



## RELATÓRIO DE ATIVIDADES CISAS

CENTRO DE INVESTIGAÇÃO E DESENVOLVIMENTO EM SISTEMAS AGROALIMENTARES E SUSTENTABILIDADE

CENTER FOR RESEARCH AND DEVELOPMENT IN AGRI-FOOD SYSTEMS AND SUSTAINABILITY

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## **Summary**

The purpose of this document is to systematize the set of activities carried out by CISAS during the year 2020 considering the objectives of CISAS Activity Plan for 2020 and the contents specified in the financing application proposal submitted to the Foundation for Science and Technology (FCT) in 2018, and the adjusted project financial budget approved in March 2020, including base (UIDB/05937/2020) and programmatic (UIDP/05937/2020) funding.

The year 2020, derived from the pandemic caused by COVID-19, was a completely atypical year in terms of what were the activities projections.

Thus, there were various cancellations and postponements of activities, with the consequent impact on the expected outputs.

Despite of the COVID-19 impacts most of the activities to accomplish the objectives previewed for the “organization” stage in 2020, stated in CISAS Activity Plan for 2020, have been fully or partially implemented during 2020.

## 1. Introduction

The Center for Research and Development in Agrifood Systems and Sustainability (CISAS, FCT Project Reference FCT -UID/05937/2017) is a multidisciplinary research and development (R&D) unit, based at the IPVC, which is focused on agri-food systems and sustainability issues, thus organized in two main areas, namely Agri-Food Systems and AgroSystems Resource Management and Sustainability.

CISAS Research Unit's Activity Plan for the year 2020 was aligned with the contents specified in the financing application proposal submitted to the Foundation for Science and Technology (FCT) on the 9<sup>th</sup> of February 2018, adjusted to the pluriannual 2020-2023 funding approval in December 2019, comprising a base funding of 198,400.00 € (UIDB/05937/2020) and programmatic funding of 355,000.00€ (UIDP/05937/2020).

In the original application for funding, it was considered critical for attaining the stated CISAS objectives to hire 4 PhD researchers (two per area/axis) fully allocated to CISAS' activities. However, the approved funding was considerably reduced and just a PhD junior contract has been financed under programmatic funding (UIDP/05937/2020).

The year 2020 corresponds to the 1st year of implementation of the 2020-2023 FCT pluriannual financing program.

## 2. CISAS FCT budget for 2020

The year 2020 corresponds to CISAS's 1st year of implementation of the 2020-2023 FCT pluriannual financing program. The total FCT pluriannual budget of 553,400.00€ approved by FCT (2020-2023), comprised a base budget of 198,400.00€ (UIDB/05937/2020) and a programmatic budget of 355,000.00€ (UIDP/05937/2020). The annual distributions planned for base and programmatic budgets in 2020 are presented in Tables 1 and 2.

For year 2020, it was considered a budget of 17, 988.63 € for UIDB/05937/2020 (Table 1) and 20, 126.33 € (Table 2), a total 38 114,96 € distributed within the major types of expenses spread along the year.

**TABLE 1. FCT pluriannual funding 2020-23 - Base (UIDB/05937/2020)**

Current expenses		2020	2021	2022	2023	Total
Recursos Humanos (RH)	62 276,04 €		€ 20 758,68	€ 20 758,68	€ 20 758,68	62 276,04 €
Missões no país e estrangeiro (M)	32 000,00 €	€ 5 000,00	€ 9 000,00	€ 9 000,00	€ 9 000,00	32 000,00 €
Consultores nacionais ou estrangeiros (C)	13 563,59 €	€ 3 390,90	€ 3 390,90	€ 3 390,90	€ 3 390,89	13 563,59 €
Aquisição de bens e serviços (AQ)	47 880,37 €	€ 6 000,00	€ 13 960,12	€ 13 960,12	€ 13 960,13	47 880,37 €
Registo nacional e no estrangeiro de patentes (P)	3 000,00 €		€ 500,00	€ 1 250,00	€ 1 250,00	3 000,00 €
Adaptação de edifícios e outras instalações (AE)	- €					-
Encargos Gerais (EG)	39 680,00 €	3 597,73 €	11 902,43 €	12 089,93 €	12 089,93 €	39 680,00 €
Demonstração, Promoção e Divulgação (DPD)						- €
Outras despesas correntes						- €
Equipamento (E)						
<b>TOTAL</b>	<b>198 400,00 €</b>	17 988,63 €	59 512,13 €	60 449,63 €	60 449,63 €	198 400,00 €

**TABLE 2. FCT pluriannual funding 2020-23- Programmatic (UIDP/05937/2020)**

Current expenses		2020	2021	2022	2023	Total
Recursos Humanos (RH)	121 895,00 €	8 126,33 €	37 922,89 €	37 922,89 €	37 922,89 €	121 895,00 €
Missões no país e estrangeiro (M)	5 000,01 €	600,00 €	1 466,67 €	1 466,67 €	1 466,67 €	5 000,01 €
Demonstração, Promoção e Divulgação (DPD)	- €	- €	- €	- €	- €	- €
Aquisição de bens e serviços (AQ)	124 105,00 €	10 000,00 €	38 035,00 €	38 035,00 €	38 035,00 €	124 105,00 €
Outras despesas correntes	3 999,99 €	600,00 €	1 133,33 €	1 133,33 €	1 133,33 €	3 999,99 €
Equipamento (E)	100 000,00 €	800,00 €	33 066,67 €	33 066,67 €	33 066,66 €	100 000,00 €
<b>TOTAL</b>	<b>355 000,00 €</b>	<b>20 126,33 €</b>	<b>111 624,56 €</b>	<b>111 624,56 €</b>	<b>111 624,55 €</b>	<b>355 000,00 €</b>

Due to the pandemic situation, a portion of the budget allocated to the activities consulting, missions, acquisition of goods and services, and human resources, linked to previewed 2020 FCT pluriannual base funding, that have not been implemented, were moved to 2021 and following years.

