

# ENCONTRO INVESTIGAÇÃO JOVEM

14.ª EDIÇÃO



5.6.7.  
MAIO 2021  
ONLINE

**PROGRAMA CIENTÍFICO**  
*SCIENTIFIC PROGRAM*

# Boas-Vindas

Caros participantes do IJUP2021,

A 14ª edição do IJUP que tem lugar este ano, é por todas as razões uma iniciativa particularmente especial. Os momentos que atravessamos e a perturbação causadas pela pandemia levaram a adiar esta iniciativa por alguns meses e a tomar a decisão de pela primeira vez realizar o IJUP de 2021 no modelo não presencial. Apesar destas vicissitudes cá estamos todos, mais motivados do que nunca, a marcar presença mesmo que de forma diferente nesta iniciativa emblemática da U.Porto.

É para mim uma enorme satisfação verificar que na edição deste ano temos um número record de participantes (1302), bem como de apresentações orais e em poster (603). É uma demonstração clara da importância desta iniciativa na Universidade do Porto, e revela uma enorme resiliência do ecossistema de investigação da U.Porto, que como sabemos tiveram que trabalhar em condições muito difíceis.

A afirmação da U.Porto no panorama nacional e internacional, passa pela aposta na investigação científica de excelência e a consolidação de uma cultura científica que desde da primeira hora promova a integração dos estudantes nas unidades de investigação. Especialmente numa altura em que se valoriza o desenvolvimento de competências transversais no âmbito do percurso formativo, é natural a aposta de uma formação universitária em estreita ligação com a investigação científica. Neste enquadramento, o IJUP assume uma especial importância enquanto iniciativa de promoção e valorização da investigação jovem realizada na nossa Universidade.

O IJUP proporciona aos participantes uma experiência em tudo semelhante ao de um grande congresso científico, permitindo para muitos um primeiro contacto com a realidade da investigação científica. O IJUP é de facto um espaço privilegiado para os estudantes mostrarem publicamente os resultados das suas investigações, treinarem a apresentação de comunicações científicas, debaterem questões metodológicas e partilharem conhecimento numa lógica multidisciplinar, da literatura às artes e arquitetura, passando pelas ciências da saúde ou pela criminologia. Este ano teremos uma edição virtual, de resto à imagem do que tem acontecido com os congressos internacionais realizados pelas variadas sociedades científicas ao longo deste ano.

Não queria deixar de dar uma palavra de agradecimento aos orientadores dos trabalhos científicos que vão ser apresentados, bem como aos responsáveis pelas unidades de investigação e as diferentes entidades que receberam os alunos para desenvolverem os seus trabalhos. Uma palavra de agradecimento para a Comissão Científica do IJUP, bem como os moderadores das sessões, sem os quais não teria sido possível organizar este evento. Sabemos todos que este ano foi particularmente difícil e exigente.

Resta-me enviar a todos os estudantes que participam no IJUP'21, um grande agradecimento pela vossa participação, e o desejo dos maiores sucessos académicos e científicos.

**Pedro Rodrigues**

**Vice-Reitor para a Investigação, Inovação e Internacionalização**

# Comissão Científica

## Scientific Committee



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**Sérgio Sousa**  
REQUIMTE

## Quarta-feira, 5 de maio

May, 5<sup>th</sup>, Wednesday

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08:00 – 19:00 **Secretariado digital a todos os participantes, suporte virtual**  
*Secretariat for all participants, virtual support*

### 09:00 – 10:30 **PARALLEL ORAL SESSIONS I**

#### **Room A1 – Economics & Management I**

**Can Tourism Development Reduce Poverty and Income Inequality in Developing Countries?**

Reis, Manuel

**Gravitational Analysis of Portugal's Exports, by Levels of Technological Intensity**

Gameiro, Rita R.

**Worldwide relocation of productions, wages, economic growth and social welfare**

Pinho, Mafalda; Afonso, Óscar; Fortuna, Natércia

**Does trade openness reduce poverty? A worldwide investigation between 2002 and 2017**

Nogueira, Ana R.R.

**Amazon rainforest products: the region of origin effect on consumer perception**

Calderari, Fernanda Bergamo; Meneses, Raquel

#### **Room A2 – Agro Food I**

**Tolerance response of tomato plants (*Solanum lycopersicum* L.) to climate change: biochemical aspects of salinity- and/or heat-induced stress**

Rodrigues, Francisca; Sousa, Bruno; Soares, Cristiano; Martins, Maria; Cunha, Ana; Fidalgo, Fernanda

**Overcoming combined stress takes a thick skin! Early activation of antioxidant responses in Ni-stressed tomato cultivars determines their resilience to drought co-exposure**

Spormann, Sofia; Soares, Cristiano; Martins, Viviana; Gerós, Hernâni; Fidalgo, Fernanda

**Modulation of glyphosate phytotoxicity by organic matter in tomato plants *Solanum lycopersicum* L.**

Mateus, Pedro; Soares, Cristiano; Pereira, Ruth; Fidalgo, Fernanda

**Wrack application as a tool to improve *Hordeum vulgare* L. tolerance to Cu-contaminated soils**

Sousa, Filipa; Martins, Maria; Sousa, Bruno; Soares, Cristiano; Azenha, Manuel; Pereira, Ruth; Fidalgo, Fernanda

**Differential impacts of eucalyptus-based herbicides on the growth of a non-target species, *Solanum lycopersicum* L.**

Pinto, Mafalda; Soares, Cristiano; Martins, Maria; Sousa, Bruno; Valente, Inês; Pereira, Ruth; Fidalgo, Fernanda

**Room A3 – Health Sciences I****Ageing bodies: narratives and voices of elders**

Martins, Catarina I.; Silva, Sofia M.

**Antibacterial activity of citronellol on Staphylococcus aureus biofilms as a potential treatment for chronic wounds**

Silva, Maria B.; Ribeiro, Marta; Simões, Manuel

**Assessing the effects of dietary phenolic acids on carcinogenic traits and glutamine and glucose uptake in breast cancer (MCF-7) cells**

Carmo, Francisca; Silva, Cláudia; Martel, Fátima

**Behavioural recovery after long-term anaesthesia in zebrafish larvae**

Claro, Ana M.; Jorge, Sara S.; Valentim, Ana M.

**Characterization of a yeast model of human N88S seipinopathy**

Nogueira, Verónica; Costa, Vítor; Teixeira, Vitor

**Characterization of DGCR8 microprocessor defect in thyroid lesions**

Rodrigues, Lia; Dias, Carolina; Macedo, Sofia; Batista, Rui; Pestana, Ana; Soares, Paula; Vinagre, João

**Ch-based biomaterials for tumor microenvironment immunomodulation: a systematic review**

Vargas Lima, Beatriz; Oliveira, Maria José; Barbosa, Mário Adolfo; Gonçalves, Raquel Madeira; Castro, Flávia

**Room A4 – Chemistry I****Amino acid derivatives of chrysin: synthesis and enantioselectivity study as inhibitors of growth of human tumor cell lines**

Almeida, Ana Sofia; Barbosa, Flávia Patrícia; Cunha, Andrea; Teixeira, Joana; Fernandes, Carla; Pinto, Madalena; Queirós, Odília; Tiritan, Maria Elizabeth

**Synthesis and structure elucidation of a series of chitosan conjugates with potential as inhibitors of growth of human tumor cell lines**

Lima, R.; Teixeira, J.; Tiritan, Maria E.; Pinto, M. M. M.; Fernandes, C.

**Enantioselective synthesis of new flavonoids with potential antitumor activity**

Pinto, Cláudia; Pereira, Daniela; Pinto, Madalena; Cidade, Honorina; Tiritan, Maria E.

**Synthesis and structure elucidation of new xanthone derived atropisomers for biological activity evaluation**

Händel, João Eduardo; Tiritan, Maria Elizabeth; Pinto, Madalena; Fernandes, Carla

**Xanthone derivatives: synthesis and structure elucidation of two isomers**

Martelli G.; Teixeira J.; Tiritan Maria E.; Fernandes C.; Pinto M.

**Synthesis of hybrids of flavones and cinnamic acid derivatives as potential new anti-aging ingredients combining UV protection and antioxidant activity**

Gomes, Joana; Moreira, Joana; Pinto, Madalena; Almeida, Isabel F.; Cidade, Honorina

**Fumiquinazoline related alkaloids: synthesis and preliminary antibacterial assessment**

Almeida, Mariana C.; Resende, Diana I. S. P.; Costa, Paulo; Pinto, Madalena; Sousa, Emília

**Room A5 – Biological Sciences I**

**Effectiveness evaluation of WWTP treatments: a multispecies ecotoxicological approach**

Diogo, Bárbara S.; Antunes, Sara C.

**Evaluation of ecotoxicological effects of metformin in *Gambusia holbrooki* under different salinity conditions**

Sousa, Maria; Rodrigues, Sara; Freitas, Rosa; Antunes, Sara C.

**Potential of Raman spectroscopy for environmental diagnosis using diatoms: a novel approach**

Pinto, Raquel; Vilarinho, Rui; Carvalho, António P.; Guimarães, Laura; Oliva Teles, Luis F.

