

PARTNERS

Česká zemědělská univerzita v Praze (CZU)/Czech University of Life Sciences Prague(CZU)

CZU is a public university with around 20 thousand students. CZU research concerns overall quality assessment of primary agricultural products and foods, including plant and vegetable products, dairy and meatproducts, cereals etc. Our expertise covers chemical, microbiological, health-related and sensory analyses, e.g. bioactive compounds

evaluation, mobility and bioavailability of selected risk elements or nutritional value assessment. www.czu.cz

www.vupp.cz



Výzkumný ústav potravinářský Praha (VÚPP)/Food Research Institute Prague (FRIP)

The Food Research Institute Prague has already been a full profile research institute in the field of food processing more than 55 years. The objective of its main activities consists in basic and applied research and development in the fields of food. FRIP studies the influence of high pressure on allergens, microorganisms and nutritionally important quality parameters of selected foods, mainly of plant origin (e.g. fruit-vegetable iuices).

UNIVERSITY OF CHEMISTRY AND TECHNOLOGY PRAGUE

Vysoká škola chemicko-technologická v Praze (VŠCHT)/University of Chemistry and Technology Prague (UCT)

University of Chemistry and Technology Prague is the leading Czech university in food quality & safety research, education and training. The research activities of UCT Prague are focused on advanced chemical analysis of foodstuffs including beverages and food supplements, food and pharmaceutical raw materials and products, feedstuffs, chemical preparations, biological materials of human, animal and plant origin, environmental and forensic samples including addictive drugs. UCT closely collaborates with EFSA (article 36) and Czech Agriculture and Food Inspection as the 'nominated laboratory'. he ISO 17025 accredited laboratory performs both target analysis (various contaminants, residues, natural toxins, processing contaminants...) and non-target screening including metabolomics. UCT is involved in many international collaborations, among them a number H2020 projects.

www.vscht.cz

FRIP

instruments, bioreactor

Analytical Labs

CZU Prague

Eqiupment for targeted and non-targeted analysis of primary production - MNR, GC-QTOF, LC-QTOF, MALDI-TOF, PREP-HPLC, SFE, ICP-MS Readers

UCT Prague

Facilities for sample handling, cutting edge analytical instrumentation - mass analyzers inluding QQQ, Q-orbitrap, Q-tof, multidimensional separation LCxLC, GCxGC and ion mobility





ANALYTICAL CAPACITIES																																																												
0	MA	TERIAL	s	AGROECOSYSTEM						NUTRITION							ENTICITY TRACEABILITY							FOOD QUALITY								FOOD SAFETY																												
OTHER ANALYTICAL CAPACITIES	Plastic materials Other	Ceramic materials and composites	Metals	Bio-indicators Other	Wet & Dry depositions	Air pollution	Bio-availability studies		Soils and sediments characterization		Surface and groundwater quality characterization	Cule	Minerals	Water	Proteins and amino-acids	Carbonydrates Fatty acids	Vitamins	Other	Genetic markers	Metabolic profiles	Elemental profiles		Rare Earth Elements	Sensory profiles	I race elements		Non target analysis	Isotopes of heavy elements		Isotopes of light elements	Adulteration	Microbiological analysis	Biological analysis			Physico-chemical analysis	Nutritional quality		Organoleptic properties	Radioactivity	Foodborne viruses and Prions	Phenols	Parasites	Hormones	Biocides	Biogenic amines	Nanomaterials	Pathogenic micro-organisms	GMO	Food contact materials (migration)	AUDIIIVES	Allergens	(marine, freshwater,bacterial,)	Other toxins	Mycotoxins	Veterinary drugs	Pesticides	Chemical speciation	Trace elements	
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	Food																				ł		lectro					onic Facilities						e s	S Softwo						wc	are	re																	
E	ZU Pr xperir arms/s	ment	al g	reer	ho	us	es, f	fiel	ds an	d							R			1 Million				pro	ofile	s et	c.:			ST8	& N	IST1	4 L	ibra	ries,	libra fully 'MS r	eva	luat	ed c	ollec	tion	of e	lect	ron		ata			Da	ata E	Base	e / D)ata	Calc	cula	tion				

Atomizer, spray drying, rheological

LEAL SEALLAS



Μ ΝΟΥΛ



MALDI Biotype

MALDI Biotyper 3.1 build 66, provide high-speed, high-confidence identification and taxonomical classification of bacteria, yeasts, and fungi. Classification and identification are based on proteomic fingerprinting using high-throughput MALDI-TOF mass spectrometry

ProteinScape - advanced data mining features, sophisticated reports for proteomics projects MestReNova 10.0 is a multipage, multivendor, multitechnique and

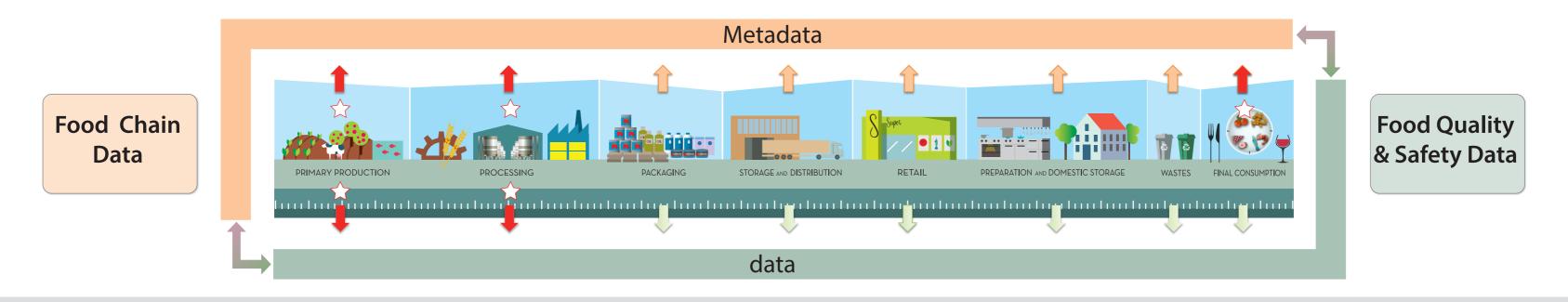
multiplatform analytical chemistry software suite designed as a container for our plugins.

In-house NMR fingerprint libraries of vine samples, selected plant species.

- Calculation / Data Processing
- Modeling / Data Integration

E-learning platforms

Other e-facilities





www.metrofood.eu



European strategy Forum on Research Infrastructures



METROFOOD-PP project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871083.



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