

### Why are we here today?



### Dansk Planteværn inviterer til ED-seminar 9. november

Forside / Nyheder / Presse / 2018 / Dansk Planteværn inviterer til ED-seminar 9. november



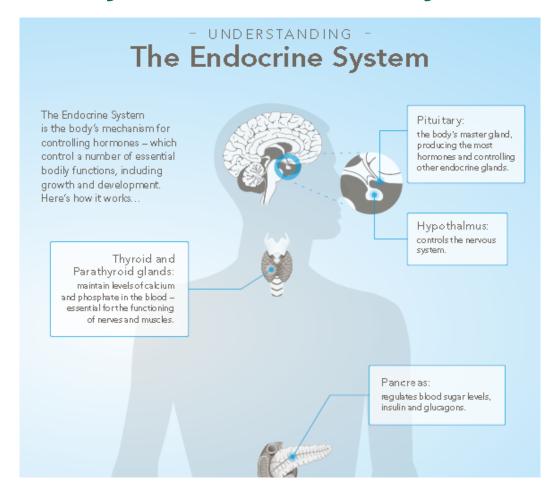
of 21 October 2009

concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

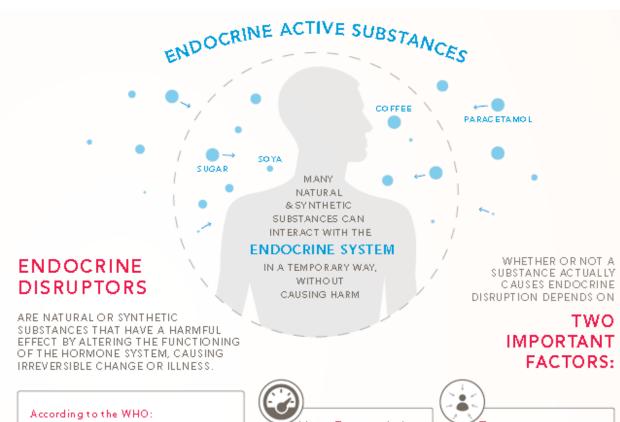




## What systems in the body are we referring to?



- Permanent / adverse impact



"An endocrine disruptor is an exogenous substance or mixture that alters function(s) of the endocrine system and consequently causes adverse health effects in an intact organism... A potential endocrine disruptor... possesses properties that might be expected to lead to endocrine disruption in an intact organism."

(http://www.who.int/ipcs/publications/ new issues/endocrine disruptors/en/)

#### How Potent it is.

A measure of a substance's strength: at similar dosages, a highly-potent. substance produces a areater effect than a substance of low potency.

#### Exposure to

the substance:

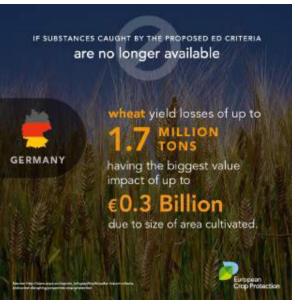
the levels or dose to which humans and the environment come in contact with it.

BOTH FACTORS ARE CRITICAL AND SHOULD BE TAKEN INTO ACCOUNT WHEN CONSIDERING THE POTENTIAL FOR ANY SUBSTANCE (BOTH NATURAL AND SYNTHETIC) TO CAUSE HARM.

Source: ECPA

### Why is this topic of interest to DCPA?

- Part of 1107/2009 and biopesticides regulations currently as cut-off criteria
- According to ECPA, current EU proposal would affect registered products up to 50 active ingredients could loose their registrations.
- Study sponsored by ECPA focused on 16 active ingredients and found that:
  - Their use in potatoes, barley, wheat, sugar beet, rapeseed, corn and grapes contributes to 34 69 million tons / between €4.1 €8.3bn of crop value
  - ▶ Imports of corn, OSR, and sugarbeets increase from 7 to 28 Mt
  - ▶ 500,000 jobs in EU at risk of being lost
  - EU wheat export would decrease by half
  - Carbon footprint negatively impacted
  - EU self-sufficency further in doubt



### Could these be some questions we should ask ourselves?

- Should our regulatory system be hazard or risk driven?
  - ▶ 1107/2009 is hazard based.
  - Danish tax system on Crop Protection Products is hazard based.
  - Risk assessments are used in registering products

 $RISK = HAZARD \times EXPOSURE$ 



# Hazard vs Risk

 $RISK = HAZARD \times EXPOSURE$ 





Watching a shark from the beach doesn't present a risk to your health **SWIMMING WITH IT DOES!** 

MANY SUBSTANCES THAT ARE VITAL IN SMALL AMOUNTS CAN BE LETHAL IN

LARGE DOSES



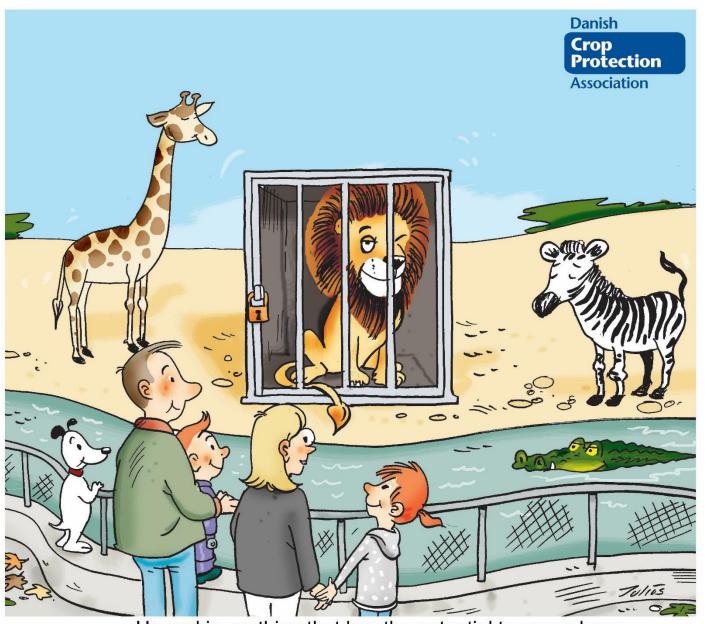




### Could these be some questions we should ask ourselves?

- Is there a challenge to define what Endocrine Disrupting Chemicals really are?
  - ► Endocrine so many different hormonal systems in the body which are all different
  - Disrupting is it really permanent? What is the binding strength?
  - Chemicals syntetic vs natural
- To what extent do they impact our health?
  - Are the concerns similar to the concerns raised when we discuss the "Cocktail effect"?
- What is science driven and what is politically motivated?
  - Who are involved? Toxicologists, medical professionals, environmentalists?
- What do we want? To feed the world, or worry about what we eat?





Hazard is anything that has the potential to cause harm Risk is an estimation of the chance you will be harmed by hazard - If you are not exposed to the hazard - no harm is being done