

October 3

09h00	Participants Reception	Entrance Hall
09h30	Opening Ceremony Mayor of Castelo Branco - Luís Correia President of InovCluster - Cláudia D. Soares Vice-Dean of UBI - José Páscoa Marques Pro-Dean of Univ. de Évora - Miguel Elias President of IPCB - António Fernandes President of IPG - Constantino Mendes Rei President of IPVC - Rui Teixeira (to be confirmed) President of I2A/IPC - Carlos Dias Pereira ACT's Regional Director - Corina Farias	Auditorium
10h30	Presentation of the Project +AGRO UBI - Universidade da Beira Interior, Pedro Dinis	Auditorium
11h45	Coffee Break and Networking	Entrance hall
12h00	Risk Assessment in the Agrifood Industry: The key to healthy workplaces. European Agency for Safety and Health at Work-EU-OSHA - Kate Palmer	Auditorium
12h30	The use of tools in agri-food - The PortugalLand company perspective - Paulo Velho	Auditorium
	The use of tools in agri-food - The FoodinTech company perspective - Miguel Fernandes	
13h00	Lunch and Networking	Bar
14h30	Workshops ⁽¹⁾ Occupational Health and Safety Workshops ⁽¹⁾ Energy Efficiency	Auditorium Room 1
16h00	Coffee Break and Networking	Entrance hall
16h30	Scientific Session - ID003; ID004; ID029; ID032 ⁽²⁾ Scientific Session - ID012; ID022; ID026; ID028 ⁽²⁾ Scientific Session - ID017; ID018; ID021; ID024 ⁽²⁾	Auditorium Room 1 Room 2
18h00	Closing of the 1st day	Auditorium
18h30	Tour for Castelo Branco	---
20h00	+ Agro Partner and registered Authors Member Dinner with registration payment at the conference.	---

⁽¹⁾ Workshops on training tools for meat, dairy, horticultural and bread/pastry sectors

⁽²⁾ ID (nº) - Paper

October 4

09:00	Participants Reception	Auditorium
09:30	Scientific Session - ID006; ID008; ID013; ID014 ⁽²⁾ Scientific Session - ID010; ID011; ID020; ID025 ⁽²⁾ Scientific Session - ID015; ID019; ID027; ID030 ⁽²⁾	Auditorium Room 1 Room 2
11:00	Coffee Break and Networking	Entrance hall
11:30	The use of tools in agri-food - The ISQ company perspective - Octávio Lopes	Auditorium
	The use of tools in agri-food - The EXO company perspective - Álvaro Ribeiro	
13:00	Lunch and Networking	Bar
14:30	Workshops ⁽¹⁾ Organizational Management Workshops ⁽¹⁾ Computational tools to support decision-making	Auditorium Room1
16:00	Coffee Break and Networking	Entrance hall
16:30	The business development of the regions and territorial cohesion Moderator: CFE - Centre for Functional Ecology - Helena Freitas President of CCDR do Centro - Ana Abrunhosa President of CCDR do Norte - Fernando Freire de Sousa President of CCDR do Alentejo - Roberto Pereira Grilo (to be confirmed)	Auditorium
17:15	Funding and Public Incentives in support the companies Moderator: CCDR do Centro - Conceição Carvalho President of IAPMEI - Nuno Mangas Representative of the ANI - Miguel Antunes Representative of the AICEP - João Sequeira	Auditorium
18:00	Closing Session State Secretary for Development and Cohesion - Nelson de Souza	Auditorium

⁽¹⁾ Workshops on training tools for meat, dairy, horticultural and bread/pastry sectors

⁽²⁾ ID (nº) - Paper

October 3 | Scientific Program (Parallel Sessions)

