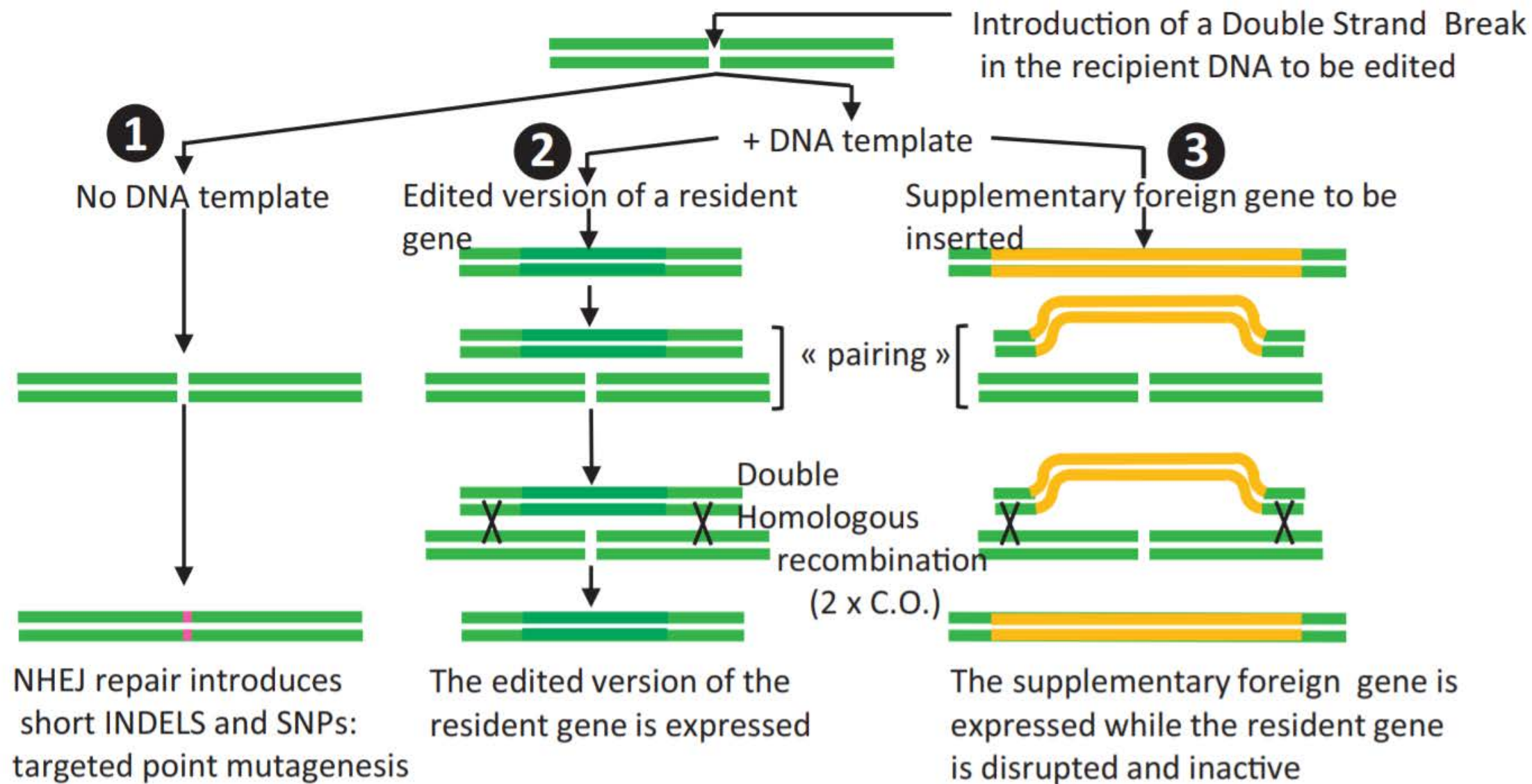


Genome editing in the international arena

Current main uses of SDNs



LMO definition from Cartagena Protocol

- ◈ "Living modified organism" means any living organism that possesses a novel combination of genetic material obtained through the use of modern biotechnology;
- ◈ "Modern biotechnology" means the application of:
 - a. In vitro nucleic acid techniques, including recombinant deoxyribonucleic acid (DNA) and direct injection of nucleic acid into cells or organelles, or
 - b. Fusion of cells beyond the taxonomic family,
that overcome natural physiological reproductive or recombination barriers and that are not techniques used in traditional breeding and selection;

LMO definition from Cartagena Protocol

- ◊ "Living modified organism" means any living organism that possesses a novel combination of genetic material obtained through the use of modern biotechnology;
- ◊ "Modern biotechnology" means the application of:
 - a. In vitro nucleic acid techniques, including recombinant deoxyribonucleic acid (DNA) and direct injection of nucleic acid into cells or organelles, or
 - b. Fusion of cells beyond the taxonomic family, that overcome natural physiological reproductive or recombination barriers and that are not techniques used in traditional breeding and selection;