**Do the elevated calcium content of phosphogypsum amended soils cause toxic effect to the terrestrial oligochaete?**

Gonçalves, Liliana; Bouguerra, Sirine; Lourenço, Joana; Hentati, Olfa; Ksibi, Mohamed; Pereira, Ruth

**Characterization of a bacterial consortium capable of biodegrading persistent pesticides**

Carneiro, Filipa; Alexandrino, Diogo A.M.; Mucha, Ana P.; Almeida, C. Marisa R.; Carvalho, Maria F.

**Assessment of the chronic effects of deltamethrin in *Daphnia magna***

Teixeira, Ingrid K.; Antunes, Sara C.; Rodrigues, Sara

**Room A6 – Law and Criminology**

**Smart contracts: the lawyer as a programmer**

Magalhães, Fernanda de A. M.

**Euthanasia as an evidence of respect towards the dignity of the human person – a fundamental right**

Ramalheira, Ricardo Jorge; Almeida, Ana Madalena

**The effect of fear of crime in martial arts and self-defence sports**

Ribeiro, L.; Almeida, P.; Guedes, I.

**The experiences of volunteers in prisional context**

Salselas, Mónica; Pinto da Costa, Mariana

09:00 - 10:30

**Room A7 - Astronomy**

**Astrophysical and local constraints on string theory: Runaway dilaton models**

C. J.A.P. Martins; L. Vacher

**Atomic diffusion in solar-like stars with MESA**

Campilho, Bernardo; Deal, Morgan; Bossini, Diego

**New Maps of the Dark Side**

Lapel, Axel; Martins, Carlos J. A. P.

**Redshift drift cosmology: ELT vs Cosmic Accelerometer**

Gamboa Pereira, Beatriz; Martins, Carlos J. A. P.; Esteves, J.; Alves, C.

**Scaling solutions of wiggly cosmic strings**

Almeida, Ana; Martins, C. J. A. P.

**Varying alpha generalized Dirac-Born-Infeld models**

Tavares, Vasco C.; Martins, Carlos J.A.P.

**PARALLEL e-POSTER SESSIONS I****Room A1 – Chemistry e-Poster I****A novel route to obtain a xanthonic building block for the synthesis of potential antitumor pyranoxanthone derivatives**

Dias, Ana; Loureiro, Daniela R. P.; Soares, José X.; Pinto, Madalena M. M.; Afonso, Carlos M. M

**Experimental and Computational Studies on Fundamental Thermodynamic Properties of Maleic Anhydride Derivatives**

Cardenas, Vince Bart S; Freitas, Vera L.S; Ribeiro da Silva, Maria DMC

**Synthesis of analogues of hit pyranoxanthenes with potential antitumor activity**

Afonso, Inês F. F.; Loureiro, Daniela R. P.; Dias, Ana; Soares, José X.; Azevedo, Carlos M. G.; Pinto, Madalena M. M.; Afonso, Carlos M.M.

**Synthesis of marine-derived xanthone analogues with potential anti-inflammatory activity**

Pereira, R.; Teixeira, J.; Tiritan, Maria E.; Fernandes, C.; Pinto, M. M. M.

**Synthesis and physicochemical characterization of lipid nanomaterials for the encapsulation of fungicide active ingredients: a more sustainable alternative**

Santos, F.; Pereira, R.; Pereira, C.M.; Andreani, T.

**Novel biomass-derived materials as efficient electrocatalysts for O<sub>2</sub> reactions**

Marques, Inês S.; Ramos, Ruben; Peixoto, Andreia F.; Fernandes, Diana M.

**Green tea extract and ionic liquids analogous used as functional additives for chitosan films**

Alves, Tiago Filipe P.; Teixeira, Natércia; de Freitas, Victor; Souza, Hiléia K. S.

**Optimization of glutathione S-transferase PI activity assay: a sequential injection analysis approach**

L., A. Catarina Baptista; Pereira, Sarah A. P.; Saraiva, M. Lúcia M. F. S.

**Room A2 – Agro Food e-Poster I****Implementation of Food Security Systems at Casal da Manteiga Winery Carcavelos Wine Region**

Ferreira, Isabela; Ricardo-da-Silva, Jorge; Lisboa, Alexandre E.; Queiroz, Jorge

**Influence of Irrigation on Vigor, Quality and Yield in Touriga Nacional and Touriga Francesa varieties in Douro Region**

Silva, Andreia F.; Cabral, Inês L.; Queiroz, Jorge B.

**Impact of Crop Forcing and irrigation on the Touriga Nacional grape variety in Douro Region**

Ribeiro, Joana; Cabral, Inês; Queiroz, Jorge

**Development of an alcoholic fermented beverage from fruit**

Carvalho, Camila; Campos, Francisco; Moreira-da-Silva, José; Queiróz, Jorge

**Drosophila suzukii: possible reasons for it's importance as a key pest in small fruits**

Martiniano, António F.N.P.; Chichorro, Leonor A.B.S; Neto, Joana I.E.; Aguiar, Ana A.R.M.

**Comparing the profiles of carbonyl compounds in healthy and defective coffee beans for quality assessment**

Teixeira, Sandra L.; Santos, João Rodrigo; Almeida, P. J.; Rodrigues, J. A.



10:40 – 12:00

**Electrochemical determination of reducing compounds in coffee extracts by low pressure ion-pair chromatography using a FIA system**

Silva, Alexandra Rangel; Santos, João Rodrigo; Almeida, Paulo Joaquim; Rodrigues, José António

**Automatic processing of images of chromotropic traps for identification and quantification of *Trioza erytreae***

Bessa, Beatriz L.; Marçal, André; Cunha, Mário

**Assessment of the African Citrus Psyllid (*Trioza erytreae*) biological control resorting to parasitoid *Tamarixia dryi* releases at the Entre Douro e Minho region**

Saraiva, Diogo C.; Neto, Joana; Aguiar, Ana A. R. M.

**Food production in vertical gardens: a pilot study**

Alves, Patrícia; Calheiros, Cristina; Palha, Paulo; Pereira, Ruth

**Insecticidal Effects of Selected Plant Essential Oils on *Trioza erytreae* (Hemiptera: Psyllidae) in Laboratory and Field Conditions**

Sousa, Pedro A.; Neto, J.; Aguiar, A. A. R. M.; Bastos, M.

**Room A3 – Biological Sciences e-Poster I**

**Analysis of At3G15450 knockout mutants in *Arabidopsis thaliana***

Moreira, Miguel; Figueiredo, Raquel; Pereira, Luís; Melo, Paula; Coimbra, Sílvia

**Analysis of knock-out lines for the LLPI gene (At5G03350) and their interactions with JAGGER gene in *Arabidopsis thaliana***

Ferreira, Marta; Figueiredo, Raquel; Melo, Paula; Pereira, Luís; Coimbra, Sílvia

**Characterization of cardosins' PSIs overexpression and sorting pathways in *Arabidopsis* plants under stress**

Moura, Inês; Pereira, Susana; Séneca, Ana; Pereira, Cláudia; Pissara, José

**Conservation, expression patterns and genomic modulation of zinc transporter genes in *Solanum lycopersicum***

Baptista, Cátia T.; Azevedo, Herlander; Assunção, Ana G.L.; Castro, Pedro H.

**Phylogenetic analysis and genome editing strategies for the functional study of genes involved in iodine biofortification in plants**

Esperança, Alexandre; Azevedo, Herlander; Castro, Pedro Humberto

**UV-A Influence on growth and production of secondary metabolites of *Lactuca sativa***

Fonseca, Beatriz; Mariz-Ponte, Nuno; Pinto, Paulo; Silva, Sónia; Santos, Conceição

**Unconventional trafficking pathways in BY-2 cells**

A Areias, Diana de A.; Pereira, Susana.; Séneca, Ana.; Pissarra, José.; Pereira, Cláudia

**Characterization of the fatty acids profile in extra virgin olive oils from the Douro Region**

Aguiar, Mariana; Oliveira, Maria; Rocha, Laura; Rodrigues, Nuno; Pereira, José Alberto; Casal, Susana; Cruz, Rebeca

**Characterization of the vitamin E profile in extra virgin olive oils from the Douro Region**

Oliveira, Maria; Aguiar, Mariana; Rocha, Laura; Rodrigues, Nuno; Pereira, José Alberto; Casal, Susana; Cruz, Rebeca

**Plant Collections from Mozambique at PO Herbarium of the Natural History and Science Museum (U.Porto)**

Faria, Maria B. F.; Vieira, Cristiana

**Room A4 – Astronomy & Physics e-Poster****Investigating Obscured Quasars using Machine Learning**

Pedro A. C. Cunha; A. Humphrey

**Models for Small-Scale Structure on Cosmic Strings: Diagnostics for GPU-accelerated field theory simulations**

Costa, Filipe A.A; Martins, Carlos J.A.P; Correia, José.R.C.C.C

**Curvature effect on contact electrification**

Silva, Ana C. P.; Rodrigues, Cátia R. S.; Ventura, João O.; Pereira, André M.

**Development of an optical fibre sensor platform for monitorization of concrete curing and durability**

Dias, Bernardo S.; Santos, Paulo S.; Almeida, José M. M. M.; Coelho, Luís

**Optimization of Flexible Thermoelectric Materials using Multi-Walled Carbon Nanotubes**

Almeida, Miguel; Pires, Ana L.; Pereira, André M.

