This is a background paper for discussion.
It does not reflect the views of the Committee and should not be cited.

CC/2023/05

COMMITTEE ON CARCINOGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT

For Information – Hill et al (2023) Lung adenocarcinoma promotion by air pollutants

1. A recent publication on promotion of lung adenocarcinoma by air pollutants (Hill et al, 2023) is presented for information at Annex A. This explores the role of air pollutants increasing lung cancer risk through inflammatory responses acting on existing mutations in the *EGFR* gene.

2. This paper has been discussed by the Committee on the Medical Effects of Air Pollutants (COMEAP) at its meeting on 10th July 2023, subsequent to a presentation from Professor Swanton at the November 2022 COMEAP meeting. The discussion paper from the July 2023 COMEAP meeting is attached at Annex B, and a verbal update on COMEAPs discussion will be provided at the COC meeting.

3. Also attached for context is the publication by Solt and Farber (1976) with respect to the role of promotion in carcinogenesis.

Secretariat
July 2023

References

Hill et al (2023). Lung adenocarcinoma promotion by air pollutants. Nature 616 (7955): 159-167.

Salt and Farber (1976). New principle for the analysis of chemical carcinogenesis. Nature 263: 701-703.

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CC/2023/05 Annex A

COMMITTEE ON CARCINOGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT

For Information – Hill et al (2023) Lung adenocarcinoma promotion by air pollutants

Publication by Hill et al (2023)

Hill et al (2023). Lung adenocarcinoma promotion by air pollutants. Nature 616 (7955): 159-167.

This paper is attached. It is not being made publicly available for copyright reasons but can be accessed using the reference provided.

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CC/2023/05 Annex B

COMMITTEE ON CARCINOGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT

For Information – Hill et al (2023) Lung adenocarcinoma promotion by air pollutants

COMEAP discussion paper COMEAP/2023/07

This paper is attached for COC members. It is available on request from the COMEAP Secretariat via air.pollution@ukhsa.gov.uk

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July 2023

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CC/2023/05 Annex C

COMMITTEE ON CARCINOGENICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT

For Information – Hill et al (2023) Lung adenocarcinoma promotion by air pollutants

Publication by Solt and Farber (1976)

Salt and Farber (1976). New principle for the analysis of chemical carcinogenesis. Nature 263: 701-703

This paper is attached. It is not being made publicly available for copyright reasons but can be accessed using the reference provided.

Secretariat
July 2023