

ANNUAL DECLARATION OF INTERESTS (ADoI)

(Please note that high quality of scientific expertise is by nature based on prior experience and that therefore having an interest does not necessarily mean having a conflict of interest)

Name: MAST, Jan

Title: Dr.

Profession: Scientist

Current EFSA involvements: Hearing Expert-FAF Panel 2018-2024 (FAF), Member-Cross-cutting WG nanotechnologies (SCER), Member-FAF WG on Titanium dioxide (E171) (FAF), Member-WG on Specifications of Food Additives (FAF), Hearing Expert-WG on the re-evaluation of remaining food additives other than colours and sweeteners (FAF)

Nature of Activities	Period	Organisation	Subject matter
I. Financial investments			NO INTEREST
II. Managerial role			NO INTEREST
III. Member of a scientific advisory entity	10/2020 - 07/2021	-Name: FASFC & Sci Com-FASFC, Belgian Federal Agency for the Safety of the Food Chain and Scientific Committee of the Federal Agency for the Safety of the Food Chain, BELGIUM, Brussels	External expert of the work group SCICOM 2020/16 of the scientific commission of the Belgian Federal Agency for the Safety of the Food Chain (FASFC; Belgium Brussels) to provide scientific advice on the effect of the application of E171 (TiO ₂) in food on the health. The advice will be formulated when the advice of the EFSA WG on E171 is available. Impact on annual earnings: 0%

	10/2017 - 09/2020	-Name: Joint Research Centre (JRC), JRC, Geel, BELGIUM	<p>The RMRP supports Unit F.6 by providing an external review of its new reference materials (RMs) prior to their release to the public. The review will provide the Unit with suggestions how to improve e.g. the technical documentation linked to the new RM, highlight scientific technical inconsistencies in the documentation or the way the RM was developed and produced and provide general technical comments on the way Unit F.6 develops and produces RMs.</p> <p>Impact on annual earnings: >0% and <5%</p>
	01/2014 - 10/2017	<p>-Name: Certification Advisory Panel (CAP)</p> <p>“Physicochemical/physical properties” of the Standards for Innovation and sustainable Development (SID) Unit of Joint Research Centre Institute for Reference Materials and Measurements (CAP JRC-IRMM), Certification Advisory Panel (CAP) “Physicochemical/physical properties” of the Standards for Innovation and sustainable Development (SID) Unit of Joint Research Centre Institute for Reference Materials and Measurements, Geel, BELGIUM</p>	<p>The work consists of participating as an expert in the Certification Advisory Panel (CAP) “Physicochemical/physical properties” of the Standards for Innovation and sustainable Development (SID) Unit of JRC-IRMM.</p> <p>The activities consist of receiving drafts of certification reports and certificates of candidate reference materials in my field of expertise, reviewing the drafts, sending my observations to the CAP secretary before the meeting, discussing them in the meeting at JRC-IRMM and sending final comments.</p> <p>Activities are impartially, in a totally independent manner, in my personal capacity and to the best of my abilities, professional skills, knowledge and ethics.</p> <p>This research activity is not subject to private (industry) funding.</p> <p>Impact on annual earnings: >0% and <5%</p>