**Pressure-induced phase transformations of Sr<sub>3</sub>Hf<sub>2</sub>O<sub>7</sub>**

Barbosa, M. C. B.; Lora da Silva, E.; Lopes, A. M. L.; Araújo, J. P.

**Room A5 – Health Sciences e-Poster I****A potential inhibitor of homologous recombination DNA repair in triple-negative breast cancer**

Silva, Ana Mafalda; Calheiros, Juliana; Raimundo, Liliana; Carvalho, Carla; Pinto, Madalena; Silva, Marta C.; Sousa, Emília; Saraiva, Lucília

**Addressing the role of cellular senescence in female fertility**

Guerreiro, AC; Matos, L; Duarte, T; Almeida, H; Silva, E

**Angiogenic modulation by umbilical cord serum and mesenchymal stem cells secretome**

Gonçalves, Raquel; Soares, Raquel; Costa, Raquel; Gomes, Andreia

**Antimicrobial activity of essential oils against periodontal pathogens**

Gomes, Joana; Monteiro, Fernando J.; Barros, Joana; Grenho, Liliana

**Biological impact of SLeX expression in gastrointestinal cancers**

Morais, João P.; Costa, Ana; Reis, Celso A.; Gomes, Catarina

**Short-term and long term renal and hepatic toxicity of doxorubicin**

Reis-Mendes, Ana; Espincho, Francisca; Duarte-Araújo, Margarida; Duarte, José A.; Remião, Fernando; Sousa, Emília; Bastos, Maria L.; Carvalho, Félix; Costa, Vera M.

**Chlorhexidine-loaded relining materials for denture stomatitis treatment**

Vieira, João P.; Grenho, Liliana; Fernandes, Maria H.; Sampaio-Fernandes, Margarida; Figueiral, Maria H.

**Clinical, radiographic and histological characteristics of a case of Cemento-Osseous dysplasia**

Coimbra, Filipe; Durão, Sara; Lapa, Teresa; Gomes, António; Lourenço, Monica; Rodrigues, Ana; Reis, Bernardo; Moreira, António

10:40 – 12:00

**Room A6 – Health Sciences e-Poster II**

**Impact of the pandemic on the gender transition process in Portugal: the experience of transsexual individuals**

Moura, Mariana D.; Pinto da Costa, Mariana

**Beliefs and consumption of alcoholic beverages among lactating women in São Tomé e Príncipe**

Fernandes, Ana A.; Pereira, Bárbara B.; Teixeira, Beatriz; Poínhos, Rui.; Ortigão, Madalena R.; Carapinha, Ludmila.; Lopes, Margarida

**Cocoa by-products: characterization of bioactive compounds and possible beneficial action for health**

Soares, Thiago F.; Maria Beatriz, Oliveira P. P.

**Core stability exercise protocol for pilot study initiation**

Musil, Ví; Borgonovo-Santos, Márcio

**Deciphering the role of glycosylated extracellular vesicles on recipient cell behaviour**

Ramos, Cátia C; Freitas, Daniela; Reis, Celso A

**Decoding the Crosstalk Between Dendritic Cells and Bladder Cancer Associated Glycans: A Way to Identify Novel Immunotherapy Targets**

Miranda, Andreia; Peixoto, Andreia; Ferreira, José A.; Oliveira, Maria J.; Santos, Lúcio L

**Development of a mouse model of sepsis in elderly: a pilot study**

Monteiro, Andreia; Fialho, Sara; Faustino, Augusto; Ribeiro, Adília; Ferreira, Paula; Oliveira, Laura

## **PARALLEL ORAL SESSIONS II**

### **Room A1 – Economics & Management II**

**Financial literacy level and saving propensity of Portuguese higher education students: is there a relation?**

Pina, Alexandra

**Self-control in credit cards – view of Libertarian Paternalism**

Cavadas, Pedro

**Between teaching and research: higher education teachers and the burnout**

Teixeira, Paula C.

**Modalidades de Organização do Trabalho: Flexibilidade Espaço-Tempo para o Equilíbrio Trabalho-Família**

Erika Quintão

### **Room A2 – Agro Food II**

**Development of an analytical methodology based on a fan-assisted extraction system for the evaluation of furfural in barley and malt**

Coelho, André M. R.; Carvalho, Daniel O.; Santos, João Rodrigo; Guido, Luís F.

**Enological Repercussions of Non-Saccharomyces Species**

Mason, Diogo; Queiroz, Jorge

**Effect of enzymatic and physical gelation methods and Xanthan gum in the gelation capacity of Acheta domesticus flour**

Silva, Patrícia; Martinez, António; Rodrigo, Maria D.; Cunha, Luís M.

**Application of the deffating process as an enhancer of the sensory profile and level of acceptance of snack bars with incorporation of Tenebrio molitor powder**

Santos, Carla; Ribeiro, José C.; Cunha, Luís M.

**Detection of yellow mealworm (Tenebrio molitor) flour as a potential allergenic food ingredient**

Moura, Mónica; Costa, Joana; Mafra, Isabel

### **Room A3 – Chemistry II**

#### **Thin Films of Semiconductor Materials: Structural and Morphological Study of Cobalt-Complexes**

Carvalho, Rita M.; Costa, José C.S.; Santos, Luís M.N.B.F

#### **Electrochemical interfaces with enhanced performance for applications in energy storage devices**

Lourenço, Carolina; Brandão, Teresa; Costa, Renata; Pereira, Carlos

#### **Confined metal nanoparticles in ionic liquid films**

Alves, Alexandre C. P. M.; Bastos, Margarida M. H. M.; Santos, Luís M. N. B. F.; Costa, José C. S.

#### **A flow analysis system featuring a gas-diffusion cell for the spectrophotometric determination of carbon dioxide in coffee beans**

Silva, Margarida; Valente, Inês Maria; Santos, João Rodrigo; Almeida, Paulo Joaquim; Rodrigues, José António

#### **iSenseDSC: Refurbish and upgrading of a customized microDSC for high accuracy measurement of heat capacities of solids and liquids**

Silva, Rodrigo M. A.; Lobo Ferreira, Ana Isabel M. C.; Santos, Luís M. N. B. F.

#### **Surface plasmon resonance (SPR) genosensor for detecting hazelnut Cor a 14 allergen encoding gene**

Moreira, Patrícia; Costa, Renata; Costa, Joana; Pereira, Carlos M.

#### **Vapor-deposited ionic liquids under nanoscale confinement**

Farinha, Artur F. M.; Costa, José C. S.; Santos, Luís M. N. B. F.

### **Room A4 – Communication Sciences**

#### **Systemic Communication by Creative Industries**

Mattos, Mariana M

#### **The culture defined by the editorial line of CULT Magazine**

Tosetti, Carolina

#### **Who dominates the black box? The different media representations of the same Brazilian social stratum**

Diniz, Pedro F T

#### **The role of social media in Portuguese citizen science projects focused on biodiversity**

Barros, Bárbara; Oliveira, Sofia S.; Pereira, Joana; Santos, Paulo; Pereira, Ruth

#### **“How a science news reaches you”: the paths and constraints involved in science news making process**

Paralta, Álvaro; Borlido-Santos, Júlio; Calafate, Luís

**Room A5 – Health Sciences II****Chemoprevention of Skin Cancer Through the Mutant p53 Reactivator SLMP53-2**

Ribeiro, Rita; Loureiro, Joana B.; Nazareth, Nair; Ferreira, Tiago; Barcherini, Valentina; Oliveira, Paula A.; Santos, Maria M. M.; Saraiva, Lucília

**Comparative assessment of the acute toxicity of commonly used metal nanoparticles in two in vitro models of human barriers**

Pires, Joana; Moreira, Luciana; Teixeira, João P.; Fraga, Sónia

**ddPCR pipeline optimization for liquid biopsy-based miRNA detection in a clinical context**

Sequeira, JP; Lobo, J; Constâncio, V; Carvalho-Maia, C; Braga, I; Maurício, J; Henrique, R; Jerónimo, C

**Deciphering the functional role of KRAS-induced SUSD2 downregulation in colorectal cancer**

Coelho, Diogo; Carvalho, Patrícia; Fernandes, Verónica; Pereira, Luísa; Oliveira, Maria J.; Velho, Sérgia

**Defined Hydrogels for Precise Organoid Formation and Vascularization**

Nogueira Pinto, Henrique; Bidarra, Sílvia; Alves da Silva, Marta; Barrias, Cristina

**Development of triple co-culture breast cancer spheroids for testing nanomedicines**

Domingues, Mariana; Castro, Flávia; Sarmiento, Bruno

**Association of grandparental and parental diabetes mellitus on the BMI of adolescents**

Uddin, S; Ramos, E; Craveiro, V

**Room A6 – Psychology and Sciences of Education I****An Erotic Skylight: Sexual fantasies in young Portuguese under the reflection of psychological well-being**

Oliveira, Jorge; Neto, Felix

**Sex Workers? Peer Support During the COVID-19 Pandemic: A study of a Portuguese Community-led Intervention**

Moura, Joana M.; Pinto, Marta; Oliveira, Alexandra; Andrade, Maria; Vitorino, Sérgio; Oliveira, Sandra; Matos, Roberta

**Sexuality and Sexual Assistance: Study on the Perspective of Women with Functional Diversity**

Silva, Inês; Oliveira, Alexandra

**The creative process with children of the 1st cycle in artistic workshops: the Articular Project**

Oliveira, Ivanna P.C.

