

## List of Posters

**P01 Changes in the molecular structure and functional properties of whey protein isolate (WPI) caused by heat-induced interaction with sugar beet pectin (SBP) in solution**

PX Qi and Y Xiao

**P02 Development of chitosan films containing  $\alpha$ -,  $\beta$ -, or  $\gamma$ -cyclodextrin inclusion complexes for controlled release of food aroma.**

I Zarandona, C Barba, P Guerrero<sup>1</sup>, K de la Caba and J Maté

**P03 Design of an oleogel, utilising high oleic sunflower oil with sunflower wax, as a shortening replacer for saturated fat reduction in short dough biscuits**

Veronica Giacintucci, Lisa Methven, Julia Rodriguez Garcia

**P04 Effects of stabiliser and accelerated storage on rheological, textural and physiochemical properties of high-protein peanut butter.**

Adam Byrne and Julia Rodriguez Garcia

**P05 Influence of ferulic acid and intermolecular cross-linking on the emulsifying properties of sugar beet pectin**

B. Bindereif, H. P. Karbstein, U. S. van der Schaaf

**P06 Behaviour of aroma (1-hexanal and phenol) sorption on the properties of chitosan-gelatin edible films according the RH level**

N. Benbettaieb, C. O'Connell, A.M. Seuvre and F. Debeaufort

**P07 Potential of exopolysaccharides from lactic acid bacteria for the stabilisation of emulsions**

G Surber, J Bulla, T Schauer, D Jaros and H Rohm

**P08 pH-responsive release of trans-2-hexenal from chitosan films based on dynamic imine linkages and their application in antifungal packaging**

R Heras-Mozos, R Gavara and P Hernández-Muñoz

**P09 Effects of rheological and tribological properties of hydrogels compared to individuals' oro-physiological capabilities on oral processing behaviour**

EM Krop, MM Hetherington and A Sarkar

**P10 Integral valorisation of Faba-beans molecular compounds to nutritional texturized food products**

Klara Nilsson, Rosana Moriana, Corine Sandström, Mikael Hedenqvist, Maud Langton

**P11 Stability of  $\beta$ -Lactoglobulin micro- and nanostructures under various environmental conditions**

LS Simoes, RM Rodrigues, AA Vicente and OL Ramos

**P12 Improving controlled-release antioxidant properties of tea polyphenol nanoparticles-loaded gelatin films by adjusting encapsulation efficiency**

Fei Liu, John Antoniou, Wallace Yokoyama and Fang Zhong

**P13 Optical properties of regenerated cellulose and polyvinyl alcohol films combined with glycerol or chitosan**

Patricia Cazón Gonzalo Velazquez, Manuel Vázquez

**P14 Evaluation of the UV-barrier properties and transparency of bacterial and vegetable regenerated cellulose films combined with polyvinyl alcohol and chitosan**