16h30 Sessão Científica - ID003; ID004; ID029; ID032 Auditorium

- ID003 Experimental comparison at open and closed vertical multidecks display cases at standard and tropical environmental conditions** - Gustavo G. Heidinger^{1,2}, Samuel M. Nascimento^{1,2}, Pedro D. Gaspar^{2,3} and Pedro D. Silva^{2,3} 1: Eletrofrio Refrigeração Ltda, r João Chede, 1599, Cidade Industrial, Curitiba – PR, 81170-220, Brazil (e-mail: gustavo@eletrofrio.com.br, samuel@eletrofrio.com.br, web: http://www.eletrofrio.com.br); 2: University of Beira Interior, Engineering Faculty, Department of Electromechanical Engineering, Covilhã, 6201-001, Portugal (e-mail: dinis@ubi.pt, dinho@ubi.pt, web: http://www.ubi.pt); 3: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, Covilhã, Portugal
- ID004 Real-time data collection to improve energy efficiency in food manufacturing** - Sandeep Jagtap^{1,2*}, and Shahin Rahimifard¹ 1: Centre for Sustainable Manufacturing and Recycling Technologies (SMART), Loughborough University, Loughborough LE11 3TU, UK (e-mail: s.jagtap@lboro.ac.uk, s.rahimifard@lboro.ac.uk web: https://www.lboro.ac.uk); 2: National Centre for Food Manufacturing, University of Lincoln, Park Road, Holbeach PE12 7PT, UK (e-mail: sjagtap@lincoln.ac.uk web: https://www.lincoln.ac.uk)
- ID029 Current status and future trends of computational methods to predict frost formation for demand defrost control systems** - Martim Aguiar^{1,2,*}, Pedro D. Gaspar^{1,2} and Pedro D. Silva^{1,2} 1: University of Beira Interior, Engineering Faculty, Dept. of Electromechanical Engineering, Covilhã, 6201-001, Portugal (e-mail: martim.aguiar@ubi.pt; dinis@ubi.pt, dinho@ubi.pt, web: http://www.ubi.pt); 2: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, Covilhã, Portugal
- ID032 Efficient cooling at post-harvest phase: a comparative study between peach air-cooling and hydro-cooling processes** - João Ferreira¹, Pedro D. Silva^{1,2}, Luís C. Pires¹, Pedro D. Gaspar^{1,2} and José Nunes³ 1: University of Beira Interior, Engineering Faculty, Dept. of Electromechanical Engineering, Covilhã, 6201-001, Portugal (e-mail: dinis@ubi.pt, dinho@ubi.pt, web: http://www.ubi.pt); 2: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, Covilhã, Portugal; 3: School of Agriculture, Polytechnic Institute of Castelo Branco, Qta. Sr.ª Méricules, 6001-909 Castelo Branco, Portugal

16h30 Scientific Session - ID012; ID022; ID026; ID028 Room 1

- ID012 Evaluation of the properties of dehydrated cherry obtained through hot air dryer and solar dryer** - J. Nunes^{1,4}, P.D. Silva^{2,3}, L.P. Andrade^{1,4,5}, L.C. Pires^{2,3}, P.D. Gaspar^{2,3} 1: Agriculture School, Polytechnic Institute of Castelo Branco, Quinta da Senhora de Mercoles, 6001-909 Castelo Branco, Portugal (e-mail: jnunes@ipcb.pt; lpintoandrade@ipcb.pt); 2: University of Beira Interior, Rua Marquês d'Ávila e Bolama, 6201-001, Covilhã, Portugal (e-mail: dinho@ubi.pt; pires@ubi.pt; dinis@ubi.pt); 3: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, Covilhã, Portugal.; 4: CATAA - Food Technology Support Center, Centro de Apoio Tecnológico Agro Alimentar, Castelo Branco, Portugal; 5: CERNAS – Centro de Estudos em Recursos Naturais, Ambiente e Sociedade.
- ID022 Technological modernization and innovation of traditional agri-food companies based on ict solutions – the portuguese case study** - Pedro D. Gaspar^{1,2,*}, Vasco N. G. J. Soares^{3,4,5}, João M. L. P. Caldeira^{3,4,5}, Luis P. Andrade^{6,7}, Cláudia D. Soares⁸ 1: University of Beira Interior, Rua Marquês d'Ávila e Bolama, 6201-001, Covilhã, Portugal (e-mail: dinis@ubi.pt, web: http://www.ubi.pt); 2: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, Portugal; 3: Superior School of Technology, Polytechnic Institute of Castelo Branco, Castelo Branco, Portugal; 4: Instituto de Telecomunicações, Portugal; 5: InspiringSci, Castelo Branco, Portugal; 6: Agriculture School, Polytechnic Institute of Castelo Branco, Castelo Branco, Portugal; 7: Centro de Apoio Tecnológico Agro-Alimentar, Castelo Branco, Portugal; 8: InovCluster, Castelo Branco, Portugal
- ID026 Dielectric heating as a tool to remove pests in grains** - J. Saldo^{1,*} and I. Codina¹
 1: CIRTAA, Animal and Food Science Department, Universitat Autònoma de Barcelona (e-mail: jordi.saldo@uab.cat)
- ID028 A study of r&d collaboration and the use of biotechnology techniques in the development of bio-based products and agro-food business competitiveness** - Teresa Paiva^{1,*}, José Assunção² and Paula Coutinho¹ 1: Instituto Politécnico da Guarda (tpaiva@ipg.pt, coutinho@ipg.pt); 2: AAPIM - Associação de Agricultores para Produção Integrada de Frutos de Montanha (jose.assuncao@apim.com)



