

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

Horizon scanning 2019

Introduction

1. The Committee's Terms of Reference indicate that the primary role of the Committee is to advise on the carcinogenic risk of substances to humans at the request of Government departments and agencies.
2. Since 2001, the Committee has undertaken a regular Horizon Scanning exercise, in line with the Code of Practice for Scientific Advisory Committees, in which the Secretariat and/or Members have suggested areas/topics that may need consideration in the light of new and emerging evidence relating to cancer risk assessment.
3. This paper presents a brief update on work agreed at previous meetings and presents some new suggestions for discussion provided by the Secretariat and Assessors. In addition it includes an update on topics being considered by IARC and the EU Scientific Committees.

Topics from horizon scanning 2018

4. Below are the topics agreed at the horizon scan in 2018, though in no specific order of priority:
 - Immunological and stromal cell modulations relevant to cancer risk – to continue discussion from November 2018
 - Presentation to provide background on the microbiome
 - Unusually potent non-genotoxic carcinogens
 - Integrating toxicological and epidemiological evidence, with COT as follow up to SEES subgroup
 - Nanomaterials
 - Mechanisms incorporating genomics and the Cancer Genome Atlas
 - Effect of early life exposure to cigarettes, depending on COT deliberations on developmental effects of nicotine
 - In vitro systems - to be undertaken when resource allows

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5. At the July 2019 follow up discussion to these topics (CC/2019/12), it was agreed that short taster presentations could be a useful means of the COC undertaking an initial exploration of a topic area to consider whether it might affect how risk of carcinogenicity is assessed. The Committee could then determine whether it should undertake more detailed assessment of the area.

Immunological and stromal cell modulations relevant to cancer risk

6. Following the presentation at the November 2018 meeting, a short update briefing will be given at the present meeting.

Presentation to provide background on the microbiome

7. This presentation is planned for 2020.

Unusually potent non-genotoxic carcinogens

8. An initial taster presentation is planned on this for 2020.

Integrating toxicological and epidemiological evidence, with COT as follow up to SEES subgroup

9. A discussion paper on the SETE subgroup was presented at the July 2019 meeting, after which Members volunteered to participate in the subgroup. An initial teleconference will take place on 19th November for those involved.

Nanomaterials

10. This has not progressed since the last horizon scanning exercise. The Committee has previously indicated an interest in possible asbestos-like effects and the potential inhalation risks from nanomaterials.

Mechanisms incorporating genomics and the Cancer Genome Atlas

11. Members views on the priority of this and whether to have an initial thought-starter discussion would be welcomed.

Effect of early life exposure to cigarettes, depending on COT deliberations on developmental effects of nicotine

12. The COT considerations on effects of nicotine are ongoing and the Secretariat is awaiting the outcome of the COT deliberation before investigating the COC considering the effect of early life exposure to cigarettes.

In vitro systems – to be undertaken when resource allows

13. At the discussion in July 2019, it was suggested that this topic be broadened to cover *in silico* approaches, artificial intelligence, focussing on reduction,

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replacement and refinement and ensuring risk assessments focus on potential for human carcinogenicity. This was another topic that could have a short initial exploration before determining any specific areas to address.

New topics

14. The Secretariat does not have any specific suggestions for new topic areas to add to the horizon scan list – do Members?

Upcoming IARC meetings

15. IARC have three upcoming meetings on their website with respect to the Monograph series (<http://monographs.iarc.fr/ENG/Meetings/index.php>) :

- Meeting 125 on some industrial chemicals (5-11 November 2019) including:
 - 1-Bromo-3-chloropropane [CAS No. 109-70-6]
 - butyl 2,3-epoxypropylether [CAS No. 2426-08-6]
 - p-chloro-alpha,alpha,alpha-trifluoroethylene [CAS No. 98-56-6]
 - glycidyl methacrylate [CAS No 106-91-2]
 - allyl chloride [CAS No. 107-05-1]
- Meeting 126 on opium (24-31 March 2020)
- Meeting 127 on some aromatic amines and related compounds (26 May-2 June 2020) including:
 - ortho-Anisidine (CAS No. 90-04-0)/ortho-Anisidine hydrochloride (CAS No. 134-29-2)
 - ortho-Nitroanisole (CAS No. 91-23-6)
 - Aniline (CAS No. 62-53-3)/Aniline hydrochloride (CAS No. 142-04-1)
 - Cupferron (CAS No. 135-20-6)