**The importance of mental toughness in high-competition tennis. Perspectives from Ecuadorian and Portuguese coaches**

Jaramillo, Alvaro; García-Calvo, Tomás; Barreiros, André; Dias, Teresa Silva

**PARALLEL ORAL SESSIONS III****Room A1 – Economics & Management III**

**City Branding and Innovation – The City Branding Role in the Development of Asprela's Innovation Ecosystem (Porto)**

Pereira, Ivo A. C. M.

**Environmental Sustainability of institutions of the SNS**

Chen Xu, José

**Globalization Index of Portuguese Regions**

Lima, João G.

**High Performance Sports Centres as a source of Local Innovation – The Portuguese case**

Lima Silva, Aníbal

**Public Policies for Cinema in Portugal: the non-commercial film exhibition sector**

Miranda, Marta; Santos, Helena; Santo, Luís D

**Electricity consumption in Portuguese Hospitals**

Chen Xu, José

**To share or not to share?: understanding consumers' willingness to disclose personal data online**

Barreira, Rita; Fernandes, T.

**Room A2 – Chemistry III**

**Synthesis and in vitro evaluation of compounds with potential against Alzheimer's Disease**

Martins, Márcia; Maia, Miguel; Gil-Martins, Eva; Silva, Renata; Remião, Fernando; Pinto, Madalena M. M.; Sousa, Emília

**A Bioisosteric Approach using Aza-Proline (azPro) as a Proline Surrogate in Melanostatin Neuropeptide**

Xavier Cruz Correia; Ivo E. Sampaio-Dias; Sara C. Silva-Reis; Beatriz L. Pires-Lima; Hugo F. Costa-Almeida; Xerardo García-Mera; José E. Rodríguez-Borges

**Deciphering the Proteomic Code: Using Homology-Based Techniques in the Discovery of Novel Protein Structures for the Venomous Viperidae Species**

Tavares Lacerda, Miguel; Luísa Novo de Oliveira, Ana; João Ramos, Maria; Manuel Azevedo Alexandrino Fernandes, Pedro

**Development of an antidote for Russell's viper (*Daboia russelii russelii*) venom factor X activating enzyme (RVVX)**

Amorim, Juliana; Oliveira, Ana; Ramos, Maria J.; Fernandes, Pedro A.

**Exploring the Role of the N-terminal Secondary Amine in Melanostatin Neuropeptide: A Bioisosteric Approach using (S)-Tetrahydro-2-furoic Acid as a Proline Surrogate**

Pires-Lima, Beatriz L.; Sampaio-Dias, Ivo E.; Silva-Reis, Sara C.; Cruz Correia, Xavier; Costa-Almeida, Hugo F.; García-Mera, Xerardo; Rodríguez-Borges, José E.

**In silico analysis of the relationship between B.asper venom and Sarcolemma**

Mendonça, Filipa; Oliveira, Ana; Ramos, Maria J.; Fernandes, Pedro A.

**Room A3 – Health Sciences III****Diabetes induces structural and functional changes in the rat colon**

Esteves-Monteiro, Marisa; Menezes-Pinto, Daniela; Ferreira-Duarte, Mariana; Dias-Pereira, Patrícia; Morato, Manuela; Duarte-Araújo, Margarida

**Dissecting unexplored mechanisms underlying Transthyretin neuroprotection in Alzheimer's Disease**

Saavedra, Joana; Gião, Tiago; Pinto, Marta T.; Cardoso, Isabel

**Eating behaviour of children with failure to thrive: the role of family history and siblings**

Machado, Sarai; Poínhos, Rui; Vasconcelos, Carla; Correia, Flora

**Evaluation of modulation of P-glycoprotein expression/activity in HK2 cells**

Veiga-Matos, Jéssica; Morales Martín, Ana I.; Silva, Renata; Remião, Fernando; Pietro Vicente, Marta

**Evaluation of the effects of a TPP-based mitocan and two derivatives in ovarian and endometrial cancer cell lines**

Castelôa, Mariana; Moreira-Pinto, Beatriz; Benfeito, Sofia; Borges, Fernanda; Fonseca, Bruno; Rebelo, Irene

**Focusing on the urethra: Spinal cord injury induces strong sensory and sympathetic denervation in the urethra of female rats**

Ferreira, Ana; Chambel, Sílvia; Avelino, António; Duarte Cruz, Célia

**Child Sexual Abuse in the Media in Portugal – Content Analysis Study**

Campinha, Filipa; Pinto da Costa, Mariana

**Room A4 – Engineering I****A Simple Approach to Lamport's State Machine Replication**

Silva, Álvaro F.; Maurício, Bruno S.

**Rejection of Atypical Patterns – Machine Learning vs Deep Learning**

Castro Lopes, Júlio; Rodrigues, Pedro João

**Extracting narratives from Twitter data in real time**

Campos, Vasco; Jorge, Alípio; Campos, Ricardo

**RAFT: Understandable Distributed Consensus**

Aragão, André; Matos, André; Marques, Margarida



**Room A5 – Environment I****The Role of Environmental Education in Public Perception: The environmental impact of face masks against COVID-19**

Santos, Ana C.; Assis, Tiago; Pinho, Tiago; Pereira, Carlos M.; Oliveira, Sofia; Lourenço, Joana; Pereira, Ruth

**Citizen science as a monitoring tool for soil quality**

Kumar, Darmit M.; Oliveira, Sofia S.; Martins, Duarte; Pereira, Joana; Santos, Paulo; Pereira, Ruth

**Effects of plant protection products application on the quality of vineyard soils from Douro Region**

Fernandes, Beatriz; Paiva, Cristiana; Pereira, Ruth; Cachada, Anabela

**Are new Cu-based fungicides a sustainable option over their traditional counterparts?**

Paiva, Cristiana; Patinha, Carla; Andreani, Tatiana; Pereira, Carlos; Freitas, Ana Cristina; Alves, Artur; Pereira, Ruth; Cachada, Anabela

**Tomato roots as the major site of Cd detoxification**

Correia, David J. M.; Fidalgo, Fernanda; Teixeira, A. Jorge

**Evaluation of the microalgae *Chlorococcum* for their potential beneficial effects on human metabolic diseases**

Teixeira, Rita; Regueiras, Ana; Matos, Gabriela; Saraiva, Jorge; Costa, Ana; Silva, Joana; Vasconcelos, Vitor; Urbatzka, Ralph

**Room A6 – Agro Food III****Amino acid profile of *Porphyra umbilicalis* in different life cycle stages: conchocelis and adult blades**

Machado, Marlene; Pimentel, Filipa B.; Machado, Susana; Alves, Rita C.; Oliveira, M. Beatriz P.P

**Impact of contexts on the visual evaluation of design pastry**

Sousa, P. M.; Alba, J.; Alcañiz, M.; Martínez-Monzó, J.; García-Segovia, P.; Cunha, L. M.

**Olive pomace paste: impact of processing on antioxidant compound levels**

Sousa, M. Manuela; Machado, Susana; Nunes, M. Antónia; Melo, Diana; Lobo, Joana; Costa, Anabela S.G.; Alves, Rita C.; Oliveira, M. Beatriz P.P.

**Wild *Opuntia ficus-indica* from northeast of Portugal: Nutritional composition**

Jorge, Ana O. S.; Costa, Anabela S. G.; Oliveira, M. Beatriz P.P.

**Fighting kiwifruit bacterial canker disease with antimicrobial peptides**

Regalado, Laura; Mariz-Ponte, Nuno; Teixeira, Cátia; Gimranov, Emil; Tassi, Natália; Moura, Luísa; Gomes, Paula; Tavares, Fernando; Santos, Conceição

**Identification and characterization of *Erwinia rhapontici* isolated from Kiwifruit leaves**

Beatriz Cunha; Nuno Mariz-Ponte; Luísa Moura; Fernando Tavares; Conceição Santos

**PARALLEL e-POSTER SESSIONS II****Room A1 – Chemistry e-Poster II****Coumarin-lipid probes: fluorescence studies and advance towards bioconjugation by flow chemistry**

Belinha, Ricardo L.; Varandas, Pedro A. M. M.; Cobb, Alexander J. A.; Segundo, Marcela A.; Silva, Eduarda M. P.

**Digital image analysis—a comparative study**

Lima, Leonor P.; Carvalho, Pedro; Oliveira, Hélder P.; Segundo, Marcela A.; Peixoto, Patrícia P.

**Development and evaluation of a Pirkle-type chiral stationary phase for flash chromatography**

Gonçalves, L.; Fernandes, C.; Tiritan, Maria E.

**Assembly of Melanostatin Peptidomimetics Using Chiral  $\beta$ -Amino Acids as Proline Surrogates**

Costa-Almeida, Hugo F.; Sampaio-Dias, Ivo E.; Silva-Reis, Sara C.; Pires-Lima, Beatriz L.; Correia, Xavier C.; García-Mera, Xerardo; Rodríguez-Borges, José E.

**Study of cucurbit[n]urils as ionophores for the potentiometric detection of biogenic amines with high impact in clinical diagnosis**

Costa, Inês; Gil, Renato L.; Amorim, Célia G.; Montenegro, Maria C. B.; Araújo, Alberto N.