In the FCT contract for base pluriannual funding (UIDB/05937/2020), a budget of € 14 390,90 (x 25%= € 17 988,63) was previewed for year 2020, but CISAS overall expenditures were of € 12 162,10 (x 25%= € 15 202,63) (Table 3). Thus, the accounting balance of UIDB/05937/2020 (previewed Table 1/executed Table 3) in 2020 was € 2228,80.

**TABLE 3. FCT pluriannual funding 2020-23 - Base (UIDB/05937/2020)**

Current expenses		2020	2021	2022	2023	Total
Recursos Humanos (RH)	62 276,04 €	8 286,30 €	12 472,38 €	20 758,68 €	20 758,68 €	62 276,04 €
Missões no país e estrangeiro (M)	32 000,00 €	899,72 €	9 100,28 €	11 000,00 €	11 000,00 €	32 000,00 €
Consultores nacionais ou estrangeiros (C)	13 563,59 €	- €	4 521,20 €	4 521,20 €	4 521,19 €	13 563,59 €
Aquisição de bens e serviços (AQ)	47 880,37 €	2 976,08 €	14 960,12 €	14 960,12 €	14 984,05 €	47 880,37 €
Registo nacional e no estrangeiro de patentes (P)	3 000,00 €				3 000,00 €	3 000,00 €
Adaptação de edifícios e outras instalações (AE)	- €					- €
Encargos Gerais (EG)	39 680,00 €	3 040,53 €	10 263,50 €	12 810,00 €	13 565,98 €	39 680,00 €
Demonstração, Promoção e Divulgação (DPD)						- €
Outras despesas correntes						- €
Equipamento (E)						
<b>TOTAL</b>	<b>198 400,00 €</b>	<b>15 202,63 €</b>	<b>51 317,48 €</b>	<b>64 050,00 €</b>	<b>67 829,90 €</b>	<b>198 400,00 €</b>

The budget allocated to consulting (€ 3 390,90), associated to travel and lodge of the scientific consulting board, was moved to year 2021 and following years. Nevertheless, the 1st meeting of the scientific consulting board took place online in December.

From the budget previewed allocated to missions (€ 5 000,00) only € 899,72 were spent in the dissemination of the study “Purchase Behaviour of biological products – comparative study comparative in EU Mediterranean countries” and “*Trichinella* spp. in pigs raised for domestic slaughter”. The € 4 100,28 left were moved to the 2021 and following years.

The budget previewed for acquisition of goods and services was € 6 000,00 but only € 2976,08 were spent to support CISAS research activities, namely “Exploratory Study for Assessment of Occupational exposure to Chemical and Biological Agents in the Meat Processing Industry”; “Characterization and evaluation of the nutritional and functional potential of *Crithmum maritimum*”; “Purchase Behaviour of biological products – comparative study comparative in EU Mediterranean countries”; “Qualification of “Galo de Barcelos” and and “*Trichinella* spp. in pigs raised for domestic slaughter”.

On the other hand, expenditures in Human Resources were of 8 267,75 €, corresponding to PhD student research grants attributed within CISAS research activities approved in 2019 and running in 2020: “Study of the feasibility of using carcasses of uncastrated male pigs, rejected due to the

boar odor, for cured products” (5 months) and “Thermography in the evaluation of the water status of Alvarinho and Loureiro grape varieties” ( 2 months).

In the FCT contract for UIDP/05937/2020, a budget of € 20 126,33 was previewed for year 2020, but CISAS overall expenditures were of € 10 834,72 (Table 4). Thus, the accounting balance of UIDP/05937/2020 (previewed Table 2/executed Table 4) in 2020 was of € 9 291,61.

		2020	2021	2022	2023	Total
<b>Current expenses</b>						
Recursos Humanos (RH)	121 895,00 €	4 644,76 €	39 095,78 €	39 077,23 €	39 077,23 €	121 895,00 €
Missões no país e estrangeiro (M)	5 000,01 €		1 666,67 €	1 666,67 €	1 666,67 €	5 000,01 €
Demonstração, Promoção e Divulgação (DPD)	- €	- €	- €	- €	- €	- €
Aquisição de bens e serviços (AQ)	124 105,00 €	3 189,96 €	41 035,00 €	41 035,00 €	38 845,04 €	124 105,00 €
Outras despesas correntes	3 999,99 €	3 000,00 €	333,33 €	333,33 €	333,33 €	3 999,99 €
Equipamento (E)	100 000,00 €		33 266,67 €	33 266,67 €	33 466,66 €	100 000,00 €
<b>TOTAL</b>	<b>355 000,00 €</b>	<b>10 834,72 €</b>	<b>115 397,45 €</b>	<b>115 378,90 €</b>	<b>113 388,93 €</b>	<b>355 000,00 €</b>

In Human Resources it was previewed to spent € 8126,33 and 4 644,76 € were spent corresponding to the PhD student grant “Study of the feasibility of using carcasses of uncastrated male pigs, rejected due to the boar odor, for cured products” (4 months).

In acquisitions of goods and services were established € 10 000,00 € but only € 3 189,96 were spent to support the research activities “Exploratory Study for Assessment of Occupational exposure to Chemical and Biological Agents in the Meat Processing Industry”; “Characterization and evaluation of the nutritional and functional potential of *Crithmum maritimum*”; “*Trichinella* spp. in pigs raised for domestic slaughter” and “Study of the feasibility of using carcasses of uncastrated male pigs, rejected due to the boar odor, for cured products”.

In Other Expenses 3 000,00 € were spent corresponding to Colab4food association fee.

No budget was spent in Missions (previewed of € 600) and Equipment (previewed of € 800).