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October 3 | Scientific Program (Parallel Sessions)

16h30 Scientific Session - ID017; ID018; ID021; ID024 Room 2

- ID017 Evaluation of mature banana peel flour on physical, chemical and texture properties of vegetable gluten-free rissol** - Sofia Gomes¹, Bruna Vieira¹, Carla Barbosa^{1,2} and Rita Pinheiro^{1,3,*} 1: Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Viana do Castelo, Viana do Castelo, Portugal (e-mail: ritapinheiro@estg.ipvc.pt, web: http://www.estg.ipvc.pt); 2: LAQV-REQUIMTE, Porto, Portugal; 3: CEB, Centro de Engenharia Biológica, Universidade do Minho, Braga, Portugal
- Evaluation of no added sugar, gluten- and lactose-free cereal bars microstructure and texture using different hydrocolloids and drying temperatures** - Vanessa Martins¹, M. Rui Alves^{1,2} and Rita Pinheiro^{1,3,*} 1: Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Viana do Castelo, Viana do Castelo, Portugal (e-mail: ritapinheiro@estg.ipvc.pt, web: http://www.estg.ipvc.pt); 2: Requimte, Laboratório Associado para a Química Verde, Porto, Portugal; 3: CEB, Centro de Engenharia Biológica, Universidade do Minho, Braga, Portugal
- Development of a decision matrix to support the filling management of multicolored dry pasta in storage silos** - Catarina Magalhães¹, Susana Fonseca^{1,2} and Alberta Araújo^{1,3,*} 1: ESTG – Instituto Politécnico de Viana do Castelo, 4900-348 Viana do Castelo, Portugal; 2: GreenUPorto&LAQV-REQUIMTE, DGAOT, Faculdade de Ciências da Universidade do Porto, Campus Agrário Vairão, Rua Padre Armando Quintas 7, 4485-661 Vila do Conde, Portugal; 3: CEB – Centre of Biological Engineering, University of Minho, 4710-057 Braga, Portugal (*e-mail: alberta@estg.ipvc.pt)
- Evaluation of the effect of addition of fresh and dried starter cultures on physicochemical and sensory characteristics of a traditional portuguese smoked sausage chouriço** - D. Barros*, C. Sobrosa, R. Pinheiro, S. Fonseca and M. Vaz Velho Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Viana do Castelo 4900-348 Viana do Castelo (e-mail: dib@ipvc.pt, web: http://www.estg.ipvc.pt)

October 4 | Scientific Program (Sessões Paralelas)