**Analysis of polycyclic aromatic hydrocarbons in burnt soils**

Santos, Patrícia C.; Fernandes, Maria J.; Carvalho, Manuela; Vázquez, Felipe M.; Delerue-Matos, Cristina

**Electrochemical evaluation of a flexible transparent ITO-PET sheet for electrochromic applications**

Santos, João; Amorim, Célia; Araújo, Alberto; Montenegro, Maria da Conceição

**Optimization of green chemistry microwave-based synthesis of carbon quantum dots**

Azeredo, Alexandra S.; Sousa, Helena B. A.; Martins, Catarina S. M.; Gouveia, Luís F.; Prior, João A. V.

**Room A2 – Engineering e-Poster****Transport and destination of a soil contamination caused by the Maceda's old dump**

Marques, Maria E.; Vila, M.C.

**Surfing Biomechanics: Linear traction microcontrolled system for measuring data of sliding objects on the water surface**

Pintão, Teresa; Sanches, Miguel; Borgonovo-Santos, Márcio

**A Route Planner to Encourage the Use of Public Transport Services in a Pandemic Context**

Fulgêncio, Raquel; Ferreira, Marta Campos; Coimbra, Miguel

**Bio-inspired optimization of gyroid-shaped structures obtained through additive manufacturing**

Pais, A.; Lino Alves, J.; Belinha, J.

**Waterproof sealing procedure for biaxial flow sensors**

Martins, João, Perez, Damian, Lopes, Daniela, Duarte, Teresa, Borgonovo-Santos, Márcio

16:10 – 17:30

**Isolation and in-chip characterization of lung cancer circulating tumour cells (CTCs) using a microfluidics device**

Fernandes, Mariana; Ferreira, Gabriela; Monteiro, Fernando J.; Carvalho, Ângela

**Text2Icons: using AI to tell a story with icons**

Valente, Joana

**Evaluation of the functional recovery in patients operated on the lower limbs**

Cerqueira, Joana; Vilaça, Adélio; Mendes, Joaquim

**Room A3 – Historic & Sociocultural Studies e-Poster**

**Remote Audit During COVID-19 Pandemic**

Rafael Sousa; Alexandre Vanhuysse; Mário Fernandes

**The Third Sector vs Covid-19: the reinvention of intervention of Municipality of Baião**

Serdoura, Joana; Pinheiro, Lídia; Marques, Daniela; Pinto, Diogo M.

**The President Fernando Collor de Mello's government and the neoliberalism in Brazil: An analysis of the National Privatization Program between the years 1990 and 1992**

Tomaz, Antônio Carlos

**A Bioclimatic Afforestation Guide for the Porto city**

Valença, Maysa G.

**Analysis of the sacred object and the power of the creed under it**

Farias, Luiza F.

**Room A4 – Environment e-Poster I**

**Spatial assessment towards potential green roofs implementation in Ponte de Lima (Portugal)**

Silva, Cristina; Calheiros, Cristina S. C.; Alonso, Joaquim

**Early colonization of Artificial Reefs: insights on Diatom biofilm development under different scenarios**

Vieira, Ana Mafalda; Reis, Bianca; Borges, Maria Teresa

**Experimental study of a 3d printing application to produce substrates for coral propagation**

Valenzuela Matus, Ilse; Lino Alves, Jorge; Góis, Joaquim; Barata da Rocha, Augusto; Neto, Rui

**Exploring Temporal Shifts of Microplankton Diversity in the Arctic Ocean**

Macedo, Salvador; Capparotto, Arianna; Semedo, Miguel; Magalhães, Catarina

**Dynamics of Aeromonas species from estuarine environment (River Douro estuary, NW Portugal)**

Gomes, Lúcia; Bordalo, Adriano; Machado, Ana

**Physiological responses of Nucella lapillus and Mytilus galloprovincialis to thermal stress**

Cantallo, Harold; Pérez, Dany; Pires, Adília; Arenas, Francisco

**Evaluation of the discharge of a WWTP in the water quality of Ferreira River**

Nunes, Ana; Pereira, Ricardo; Antunes, Sara C.

**Room A5 – Health Sciences e-Poster III**

**Differential effects of ATP-sensitive P2X4 and P2X7 on vagal neuromodulation in TNBS-induced postinflammatory rat ileitis**

Castro, Raquel; Vieira, Cátia; Ferreirinha, Fátima; Bento da Silva, Moisés T.; Correia-de-Sá, Paulo

**Dissecting the molecular basis for Tlx3 and Prrxl1 cooperation in the development of excitatory dorsal horn neurons**

Baltar, João; Dias, AF; Reguenga, Carlos; Monteiro, Filipe A.

**Do Major Histocompatibility Complex Class I (MHC I)-negative cells show tumour initiation capacity in colorectal carcinoma (CRC)?**

Borrvalho, Ana; Castillo-Martin, Mireia

**Establish biomimetic 3D immune-spheroids as a model to address triple-negative breast cancer radioresistance**

Leal, Filipa; Barbosa, Catarina; Conde, Inês; \*Paredes, Joana; \*Oliveira, M. J.

**Evaluation of antiproliferative effects of fisetin derivatives in osteosarcoma cell lines based on sulforhodamine B assay**

Santos, Raquel A.; Moreira, Beatriz G.; Freitas, Marisa; Fernandes, Eduarda; Ferreira de Oliveira, José Miguel P.

**Evaluation of cytotoxic effects of flavonoids in osteosarcoma cell lines based on cellular reductive metabolism**

Moreira, Beatriz G.; Santos, Raquel A. M.; Ribeiro, Daniela; Fernandes, Eduarda; Ferreira de Oliveira, José Miguel P.

**Evaluation of doxorubicin and mitoxantrone neurotoxicity in CD-1 mice: An chemobrain study**

Mariana Ferreira; Ana Dias Carvalho; Ana Reis Mendes; Félix Carvalho; Rita Ferreira; Vera Marisa Costa

**Optimization of carbamazepine-loaded nanoemulsions for nose-to-brain delivery**

Teixeira, Cláudia; Silva, Ana C.; Silva, Renata; Lobo, José M. S.

**PARALLEL ORAL SESSIONS IV****Room A1 – Health Sciences IV****Friends with benefits: an inside look of periodontal microbes' interactions – scoping review**

Esteves, Guilherme M.; Pereira, José A.; Azevedo, Nuno F.; Azevedo, Andreia S.; Mendes, Luzia

**Genetic characterization of upper urinary tract urothelial carcinoma**

Dias, C.; Meireles, S.; Martins, D.; Batista, R.; Dias, N.; Lopes, JM.; Soares, P.

**Graphene oxide, heparin and decellularized arteries: a promising recipe to change the paradigm in cardiovascular diseases?**

Fernandes, Inês P.; Pereira, Andreia T.; Gonçalves, Inês C.

**Health effects of kombucha in animal studies: a Systematic Review**

Lopes, Clarisse M.; Torres, Duarte

**Host glycans as regulators of intestinal inflammation through lymphoid cell-mediated IL-22 production in the gut**

Alves, Maria Francisca; Rodrigues, Cláudia S.; Gaifem, Joana; Pinho, Salomé S.

**HOXB7 dysregulation in Breast Cancer Progression**

Castro, Joana L.; Freitas, Renata

**Association between physical activity and functional and nutritional status in heart failure**

Fernandes, M.; Valdivieso, R.; Moreira, E.; Silva-Cardoso, J.; Borges, N

**Room A2 – Biological Sciences II****A comparative test of social signalling with barred plumage across estrildid finches**

Pacheco, João; Cardoso, Gonçalo C.; Gomes, Ana Cristina R.

**Aberrant otoliths: characterization of the incidence and type of malformation in different estuarine habitats**

Saraiva, J.; Vilar, I.; Dias, E.; Freitas, V.

**IFT20 homolog in *Caenorhabditis elegans* as a requirement for ciliogenesis and cilia-mediated behaviour**

De-Castro, Ana R. G.\*; Quintas-Gonçalves, Joana\*; Silva-Ribeiro, T.; Rodrigues, Diogo R. M.; De-Castro, Maria J. G.; Abreu, Carla M.; Dantas, Tiago J.

**Serotonin modulation of waxbills' (Estrilda astrild) behaviour: an experimental approach**

Saldanha, Beatriz; Silva, Paulo; Cardoso, Gonçalo C.; Trigo, Sandra; Soares, Marta C.

**Effects of Ygeia+ on European seabass (*Dicentrarchus labrax*) health condition and disease resistance**

Cunha, André; Santos, Paulo; Ferreira, Inês; Teixeira, Carla; Afonso, António; Magalhães, Sara; Aires, Tiago; Matos, Elisabete; Costas, Benjamin

**Inclusion of aromas from fish canning factory into European seabass (*D. labrax*) diets: effects on feed intake and growth performance**

Reis, Margarida; Resende, Daniela; Velasco, Cristina; Sá, Tiago; Pereira, Maria João; Brazinha, Carla; Pintado, Manuela; Valente, Luísa M. P.

**Novel ingredients in dog feed? the potential of microalgae**

Spínola, M.; Fernandes, J.G.; Aires, T.; Silva, J.L.; Almeida, A.A.; Pinto, E.; Fonseca, A.J.M.; Lima, S.A.C.; Maia, M.R.G.; Cabrita, A.R.J.