IV. Employment	04/2018 - now	-Name: Sciensano (Sciensano), Sciensano, Brussels, BELGIUM	<p>Sciensano can count on more than 700 staff members who commit themselves, day after day, to achieve our motto: Healthy all life long. As our name suggests, science and health are central to our mission. Sciensano's strength and uniqueness lie within the holistic and multidisciplinary approach to health. More particularly we focus on the close and indissoluble interconnection between human and animal health and their environment (the "One health" concept). By combining different research perspectives within this framework, Sciensano contributes in its unique way to everybody's health. For this, Sciensano builds on the more than 100 years of scientific expertise of the former Veterinary and Agrochemical Research Centre (CODA-CERVA) and the ex-Scientific Institute of Public Health (WIV-ISP).</p> <p>Jan Mast is head of the service "Trace Elements and Nanomaterials", responsible to quantify, identify and characterise trace elements and nanoparticles with their underlying risks.</p> <p>Jan Mast develops, validates and applies methodologies for physicochemical characterization of various types of (nano)materials, including the nano-sized fraction of particles in food additives. The results of this research are communicated to governmental instances as reports of the research projects and in peer-reviewed publications such that they can be used as input for hazard and exposure identification. These are not directly related to the establishment of specifications for food additives and do not overlap with the mandate of the WG.</p> <p>The service "Trace Elements and Nanomaterials" of Sciensano is the National Reference Laboratory of the Belgian Federal Agency for the Safety of the Food Chain (FASFC). for Trace Elements in Food and Feed (NRL-TE), as National Reference Laboratory for Nanomaterials (NRL-NANO) and as National Reference Laboratory for the migration of inorganic elements from Food Contact Materials (NRL-FCM). Jan Mast has a statutory position. His salary is paid by the Belgian federal government and is independent from external funding of Sciensano.</p> <p>Impact on annual earnings: >25%</p>
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	09/2000 - 03/2018	-Name: CODA-CERVA	<p>CODA-CERVA (Veterinary and Agrochemical Research Centre) was a Federal scientific research establishment. Its core activities consisted of scientific research, expert advice, efficient provision of services in the veterinary and agrochemical fields of activities. It contributed to a proactive policy in terms of food production safety, animal health and public health, at both the Federal and international levels : it supported the preparation of the Federal Public Service for Public Health, food chain safety and environment and of the Federal Agency for the Safety of the Food Chain (FAFSC). CODA-CERVA was under the wardship of the Minister of SMCs, Independent workers, Agriculture and Scientific policy, and was administratively connected to the Federal Public Service for Public Health, Food Chain Safety and Environment. Less than 2 % of these activities were subject to private or industrial funding.</p> <p>In this context, Jan Mast had risk management responsibilities regarding (re-)emerging infectious diseases, focusing on their diagnosis by transmission electron microscopy.</p> <p>Jan Mast developed, validated and applied methodologies for physicochemical characterization of various types of (nano)materials, including the nano-sized fraction of particles in food additives.</p> <p>The results of this research were applied as input for risk analyses: nanomaterials were identified, characterized before and during toxicological analyses and the form of (nano)materials that cells and organisms are exposed to, was determined. These risk management responsibilities are not directly related to the establishment of specifications for food additives and do not overlap with the mandate of the WG.</p> <p>Impact on annual earnings: >25%</p>
V. Occasional consultancy	09/2014 - 10/2018	-Name: Technical University of Dresden (TUDresden), Technical University of Dresden, Germany, Dresden, Dresden, GERMANY	<p>Sub-contracted expert in Electron Microscopy technique for aiding development and writing of CEN Technical Specification (TS): "Guidance on detection and identification of known nano-objects in complex matrices" to be developed under CEN Working Group CEN/TC 352/WG 3 on: "Nanotechnologies: Health, safety and environmental aspects". Jan Mast is sub-contracted by TU Dresden that, in cooperation with other beneficiaries, has been awarded a Service Contract by the Association Francaise de Normalisation (AFNOR) entitled to "Guidance on detection and identification of nanoparticles and other nanoscale entities (in all media types, including waste streams from manufacturing and manufacturing discharges" (2012/06.3) within the context of the agreement designated «Framework Partnership Agreement Number FPA/CEN/ENTR/2009/C(2008)8758» between the European Commission and CEN (reference SA/CEN/ENTS/461/2012-06 Nanotechnologies).</p> <p>This research activity is not subject to private (industry) funding.</p> <p>Impact on annual earnings: 0%</p>
VI. Research funding	01/2019 - now	-Name: Sciensano, Sciensano, BELGIUM, Brussels	<p>The TE routine project includes activities related to the trace element analysis in samples for external clients (governmental institutions, universities, industries). Deliverables are analysis reports. This activity is (partly) subject to private funding in the order of 8 % of the total budget of the service Trace Elements and Nanomaterials.</p> <p>The aim of these research activities is to support the development and maintenance of our analytical expertise on 'real-world-samples' in the context of our tasks as national reference laboratory in compliance with national regulatory legislation. These activities are unrelated to the salary of Jan Mast.</p>