Upcoming EU Scientific Committee topics

16. The agenda of recent EU Scientific Committee on Consumer Safety (SCCS) Plenary meetings are attached in Annex A. In addition, the SCCS has working groups on:

- Cosmetic Ingredients
- Nanomaterials in Cosmetic Products, and
- Methodologies.

17. The agenda of the recent EU Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) Plenary meetings are attached in Annex B. In addition, the SCHEER has working groups on:

- Aluminium in toys (last meeting 27/09/2017)
- Anaerobic biodegradation of linear alkylbenzene sulphonates (last meeting 24/10/2019) – NEW

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- Safety of breast implants in relation to anaplastic large cell lymphoma (last meeting 24/07/2019) - NEW
- E-cigarettes (last meeting 02/10/2019)
- Emerging environmental risks (latest meeting 11/09/2018)
- Emerging issues at the environment-social interface (last meeting 04/07/2019)
- Fuel marker (last meeting 09/01/2019)
- Guidelines on the benefit-risk assessment of the presence of phthalates in certain medical devices (latest meeting 05-06/06/2019)
- Guidance on the structure and contents of SCHEER opinions (last meeting 17/06/2016)
- Potential risks to human health of light emitting diodes (last meeting 02/03/2018)
- Non-human primates testing (last meeting 02/05/2017)
- Onshore hydrocarbon exploration and production in the EU (last meeting 24/09/2018)
- Safety of PIP silicone breast implants (last meeting 10/10/2017)
- Rapid risk assessment (latest meeting 15/05/2019)
- Sunbeds (last meeting 24-25/10/2016)
- Tobacco additives (last meeting 24/06/2016)
- UVC lamps (last meeting 18/01/2017)
- Weight of evidence and uncertainties (last meeting 08/02/2018)
- Water Framework Directive (last meeting 01/06/2017), and
- Water reuse (last meeting 12/05/2017).

18. The European Food Safety Authority has a substantial body of work across its Scientific Committee and Panels. More detail is available here:

<https://www.efsa.europa.eu/en/science/scientific-committee-and-panels>. EFSA

currently has open consultations on a number of substances, and also on methodological questions. The full list of open consultations is here:

<https://www.efsa.europa.eu/en/calls/consultations><https://www.efsa.europa.eu/en/calls/consultations>. Expected upcoming consultations are here:

<https://www.efsa.europa.eu/en/consultations/consultationsplanner>, and includes a proposed consultation on scientific guidance on appraising and integrating evidence from epidemiological studies for use in EFSA's scientific assessments.

Balance of expertise on the Committee

19. The balance of expertise required by the Committee, as confirmed at the last horizon scan in 2018, is provided in Annex C. It is not anticipated that individual

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members are required for each aspect of expertise as some people would have a combination of the required skills. Additional key experts can also be invited to attend meetings for specific topics to supplement missing knowledge within the Committee.

20. Members are invited to comment on whether this template is still appropriate and if there are important gaps amongst the current membership or in light of possible future developments.

Questions for the Committee

21. Members are asked to consider the list of topics from 2018 and other aspects summarised and in particular:

- a. Are there any additional topics of interest or importance which the COC should consider?
- b. Could the Committee to prioritise the topic areas for consideration?

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November 2019

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CC/2019/13 Annex A

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

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Agendas and minutes of Scientific Committee on Consumer Safety Plenary Sessions 2016-2021 10th and 11th (agenda only) meetings

Available:

https://ec.europa.eu/health/scientific_committees/consumer_safety/minutes_plenary_en

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CC/2019/13 Annex B

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

Horizon scanning 2019

Agenda and minutes of the Scientific Committee on Health, Environmental and
Emerging Risks Plenary meetings 2016-2021 12th, 13th and 14th meetings.