### **Room A3 – Chemistry IV**

#### **Anthocyanins–Polysaccharides Nanocomplexes for Food Application**

Pereira, Inês C.C. A.; Freitas, Victor A. P.; Mateus, Nuno F. C. B.; Fernandes, Ana L. M. A. P.

#### **A study on the protein fraction of cladodes of *Opuntia ficus-indica* (L.) Miller**

Espírito Santo, L.; Machado, S.; Nunes, M. A.; Costa, A. S. G.; Rocha, A.; Oliveira, M. B. P. P.

#### **Protein content and amino acid profiles of algae: the case of *Spirulina* and *Himantalia elongate***

Oliveira, Bárbara C. C.; Machado, S.; Alves, R. C.; Oliveira, M. B. P. P.

#### **Evaluation of different parameters in the extraction of pesticides and environmental contaminants in grapevine canes**

Dorosh, Olena; Fernandes, Virgínia C.; Moreira, Manuela M.; Delerue-Matos, Cristina

#### **Physico-chemical Characteristics of Sewage Sludge Produced in Portuguese Wastewater Treatment Plants**

Teixeira, Ivan; Rede, Diana; Delerue-Matos, Cristina; Fernandes, Virgínia C.

#### **Bromate reduction in natural drinking water over nanocatalysts**

Costa, João M.C.B.; Restivo, João; Orge, Carla A.; Pereira, Manuel F.R.; Soares, Olívia S.G.P

### **Room A4 – Historic & Sociocultural Studies I**

#### **The Geophysical Institute of the University of Porto in the context of the Cold War (1960-1963)**

Monteiro, Inês

#### **Concerning Power: An Analysis of “Crónica de D. Afonso V”, “Painés de São Vicente de Fora” and “Tapeçarias de Pastrana”**

Castro, Carlota Bellino Vieira de

#### **Socio-economic and environmental factors determining mortality and morbidity from respiratory diseases in the Metropolitan Area of Porto**

Pacheco, Maria O.

#### **Ultra-Trail Serra da Freita (UTSF): critical segments of the route and susceptibility to rural fires**

Silva, Ângela; Correia, Fernando

17:40 – 19:00

## **Room A5 – Environment II**

### **Sexual reproduction of the seagrass *Zostera noltei* in the Ria de Aveiro lagoon**

Ankel, Manuel; Guerrero-Meseguer, Laura; Veiga, Puri; Rubal, Marcos

### **A nature-based solution to enhance local invertebrate diversity**

Ribeiro, Tiago; Costa, Dimitri Araújo; Schmidt, Julia; Oliveira, Vítor Hugo; Sousa, Ana Isabel; Coelho, João Pedro; Freitas, Vânia; Dolbeth, Marina

### **Classification of multispectral images collected by UAVs on intertidal rocky shores, Northern Portugal**

Silva, Joelen C.; Borges, Débora C. G.; Pinto, I. S.; Gonçalves, J. A. P.

### **The effects of emerging contaminants on the behaviour of *Acinetobacter calcoaceticus* isolated from drinking water**

Pinto, Isabel C.; Gomes, Inês B.; Simões, Manuel

### **Impact of the presence of emerging contaminants in the behaviour of biofilms in drinking water distribution systems**

Arruda, Vitória S.; Gomes, Inês G.; Simões, Manuel J. V.

## **Room A6 – Psychology & Sciences of Education II**

### **‘White Swan or Black Swan’: the role of dance in mental health?**

Fonseca, I.; Coimbra, J.L.

### **A study of a sample of Portuguese BDSM population and their perceptions of psychotherapists**

Godinho, Laura; Oliveira, Alexandra

### **Panic Buying and Mental Health During COVID-19 Pandemic**

Koch, Rita; Lins, Samuel; Aquino, Sibebe; Freitas, Cynthia de Melo; Costa, Icaro Moreira

### **The importance of nurses-patients communication in gestational loss: a qualitative study**

Valente, Vanessa; Martins, Mariana

### **Working in a non-profit organization: impacts on working conditions and health**

Almeida, Beatriz; Rodrigues, Ana I.; Cadilhe, Maria A.; Pereira, Cláudia; Santos, Marta

## Quinta-feira, 6 de maio

May, 6<sup>th</sup>, Thursday

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08:00 – 19:00 **Secretariado digital a todos os participantes, suporte virtual**  
*Secretariat for all participants, virtual support*

### 09:00 – 10:30 **PARALLEL ORAL SESSIONS V**

#### **Room A1 – Health Sciences V**

**Development of sustainable, healthy and crispy snacks– SH crackers**

Monteiro, Eulália; Correia, Daniela; Pinto, Ana Carolina; Pinho, Olívia

**Improving Nanostructured Lipid Carriers activity against Helicobacter pylori: development of pH-responsive systems for gastric settings**

Gomes, Sandra; Chitas, Rute; Nunes, Cláudia; Oliveira, Joaquim M.; Martins, M. C. L.; Parreira, P.

**Interindividual variability in abcb1 expression in human sertoli cells**

Samuel Silva; Ana Martins; Renata Silva; Fernando Remião; Marco G. Alves

**Iron homeostasis (dys) regulation during mycobacterial infection –insights from tissue histology**

Ferreira, Joana; Moreira, Ana C.; Gomes, Salomé

**IronIC Proteins – new roles for serum iron proteins during infection**

Simões-Alves, Inês; Bento, Clara; Gomes, Maria Salomé; Silva, Tânia; Moreira, Ana C.

**Locus of control and self-efficacy among patients treating overweight**

Caetano, E.; Torres, D.; Poínhos, R.

**Lower cranial nerves in the neck – an anatomical study**

Loureiro, José M.; Martins, Sónia P.; Pinto, João V.; Vaz, Ricardo P.

#### **Room A2 – Biological Sciences III**

**Characterization of cyanotoxins and cyanobacteria secondary metabolites from Alqueva – first data**

Azevedo, Tomé; Azevedo, Joana; Vasconcelos, Vitor; Campos, Alexandre

**Unravelling the extracellular vesicles' biogenesis mechanisms in cyanobacteria**

Cardoso, Delfim; Lima, Steeve; Matinha-Cardoso, Jorge; Tamagnini, Paula; Oliveira, Paulo

**Application of Satureja montana essential oil and nanoformulations against Xanthomonas euvesicatoria in Solanum lycopersicum**

Pinto, Paulo; Mariz-Ponte, Nuno; Fernandes-Ferreira, Manuel; Sousa, Rose M.; Santos, Conceição

**Abiotic stress alters the expression of genes involved in the vacuolar trafficking routes**

Neves, João; Séneca, Ana; Pereira, Susana; Pissarra, José; Pereira, Cláudia

**Characterization of the crosstalk between the ER and endocytic pathway in plant cells**

Cardoso, Tatiana; Pereira, Cláudia; Pissarra, José



09:00 – 10:30

**Characterization of two JAGGER interactors during sexual plant reproduction in Arabidopsis**

Madureira, Tomás; Pereira, Ana M.; Moreira, Diana; Coimbra, Sílvia

**Unravelling the crosstalk between root development, phytohormones, and zinc deficiency in Arabidopsis thaliana**

Benvindo, Ana Margarida; Campilho, Ana; Assunção, Ana

**Room A3 – Chemistry V**

**Development of mesoporous silica-based materials for environmental remediation**

Flores, Daniela S. S.; Gomes, Carlos R.; Almeida, Marisa; Cunha-Silva, Luís; Balula, Salete S.; Granadeiro, Carlos M.

**The ability of MOF-808 to encapsulate catalytic active polyoxometalate for desulfurization of fuel**

Fernandes, Simone C.; Viana, Alexandre; Cunha-Silva, Luís; Castro, Baltasar; Balula, Salete

**Use of an Active Surface Preservation Strategy for Developing Carbon Dots as a Fluorescence pH Nanosensor**

Afonso, Ana Carolina P.; Pinto da Silva, Luís

**UiO-66 Based Materials as Adsorptive Compounds and Oxidative Catalysts for Sustainable Denitrogenation Processes**

Faria, Rui G.; Julião, Diana; Balula, Salete S.; Cunha-Silva, Luís

**Room A4 – Architecture I**

**Project as a process of (re)cognition: A prospective strategy of continuity and articulation on the banks of the river Ave**

Monteiro, Rafael; Calix, Teresa

**Urban Plan in Aveiro: From Historical Identity to Project's (de)Composition**

Naia, João, Santos, André

**A 'Mirante' at the Mondego Valley: 'Building a Nest'**

Figueira, Marta G.; Garrido de Oliveira, Carla

**Room A5 – Engineering II**

**Digital-twins for structural assessment: model updating techniques**

Carvalheira, Patrícia; Coutinho, Cristiano; Tavares, S.M.O.; Linhares, Cassiano

**Optimisation of Spur Gear Parameters Using Particle Swarm Optimisation**

Fitas, Ricardo; Fernandes, Carlos

**Assessment of power transformers operation based on the vibration spectrum**

Graça, Nuno M. G.; Linhares, Cassiano C.; Coutinho, Cristiano J. P.; Tavares, Sérgio M. O.

**Fatigue of mechanical components: a case study**

da Graça, Nuno M. G.; de Castro, Paulo M. S. T.

**In situ thermal processing and heat treatment of precipitation hardened stainless steel by additive manufacturing**

Wilkins, Jocelyn V.; Selby, Maddy; Posey, Julianna; Duffy, Michael; Vail, Caroline; Zupan, Marc; Santos, Abel D.