### 3. CISAS IPVC budget for 2020

The accounting balance of IPVC 2018-2020 budgets was of € 5.706,14€ in 31<sup>st</sup> of December 2020. This budget will be distributed in 2021 among CISAS’s members according to criteria established in CISAS Financing Regulation approved in 2020 (Article 11.º). The integrated (18) and collaborator (16) members considered in year 2020, will receive a fund of respectively 269,16€ and 53,83€ to be applied in research activities and respective outputs.

### 4. R&DT Projects 2020

In 2020 CISAS members submitted 21 proposals to various funding calls, 7 of which were international (Table 5). Three of them were approved during 2020 and 8 are waiting for the final decision. Five of the 7 international submitted projects were not approved, although still waiting for the final decision of two.

**TABLE 5- CISAS SUBMITTED PROJECT PROPOSALS TO R&D FUNDING CALLS IN 2020**

Project Title/acronym	Funding	Project code number	IPVC coordination	Approved	Not approved	Waiting
Best Fly Waste	COMPETE	NORTE-01-0247-FEDER-072253	No			x
PICAR	COMPETE	NORTE-01-0247-FEDER-069584	No			x
Agromarket	COMPETE	NORTE-01-0247-FEDER-069488	No			x
VALORlocal	COMPETE	NORTE-01-0247-FEDER-072634	No			x
STOP.SUZUKII	COMPETE	NORTE-01-0247-FEDER-047034	No			x
Escolhe Ser +Igal: promoção da igualdade de escolhas no Ensino Superior	EEA Grants		No		x	
BIMP	EEA Grants		Yes		x	
Inclusive School	ERASMUS+		Yes			x
Bring Me Back	ERASMUS+		Yes		x	
BigData4ALL	ERASMUS+		Yes		x	
FOODART	ERASMUS+				x	
No Food Loss & Waste - Sem perdas nem desperdícios alimentares	FCT	PTDC/GES-AMB/4918/2020	No		x	
Inovação em Três Estratégias Biológicas Promissoras para Controlar a Doença do Cancro Bacteriano do Kiwi	FCT	PTDC/ASP-PLA/7750/2020	Yes		x	
Criando bons locais de trabalho na pesca e aquacultura	FCT	PTDC/ASP-PES/7487/2020	Yes		x	
VALPINUS	FCT	PTDC/ASP-SIL/3604/2020	Yes		x	
<b>Soil-Recon: Soil Ecosystems in the XXI Century: pressures, conservation and future scenarios</b>	FCT	PTDC/BIA-CBI/2340/2020	Yes	x		
AGRITECTURA – Agricultura + Tecnologia + Arquitetura	Fundo Ambiental		Yes		x	
<b>NUTRIR - Contratação de Recursos Altamente Qualificados</b>	NORTE 2020	NORTE-06-3559-FSE-000204	Yes	x		
<b>TECCCo+Lab - Rumo a um laboratório de testes Covid19 mais eficiente, abrangente e colaborativo</b>	AICT- NORTE2020	1eb94629-cf7c-4453-b426-2bdd	Sim	x		
EMERN_Q	SIAC_Norte	NORTE-02-0853-FEDER-037626	No			x
Training 4.0	H2020		No			x

Five proposals submitted in 2019 were approved and started in 2020: S4Agro - Soluções Sustentáveis para o Setor Agroindustrial; Refill\_H2O; TECH – Technology, Environment, Creativity and Health; BIOMA-Soluções integradas de BIOeconomia para a Mobilização da cadeia Agroalimentar; and IPVC Concilia.

Table 6 shows all the projects running in 2020 having CISAS members as proponents or collaborators, involving an IPVC total budget of € 3 785 209,47 during projects lifetimes.

TABLE 6 - IPVC 2020 R&D ongoing projects with CISAS' members participation	Status	PERIOD	FUNDING (€) IPVC	Funding Entity	National/International
INTERNOVAMARKET - Programa acelerador INTERNOVAMARKET para aumentar la competitividad del sector alimentario de Galicia-Norte de Portugal	Running	2017-2021	€ 212 823,51	POCTEP	international
Acontece in Loco - Montanha do Alto Minho.	Running	2017-2021	€ 29 125,94	PDR2020	national
ClimCast-Os novos desafios para o soute no contexto das alterações climáticas	Running	2017-2021	€ 19 157,46	PDR2020	national
Estratégias de proteção fitossanitária para a produção sustentável da maçã	Running	2017-2021	€ 25 279,04	PDR2020	national
Minho – Região Europeia da Gastronomia	Running	2017-2021	€ 50 992,85	NORTE2020	national
MOBFOOD – Mobilização de conhecimento científico e tecnológico em resposta aos desafios do mercado Agroalimentar (PP56)	Running	2017-2021	€ 126 406,37	COMPETE2020	national
NUTRIAGE – Soluciones Avanzadas para un Envejecimiento Saludable Através de la Nutrición en el marco de la Eurorregión Galicia Norte de Portugal	Running	2017-2021	€ 152 838,04	POCTEP	international
VALORMAR - Valorização integral dos recursos marinhos: potencial, inovação tecnológica e novas aplicações (PP51)	Running	2017-2021	€ 377 203,96	COMPETE2020	national
BioPest-Estratégias integradas de luta contra pragas-chave em espécies de frutos secos	Running	2017-2021	€ 34 044,41	PDR2020	national
GesPSA Kiwi- Ferramenta Operacional para gestão sustentável do cancro bacteriano (Psa) da Actinídea	Running	2018-2021	€ 148 251,56	NORTE2020	national
Innovative Cooperation Business – HEI Learning Model for Tourism (INCOME)	Running	2018-2021	€ 115 865,00	ERASMUS+	international
IEcPBI - Interactive ecosystem for Portuguese business internationalization	Running	2018-2021	n/a	COMPETE2020	national
RICEPLUS - Desenvolvimento de soluções inovadoras de funcionalização tecnológica e nutricional de arroz Carolino	Running	2018-2021	€ 190 087,05	COMPETE2020	national
BioChetnut-IPM-Implementar estratégias de luta eficazes contra doenças do castanheiro e amendoeira	Running	2018-2021	€ 32 214,57	PDR2020	national
BEYONDSCALE: Developing the organizational capacity of higher education institutions using the innovative platform to facilitate peer learning and a pan-european community of practice	Running	2019-2021	€ 51 226,00	ERASMUS+	international
Refill_H2O	Approved 2020	2020-2022	€ 130 412,14	EEA Grants	international
S4Agro - Soluções Sustentáveis para o Setor Agroindustrial	Approved 2020	2020-2022	€ 142 576,80	COMPETE2020	national
BIOMA-Soluções integradas de BIOeconomia para a Mobilização da cadeia Agroalimentar	Approved 2020	2020-2023	€ 390 741,07	COMPETE2020	national
TECH - Technology, Environment, Creativity and Health - Line of Research 2	Approved 2020	2020-2023	€ 442 505,23	NORTE2020	national
TECCo+Lab - Rumo a um laboratório de testes Covid19 mais eficiente, abrangente e colaborativo	Approved 2020	2020-2023	€ 364 346,44	SAICT NORTE2020	national
Soil-Recon: Soil Ecosystems in the XXI Century: pressures, conservation and future scenarios	Approved 2020	2021-2023	€ 248 644,25	FCT	national
NUTRIR - Núcleo Tecnológico para a Sustentabilidade Agroalimentar	Approved 2020	2021-2023	€ 500 467,79	NORTE2020	national
IPVC Concilia	Approved 2020	2020-2020	€ 582 205,43	COMPETE2020	national
<b>TOTAL BUDGET IPVC</b>			<b>€ 3 785 209,47</b>		

