

Brokerage Event

Food Security | Sustainable Agriculture and Forestry |
Marine, Maritime and Inland Water Research |
Bioeconomy | KET-Biotechnology |

Brussels, 15th November 2017



BioHorizon



Sustainable Food Security

Food & Water Research Group Green Chemistry Laboratory

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UPorto



www.ncp-biohorizon.net

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Core activities of I3A-LAQV @ UPORTO

- improvement of **food quality**
- fighting **food adulteration**
- control **additives and chemical contaminants**
- promote **sustainable foods** with enhanced health/sensorial properties

Skills

















- (i) multi-parametric **chromatographic methods** for evaluation of nutrients, bioactive and aroma compounds, contaminants
- (ii) **DNA-based methods** for species identification and adulterants detection
- (iii) **sensorial parameters** related to colour and taste of food during processing / ageing
- (iv) **activity of food beneficial and harmful compounds using human cells *in vitro***
- (v) **recycling bioactive compounds** from industrial wastes

Previous/ongoing projects



ShanghaiRanking's Global Ranking of Academic Subjects 2017 - Food Science & Technology

Technology

Field: <input type="text" value="Engineering"/>		Subject: <input type="text" value="Food Science & Technology"/>		Methodology	
World Rank	Institution*	Country	Total Score	Score on PUB <input type="text" value=""/>	
1	University of Wageningen		291	96.7	
2	Jiangnan University		286.3	100	
3	China Agricultural University		271.6	95.4	
4	South China University of Technology		256.2	75.1	
5	Ghent University		255.3	79	
6	University of Campinas		252.6	84.5	
7	University of Sao Paulo		252.5	87.5	
8	Zhejiang University		244.7	78.8	
9	University of California, Davis		243.8	80.7	
10	University of Copenhagen		243.1	72.7	
11	<u>University of Porto</u>		239	69.2	
12	University of Massachusetts Amherst		238.4	56.5	
13	KU Leuven		235.9	68.4	
14	University of Guelph		234.7	75.3	
15	Nanjing Agricultural University		233.2	67.8	
16	Polytechnic University of Valencia		222.7	63.6	

Sustainable Food Security SFS (2018)

SFS-06A-2018: Stepping up integrated pest management / Decision support systems

DT-SFS-14-2018: Personalized nutrition

LC-SFS-15-2018: Future proofing our plants

SFS-16-2018: Towards healthier and sustainable food

Rural Renaissance RUR (2018)

CE-RUR-08A-2018: Closing nutrient cycles/Understanding properties and impacts of bio-based fertilisers

DT-RUR-12-2018: ICT innovation for agriculture – digital innovation hubs for agriculture

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