Patricia Cazón, Gonzalo Velazquez, Manuel Vázquez

**P15 Mechanical properties of nanofibrils made from faba bean and mung bean protein**

A Herneke, D Johansson, C Lendel, W Newson, M Langton

- P16 Carrageenan sulfatases: controlling the sulfation moieties of carrageenans**  
S. Mathieu<sup>1</sup>, K. Ako<sup>2</sup> and W Helbert<sup>1</sup>
- P17 Role of cuttlefish (*Sepia officinalis*) skin protein hydrolysates on the bioactive properties of gelatin-based edible films**  
H. Kchaou, M. Jridi, N. Benbettaieb, F. Debeaufort, M. Nasri
- P18 Acid gelation of enzymatically cross-linked caseins: From molecular level to network formation**  
N Raak, RA Abbate, S Boye, A Lederer, H Rohm and D Jaros
- P19 Effect of fat concentration on structure and digestibility of o/w cellulose ether emulsions.**  
S. Martinez, M. Espert, A. Salvador and T. Sanz
- P20 Technological characterization of marine fennel (*Crithmum maritimum*) extracts and the effect of its incorporation on the properties of edible films**  
Víctor Otero-Tuárez, Idoya Fernández-Pan, Teresa Fernández and Juan I. Maté
- P21 Development and characterization of nano-emulsion-filled gels intended to supply omega-3 fatty acids into food products**  
Ana I. Bourbon, Marta Vieira, Miguel A. Cerqueira, Lorenzo Pastrana and Pablo Fuciños
- P22 Carboxymethyl cellulose/lignin blended films: physicochemical and antioxidant properties**  
Michele Michelin, Arlete M. Marques, José A. Teixeira, Miguel A. Cerqueira
- P23 The effects of polysaccharides incorporating into sodium caseinate-high melting point fat microparticles to the survival of probiotic bacteria during simulated gastrointestinal digestion and storage**  
Huan Liu, Joshua Gong, Steve W. Cui, Qi Wang, F Zhong
- P24 Biological activities of enzymatically modified seaweed hydrocolloids**  
M Howlader, S Muzyed, R Tuvikene
- P25 Using flour from oil flax seeds in technology of meat patés**  
O.N. Kliukina, N.A. Guskova, N.V. Nepovinnykh and N.M. Ptichkina
- P26 Valorization of pectin from unripe papaya by conventional and subcritical water extraction**  
Santos Pedraza Guevara, Maria Helene Giovanetti Canteri , Maria Elena Ibañez Ezequiel , Revenli Fernanda Do Nascimento, Teresa Fernandez Ponce, Lourdes Casas Cardoso and Enrique Martinez de la Ossa
- P27 Effects of caseinate-pea protein mixture on the physicochemical properties of oil-in-water nutritional emulsions and powders**  
Xiang Li, Yiming Feng, Biye Chen, Jiang Jiang, Yuanfa Liu
- P28 Physicochemical, rheological properties and anti-oxidation activities of ulvan from *Ulva pertusa* Kjellm**  
Weishun Zeng, Jieteng Chen, Yunxue Li, Yifan Pan, Junyan Li and Hao Chen
- P29 Physically crosslinked hydrogels based on poly (vinyl alcohol) and fish gelatin for wound dressing application: Fabrication and characterization**  
Liping Zhou, Shihui Pan, Tingwei Xu, Jicheng Yan, Xin Li and Hao Chen
- P30 Development and characterization of fish gelatin/oxidized starch double network edible film catalysed by thermal treatment and Schiff' base reaction**  
Hao Chen, Yuhao Dong, Peng Qiao, Zijing Liu, and Shuang Qiu

**P31 Using of safflower seeds as a protein fortifier of shortbread biscuit**

V.S. Kutsenkova, N.V. Nepovinnikh, Qingbin Guo and N.M. Ptichkina

**P32 *Aesculus hippocastanum* extract as a potential antibacterial emulsion stabilizer**

Maciej Jarzębski, Wojciech Smutek, Przemysław Siejak, Joanna Kobus-Cisowska, Danuta Pieczyrak, Hanna Maria Baranowska, Jarosław Jakubowicz, Mateusz Sopata, Tomasz Białopiotrowicz, Ewa Kaczorek

**P33 Effect of chitosan on the foaming and emulsifying properties of the complexes of milk proteins with biologically active lipids**

DV Zelikina, SA Chebotarev, MD Gureeva, YV Samuseva, AS Antipova, EI Martirosova, and MG Semenova

**P34 Influence of pasteurization treatments on the physico-chemical, microbiological and rheological properties of reconstituted micellar casein concentrates**

N Iturmendi, A García, U Galarza, B Martínez, H Lucena, C Barba, I Arozarena, JI Maté

**P35 Functional properties of the ternary complexes: maltodextrin–milk protein–essential lipids.**

DV Zelikina, MD Gureeva, SA Chebotarev, YV Samuseva, AS Antipova, EI Martirosova, and MG Semenova

**P36 Rheological behaviour of micellar casein concentrates solutions**

T Flores, N Iturmendi, T Fernández-García, JI Maté

**P37 Biopolymer-based nanoparticles: effect of production conditions in size average, polydispersity and zeta potential**

G. Azevedo<sup>1</sup>, LM Pastrana<sup>1</sup> and MA Cerqueira<sup>1</sup>

**P38 Effect of molecular weight and k-carrageenan on Delonix regia galactomannan film forming solutions properties and films made thereof**

W Rodriguez-Canto, L Chel-Guerrero, LM Pastrana, MA Cerqueira, M Aguilar-Vega

**P39 Modification of resistant starch nanoparticles using high-pressure homogenization treatment**

Eftychios Apostolidis, Panagiotis Chaloulos, Ioanna Mandala

**P40 Drying of fruit of *Opuntia ficus-indica* and the effects on its physical characteristics**

Panagiotis Giannopoulos<sup>1</sup>, Panagiotis Chaloulos<sup>1</sup>, Eftychios Apostolidis<sup>1</sup>, Ioanna Mandala<sup>1</sup>