## 5. Activities and outputs 2020

CISAS objectives stated in 2020 Activity Plan were as follows:

1. Creation of CISAS structure and governance;
2. Activation of consultancy structure involving the consultative external committees (advisory scientific and stakeholders boards);
3. Integration of CISAS administrative activities in the IPVC structure;
4. Encouraging scientific production and project funding applications, putting into practice merit awards.

Despite of the COVID-19 impacts most of the activities to fulfill the objectives, listed below, and previewed for the “organization” stage, as stated in CISAS Activity Plan for 2020, have been fully or partially implemented during 2020:

1. The elaboration of CISAS organization statutes and CISAS financing regulation  
*CISAS organization statutes and regulations were approved in July 2020.*
2. The creation of the governance structure according to CISAS established statutes  
*A director and a direction board were elected/nominated according to CISAS statutes. A direction board was constituted in November 2020, composed by the Director/Coordinator, nominated/elected by the Scientific Council and ratified by the Presidente of IPVC for a 4-year mandate, and 2 Vice-Directors nominated by the Director and ratified by the Scientific Council.*
3. The establishment of merit awards criteria according to CISAS established financing regulation  
*Merit awards criteria according to CISAS established financing regulation were approved in 2020 and will be put into practice in 2021 by attributing and distributing budgets to*



*CISAS members who accomplish the merit criteria approved in 2020, based on 2018, 2019 and 2020 individual achievements.*

4. The attribution of budgets to support scientific activities within CISAS main lines of research, approved by the Scientific Council  
*Partially done; only IPVC budget and previous approved activities (2018-2019) were considered an approved to run in 2020; It will be necessary to organize CISAS research lines to allow the distribution of budgets allocated to specific areas.*
5. The submission of project funding applications  
*The project funding applications is a permanent task. CISAS members, directly or through IPVC participation, in 2020 have applied for funding and several projects were running in 2020, as it was shown in Chapter 4.*
6. The formal activation of the Advisory Scientific and Stakeholders committees considering the adequacy to CISAS core research lines  
*Partially done.*  
*The Advisory Scientific board was activated and a first online meeting took place in 11 of December; The Advisory Scientific committee for 2021 it will be composed by four researchers of international reputation in the Agrifood area, namely Professor Manuela Pintado (Portugal), Professor Jean Louis Marty (France), Professor Vicente Sotes (Spain). However, an original member left the board considering the present professional inadequacy to CISAS core research lines. Therefore, Professor Luisa Torry, Associate Professor of Sensory and Consumer Science from University of Gastronomic Sciences (Bra, Italy) will be the new advisory board member.*  
*Although the first meeting of the advisory scientific board took place online in December 2020, this meeting had no evaluation purpose aiming only to introduce the advisory board members to CISAS direction board and the evaluation report of CISAS activities of 2020 will be a result of a presential meeting in July 2021.*  
*The stakeholder's committee was not activated, but contacts with some of the enterprises, listed in the original application for funding, were performed. So far, two enterprises accepted the invitation. An online meeting is expected to occur until Jun 2021.*
7. Recruitment of a PhD junior researcher 100% allocated to CISAS  
*Not done; The necessary CISAS legal procedures for hiring of a PhD junior researcher were performed during 2020, but constraints, linked to establishment of criteria and legal procedures, within COVID 19 pandemic, conditionate the recruitment in 2020. The contract is expected to be starting in early 2021.*
8. The integration of CISAS administrative activities in IPVC structure supported by a technical-administrative staff to help to accomplish the above pointed activities  
*During 2020 a technical-administrative staff was attributed to CISAS by IPVC, but she left the institution at middle December; the recruitment of a new staff for OTIC is previewed for 2021.*

The 2020 R&DT outputs indicators are present in Table 7. Research activities are reported for integrated and collaborators members and are listed in Appendix 1.

Overall, it can be noticed that non-achievements were more prominent in Communications in Congresses directly related to COVID pandemic having also impact on publications in national journals, once the attendance to national congresses was scarce. Several congresses were

cancelled and one of the most prominent in the food area- the biannual national congress of Food Chemistry, was cancelled too. Nevertheless, an international congress was organized before March 2020 confinement and several webinars took place during 2020. Furthermore, the number of publications in international refereed journals was higher than previewed. None of the nine international submitted projects was approved in 2020, although still waiting for final decision of two. Also, most of the research activities were canceled for 3 months which affected MSc and PhD students ongoing works.