09:00 – 10:30

**Room A6 – Psychology & Sciences of Education III**

**Artistic Youths: what influence can contact with art have in their daily lives?**

Mesquita, Joana; Araújo, Helena

**Distance learning system from the student's point of view**

Mira Corrêa, Luisa; Tenedório, Francisca; To, Susana

**Educators' perceptions and opinions regarding Transformations and Trends in the Evolution of Youth and Adult Education: An exploratory study with teachers from Planaltina DF**

Carneiro, José E.; Caramelo, João

**Effects of credit mobility on the students' journey: Experiences of outgoing higher education students from sociology and physics**

Sousa, Catarina; Veiga, Amélia

**Initiation paths to the research of future graduates in Educational Sciences: Participation experiences in the project "Global Citizenship Education"**

Fonseca, Mariana; Fonseca, Juliana; Lima, Vanusa P.; Medina, Teresa; Ferreira, Elisabete; Santos, Júlio; Cardoso, Carla

**Social Responsibility in football clubs: a case study**

Nunes, Ana Beatriz; Laranjeira, Letícia; Silva, Sofia Marques

## **PARALLEL e-POSTER SESSIONS III**

### **Room A1 – Architecture e-Poster I**

#### **Rem Koolhaas: Delirious Countryside**

Ciavattini, Giacomo; Guerreiro, Filipa; Garrido de Oliveira, Carla

#### **Representation of the City's Periphery in Portuguese Cinema**

Videira, Carolina

#### **Oporto by Night Time**

André Lopes de Almeida; Gonçalo Miguel Furtado Cardoso Lopes

#### **The city and the architectural object: What the senses and the memory perceive of Porto**

Martins, Ricardo C.; Lopes, Gonçalo M. F. C.

#### **Common Place: inhabiting the city of Porto. Guidelines for an intervention in a designated area for public housing**

Aguiar Antunes, Mariana; Garrido de Oliveira, Carla; Guerreiro, Filipa

#### **(I)material memory as fragments for a new place: the fraga of Fontainhas**

Reis, Leonor de Sá; Garrido Oliveira, Carla; Guerreiro, Filipa de Castro

### **Room A2 – Criminology e-Poster**

#### **Empirical study on the effects of deterrence on prisoners in the region of Porto, Portugal**

Oliveira, Mariana M.

#### **Judges' Perceptions and Experiences with Alternative Dispute Resolution in the Criminal Justice System**

Macieira, Marcela F.

#### **The Crime-Terror Nexus as a Vector in Counterterrorism: Making the Case of Cabo Delgado**

Vigo, Beatriz

### **Room A3 – Environment e-Poster II**

#### **Ecological assessment of several water courses in the city council of Paredes**

Ferreira, Francisco V.; Antunes, Sara C.; Nunes, Maria J.

#### **Exploring microalgal derivatives for antifouling application**

Lopes, Diogo; Almeida, Joana R.; Vasconcelos, Vítor; Gonçalves, Catarina; Pereira, Sandra; Preto, Marco

#### **In vitro interactions between polycyclic aromatic hydrocarbons (pahs)**

Monteiro, Vânia; Dias Da Silva, Diana; Guedes de Pinho, Paula; Pinto, Joana; Martins, Marta; S. Diniz, Mário

#### **Application of QM/MM methods for Development of Plastic Degradation Enzymes**

Cunha, Jorge M.; Magalhães, Rita P.; Fernandes, Henrique S.; Sousa, Sérgio F.

#### **Surveys and quizzes to assess the perception of CMIA audience on environmental education activities**

Gomes, Ana B.; Antunes, Sara C.; Dias, Cláudia; Monteiro, Andreia

10:40 – 12:00

**Wastewater management in Portugal through phytoremediation**

Letícia W. Oliveira; Natividade Vieira; Cristina S. C. Calheiros

**Assessment of the impacts of different human activities and river management on the biological diversity of the system – Diatoms**

Semedo, Elisângela da Moura

**Room A4 – Biological Sciences e-Poster II**

**Characterization of natural products in cone snails from the Cabo Verde archipelago**

Ribeiro, Sónia; Urbatzka, Ralph; Neves, Jorge

**Bioactivity analysis of extracts of the microalgae *Nannochloropsis* sp. for metabolic diseases treatment**

Alexandra Simões; Ana Regueiras; Gabriela Matos; Jorge Saraiva; Ana Margarida Costa; Joana Laranjeira da Silva; Vítor Vasconcelos; Ralph Urbatzka

**Evaluation of *Chlorella vulgaris* (SAG 211-12) production under mixotrophic conditions for biofilm photobioreactor optimization**

Correia, Rafael; Borges, Maria Teresa

**Microalgae *Dunaliella* sp from salterns of Aveiro, Castro Marim and Tavira**

Fernandes, Cristina; Baldaia, Sara; Amorim, Isabel

**Cyanobacteria and Microalgae: promising microorganisms on agriculture and soil rehabilitation**

Rocha, Mariana; Bessa, Márcia; Pissarra, João; Tamagnini, Paula; Melo, Paula

**Optimization of the ultrasound assisted extraction method for bioactive pigments from *Synechocystis salina***

Meirinho, Inês; Assunção, Joana; Amaro, Helena M.; Guedes, A. Catarina

**Discovery of new natural PPAR ligands: from a cell-based high throughput sensor to cyanobacteria screening**

Biltes, R.; Páscoa, I.; Sousa, J.P.; Ruivo, R.; Preto, M.; Vasconcelos, V.; Cunha, I.

**Effects of light quality in growth and production of bioactive compounds of *Ulva* spp**

Miranda, Raquel; Melo, Rosa; Salvaterra, Daniel; Amaro, Helena Melo; Sousa-Pinto, Isabel

**'Does it move like Jagger' – How TBT impacts *Triops longicaudatus* behaviour**

Chessa, Adriano; Abreu, Isabel Oliveira; Carvalho, António P.; Teles, Luís Oliva; Guimarães, Laura; Ferreira, Nuno G. C.

**Macroparasites of the mussel *Mytilus galloprovincialis* (Mollusca, Bivalvia) from Barra beach at Aveiro estuary**

Rodrigues, Carolina; Santos, Maria João

**Room A5 – Health Sciences e-Poster IV**

**Forebrain cholinergic plasticity in rats with chronic epilepsy induced by status epilepticus**

Da Costa, Catarina; Soares, Joana I.; Lukoyanov, Nikolay V.

**Frequency of use of UV filters in commercial sunscreens**

Augusto, I; Azevedo, LF; Sousa Lobo, JM; Almeida, IF

**GUT-BRAIN AXIS: We are what we eat**

Vale, Abel; Santos, João; Silva, Sara; Oliveira, M. Beatriz P. P.

**Hyperlipidaemia's impact on bone remodelling and development: Assessment in the ex vivo organotypic embryonic chick femora model**

Cardoso, João G.; Martin, Victor; Fernandes, Maria H.; Gomes, Pedro

**Immobilization of human neutrophil elastase inhibitors into polysulfone dialysis membranes – a preliminary study**

Rebelo, Rute; Morgošová, Kristína; Amorim, Célia; Araújo, Alberto; Moreira, Rui; Silva, Alice S. ; Montenegro, Maria C. B. S. ; Rocha, Susana

**Immunoprofiling of bladder cancer: setting the basis for novel immunotherapeutic strategies**

Viveiros, Nicole; Flores, Bianca C. T.; Lobo, João; Martins-Lima, Cláudia; Cantante, Mariana; Lopes, Paula; Henrique, Rui; Jerónimo, Cármen

**Impact of different pre-analytical variables on the intelligent optical fingerprinting of blood samples**

Lacerda, Gabrielle C.; Pinto, Vanessa P.D.; Rodrigues, Sandra C. M.; Alves, José A.P.; Marques, Filipe M. M.; Santos, Paulo H. C.; Faria, Simão P.M.P.; Carpinteiro, Cristiana R. S.; Rocha, Sara J. M.; Sampaio, F. Paula M.; Mumtaz, Mehak; Paiva, Joana I. S.,

**Implementation of in ovo protocol for quercetin genotoxicity evaluation**

Lenda, Lutete D.; Bastos, Verónica; Santos, Conceição; Ferreira de Oliveira, José Miguel P

**Virtual screening of known drugs in search of inhibitors of CHI3L1 for the treatment of pancreatic cancer**

Sousa, Sofia I.; Xavier, Cristina P.R.; Vasconcelos, M. Helena; Palmeira, André

**Room A6 – Health Sciences e-Poster V**

**Evaluation of the impact of protein intake on postprandial glycemia in adults with type 1 Diabetes Mellitus with functional insulin therapy**

Ribeiro, Lisandra; Neves, Celestino; Arteiro, Cristina; Oliveira, Bruno M. P. M.; Correia, Flora

**Exploring atypical organ infection in leishmaniasis**

Rodrigues, Joana; Teixeira, Ana; Costa, David; Lima, Clara; Cordeiro-da-Silva, Anabela; Tavares, Joana

**Expression of Mitochondrial Uncoupling Proteins (UCPs) in Human Sertoli cells and Spermatozoa**

Freire-Brito, Laís; Monteiro, Bruno S.; Carrageta, David F.; Oliveira, Pedro F.; Alves, Marco G.