09h30 Scientific Session - ID006; ID008; ID013; ID014 Auditorium

- ID006 Enzymatic time-temperature integrator device for chromatic quality check of cova da beira's cherry (Portugal)** - Adriana S. Quelhas¹, Pedro D. Gaspar^{1,2,*}, and Miguel Castelo-Branco^{1,3} 1: University of Beira Interior, Rua Marquês d'Ávila e Bolama, 6201-001, Covilhã, Portugal (e-mail: adrianakelhas@hotmail.com, dinis@ubi.pt, web: http://www.ubi.pt); 2: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, University of Beira Interior, Covilhã, Portugal; 3: CICS-UBI – Health Sciences Research Centre, University of Beira Interior, Covilhã, Portugal (e-mail: mcbranco@fcsauda.ubi.pt)
- Review on the controlled and modified environmental conditions towards the reduction of the chilling injury of peaches** - Cristina Rodrigues¹, Pedro D. Gaspar^{1,2,*}, Maria P. Simões³, Pedro D. Silva^{1,2} and Luís P. Andrade^{3, 4} 1: University of Beira Interior, Rua Marquês d'Ávila e Bolama, 6201-001, Covilhã, Portugal (e-mail: dinis@ubi.pt, web: http://www.ubi.pt); 2: C-MAST - Centre for Mechanical and Aerospace Science and Technologies, Covilhã, Portugal; 3: School of Agriculture, Polytechnic Institute of Castelo Branco, Qta. Sr.º Mécules, 6001-909 Castelo Branco, Portugal; 4: CATAA – Zona Industrial de Castelo Branco, Rua A, Castelo Branco, Portugal.
- Innovation requirements and specialized services in agrifood industries of north of portugal** - Ana Patrícia Sousa^{1,*}, Rita Pinheiro¹, and M. Vaz Velho¹ 1: Instituto Politécnico de Viana do Castelo / Escola Superior de Tecnologia e Gestão, 4900-348 Viana do Castelo (apatricia.sousa@estg.ipvc.pt, ritapinheiro@estg.ipvc.pt, mvazvelho@estg.ipvc.pt ; web: http://www.ipvc.pt)
- Extraction and quantification of dna in rocha pear (pyrus communis l.) And processed rocha pear products** - Ana Patrícia Sousa^{1,*}, Álvaro Queiroz², and M. Vaz Velho¹ 1: Instituto Politécnico de Viana do Castelo / Escola Superior de Tecnologia e Gestão, 4900-348 Viana do Castelo (apatricia.sousa@estg.ipvc.pt, ritapinheiro@estg.ipvc.pt, mvazvelho@estg.ipvc.pt ; web: http://www.ipvc.pt); 2: Instituto Politécnico de Viana do Castelo / Escola Superior Agrária, 4990-706 Ponte de Lima (alvaro.queiroz@esa.ipvc.pt)



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4 outubro | Scientific Program (Parallel Sessions)

09h30 Scientific Session - ID010; ID011; ID020; ID025 Room 1

ID010 Searching for sustainable herbicide alternatives - Carla Saraiva^{1,*}, Patrícia Marques¹ and Cristina Galhano^{1,2} 1: Coimbra College of Agriculture - Polytechnic Institute of Coimbra, Bencanta, 3045-601 Coimbra, Portugal (e-mail: carlsaraiva@gmail.com; isabelguiarmarques@gmail.com; e-mail: cicgalhano@esac.pt); 2: Centre for Functional Ecology - Science for People & the Planet, Department of Life Sciences, University of Coimbra, Calçada Martim de Freitas, 3000-456, Coimbra, Portugal

ID011 Medicinal and aromatic plants (map) as potential antibiotics to control fire blight - Teresa Costa¹, João Pedro Luz², Conceição Amaro², Susana Dias¹, Fernanda M. Ferreira^{1,3}, Paula Castro⁴ and Cristina Galhano^{1,4,*} 1: Coimbra College of Agriculture – Polytechnic Institute of Coimbra, Bencanta, 3045-601 Coimbra, Portugal (e-mail: tercosta@gmail.com; sudias@esac.pt; fferreira@esac.pt; cicgalhano@esac.pt); 2: Polytechnic Institute of Castelo Branco, Quinta da Senhora de Márqués, 6001-909 Castelo Branco, Portugal; (e-mail: j.p.luz@ipcb.pt; mcsilva@ipcb.pt); 3: CITAB – Centro de Investigação e de Tecnologias Agroambientais e Biológicas, Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal; 4: Centre for Functional Ecology - Science for People & the Planet, Department of Life Sciences, University of Coimbra, Calçada Martim de Freitas, 3000-456, Coimbra, Portugal (e-mail: pcastro@ci.uc.pt)