It important to highlight other CISAS members research activities not mentioned in this document and not listed in the Appendix 1: Reviewing of more than 60 scientific papers in international journals.

<b>TABLE 7 - CISAS OUTPUTS considering 2020 Activity Plan</b>		
<b>OUTPUTS/INDICATORS</b>	<b>Previewed PA 2020</b>	<b>Achieved RA 2020</b>
<b>Publications</b>		
Books/book chapter	10	11
Articles in international indexed journals	20	29
Articles in national journals and technical journals	30	22
<b>Communications in congresses/seminars</b>		
<b>Oral presentation</b>		
International congresses	10	6
National congresses	40	12
<b>Poster presentation</b>		
International congresses	30	23
National congresses	50	12
<b>Congresses/seminars organization:</b>		
Nationals	3	7
International	1	1
<b>R&amp;D new running projects</b>		
National	5	5
International	1	0
<b>Contracts for specialized services:</b>	6	5
<b>Master's thesis (completed)</b>	15	13
<b>Grants running in 2020</b>		
PhD Students	5	3
Master students	4	0

# Appendix 1

## 1.1 Articles in international peer reviewed journals

Abelha, M., Fernandes, S., Mesquita, D., Seabra, F. & **Ferreira-Oliveira, A.T.** (2020). Graduate Employability and Competence Development in Higher Education—A Systematic Literature Review Using PRISMA. *Sustainability*, 12, 5900. <https://doi.org/10.3390/su12155900>

**Araújo, J.P., Pires, P., Cerqueira, J.L., Barros, M., & Moreno, T.** (2020). Intramuscular fatty acid composition of the longissimus muscle of unweaned calves of the Minhota breed at different slaughter ages. *Iranian Journal of Applied Animal Science*, 20(1), 17-24. [http://ijas.iaurasht.ac.ir/article\\_671561.html](http://ijas.iaurasht.ac.ir/article_671561.html)

**Barbosa, C.** Machado, T.B.; **Alves, M.R.** & Oliveira, M.B.P.P., 2020. "Fresh-Cut Bell Peppers in Modified Atmosphere Packaging: Improving Shelf Life to Answer Food Security Concerns". *Molecules*, 25(10), 2323. <https://doi.org/10.3390/molecules25102323>

Barradas, P.F., Neto, Z., **Mateus, T.L.**, Teodoro, A.C., Duarte, L., Goncalves, H., Ferreira, P., Gartner, F., Sousa, R., Amorim, I., 2020. Serological Evidence of Rickettsia Exposure among Patients with Unknown Fever Origin in Angola, 2016-2017. *Interdisciplinary Perspectives on Infectious Diseases*, 2020, 5 pp. <https://doi.org/10.1155/2020/4905783>

Barradas, P.F., Flores, A.R., **Mateus, T.L.**, Carvalho, F., Gartner, F., Amorim, I., Mesquita, J.R. 2020. *Crenosoma striatum* in lungs of European hedgehogs (*Erinaceus europaeus*) from Portugal. *Helminthologia*, 57(2), 179-184. <https://doi.org/10.2478/helm-2020-0020>

**Barros D., Vieito C., Santos J., Ramos C. & Vaz-Velho M.** (2020). Inhibitory Effects of *Pinus Pinaster* Aiton Subsp. *atlantica* Bark Extracts Against Known Food Pathogens, *Chemical Engineering Transactions*, 79, 163-168 <https://doi.org/10.3303/CET2079028>

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## 1.4 Communications in congresses, conferences and seminars

### 1.4.1 Oral presentations

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**Araújo, J. P. (2020).** A importância e os desafios das raças autóctones em Portugal. Webinar Dia Mundial da Biodiversidade 2020, ESA.VIDA. [https://www.researchgate.net/publication/354474481\\_Web\\_Inar\\_Dia\\_Mundial\\_da\\_Biodiversidade\\_de\\_22\\_maio\\_2020](https://www.researchgate.net/publication/354474481_Web_Inar_Dia_Mundial_da_Biodiversidade_de_22_maio_2020)

**Araújo, J. P. (2020).** Agro-silvo-pastorícia, Floresta e Biodiversidade. Seminário - "Montanhas Vivas, Comunidades Resilientes: Agro-silvo-pastorícia, Floresta e Biodiversidade, Seminário final



do projeto Acontece in Loco - Montanha do Alto Minho. 20 de novembro de 2020, em formato webinar. <http://www.aconteceinloco.altominho.pt/gca/?id=1515>

**Araújo-Paredes, C., Valin, I., Mendes, S.,** García-Fernández, M. & Rodríguez-Pérez, J.R. (2020). Estimación do potencial hídrico de ramo mediante regressão parcial de mínimos quadrados (plsr) a partir da reflectância da folha. Livro de resumos do VIII Congresso Nacional de Rega e Drenagem, 35-36. [http://www.cotr.pt/docs/VIIICNRD/VIIICNRD\\_zoom\\_ficheiros/Resumos/LR\\_VIII\\_CNRD.pdf](http://www.cotr.pt/docs/VIIICNRD/VIIICNRD_zoom_ficheiros/Resumos/LR_VIII_CNRD.pdf)

**Brito, N.V.** (2020). "Sustainability, Ethics and Welfare in the Consumer's Perspective". Round Table - Healthy diets from sustainable food systems: mission (im)possible. 4th International Conference on Childhood and Adolescence and 7th annual meeting of the Social Paediatric Subcommittee (SPS-SPP) of the Portuguese Society of Paediatrics. EventQualia, Social Paediatrics Section of the Portuguese Society of Paediatrics (SPS-SPP) and Portuguese Society for the Study of Abused and Neglected Children (SpeCan), 23rd to 25th January, Lisbon, pp23-25. ISBN: 978-989-54102-3-1. [https://objsrv01.eventqualia.com/evt4-media/documents/atas\\_ICCA\\_2020\\_V2.pdf](https://objsrv01.eventqualia.com/evt4-media/documents/atas_ICCA_2020_V2.pdf)

