

Full Conference Programme

Monday, 28.Feb.2022

13:00 - 14:00	Registration		
14:00 - 14:30	Welcome/Opening Session		
14:30 - 15:30	Plenary lecture		
	PL-01	Nanoparticle processing with compressed CO ₂ - basic and applied research	Nora Ventosa
Session 1 Co-chairs: Elena Ibáñez (CIAL-CSIC); Mara Braga (Univ. Coimbra)			
15:30 - 15:50	O-01	Scale-up of supercritical CO ₂ extraction process for production of milk thistle extract	Stoja Milovanovic
15:50 - 16:10	O-02	Use of supercritical CO ₂ to obtain enriched flavouring fractions from black truffle	Eva Tejedor-Calvo
16:10 - 16:30	O-03	Supercritical CO ₂ selective extraction of saponins with nutraceutical application towards metabolic syndrome from germinated black beans (<i>Phaseolus vulgaris</i> L.)	Daniel Guajardo-Flores
16:30 - 17:00	Coffee Break + Poster Session		
Keynote Lecture			
17:00 - 17:30	K-01	Application of supercritical carbon dioxide in catalysis and in aerogel fabrication	Pedro Vidinha
Session 2 Co-chairs: Ana M. Mainar (Univ. Zaragoza); Naiara Fernández (iBET)			
17:30 - 17:50	O-04	Supercritical CO ₂ extraction as a tool to isolate phytochemicals from Rice (<i>Oryza sativa</i> L.) by-products	João P. Baixinho
17:50 - 18:10	O-05	Extraction from hemp biomass and seed	Lourdes Calvo
18:10 - 18:30	O-06	Supercritical fluid extraction and fractionation of the oil from marina microalgae <i>Cryptocodinium cohnii</i> to obtain biodiesel and omega-3 compounds (DHA)	Beatriz P. Nobre
18:30 - 20:30	Welcome Reception		

Tuesday, 01.March.2022

09:00 - 10:00	Plenary lecture		
	PL-02	"Greenering" pharmaceutical manufacturing: the role of scCO ₂	Ana Aguiar-Ricardo
Session 3 Co-chairs: María José Cocero (Univ. Valladolid); José Coelho (I.S. Engenharia Lisboa)			
10:00 - 10:20	O-07	Accessing cork biomass fractions via conventional chemical and high pressure and temperature water	Elaine G. Mission
10:20 - 10:40	O-08	Subcritical water extraction of quercetin derivatives and other flavonoids from onion skin wastes ("Allium cepa" cv. Horcal): effect of temperature and solvent properties	Óscar Benito-Román
10:40 - 11:00	O-09	Novel micelles of PEG functionalized with coumarin toward multifunctional drug delivery systems	Sonia López
11:00 - 11:30	Coffee Break + Poster Session		
Keynote Lecture			
13:30 - 12:00	K-02	12 years of the Sudden Expansion Reactor: Invention, Key Results, Opportunities and Industrial Experience	Danilo Cantero
Session 4 Co-chairs: Ignacio Gracia (U. Castilla-La-Mancha); Ana Aguiar-Ricardo (U. Nova Lisboa)			
12:00 - 12:20	O-10	Soybean oil-based cyclic carbonates synthesis in supercritical CO ₂ sustained by halide organocatalysts	Juan Catalá
12:20 - 12:40	O-11	High pressure phase equilibria prediction of renewable lignin derived aromatic compounds with CO ₂	Selva Pereda
12:40 - 13:00	O-12	Machine learning models for the prediction of diffusivities in supercritical CO ₂ systems	José P.S. Aniceto
13:00 - 14:30	Lunch		

Plenary lecture			
14:30 - 15:30	PL-03	Sustainable aerogel production using SICLA technology	Eunate Goiti & Francisco Ruiz
Session 5 Co-chairs: Albertina Cabañas (U. Complutense Madrid); Ana V.M. Nunes (U. Nova Lisboa)			
15:30 - 15:50	O-13	Batch and continuous production of directly compressible drug nanopowders using CO ₂ -assisted spray coating	Luís Padrela
15:50 - 16:10	O-14	Micronization of Ciprofloxacin by the Supercritical Antisolvent Technique (SAS)	P. Marzal
16:10 - 16:30	O-15	Manufacturing of liposomal-loaded hydrophilic or hydrophobic drugs dry powder formulations using supercritical carbon dioxide	Clarinda Costa
16:30 - 17:00	Coffee Break + Poster Session		
Session 6 Co-chairs: Lourdes Calvo (U. Complutense Madrid); Ana L. Oliveira (U. Católica Portuguesa)			
17:00 - 17:20	O-16	Supercritical CO ₂ technology for the production of sterile and drug-loaded scaffolds	Víctor Santos-Rosales
17:20 - 17:40	O-17	Development of bioMIPs Using Supercritical Fluids	Ana I. Furtado
17:40 - 18:00	O-18	Customized and bioactive bone scaffolds obtained by a novel technological duo	Ana Iglesias-Mejuto
18:00 - 22:00	Cultural Activities & Meeting Dinner		

Wednesday, 02.March.2022

Plenary lecture			
09:00 - 10:00	PL-04	Challenge dots for Supercritical community: Flucomp rocks!	Ignacio Gracia
Session 7 Co-chairs: Sagrario Beltrán (Univ. Burgos); Carlos Silva (Univ. Aveiro)			
10:00 - 10:10	SO-01	Combined supercritical fluid technology for the preparation of dry powders loaded with beclomethasone dipropionate for pulmonary delivery	Thoa Duong
10:10 - 10:20	SO-02	Supercritical fluid extraction of lupane triterpenoids from "Acacia dealbata" biomass – effect of pressure, temperature and cosolvents	Vítor H. Rodrigues
10:20 - 10:30	SO-03	Polymorphic control of indomethacin with the gas antisolvent method	Fidel Mendez Canellas
10:30 - 10:40	SO-04	Towards the fabrication of medicinal nanovesicular formulations under GMPs	David Piña Muñoz
10:40 - 10:50	SO-05	Self-assembled silk fibroin aerogel particles for wound healing	Beatriz G. Bernardes
10:50 - 11:00	SO-06	Supercritical carbon dioxide Salvia miltiorrhiza extraction: process optimization and analysis of bioactive compounds	Encarnación Cruz
11:00 - 11:30	Coffee Break + Poster Session		
11:30 - 12:30	FLUCOMP Meeting		
12:30 - 13:00	Closing Session & Farewell		