ID020 Optimization of storage silos for multi-coloured dry pasta production - Catarina Magalhães¹, Susana Fonseca^{1,2} and Alberta Araújo^{1,3,*} 1: ESTG – Instituto Politécnico de Viana do Castelo, 4900-348 Viana do Castelo, Portugal; 2: GreenUPorto&LAQV-REQUIMTE, DGAOT, Faculdade de Ciências da Universidade do Porto, Campus Agrário Vairão, Rua Padre Armando Quintas 7, 4485-661 Vila do Conde, Portugal; 3: CEB – Centre of Biological Engineering, University of Minho, 4710-057 Braga, Portugal (*e-mail: alberta@estg.ipvc.pt)

ID025 Adding value and innovation in dairy sme's: from butter to probiotic butter and buttermilk - Laura Ferreira^{1,2}, Ana Borges¹, David Gomes¹, Susana Dias², Carlos Pereira^{1,3} and Marta Henriques^{1,3,*} 1: Department of Food Science and Technology, College of Agriculture – Polytechnic Institute of Coimbra 3045-601 Coimbra (e-mail: {mhenriques; cpereira}@esac.pt; web: http://www.esac.pt); 2: Department of Environment, College of Agriculture – Polytechnic Institute of Coimbra, 3045-601 Coimbra (e-mail*: sudias@esac.pt, web: http://www.esac.pt); 3: CERNAS - Research Center for Natural Resources, Environment and Society, College of Agriculture – Polytechnic Institute of Coimbra, 3045-601 Coimbra

09h30 Scientific Session - ID015; ID019; ID027; ID030 Room 2

ID015 Physicochemical analysis of ham from entire male pigs raised with different feeding and housing conditions - Ricardo Pinto¹, Núria Reis¹, Carla Barbosa^{1,2}, Rita Pinheiro^{1,3} and Manuela Vaz Velho^{1,1}: Escola Superior de Tecnologia e Gestão do Instituto Politécnico de Viana do Castelo, Portugal. Avenida do Atlântico 644, 4900-348 Viana do Castelo (e-mail: rpinto@ipvc.pt, web: http://www.estg.ipvc.pt); 2: LAQV-REQUIMTE, Faculdade de Farmácia da Universidade do Porto, Portugal; 3: CEB - Centro de Engenharia Biológica, Universidade do Minho, Portugal.

ID019 Trust in management as a key on the development of a safety culture at agrifood industry, using biological and psychosocial risks as antecedents - Ana T. Ferreira^{1,*}, Joana Santos¹ 1: CISAS (Centre for Research and Development in Agrifood Systems and Sustainability), Viana do Castelo Polytechnique Institute Avenida do Atlântico, n.º 644 • 4900-498 Viana do Castelo (ateresaoliveira@estg.ipvc.pt, http://www.ipvc.pt, joana@estg.ipvc.pt, http://www.ipvc.pt)

ID027 Controlled enzymatic hydrolysis of almond skins to increase soluble fibre content - J. Saldo* and M. Buffa CIRTTA, Animal and Food Science Department, Universitat Autònoma de Barcelona; Facultat de Veterinària. 08193. Bellaterra (Cerdanyola del Vallès) (*e-mail: jordi.saldo@uab.cat)

ID030 Essential oils of aromatic and medicinal plants play a role in food safety - M. Laranjo^{1,2*}, A. M. Fernández-León^{1,2}, A. C. Agulheiro-Santos^{1,3}, M. E. Potes^{1,4} and M. Elias^{1,3} 1: ICAAM-Instituto de Ciências Agrárias e Ambientais Mediterrânicas, Universidade de Évora, Pólo da Mitra, Ap. 94, 7006-554 Évora, Portugal (e-mail: mlaranjo@uevora.pt); 2: IIFA-Instituto de Investigação e Formação Avançada, Universidade de Évora, Ap. 94, 7006-554 Évora, Portugal; 3: Departamento de Fitotecnia, Escola de Ciências e Tecnologia, Universidade de Évora, Pólo da Mitra, Ap. 94, 7006-554 Évora, Portugal; 4: Departamento de Medicina Veterinária, Escola de Ciências e Tecnologia, Universidade de Évora, Pólo da Mitra, Ap. 94, 7006-554 Évora, Portugal