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Cunha, E., Vieira, C., Ribeiro, V., Dantas, R., Leite, J.V. & **Brito, N. V.** (2020). The Egg Yolk Plasma Effect on Cryopreserved Indigenous Roosters Semen. Libro de Resúmenes XXI Simposio Iberoamericano sobre Conservación y Utilización de Recursos Zoogenéticos. 15 y 16 de diciembre, p. 35, Red CONBIAND. Universidad de Córdoba. España. [https://conbiand.site/wp-content/uploads/2021/01/Libro\\_resumenes\\_XXI.pdf](https://conbiand.site/wp-content/uploads/2021/01/Libro_resumenes_XXI.pdf)

**Ferreira- Oliveira, A.T.** (2020). Interface das Tecnologias e das Pessoas em situação de aprendizagem. CS11. Conferência Anual da Comissão Setorial para a Educação e Formação. Comissão Intersectorial. Comissão Setorial para a Educação e Formação do Instituto Português da Qualidade. Fundação Pulido Valente. 3.º Webinar - Conferência Anual da Comissão Setorial para a Educação e Formação (CS/11) - YouTube **[by invitation]**. <https://www.youtube.com/watch?v=XuWd5-qxyvA&list=PLVx3NIOZzmlcPTIAx-PCnfa4hBHEIQTpc&index=3> minuto 58

**Ferreira- Oliveira, A.T. & Rodrigues, A. S.** (2020). Escola Inclusiva IPVC: A aprendizagem em serviço (ApS) como vetor estruturante e organizativo na gestão institucional, Seminário "Experiências de Aprendizagem e Serviço em Portugal", ORSIES, dia 19 de novembro de 2020. [https://www.researchgate.net/publication/354779177\\_Escola\\_Inclusiva\\_IPVC\\_A\\_aprendizagem\\_em\\_servico\\_ApS\\_como\\_vetor\\_estruturante\\_e\\_organizativo\\_na\\_gestao\\_institucional](https://www.researchgate.net/publication/354779177_Escola_Inclusiva_IPVC_A_aprendizagem_em_servico_ApS_como_vetor_estruturante_e_organizativo_na_gestao_institucional)

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#### 1.4.2 Poster presentations

**Araújo, J.P., Cerqueira J.L., Barros, M.,** Fernandes, E., **Rodrigues, R.,** Lebret, B. & **Pires, P.** (2020). Red wine in cured Bísaro pig ham to minimise salt content and improve physico-chemical attributes. 71<sup>st</sup> Annual Meeting of the European Federation of Animal Science, de 1 a 4 de dezembro de 2020, Virtual Meeting. Book of abstracts Nº 26, pág. 518. <https://doi.org/10.3920/978-90-8686-900-8>

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Balinha, R., Sá, C. & **Bruto, N. V.** (2020). Reabilitação Física no Pós-Cirúrgico de Fraturas. Abstracts in Conference Proceedings of the Enfermagem Veterinária/Veterinary Nurse XVI Congresso Internacional Veterinário Montenegro, pp.12-13, 20 a 22 fevereiro - Santa Maria da Feira, Portugal [https://congressohvm.com/1/dw/ProceendingsPoster/Proceedings\\_ConcursoCientificoPoster\\_Enfermagem.pdf](https://congressohvm.com/1/dw/ProceendingsPoster/Proceedings_ConcursoCientificoPoster_Enfermagem.pdf)

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Ciência '20 – Encontro com a Ciência e Tecnologia 2020. Centro de Congressos de Lisboa, 3 e 4 de novembro 2020.

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Vicente, A., Serpa, R., Ralão, J, **Brito, L.M.** & Carolino, N. (2020). Genetic evaluation of the lusitano horse breed in morphology competitions. Book of abstracts of the **71<sup>st</sup> Annual Meeting of European Federation of Animal Science**, August 31st to September 4th 2020, Porto, Portugal. Virtual Meeting. Book of abstracts 26. p.339. <https://doi.org/10.3920/978-90-8686-900-8>

## 1.5 Masters awarded

Ana Cristina Gonçalves, Caracterização do Processo de Produção de Queijo de Cabra na Queijaria Prados de Melgaço. Parceria com a Queijaria Prados de Melgaço, ESTG-IPVC, Jun 2020. Supervisor Maria Alberta Araújo. [http://portal.ipvcc.pt/portal/page/portal/estg/estg\\_noticias/2020/estg\\_provas\\_mestrado\\_ea\\_2020\\_03](http://portal.ipvcc.pt/portal/page/portal/estg/estg_noticias/2020/estg_provas_mestrado_ea_2020_03)

Ana Rita Pereira Martins. Biodiversidade e hipovirulência de *Cryphonectria parasitica* na Região do Entre Douro e Minho: implicações para o controlo biológico do cancro do castanheiro. 2018-2020. Dissertação de mestrado em Agricultura Biológica. Escola Superior Agrária, Instituto Politécnico de Viana do Castelo. Within project “BioChestnut-IPM-Implementar estratégias de luta eficazes contra doenças do castanheiro e amendoeira”. Projecto PDR2020-101-030948. Co-supervisor Maria Luísa Roldão Marques Moura. <https://renates2.dgeec.mec.pt/ppsqdet.asp?tid=202453812>

André Filipe Zão dos Santos, Mestrado em Eng. Alimentar: Validação de um protocolo de higienização numa empresa de processamento de carnes. ESTG/IPVC. Supervisor: Manuela Vaz Velho <https://renates2.dgeec.mec.pt/ppsqdet.asp?tid=202574032>

