

Subject: Re: Assessing the Security Risks of Genome Editing

From: Fred Gould <fgould@ncsu.edu>

Date: 7/16/2017 9:04 AM

To: Karl Campbell <karl.campbell@islandconservation.org>

CC: Daniel Tompkins <TompkinsD@landcareresearch.co.nz>, "Godwin@ncsu.edu"

<godwin@ncsu.edu>, Royden Saah <royden.saah@islandconservation.org>, Owain Edwards

<Owain.Edwards@csiro.au>, "dwthreadgill@tamu.edu" <dwthreadgill@tamu.edu>, Antoinette J -

APHIS Piaggio <toni.j.piaggio@aphis.usda.gov>, "Peter.Brown@csiro.au" <Peter.Brown@csiro.au>,

"Fred_gould@ncsu.edu" <fred_gould@ncsu.edu>, Paul Thomas <paul.thomas@adelaide.edu.au>,

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"Keith.Hayes@data61.csiro.au" <Keith.Hayes@data61.csiro.au>

Todd Kuiken, Jason Delborne, and I will be at the meeting.

On Jul 16, 2017, at 4:13 AM, Karl Campbell <karl.campbell@islandconservation.org> wrote:

Dear all,

If anyone wishes to take Keegan up on this invite, please contact her directly and Cc me. I am unable to attend.

I saw this late and last date to reply is tomorrow.

Cheers,
Karl

Begin forwarded message:

From: "Sawyer, Keegan" <KSawyer@nas.edu>

Date: July 12, 2017 at 3:41:27 PM GMT+1

To: "karl.campbell@islandconservation.org" <karl.campbell@islandconservation.org>

Subject: Assessing the Security Risks of Genome Editing

Dear Karl,

I hope this email finds you well. I am part of a global academy collaboration group that is convening a workshop, Assessing the Security Risks of Genome Editing, October 11-13 in

Hanover, Germany. The workshop will examine the latest advances in genome editing and analyse current and potential applications in a wide range of organisms such as microbes, plants, animals and humans. Participants will also address the debates about their potential risks and misuse. The need for international dialogue is particularly important because of the rapid development and wide-spread use of genome editing tools such as the CRISPR-Cas9 system in countries with various, sometimes divergent, regulations and governance of research. The workshop will explore near- middle- and long-term security concerns – relating to intentional misuse – that may arise from these applications and discuss technical, operational, regulatory and governance strategies that may aid the scientific and security communities in preventing or mitigating those security concerns.

Gene drives are one of four key focus areas at this workshop. As you know, the NASEM report on Gene Drives did not explicitly address security. Some of the impetus for holding this workshop stems from conflation of risks across genome editing technologies, including gene drives, and also hyped risks (i.e. security concerns that are not well supported by biology and/or technical requirements necessary to develop an application).

The registration for this workshop is full. However, the Volkswagen Foundation (the host institution) has graciously offered a limited number of spots for key invitees to attend and participate in the workshop. If you or someone from Island Conservation would like to attend this workshop, kindly let me know by **Monday, July 17th**. I will gladly add your name to the list of key invitees.

The preliminary program and additional information is available in the announcement of the workshop on the National Academies website (<http://nas-sites.org/dels/events/ge-security/>) and the Volkswagen Foundation website (<http://bit.ly/2qicUit>).

Best Regards,

Keegan