**P41 Rice bran arabinoxylan and oligosaccharide products for investigating food and immune response function**

BJ Savary, K Takahashi, D Kandano, J Xu, and S-O Lee

**P42 Animal fat replacer for vegan sausage analogues – influence of protein content on textural and viscoelastic properties of emulsion gels**

Johannes Dreher, Monika Gibis and Jochen Weiss

**P43 Valorization of *Gelidium sesquipedale* seaweed for the production of polysaccharide-based fractions with interest in food applications**

M Martínez-Sanz, JP de Oliveira, LG Gómez-Mascaraque, A Martínez-Abad and A López-Rubio

**P44 Development of biomimetic mucus gel material**

Mar Collado-González, Yadira González Espinosa and Francisco M Goycoolea

**P45 Comparison on physicochemical properties of non-starch polysaccharides extracted from highland barley by water and alkali extraction**

Hao-Ying-Ye Yao, Jun-Yi Yin, Ming-Yong Xie, Shao-Ping Nie

- P46 *Asparagus officinalis* polysaccharide fermented with *Lactobacillus plantarum* NCU116: characterization, antioxidative, and bio-activities**  
Zhi-Hong Zhang, Song-Tao Fan, Dan-Fei Huang, Tao Xiong, Shao-Ping Nie, Ming-Yong Xie
- P47 Polysaccharide from the seeds of *Plantago asiatica* L. alleviates nonylphenol exposure induced reproductive system injury of male rats via PI3K/Akt/mTOR pathway**  
Fen-Fen Li, Dan-Fei Huang, Wei-Yu Yang, Shao-Ping Nie, Ming-Yong Xie
- P48 Passive microrheology – A powerful tool for the analysis of low fat formulations stabilised by hydrocolloid**  
R Ramsch, Y. Nagazi, G. Brambilla, Y. Lefevre, E. Woodcock and G. Meunier
- P49 Plant protein efficiency evaluation in food applications**  
C. Tisserand, R. Ramsch, E Woodcock, G. Brambilla, Y LefevreG. Meunier
- P50 Stabilization of beverages with gellan gum**  
Lise Stouby<sup>1</sup>, Lise Kristensen<sup>1</sup> and Graham Sworn<sup>2</sup>
- P51 A novel class of xanthan derivatives for preparing stable oil-in-water emulsions**  
Céline Fantou a, Sébastien Comesse a, Michel Grisel a and Frédéric Renou b
- P52 Ultra-high pressure homogenisation: a tool for modifying the technological functionality of thickening agents for developing innovative food emulsions with less additives**  
E. Puértolas, S. Alvarez-Sabatel, E. Sanmartin, D. Fleckenstein, B. Pareyt, L. Moreta, and P. Gómez
- P53 Pullulan/Hydroxypropyl- $\beta$ -Cyclodextrin electrospun fibers as encapsulation matrices of quercetin**  
D Poudel, S O'Keefe and C Fernández-Fraguas
- P54 Bile acid retention of structurally modified common bean matrices during *in vitro* digestion**  
T Lin, S O'Keefe and C Fernández-Fraguas
- P55 High internal phase canola oil-in-water Pickering emulsions stabilised by cellulose nanocrystals (CNC)**  
L Sridharan, SH Hosseini-Parvar and M Lad
- P56 Food starches and flours as texture agents and stabilizers for clean label and gluten free white sauce**  
R. Llorente Holgado
- P57 3D-printed functional cookies fortified with *A. platensis*: evaluation of its antioxidant potential and physical-chemical characterisation**  
MV Vieira, SM Oliveira, IR. Amado, LH Fasolin, AA Vicente, LM Pastrana and P Fucinos
- P58 Conformational characterization and *in vitro* fermentation profiles of flaxseed rhamnogalacturonan-I (RG-I)**  
Huihuang H. Ding, Steve W. Cui, Ke-Ying Qian<sup>1</sup>, Qingbin Guo, H. Douglas Goff, and Qi Wang
- P59 Extraction and characterizations of gelatin from camel skins**  
Ahmed A. Al-Hassan
- P60 Physicochemical Properties of the Ultrahigh Methoxylated Pectin**  
JR Liu, X Hua, Jin T, RJ Yang and YP Cao