Andreia Catarina Fernandes Rodrigues. Comparação do desenvolvimento da planta *Photinia x fraseri* ‘Red Robin’ produzida com diferentes substratos comerciais e modos de fertilização. 2018-2020. Dissertação de mestrado em Agricultura Biológica. Escola Superior Agrária, Instituto Politécnico de Viana do Castelo. Supervisor: Luísa Moura; Cosupervisor Miguel Brito <https://renates2.dgeec.mec.pt/ppsqdet.asp?tid=202451119>

Flávia Rodrigues, Gestão de Recursos Humanos na Administração Pública: Um estágio na Câmara Municipal de Melgaço, Instituto Politécnico de Viana do Castelo, Mestrado em Gestão-Ramo Gestão Empresas, APNOR. Within project: GEMCAT - CRIAÇÃO DE EMPREGO DE QUALIDADE TRANSFRONTEIRIÇO. Supervisor Ana Teresa Oliveira [http://repositorio.ipvcc.pt/bitstream/20.500.11960/2483/1/Flavia\\_Rodrigues.pdf](http://repositorio.ipvcc.pt/bitstream/20.500.11960/2483/1/Flavia_Rodrigues.pdf)

Francisca Salazar Abreu, Efeito do Terroir no Perfil do Vinho da Casta Alvarinho. Universidade Católica, Mestrado em Biotecnologia e Inovação. Within Project TERR@ALVA: Definição e influência do terroir na qualidade do vinho Alvarinho. POCI-01-0145-FEDER-024328 –Ana Sofia Rodrigues [https://www.porto.ucp.pt/pt/central-teses?field\\_adt\\_value=All&field\\_udt\\_nid=379&field\\_cit\\_value=1&page=2](https://www.porto.ucp.pt/pt/central-teses?field_adt_value=All&field_udt_nid=379&field_cit_value=1&page=2)

João Carlos de Almeida Capitão. Efeito de corretivos orgânicos de resíduos vinícolas com diferentes tempos de compostagem na cultura de alface. Dissertação de mestrado de Agricultura Biológica. Escola Superior Agrária, Instituto Politécnico de Viana do Castelo. Supervisor Miguel Brito. [http://repositorio.ipvcc.pt/bitstream/20.500.11960/2527/1/Capitao\\_Joao\\_13006.pdf](http://repositorio.ipvcc.pt/bitstream/20.500.11960/2527/1/Capitao_Joao_13006.pdf)

Marcelo Leitão. Molecular characterization of avian malaria hemoparasites in wild birds. Escola Universitária Vasco da Gama. Mestrado Integrado em Medicina Veterinária. Within project: HEPIWIB – hemoparasites in wild birds. Supervisor Teresa Mateus <https://renates2.dgeec.mec.pt/ppsqdet.asp?tid=202612104>

Nelson Miguel Fernandes Couto, Mestrado em Eng. Alimentar: Avaliação do potencial da flora microbiana do queijo da Serra da Estrela como marcador de autenticidade. ESTG/IPVC. Within project MOBFOOD. Supervisor Joana Santos, Co-supervisor: Manuela Vaz Velho [http://portal.ipvcc.pt/portal/page/portal/estg/estg\\_noticias/2020/estg\\_provas\\_mestrado\\_ea\\_2020\\_05](http://portal.ipvcc.pt/portal/page/portal/estg/estg_noticias/2020/estg_provas_mestrado_ea_2020_05)

Pedro Silva, Implementação e verificação do sistema HACCP nos clientes da Ambiglobal. Parceria com AMBIGLOBAL - Prestação de Serviços de Segurança, higiene e saúde no trabalho, Lda, ESTG-IPVC. Supervisor Alberta Araújo

[http://portal.ipvc.pt/portal/page/portal/estg/estg\\_noticias/2020/estg\\_provas\\_mestrado\\_ea\\_2020\\_06](http://portal.ipvc.pt/portal/page/portal/estg/estg_noticias/2020/estg_provas_mestrado_ea_2020_06)

Rafaela Mariz Dias no Mestrado em Eng. Alimentar: Determinação de amins biogénicas- Implementação de uma metodologia em produtos cárneos. ESTG/IPVC. Within project DEmBiofumados. Supervisor Preciosa Pires, Co-supervisor: Manuela Vaz Velho. [http://repositorio.ipvc.pt/bitstream/20.500.11960/2469/1/Rafaela\\_Dias.pdf](http://repositorio.ipvc.pt/bitstream/20.500.11960/2469/1/Rafaela_Dias.pdf)

Sara Cardoso. Influência da dieta no crescimento e composição química de larvas de insetos coleóptera (*Tenebrio molitor* e *Zophobas morio*). ESA-IPVC. Mestrado em Agricultura Biológica. 2018, 2020. Within Project-FEAMP-0087 – Modelo técnico de produção intensiva de rã Rana perezi – Supervisor Teresa Mateus <https://renates2.dgeec.mec.pt/ppsqdet.asp?tid=202450988>

Sofia Costa Gomes (2020). Desenvolvimento de um chocolate enriquecido com vitamina C (E300 e Myrciaria dubia): efeito na qualidade do produto e aceitabilidade, estágio na Fábrica de Chocolates Casa Grande. IPVC-ESTG. Supervisor Carla Barbosa <https://renates2.dgeec.mec.pt/ppsqdet.asp?tid=202450384>

## 1.6 Congresses/seminars organization

**X Seminário de Educação pelos Pares – A Saúde no Ensino Superior, 10/09/2020**, Escola Superior de Tecnologia da Saúde de Coimbra. **Sónia Fialho**

Building Information Modelling - **Saúde Segurança & Ambiente na Construção**, Escola Superior de Tecnologia da Saúde de Coimbra, **03/06/2020**, Coimbra. (webinar) **Marta Vasconcelos**,

**Semana Europeia da Saúde Pública**, Escola Superior de Tecnologia da Saúde de Coimbra, 11 a 15/05/2020, Coimbra. **Marta Vasconcelos**