	01/2019 - now	-Name: Sciensano, Sciensano, BELGIUM, Brussels	The Trace Elements-Research Collaborations project cludes various research projects and contracts in which the trace element unit of Sciensano conducts trace element analysis in samples of research projects for other internal, university or governmental research groups. This research activity is not subject to private funding.
	01/2019 - now	-Name: Sciensano, Sciensano, BELGIUM, Brussels	The EM routine project includes activities related to the TEM analysis of VLPs and nanomaterials in samples for external clients (governmental institutions, universities, industries). Deliverables are analysis reports. This activity is (partly) subject to private funding in the order of 5 % of the total budget of the service Trace Elements and Nanomaterials. The aim of these research activities is to support the development and maintenance of our analytical expertise on 'real-world-samples' in the context of our tasks as national reference laboratory in compliance with national regulatory legislation. These activities are unrelated to the salary of Jan Mast.
	01/2017 - now	-Name: FASFC & Sci Com-FASFC, Belgian Federal Agency for the Safety of the Food Chain and Scientific Committee of the Federal Agency for the Safety of the Food Chain, BELGIUM, Brussels	The Service Trace Elements and Nanomaterials of Sciensano operates as National Reference Laboratory for Trace Elements in Food and Feed (NRL-TE), as National Reference Laboratory for Nanomaterials (NRL-NANO) and as National Reference Laboratory for the migration of inorganic elements from Food Contact Materials (NRL-FCM). The core tasks of these NRLs are the scientific and technical assistance of the competent authorities and of official laboratories appointed by the Federal Agency for the Safety of the Food Chain, as well as the organisation of proficiency tests among the official laboratories. This research activity is not subject to private industry funding.
	02/2021 - 01/2023	-Name: EFSA, European Food Safety Authority, Italy, Parma	Grant agreement for an action with multiple beneficiaries (Agreement number – GP/EFSA/SCER/2020/04) on the 'Use of New Approach Methodologies (NAMs) for the hazard assessment of nanofibers. Lot 1: nanocellulose oral exposure: gastrointestinal digestion, nanofibers uptake and local effects' (Acronym Nanocellup) This research project is not subject to private funding.
	10/2020 - 09/2022	-Name: Sciensano, BELGIUM, Brussels	Research project: Evaluation of the types, efficient use and health risks of application of silver-based biocides to provide antimicrobial properties to face masks applied during the COVID-19 crisis. Acronym: AgMask. The AgMask COVID-19 project evaluates the types, efficiency and potential health risks of silver-based biocides that gives antimicrobial properties to face masks. During this project, Sciensano's expertise in analytical electron microscopy, heavy metal analysis and risk analysis is combined with VITO's breathing simulation and air sampling infrastructure. This unique collaboration allows us to: <ul style="list-style-type: none"> • characterize the silver-based biocides in face masks in situ • estimate the exposure by inhalation to silver ions and to silver (nano) particles • assess the main external factors that determine the release of silver-based biocide • determine the risk of the application of silver-based biocides in different types of face masks available on the Belgian market. This research project is not subject to private funding.

	10/2018 - 12/2020	-Name: EFSA, European Food Safety Authority, Italy, Parma	The EFSA-nano research project aims, with the support of EFSA and the service Contractual Research of the FPS Public Health, to implement methodologies developed in the nanofood@ project for characterization of the nanofraction in food additives E171, E174 and E175, in a systematic and larger scale examination of food additives and food items containing them, available on the market. This research activity is not subject to private industry funding.
	10/2018 - 09/2019	-Name: SPF santé publique, Federal Public Service (FPS), Health, Food Chain Safety and Environment, BELGIUM, Brussels	The aim of the LECAHUNT research project is to collect, report and interpret representative data on the presence of Pb in edible meat of big game (roe deer, wild boar and red deer) shot in Belgium, in the context of a potential health risk due to the presence of Pb in big game meat shot with Pb containing ammunition. This research activity is not subject to private funding.
	10/2018 - 09/2019	-Name: SPF santé publique, Federal Public Service (FPS), Health, Food Chain Safety and Environment, BELGIUM, Brussels	In the context of a potential health risk due to the presence of Pb in big game meat shot with Pb containing ammunition, The aim of the LECAHUNT research project is to collect, report an interpret representative data on the presence of Pb in edible meat of big game (roe deer, wild boar and red deer) shot in Belgium.
	10/2016 - 09/2019	-Name: SPF santé publique, Federal Public Service (FPS), Health, Food Chain Safety and Environment, BELGIUM, Brussels	Research project: RCO RF16/6306/nanofood@ 2016-2018: "Implementation and validation of an approach to assess the fraction of engineered nanomaterials in food additives" (acronym: nanofood@). Promotor: Jan Mast Deliverables: scientific reports and publications This research activity is no subject to private funding.
	10/2015 - 01/2019	-Name: SPF santé publique, Federal Public Service (FPS), Health, Food Chain Safety and Environment, BELGIUM, Brussels	The Minoil research project analyses mineral oil migration from cardboard food contact materials: hazard identification and exposure assessment of the Belgian population. This research activity is not subject to private funding.
	12/2016 - 12/2018	-Name: SPF santé publique, Federal Public Service (FPS), Health, Food Chain Safety and Environment, BELGIUM, Brussels	Study on the "Physico-chemical characterization of the fraction of engineered nanomaterials in silver (E174) food additives in the context of risk assessment" (Acroniem NanoAg@). Deliverables: Scientific reports and publications. This research activity is no subject to private funding.
	03/2016 - 12/2018	-Name: FPS Science Policy (BELSPO), Belgium	Research project:BELSPO BRAIN.Be (BR/154/A4/To2DeNano) 2016-2018: "Towards a toxicological relevant definition of nanomaterials" (acronym: To2DeNano) Coordinator: Peter Hoet (KULeuven). Partner: Jan Mast; 4 partners Deliverables: reports and scientific publications This research activity is no subject to private funding.

