Online Advanced Course

INNOVATIVE TOOLS AND METHODS FOR ENSURING SEAFOOD AUTHENTICITY

26 April – 6 May 2021

Hour	Monday 26	Tuesday 27	Wednesday 28	Thursday 29	Friday 30	Monday 3	Tuesday 4	Wednesday 5	Thursday 6
12:00-13:00	Presentation of participants and Networking	3.1-3.4. Ensuring seafood authenticity	**Practical group work 1** 7.1.1. Presentation of results and discussion	**Practical group work 2** 7.1.2. Presentation of results and discussion	4.2. Omics, SNPs and microbiota	4.4. Methods for other authentication issues	4.6. Traceability and labelling to ensure seafood authenticity		5.3. Case study - Fish "pescadeRias"
									5.4. Case studies - Discussion
13:00-14:00	1. Global seafood trade	4.1.1. Methods based on protein analyses (MALDI-TOF, LC-MSn, others). Databases for proteins	3.5. Implementation of FFVA and FFMP	4.1.2.1. DNA markers, PCR techniques and isothermal amplification	4.3. Non-destructive methods for the identification of the method of production	4.5. Validation of analytical methods	7.2.2. FoodChain Lab: the application of an IT tool for seafood traceability	5.1. Case study - Bay of Biscay anchovies	6. Open discussion: the future of the integrity of seafood value chains
								5.2. Case study - Flat oysters in France	
Break									
15:00-16:00	2. Food fraud in the seafood value chain	**Practical group work 1** 7.1.1. Analysis of seafood labelling in different products and countries	**Practical group work 2** 7.1.2. Exercise to conduct FFVA and develop a FFMP for specific products	4.1.2.1. DNA markers, PCR techniques and isothermal amplification	**Computer-based practical work 1** 7.2.1.1. DNA analysis methods: sequencing - From raw data to aligned sequence data	**Computer-based practical work 2** 7.2.1.2. DNA analysis methods: sequencing - Sequence analysis of homology using Genebank and Fishbol databases; distance methods; FISHFIT platform	**Computer-based practical work 3** 7.2.2. FoodChain Lab: the application of an IT tool for seafood traceability	**Practical work** 7.3. Utilization of rapid and on-site methods	
16:00-17:00				4.1.2.2. DNA sequencing and databases					

Pre-meeting (16 April from 12:00 to 13:00): Checking the training tools (Zoom, interpretation, access to virtual campus, etc.) with participants and lecturers

Class 0 (19 April from 12:00 to 13:00): Videos from the organizers, Video technological tools, Video Programme presentation