks, gene-transfer to non-target species, off-target effects, inadequate containment measures, and weaponized applications.
  - **Please note that there have been several responses noting that a moratorium is not necessary and could be potentially harmful at this stage, that a case by cases analysis of the risks and benefits involved with each project would be more appropriate, and that in many contexts mechanisms and procedures exist to ensure that projects adopt the requisite biosafety and containment measures. It may be useful to chime in in support. Some examples are:**
    - Mark Benedict, CDC: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8528>
    - Zach Adelman, Texas A & M University: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8532>
      - <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8536>
    - Luke Alphey, Pirbright Institute: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8384#8538>

**Summary of other developments:**

- Elsewhere, several representatives of national governments have made statements to the effect that current risk assessment methodologies in place are adequate to manage applications of synthetic biology, including:
  - Germany: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8365#8533>
  - USA: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8365#8550>
  - New Zealand: <https://bch.cbd.int/synbio/open-ended/discussion/?threadid=8365#8553>

Regards,  
Ben



Ben Robinson

Policy Coordinator

+39 334 994 2405

[ben@emergingag.com](mailto:ben@emergingag.com)

[www.emergingag.com](http://www.emergingag.com)

[Follow Emerging ag on LinkedIn](#)

**CBD Online Forum on Synthetic Biology will take place soon!** Experts should [register online](#) to participate.

Contact us if you require assistance.

Supporter of the Manyinga orphan schools project – find out more at [www.manyinga.org](http://www.manyinga.org)

— Attachments: —

ForwardedMessage.eml

33.7 KB