



To:
Cc:
Bcc:
Subject: Fw: centromere-mediated chromosome elimination

From: Michael C Gregoire/MD/APHIS/USDA
To: "Andrea F Huberty" <Andrea.F.Huberty@aphis.usda.gov>
Cc: "Beverly Simmons" <Beverly.Simmons@aphis.usda.gov>, "Sidney W Abel" <Sidney.W.Abel@aphis.usda.gov>
Date: 01/27/2011 10:09 PM
Subject: Fwd: centromere-mediated chromosome elimination

Could the PSC take this up and provide the requestor with an interim response. Thanks.

Michael Gregoire
Sent from my iPhone

Begin forwarded message:

From: [REDACTED] PII <[REDACTED]@plantandfood.co.nz>
Date: J [REDACTED] EST
To: "Michael.C.Gregoire@aphis.usda.gov" <Michael.C.Gregoire@aphis.usda.gov>
Subject: centromere-mediated chromosome elimination

Dear Michael,

On 19th April 2010, in an email to Murray Boase you were kind enough to provide an opinion on two lines of GM petunia and suggested we check the USDA site for updates on regulations. The last update shown is for June 2009 - has there been any progress on the regulations ?

On a totally different matter - we are currently investigating the application of a technology developed at UC Davis by

Simon W.L. Chan (2010) Review Chromosome engineering: power tools for plant genetics, [Trends in Biotechnology Volume 28, Issue 12](#), Pages 605-610

The above reference outlines how centromere-mediated chromosome elimination may be used to produce doubled haploid DH plants in recalcitrant crop species such as [REDACTED] CBI An additional bonus of the above system is that it allows the manipulation of

cytoplasm to paternal or maternal chromosomes. This has not previously been possible and will enable the easy transfer of CMS traits to new genetic backgrounds.

Although a GM process the final product -transgenic. Since we wish to offer the production of [redacted] CBI as a service to [redacted] CBI breeders I am sure the first question they will ask is what but how these plants could be viewed by regulatory authorities. Are you able to offer an informed opinion on this ?

With kind regards

[redacted] PII

[redacted] PII

[redacted] PII

[redacted] PII



T: [redacted] PII number
M: [redacted] PII Mobile Number
F: [redacted] PII

[redacted] PII @plantandfood.co.nz

www.plantandfood.com
The New Zealand Institute for Plant and Food Research Limited

Postal Addr [redacted] PII
Private Bag [redacted] PII
[redacted] PII
[redacted] PII

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