LMO definition from Cartagena Protocol

- ◆ "Living modified organism" means any living organism that possesses a novel combination of genetic material obtained through the use of modern biotechnology;
- ◆ "Modern biotechnology" means the application of:
 - a. In vitro nucleic acid techniques, including recombinant deoxyribonucleic acid (DNA) and direct injection of nucleic acid into cells or organelles, or
 - b. Fusion of cells beyond the taxonomic family,that overcome natural physiological reproductive or recombination barriers and that are not techniques used in traditional breeding and selection;

Compact GMO definition

Organism that possesses a novel combination of genetic material through the use of recombinant deoxyribonucleic acid (DNA) and direct injection of nucleic acid into cells that overcome natural barriers and are not traditional breeding techniques.

Dissected compact GMO definition

Organism that possesses:

I) a novel combination of genetic material

II) through the use of recombinant DNA and direct injection of nucleic acid into cells

III) that overcome natural barriers and are not traditional breeding techniques.

(I) and (II) operative criteria;

(III) of relative / sporadic relevance

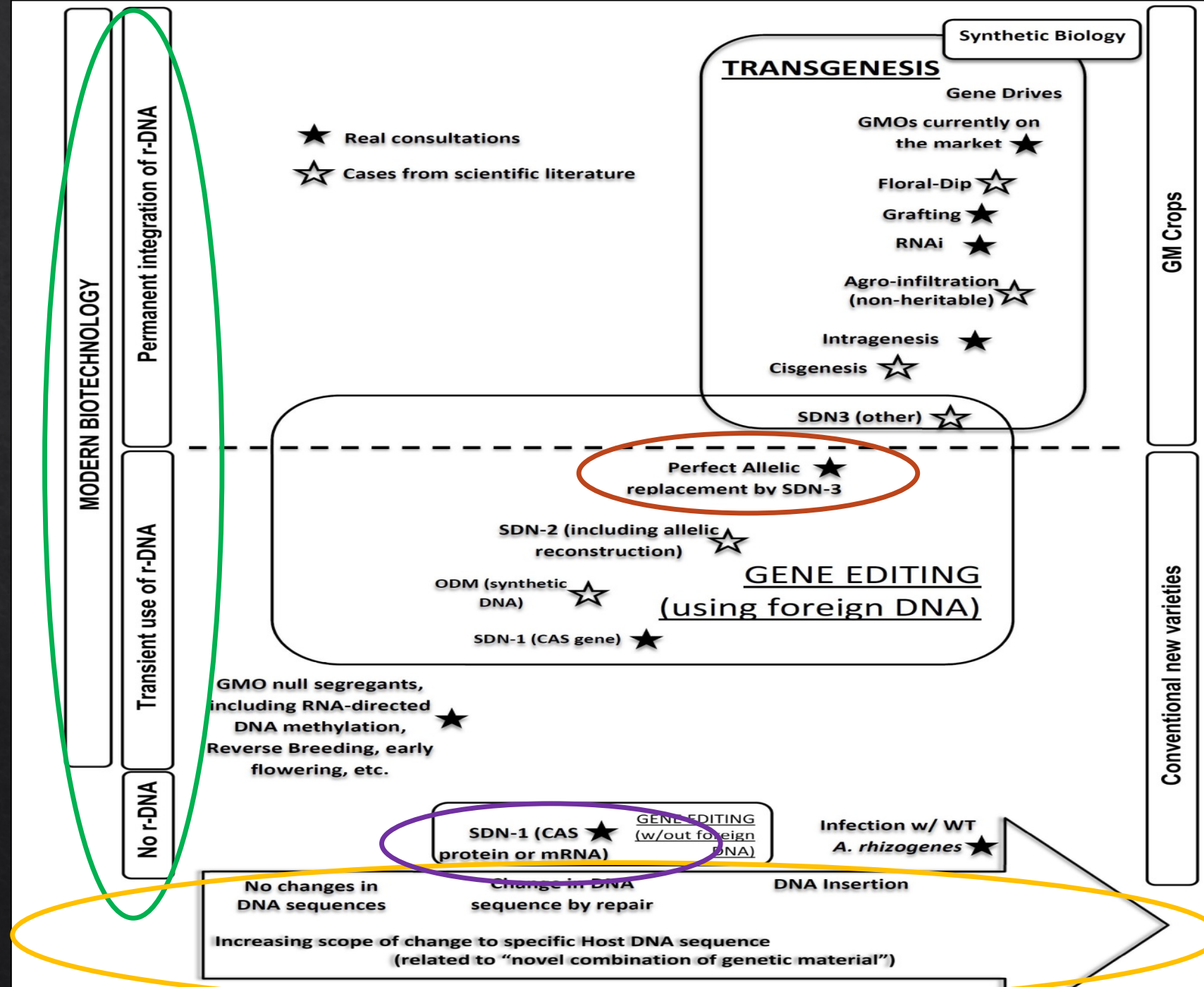
GMO / LMO

Organism that possesses:

