SAFFI
Safe Food for Infants in the EU and China
2020-2024
Coordinator : Erwan ENGEL, INRA, erwan.engel@inra.fr

ABSTRACT

SAFFI targets food for EU's 15 million and China's 45 million children under the age of three. It aims at developing an integrated approach to enhance the identification, assessment, detection and mitigation of safety risks raised by microbial and chemical hazards all along EU and China infant food chains. SAFFI will benchmark the main safety risks through an extensive hazard identification system based on multiple data sources and a risk ranking procedure. It will also develop procedures to enhance top-down and bottom-up hazard control by combining management options with a panel of technologies for the detection and mitigation of priority hazards. SAFFI will discover unexpected contaminants by predictive toxicology and improve risk-based food safety management of biohazards by omics and predictive microbiology. SAFFI will co-develop with and deliver to stakeholders a decision-support system (DSS) to enhance safety control all along the food chain. This DSS will integrate the databases, procedures and methods described above and will be a framework for a generic DSS dedicated to other food. This overall methodology will be implemented in two complementary European and Chinese mirror projects and exemplified for each, with four case studies that were selected to cover priority hazards, main ingredients, processes and control steps of the infant food chain. Resulting databases, tools and procedures will be shared, cross-validated, concatenated, benchmarked and finally harmonized for further use in the EU and China. SAFFI will also set up training and knowledge transfer activities to foster EU-China harmonization of good practices, regulations, standards and technologies, and will cluster with other projects under the EU-China FAB Flagship initiative for continuous upgrade of food safety control. This EU-China multi-actor consortium of 20 partners involves academia, food safety authorities, infant food companies, paediatrics and technological and data-science SMEs

PARTNERSHIP

N°	Participant organisation name (acronym)	Country	Type[a]
1	Institut National de la Recherche Agronomique (INRA)	France	Re
2	Agence Nationale de la sécurité sanitaire de l'alimentation, de l'environnement et du travail (ANSES)	France	Auth
3	Wageningen University (WU)	The Netherlands	He
4	Universita degli studi di Torino (UNITO)	Italy	He
5	Institut de Recerca I Tecnologia Agroalimentaries (IRTA)	Spain	Re
6	Fraunhofer-Gesellschaft zue Foerderung der Angewandten Forschung E.V. (IVV)	Germany	Re
7	EPA-UNEPSA (EPA-UNEPSA)	Germany	Oth
8	Creme software LTD (CremeGlobal)	Ireland	SME
9	BioDetection Systems B.V. (BDS)	The Netherlands	SME

10	Computomics GmbH (Computomics)	Germany	SME
11	HiPP-Werk Georg Hipp OHG (HiPP)	Germany	Ind
12	FrieslandCampina Nederland BV (FC)	The Netherlands	Ind
13	Yiotis Anonimos Emporiki & Viomixaniki Etaireia (YIOTIS)	Greece	Ind
14	INRA Transfert (IT)	France	Oth
15	Zhejiang University (ZJU)	China	Re
16	Zhejiang Academy of Agricultural Sciences (ZAAS)	China	Re
17	Jiangsu Academy of Agricultural Sciences (JAAS)	China	Re
18	Zhejiang Academy of Science & Technology for Inspection & Quarantine (ZAIQ)	China	Auth
19	Beingmate (Hangzhou) Food Research Institute Co., Ltd (Beingmate)	China	Ind
20	Yangzhou Fangguang Food Co., Ltd. (YFFC)	China	Ind

[a]He, Higher education organisation; Re, Research organisation; Ind, Industrial company; SME, Small- and Medium Enterprise; Auth, food safety authority, Oth, Other