Available:

https://ec.europa.eu/health/scientific_committees/scheer/minutes_plenary_en

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CC/2019/13 Annex C

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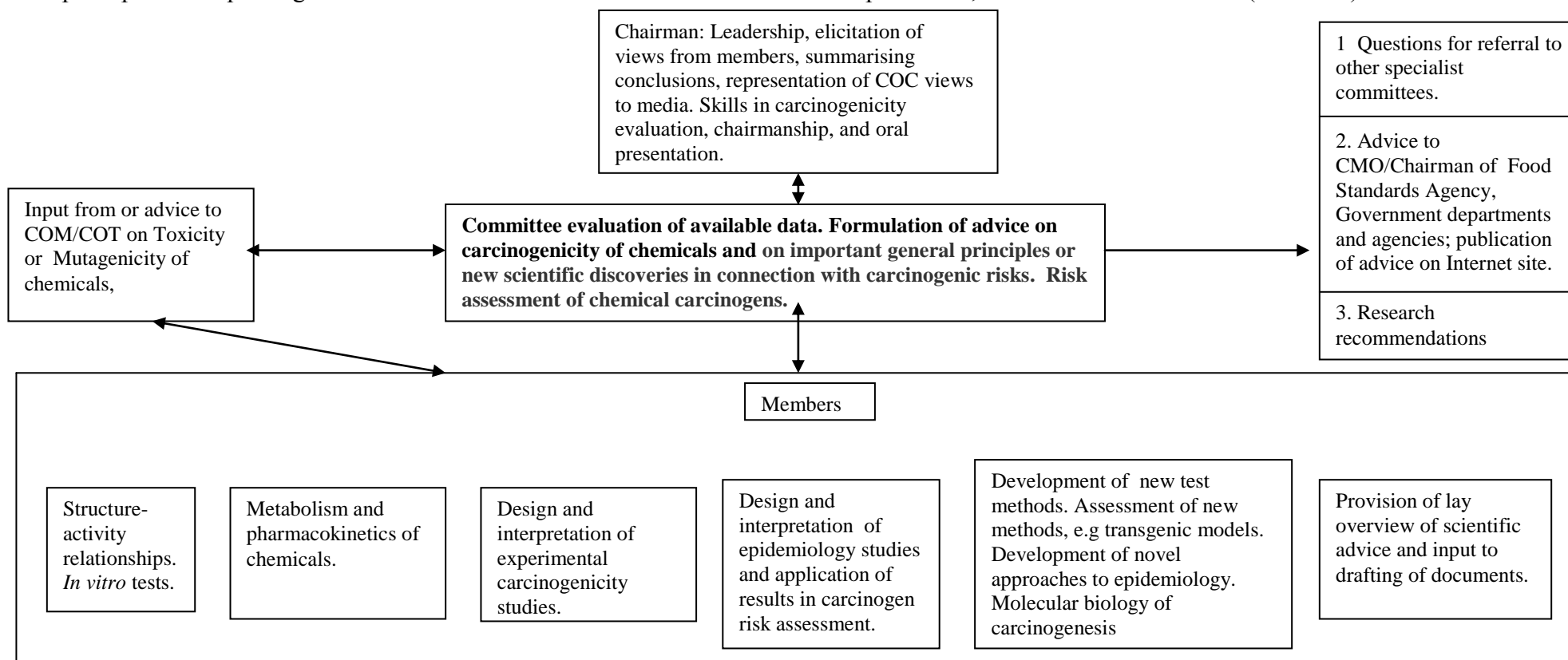
Balance of Expertise for COC

**Secretariat
November 2019**

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

TEMPLATE FOR COC 2012

The template is designed to show the skills and expertise required to deliver the business of the committee. The complement of the COC is 11 members (9 specialists and 2 lay members), a chairman and the COM chairman (ex-officio capacity). The committee aims to follow the guiding principles underpinning the humane use of animals in scientific research i.e. replacement, reduction and refinement ('the 3Rs').



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