

# European Commission's Group of

Chief Scientific Advisors

Scientific Opinion - 'Environmental and Health Risks of Microplastic Pollution'



72nd MEETING OF THE EFSA ADVISORY FORUM

Research and Innovation

4 July 2019



# **Group of Chief Scientific Advisors**



Janusz Bujnicki Biology (Poland)



Pearl Dykstra Sociology (Netherlands)



Elvira Fortunato Materials Science (Portugal)



Nicole Grobert Chemistry (DE/UK)



Rolf-Dieter Heuer Physics (Germany)



Carina Keskitalo Political Sciences (Sweden)



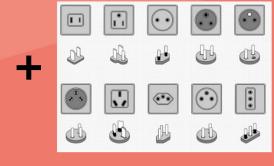
Sir Paul Nurse Genetics (UK)



#### **Group of Chief Scientific Advisors**







## **Expert Scientists**

evidence review all published data policy options

# **Group of Chief Scientific Advisors**

evidence synthesis and recommendations

## SAM Unit: Intrinsic connectors

monitor the needs of the advisee, policy context, timing, format, relevance

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#### **GROUP OF CHIEF SCIENTIFIC ADVISORS**

















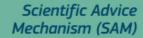


New techniques in







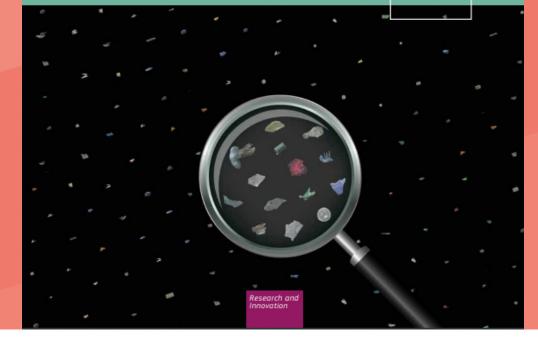


Environmental and Health Risks of

# **Microplastic Pollution**

Group of Chief Scientific Advisors Scientific Opinion 6/2019

Independent Expert Report



## **TIMELINE** European 13/15 February 2019 Commission G7 & AAAS G7 **13 December 2018** SAPEA ERR

25 April 2019 Stakeholders' Workshop **EFSA** 22 March2019 **Sounding Board Meeting EFSA** 10/11 January 2019 **Experts' Workshop EFSA** 

30 April 2019

Scientific Opinion

26 April 2018

**Expert Consultation** meeting

SAPEA WG

30 August 2018

**15 November 2018 Policy Context** 

**EFSA** 

9 July 2018

**Initial Statement** 

Research and Innovation

29 November 2017

Oceans

Microplastic pollution in our Scientific Opinion on "Food from the Oceans"

# **EVIDENCE REVIEW REPORT 10 JAN 2019**

Professor Bart Koelmans, University of Wageningen (Netherlands), Chair Associate Professor Dr Sabine Pahl, University of Plymouth (United Kingdom), Vice-

Chair

**Professor Thomas Backhaus,** University of Gothenburg (Sweden)

**Dr Filipa Bessa**, University of Coimbra (Portugal)

Professor Geert van Calster, KU Leuven (Belgium)

Dr Nadja Contzen, University of Groningen (Netherlands)

Richard Cronin, Water and Marine Advisory Unit (Ireland)

**Professor Tamara Galloway,** University of Exeter (United Kingdom)

**Professor Andy Hart,** Newcastle University (United Kingdom)

**Dr Lesley Henderson,** Brunel University London (United Kingdom)

Assistant Professor Dr Gabriela Kalčíková, University of Ljubljana (Slovenia)

Professor Frank Kelly, King's College London (United Kingdom)

**Dr Bartlomiej Kolodziejczyk,** Stockholm University (Sweden)

**Professor Elda Marku,** University of Tirana (Albania)

Professor Wouter Poortinga, Cardiff University (Wales, United Kingdom)

**Professor Matthias Rillig, Freie University Berlin (Germany)** 

Associate Professor Dr Erik Van Sebille, Utrecht University (Netherlands)

Professor Linda Steg, University of Groningen (Netherlands)

**Professor Josef Steidl,** Czech Technical University Prague (Czech Republic)

**Dr Julia Steinhorst,** Institute for Advanced Sustainability Studies (Germany)

**Associate Professor Dr Kristian Syberg,** Roskilde University (Denmark)

**Professor Richard Thompson,** University of Plymouth (United Kingdom)

Associate Professor Dr Martin Wagner, Norwegian University of Science and T

Professor Annemarie van Wezel, KWR Watercycle Research Institute and Utred

**Dr Kayleigh Wyles,** University of Surrey (United Kingdom)

Dr Stephanie Wright, King's College London (United Kingdom)



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1

- Broaden policy cover to prevent and reduce microplastic pollution
  - Microplastics in water, air and soil
  - Nanoplastics knowledge gaps (presence, concentration, and behavior)
  - Substance- and context-specific; uses posing the highest potential risks



2

- Address wider socio-economic and trade-off implications of microplastic pollution policy actions
  - Political and socio-economic feasibility (trade-offs, substitution strategies/alternatives, life-cycle assessments, and cost-benefit calculations)
  - A catalyst for other environment and health protection issues



3

- Promote global cooperation, high-quality scientific exchange and policy coherence
  - Global scientific platform
  - Shared and cross-border access to standardised data
  - Quality and pertinence of scientific studies of microplastics (detection, measurement and analysis, risk/impact assessment methodologies)
  - Experimental procedures and meta data; dose/response and no-effect studies





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4 July 2019, Brussels

Thank you