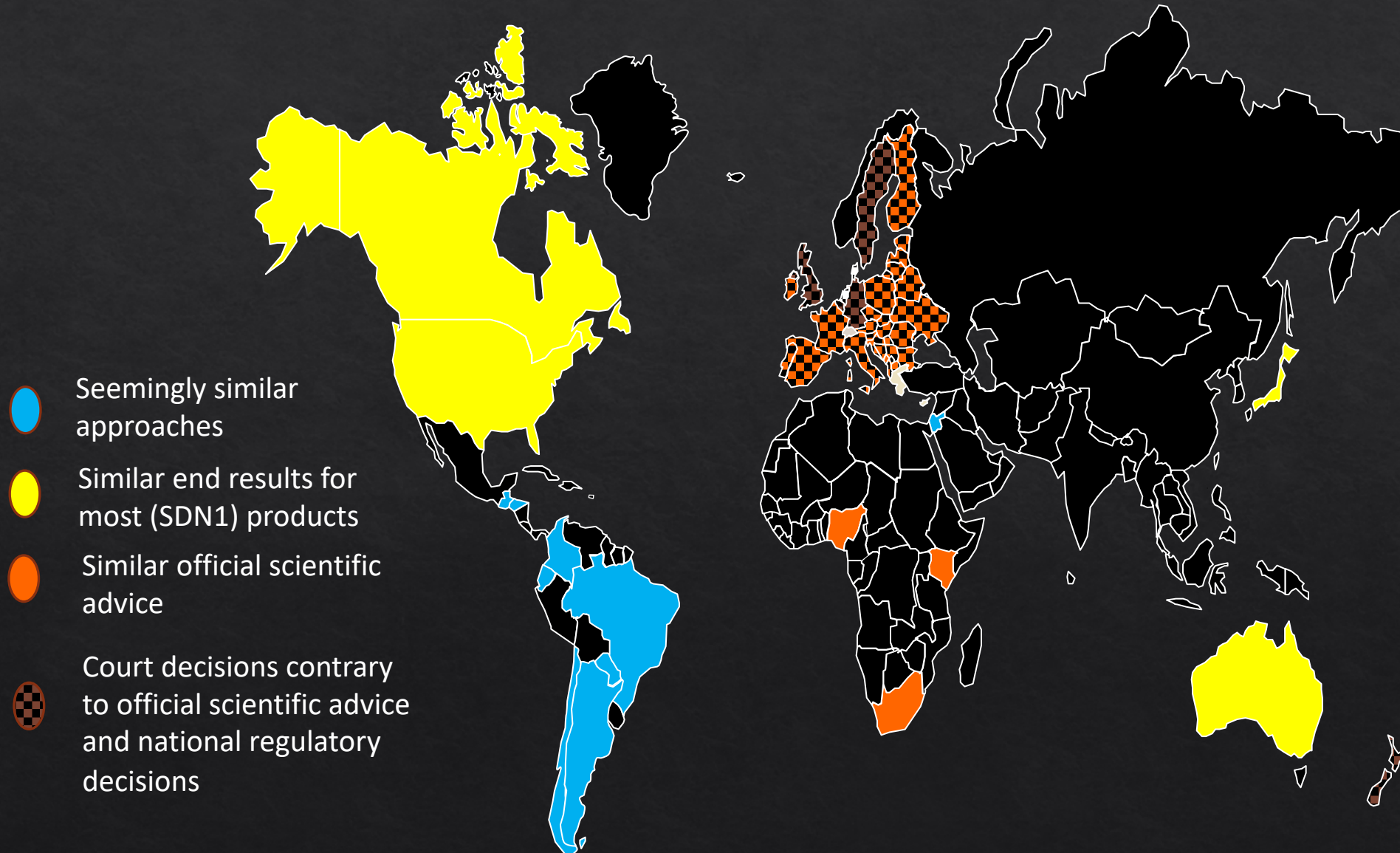
I) a novel combination of genetic material

II) through the use of recombinant DNA and direct injection of nucleic acid into cells

III) that overcome natural barriers and are not traditional breeding techniques.



Current situation



98-2007 SPS Panel on GMO: Canada, USA and Argentina against EC

- ◇ EFSA assessments favorable to complainants
- ◇ Precautionary principle/approach
- ◇ Observance of international technical standards
- ◇ Mutually agreed solution

WTO

-
- ◇ 2015-2019 Bilateral dialogues
 - ◇ 2018-19 Two Declarations in SPS meetings

203-... SPS Panel on Genome editing?

- ◇ Regulatory definitions
 - ◇ Harmonization
 - ◇ Official interpretation
- ◇ Official science advice



Truly thanks for
your attention



(online profile with publications
and more relevant contents)