

# Agenda 3rd meeting

## FP7- ERANET SUSFOOD

### Project: CEREAL

**“Improved resource efficiency throughout the post-harvest chain of fresh-cut fruits and vegetables”**

The 3rd meeting will take place at the Fraunhofer Institute for Process engineering and Packaging IVV in Freising (Germany)

**27th – 28th September, 2016**

#### **Consortium:**

- European Reference Laboratory for Pesticide Residue in Fruits and Vegetables (EURL-FV) & University of Almería (UAL), Spain
- University of Alcalá (UAH), Spain
- National Institute for Agricultural and Food Research and Technology (INIA), Spain
- Lulea Tekniska Universitet, (LTU), Sweden
- RWTH Aachen University (RWTH), Germany
- Fraunhofer-Institut für Verfahrenstechnik und Verpackung IVV (FIV), Germany
- Lappeenranta University of Technology (LUT), Finland
- Institute of chemistry and technology of polymers (CNR), Italy

## Tuesday, 27th September 2016

8:30 – 9.00	Welcome from Fraunhofer. Opening of Meeting	Peter Muranyi (IVV)
9.00 - 9:30	Review of workplan, timeframe & Incidences	Amadeo R. Fernández-Alba (EURL-FV)
<b>WP1- DEVELOPMENT AND EVALUATION OF NANOSTRUCTURED BIOCIDAL SURFACES</b>		
09.30 – 10.15	Task 1.2. Grafting for surface modification of hydrophobic membranes	Roberto Rosal (UAH)
10.15 – 11.00	Task 1.3. Evaluation and study of a new generation of ultrafiltration and nanofiltration membranes functionalized with materials from renewable sources	Aji Mathew (LTU)
11.00 - 11.30	Coffee break	
<b>WP 2. ASSESSMENT OF MEMBRANE PERFORMANCE AND DESIGN OF EQUIPMENT TO INTEGRATE MEMBRANES IN FOOD CLEANING SYSTEMS</b>		
11.30 – 12.15	Task 2.1. Elaboration and characterization of low fouling membranes	Aji Mathew (LTU)
12.15 – 13.00	Task 2.2. Synergy of oxidation processes with ultrafiltration and the prevention of biofouling	Mika Mänttari (LUT)
13.30 - 14.30	Lunch	
14.30 – 15.30	Task 2.3. Design and optimization of membrane modules for water reuse in food cleaning processes  Task 2.4. Design and optimization of a membrane process dedicated to water recovery in food cleaning	Süleyman Yüce / Sarah Armbruster (RWTH)
<b>WP 3. DEVELOPMENT AND EVALUATION OF A NEW GENERATION OF PACKAGING MATERIALS BASED ON NANOTECHNOLOGY</b>		
15.30 – 16.15	Task 3.3. Development of new active eco-sustainable biopolymer metal oxide nanocomposites for food packaging	Clara Silvestre / Cimmino Sossio (CNR)
16.30	Visit to the host center	

## Wednesday, 28th September 2016

WP 4. CHEMICAL EVALUATION OF THE EFFICACY AND SAFETY OF THE DEVELOPED MEMBRANES AND PACKING MATERIALS		
8.30 – 9.00	Task 4.1. Evaluation of the stability of the developed membranes and packing materials  Task 4.2. Effectiveness evaluation of water cleaning process based on membranes and its combined use with ozone  Task 4.3. Evaluation of chemical migration from packaging materials	MJ Martinez Bueno (EURL-FV)
9.00 – 9.30	Task 4.3. Evaluation of chemical migration from packaging materials	MD Hernando (INIA)
WP 5. DETERMINATION AND EVALUATION OF ANTIMICROBIAL EFFICACY AND SHELF LIFE PROLONGATION		
9.30 – 10.00	Task 5.1. Evaluation of nanostructured membranes in killing human and plant pathogens  Task 5.2. Evaluation of designed equipment with nanostructured membranes integrated in food cleaning systems	MJ Martinez Bueno (EURL-FV)
10.00 – 10.45	Task 5.3. Evaluation of food quality and sensory acceptance of fresh-cut salad treated with the newly developed washing equipment  Task 5.4. Microbiological evaluation of antimicrobial packaging materials based on nanotechnology and determination of their impact on fresh-cut produce quality and shelf life	Peter Muranyi (IVV)
10.45 - 11.15	Coffee break	
WP 6. LIFE CYCLE ASSESSMENT (LCA) STUDIES FOR POST-HARVEST CHAIN PROCESSING OF FRESH-CUT FRUITS AND VEGETABLES		
11.15 – 11.45	Task 6.1. Definition of LCA methodology and collection of life cycle inventory (LCI) data  Task 6.2. Life cycle impact assessment (LCIA) and optimization	María Dolores Hernando (INIA)
WP7. MANAGEMENT & WP8. COMMUNICATION AND DISSEMINATION		
11.45 – 12.15	Task 7.1: Project management  Task 7.1: Management of CEREAL website; Social media; Conferences & Congress	MJ Martinez Bueno (EURL-UAL)
12.15	Closure. Recap of the results of the first year and prevision of next task	All Partners