**A Saúde Ambiental na Era COVID-19**, Escola Superior de Tecnologia da Saúde de Coimbra, **28/04/2020**, Coimbra. (webinar) **Marta Vasconcelos**

**5ª Semana das Ciências da Vida e da Terra. (Webinar) “Anos vinte, século XXI: Tecnologias e políticas para a agricultura e o desenvolvimento rural”, December 2020:**

7as Jornadas de Ciências Agronómicas, na 5ª Semana das Ciências da Vida e da Terra.. (Webinar) “Anos vinte, século XXI: Tecnologias e políticas para a agricultura e o desenvolvimento rural”, 18/12/2020, ESA/IPVC. **Ana Sofia Rodrigues, Cláudio Paredes, Isabel Mourão, Isabel Valin, Laura Soares, Luísa Moura, Marinho Cardoso, Miguel Brito, Raul Rodrigues**

[http://portal.ipvc.pt/portal/page/portal/esa/esa\\_noticias\\_agenda/2020/webinar-ciencias-agronomicas](http://portal.ipvc.pt/portal/page/portal/esa/esa_noticias_agenda/2020/webinar-ciencias-agronomicas)

Jornadas de Ciências Veterinárias (Webinar), intituladas: “Ciências Veterinárias, todo um mundo a explorar”, realizadas no âmbito da 5ª Semana das Ciências da Vida e da Terra (Terra.ECO), ESA-IPVC, 14/12/2020. Ciências Animais e Veterinárias “Ciências Veterinárias: todo um mundo a explorar!”, 14/12/2020. (webinar) **Nuno Vieira e Brito**

8ªs Jornadas de Ciências Biotecnológicas, 5ª Semana das Ciências da Vida e da Terra (Terra.ECO) 11/12/2020, ESA-IPVC. **Ana Paula Vale, Isabel Afonso Paula, Júlio César Lopes**

Jornadas em Ciências e Engenharia do Ambiente, 5ª Semana das Ciências da Vida e da Terra (Terra.ECO). ESA-IPVC, 9/12/2020. **Cláudio Paredes, Isabel Valín, Luís Miguel Brito**

**XIX Encontro Nacional de Ecologia, 09/12/2020**, ESA/IPVC. **Ana Guedes** <https://www.speco.pt/pt/iniciativas/congressos/nacionais/xix-encontro-nacional-de-ecologia-e-celebracao-dos-25-anos-da-speco>

**II Symposium Ibérico de Ingeniería Hortícola.** Associação Portuguesa de Horticultura (APH), Sociedad Española de Ciencias Hortícola (SECH), Ponte de Lima de **06-09/032020**. **Isabel Valín, Susana Mendes, Ana Paula Vale, Marinho Cardoso, Cláudio Paredes.** <http://sibeh2020.ipv.pt/comite/>

**2º Ciclo de Seminários Gestão de Pessoas e Desenvolvimento Sustentável no Alto Minho** - ESTG.IPVC - Dia 29 maio 18h00 - Silvia Miranda, Human Resources Generalist, BorgWarner Emissions & Thermal Systems. Dia 05 junho 18h00 - Carlos Ribeiro, Head of HR, Grupo Vicaima. Dia 12 junho 18h00 - Carla Regina Oliveira, Advisor of Managing Director, Enercon. Dia 19 junho 18h00 - Catarina Mota, Diretora RH, Painhas S.A. ESTG-IPVC. **Ana Teresa Oliveira Organizing committee.** [http://portal.ipv.pt/images/ipv/estg/pdf/seminarios\\_mgo\\_cartaz.pdf](http://portal.ipv.pt/images/ipv/estg/pdf/seminarios_mgo_cartaz.pdf)

### 1.7 Congresses/seminars scientific committees

**V Congresso Internacional de Riscos.** 12-16 de outubro de 2020, Faculdade de Letras Universidade de Coimbra. **Luís Miguel Brito** <https://vcir.riscos.pt/tema/comissoes/cc/>

**II Simpósio Ibérico de Engenharia Hortícola (SIbEH2020)**, organizado pela Associação Portuguesa de Horticultura (APH) e a Sociedad Española de Ciencias Hortícolas(SECH), de 04 a 06/03/2020, na Escola Superior Agrária do Instituto Politécnico de Viana do Castelo (ESA-IPVC), Ponte de Lima. **Isabel Valín, Susana Mendes** <http://sibeh2020.ipv.pt/comite/>

**XVI Congresso Internacional Veterinário Montenegro e X Congresso de Enfermagem Veterinária.** Inovação & Desenvolvimento Sem Segredos. Santa Maria da Feira (Comissão Científica e Moderação de Mesa), 2020. **Teresa Mateus** <https://congressohvm.com/1/comissao-cientifica-enfermagem/>

**IBIC 2020- International Conference on Industrial Biotechnology.** 29th of March to 1st of April of 2020, Firenze. Organization of AIDICT\_Associazione Italiana Di Ingegneria Chimica. <https://www.aidic.it/ibic2020/page.php?pipe=testoscientificcommittee.php>. **Manuela Vaz Velho**

**PAEE/ALE(International Symposium on Project Approaches in Engineering Education (PAEE), Active Learning in Engineering Education Workshop (ALE), 28 Agost, Thailand, (2020) (SCOPUS) Ana Teresa Oliveira**

**CCS2020** (<http://www.ccs2020.ipt.pt/media/1271/book-of-abstracts-ccs2020.pdf>). **Ana Sofia Rodrigues**

71st Annual Meeting of European Federation of Animal Science EAAP 2020, Porto. **Nuno Brito**

**VIII Congresso Nacional de Rega e Drenagem.** Centro Operativo de Tecnicas de Regadio (25 a 27 de novembro 2020, Beja). **Isabel Valín.** <https://www.eaap.org/wp-content/uploads/2020/11/EAAP-programme-2020-dates-and-speakers.pdf>