

COMMITTEE ON MUTAGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT (COM)

Germ cell mutagenesis, aging and disease in offspring: a scoping paper

1) This topic was discussed at the Horizon scanning exercise in June 2015. Members acknowledged that a large amount of data is becoming available and that it will be worthwhile monitoring developments in the area. The current paper aims to set out the subject by looking at germ cell mutagenesis, the process of meiosis, some elementary information on the paternal age effect and some data on the mutagenicity of air pollution as an example. It is hoped that this background information will provide sufficient detail to help Members establish whether it is possible and or necessary to examine in more detail the role of environmental chemicals or lifestyle factors on the male germ cell mutation rate in humans.

2) A number of questions are provided at the end of the paper to stimulate discussion with view to coming to a decision on how the Committee should proceed with this topic.

**Secretariat/PHE Toxicology Unit
October 2015**

ANNEX 1:

The annexes are not attached due to copyright reasons.