	10/2013 - 10/2017	-Name: European Commission (EC) FP7	<p>'NanoDefine' is a 4-year project funded under the European Framework Programme (FP) 7 which looks to establish the measurement tools and scientific data that help to implement the EU recommendation on the definition of a nanomaterial.</p> <p>Researchers have come a long way in exploring the full potential of nano as a key enabling technology, yet, there are still uncertainties surrounding environment, health and safety (EHS) issues and important questions that need to be addressed, most notably defining what is or isn't a nanomaterial. A key challenge exists in the development of methods that reliably identify, characterise and measure nanomaterials both as in substance form and in various products and matrices. In response, the European Commission has recently recommended a definition of the term 'nanomaterial' [pdf].</p> <p>Based on a comprehensive evaluation of existing methodologies and a rigorous intra-lab and inter-lab comparison, the NanoDefine project will develop validated measurement methods and instruments that are robust, readily implementable, cost-effective and capable to reliably measure the size of particles in the range of 1 - 100 nm, with different shapes, coatings and for the widest possible range of materials, in various complex media and products. Practical case studies will be undertaken to assess their applicability for various sectors, including food/feed, cosmetics etc.</p> <p>One major outcome of the project will be the establishment of an integrated tiered approach including validated rapid screening methods (tier 1) and validated in depth methods (tier 2), with a user manual to guide end-users, such as manufacturers, regulatory bodies and contract laboratories, to implement the developed methodology.</p> <p>This research activity is no subject to private funding.</p>
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	03/2013 - 08/2017	-Name: European Commission (EC) FP7	<p>Project Title: A common European approach to the regulatory testing of nanomaterials Project acronym: NANoREG</p> <p>The apparently unlimited innovative and economic potential of manufactured or engineered nano materials (MNMs) stands in sharp contrast to our current understanding of MNM safety. Acceleration in reducing the uncertainties about risks must be given more attention, partly because social concern is expected to increase, but also because Industry needs to reduce time to market for new products.</p> <p>Safe production and use of nanomaterials, contributing to consumer confidence was the ultimate goal of this project, which brought together the activities of national authorities responsible for worker protection, public health and environment and create the basis for common approaches, mutually acceptable datasets and risk management practices.</p> <p>The scientific and technical objectives of this project were: To provide legislators with a set of tools for risk assessment and decision making instruments for the short to medium term, by gathering data and performing pilot risk assessment, including exposure monitoring and control, for a selected number of nanomaterials used in products. To develop for the long term, new testing strategies adapted to a high number of nanomaterials where many factors can affect their environmental and health impact. To establish a close collaboration among authorities and industry with regard to the knowledge required for appropriate risk management, and create the basis for common approaches, mutually acceptable datasets and risk management practices.</p> <p>The NANoREG project established a better level of trust between industry and policy developers and also establish a new, demand driven approach, involving the interaction of material specialists and nano-toxicologists. This helps to establish trust between the main players, namely regulators, scientific community and industry. With this project got not only a better coordination of the EU research agenda regarding the reduction of risk of nano materials, but improved or more focused interaction between industry, regulators and the scientific community.</p> <p>NANoREG had a total budget of more than 50 million Euro, joining 57 partners from 14 countries and was coordinated by the Ministry of Infrastructure and the Environment of the Netherlands . This research activity was not subject to private (industry funding).</p>
VII. Intellectual property rights			NO INTEREST
VIII. Other memberships or affiliations			NO INTEREST
IX. Other relevant interest			NO INTEREST
X. Interests of close family members			NO INTEREST

I hereby declare that I have read both the Guidance Document on Declarations of Interests and the Procedure for identifying and handling potential conflict of interests and that the above Declaration of Interests is complete.

Date: 16/03/2021 **Signature:** **SIGNED**