**Extracellular Vesicles released by different Acute Myeloid Leukemia derived cell lines: analysis of their protein cargo**

Polónia, Bárbara; Hugo R. Caires; M.A. Sobrinho-Simões; Cristina P.R. Xavier; M. Helena Vasconcelos

**Fat content as a way to preserve pastry in vending machines?**

Maia, V.; Monteiro, C.; Mendes, E.; Casal, S.

**In vitro assessment of copper capacity to induce cellular senescence and the protective role of  $\alpha$ -MSH**

Oliveira, Ricardo; Salazar, Maria; Matos, Liliانا; Rodrigues, Adriana R.; Gouveia, Alexandra M.

**In vitro cytotoxicity, genotoxicity, hemocompatibility and osteogenic potential of TiO<sub>2</sub> and ZnO nanoparticles**

Patarra, Rafael O.; Grenho, Liliانا; Gomes, Pedro S.; Fernandes, Maria H.

**In vitro validation of putative GRP78 inhibitors previously found in silico**

Rebelo, Rita; Xavier, Cristina P. R.; Vasconcelos, M. Helena

**Initial experience with Targeted Axillary Dissection after neoadjuvant chemotherapy in breast cancer patients**

Pinto, Catarina S.; Fougó, José L.

**PARALLEL ORAL SESSIONS VI****Room A1 – Health Sciences VI****Metformin treatment downregulates ET-1 and VEGF expression in the heart of an endometriosis mice-model**

Martins, AF; Neto, AC; Rodrigues, AR; Gouveia, AM; Almeida, H; Neves, D

**miRNA in Cardiac Fibrosis: a case for miR-22-3p**

Costa, Francisco; Sousa, Daniel; Silva, Elsa; Cerqueira, Rui; Gomes, Ana Rita; Leite-Moreira, Adelino; Castanheira, Ana; Saraiva, Francisca; Sampaio-Pinto, Vasco; Pinto-do-Ó, Perpétua; Nascimento, Diana

**Neurochemical effects of cannabidiol on synchronous GABA and glutamate release from nerve terminals of immature vs. adult rats**

Ventura, Tatiana; Caulino-Rocha, Ana; Neiva, Rafael; Lobo, M. Graça; Correia-de-Sá, Paulo

**Neurosurgical anatomy of the opercular-insular region**

Ramos, Ana Sofia; Cunha-Cabral, Diogo; Alves, Hélio; Andrade, José Paulo

**New marine-derived compounds with promising neuroprotective effects**

Barreiro, Sandra; Remião, Fernando; Long, Sólida; Sousa, Emília; Pinto, Madalena; Silva, Renata

**Barriers to diet therapy for obesity among bariatric surgery patients who regained weight**

França, F.; Correia, F.; Poínhos, R.

**Room A2 – Biological Sciences IV****Automated zebrafish behaviour analysis with infrared sensors and R programming: applications for neurobiology, pharmacology and toxicology**

Silva, Rui; Pinho, Brígida R.; Santos, Miguel; Oliveira, Jorge M.A.

**Chronic life-cycle studies with the priority pharmaceutical Metformin: molecular and biochemical assessment with Danio rerio**

Ribeiro, Marta; Barros, Susana; Santos, Miguel; Neuparth, Teresa

**Fully biodegradable PEG-dendrimers to act as efficient vectors of different siRNA sequences**

Silva, Duarte; Pêgo, Ana P.; Leiro, Victoria

**Using infrared thermography to measure stress in laboratory mice**

Blenkuš, Uršca; Franco, Nuno H.

**Role of Gln3 and amino acids in the yeast model of Niemann-Pick type C1**

Costa, Rafaela S.; Martins, Telma S.; Pereira, Clara; Costa, Vítor

**The effect of rosehip extract-functionalized Magnesium Hydroxide [Mg(OH)<sub>2</sub>] nanoparticles on osteoblastic and osteoclastic cells**

Pinho, Laura; Fernandes, Maria Helena; Santos, Catarina F.; Colaço, Bruno

**Nanomedicine for stroke: polymeric carriers of neurotherapies towards the diseased brain. Polyacetal based nanosystems and Curcumin**

Gil Mota; Sofia Santos; Ana Paula Pêgo

### **Room A3 – Architecture II**

#### **The life in the block: shape and scale in the city dwelling**

MOTA, Manuel; SANTOS, André

#### **The Plattenbau and the socialist project in Berlin. Proposal for an intervention in the socialist block**

Neves, Mafalda M

#### **Siedlung Halen: How to live together**

Salazar, Bárbara Marta; Ribeiro, Helder Casal

#### **Access Galleries in Collective Housing Buildings. Porto Experiences between 1915 and 2007**

Araújo, Maria Francisca

#### **Living in a bubble: Atlas of the Individual Space**

Ceia, Joana

### **Room A4 – Engineering III**

#### **Prediction of atmospheric transport of VOCs originated by Matosinhos refinery**

Mahú, Francisco; Vila, Maria Cristina

#### **Impacts of the COVID-19 lockdown on air pollution in the North of Portugal in 2020**

Tavares, Leidy; Pereira, Maria do Carmo; Slezakova, Klara

#### **Development of N-doped carbon catalysts for NO reduction**

Felgueiras, Mariana B. S.; Sousa, Juliana P. S.; Restivo, João; Pereira, Manuel F. R.; Soares, Olívia S. G. P.

#### **Implementation of critical-raw-material-free catalysts for water electrolysis**

Brito, João F. G.; Pereira, Manuel F. R.; Soares, Olívia S.G.P.; Sousa, Juliana P.S.; Restivo, João

#### **Medication waste reduction: an approach to access the impacts of unit dose dispensing in community pharmacies in Portugal**

Valdrez, I.; Lopes, J.; Dias, J. M.

#### **Effects of emerging contaminants on microalgae bioremediation of wastewaters**

Vale, Francisca; Sousa, Cátia A.; Sousa, Henrique; Simões, Manuel

### **Room A5 – History & Museology**

#### **Jewish criminality in the reign of D. João II**

MARQUES, Ana M. C.

#### **Hispanic roman lamps of the Peninsular Southwestern. The “mining” lamps of Santa Bárbara de Padrão (Castro Verde, Beja)**

Faria, Mariana V.

#### **Saving the King’s Soul and Serving the Kingdom: a study on the Portuguese Royal Chapel (1385-1449)**

Rodrigues, André M.



12:10 – 13:40

**The Palacete Neomanuelino**

Tavares, João Gadelho Novais

**Traces of Religiosity in the Parish space. The case of Lever Parish**

Pinho, Inês

**Room A6 – Psychology and Sciences of Education IV**

**An examination of a Pre-Service Teacher's Specialized Content Knowledge during the implementation of a Sport Education Volleyball season**

Ribeiro, Eugénio

**Students' visual preferences and their use of visual images in solving different tasks involving functions**

Shtyka, Ievgeniia; Ferreira, Rosa

**Preliminary validation of an instrument to evaluate executive functions in portuguese children**

Melo, Deborah Carvalho Pereira de; Limpo, Teresa; Castro, São Luís

**Psychometric properties of the Reading Test Battery: word and pseudoword recognition, reading rate, sentence comprehension, teacher's scale**

Pinheiro, Ângela M. V.; Vilhena, Douglas A.

**School Misbehavior: Elementary Students' Perspectives on Typologies, Attributions, and Strategies**

Rodrigues de Lemos, Ana; Mendes, Sofia; Leal, Teresa

**The role of peer assessment to foster the development of students? Written mathematical communication skills**

Freitas, Daniela; Ferreira, Rosa A

**PARALLEL ORAL SESSIONS VII****Room A1 – Language Sciences I**

**Materials development for learning and teaching L2 pragmatics: the potential of branching simulations for enhancing pragmatic awareness in L2 Portuguese learners**

Pinho, Isabel C.

**Punctuation: an (un)expected discourse marker in opinion articles**

Magalhães, Violeta Amélia

**The ‘Fraser’ – Description and Analysis of the Third Part of the ‘Methodo Grammatical para Todas as Linguas’ (1619), by Amaro de Roboredo**

Boliqueime, Edna

**The use of the expression ‘de repente’ (suddenly) as a modalizer of illocutionary force**

Silva, Cristiane Reis

**Room A2 – Health Sciences VII**

**Dietary restraint and eating self-efficacy among CrossFit athletes**

de Castro, Luísa; Poínhos, R.

**Optimization of topical delivery for niacinamide using hydrogels and transethosomes**

Renata Basto; Raquel Andrade; Cláudia Nunes; Sofia A. Costa Lima; Salette Reis

**Perinatal Group B Streptococcal disease: P2X7 receptors activation improves neonatal survival and protect against neurodevelopmental impairment**

Fialho, Sara; Monteiro, Andreia; Ferreira, Diogo; Andrade, Elva B.; Ribeiro, Adília; Ferreira, Paula; Oliveira, Laura

**Pirfenidone sensitizes non-small cell lung cancer cell lines to the effect of chemotherapeutic agents**

Branco, Helena; Antunes, Catarina; Xavier, Cristina P. R.; Oliveira, Júlio; Santos, Lúcio L.; Vasconcelos, M. Helena

**Prevalence and characterization of Human pegivirus-1 (HPgV-1) viraemia in Portuguese healthy volunteer blood donors**

Castro, Mafalda; Casado, Isabel; