



INTRODUCTION

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Characterizing a GMO Crop for Safety

Environmental

Does the new protein perform as expected?

Is the crop safe for non-target organisms?

Transgenic Plant



Ordinary corn with a precise amount of new DNA and known new protein(s)

Food and Feed Safety

- 1) Is the **new protein** safe from an allergy and toxicity perspective?
- 2) Is the crop's article of commerce (seed) safe?

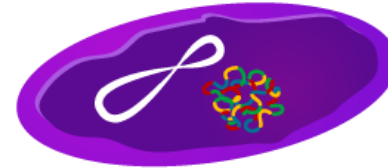


GMO protein production for safety testing

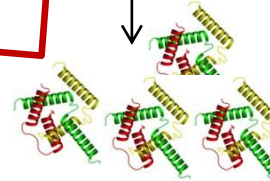
Transgenic Plant



E. Coli host for production of new GMO protein



Equal?



A microbial host is used to make GMO protein

Microbial produced protein is a surrogate for plant expressed transgenic protein

The concentration of the expressed transgenic protein in the plant tissue is low



Taking a look at the composition of the GMO plant

Transgenic Plant



Conventional Plant

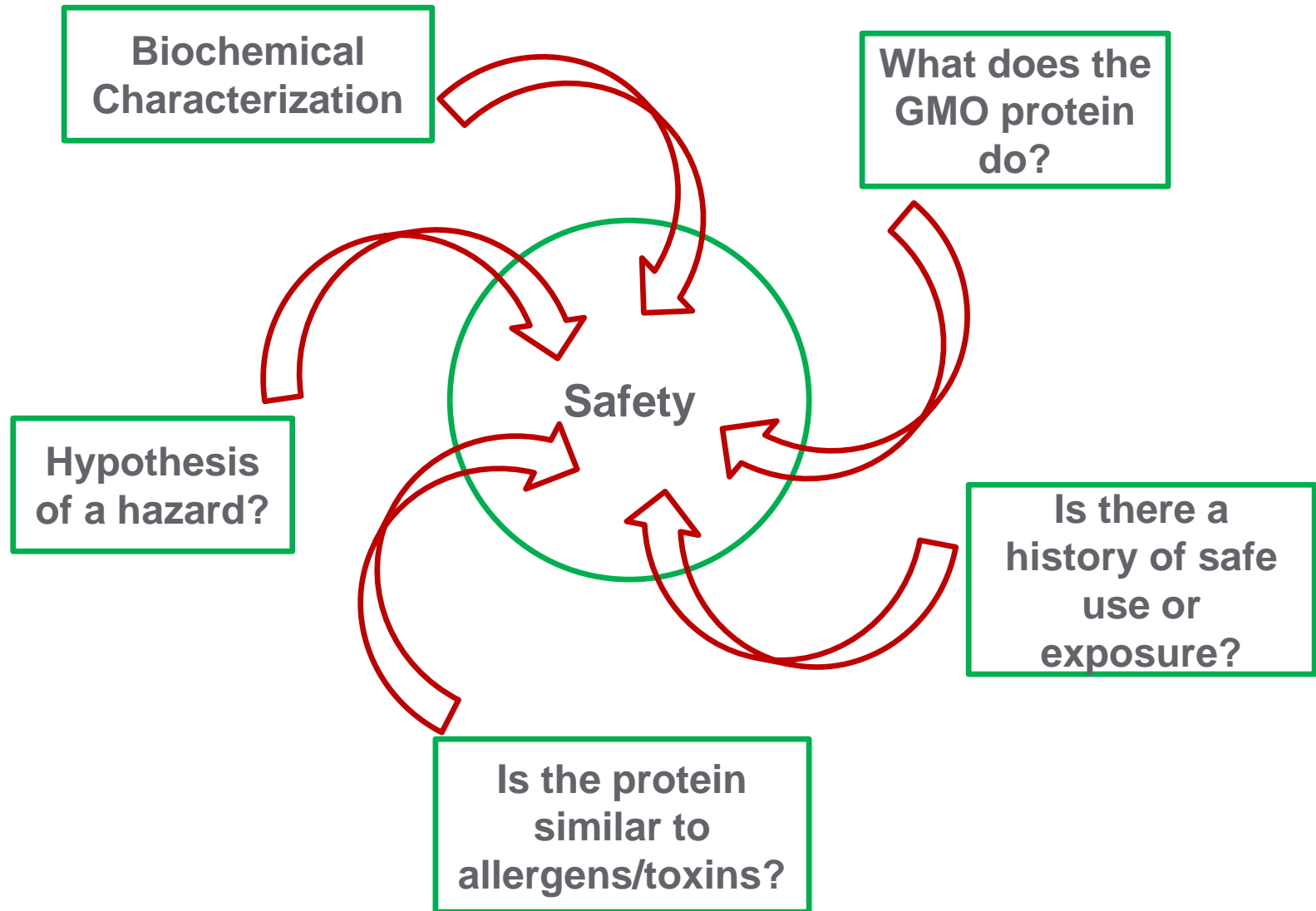


Is the GMO plant as-safe-as its counterpart?

Are there relevant differences?



Supporting Registrations of Safe GMOs



Thank You and enjoy the presentations!

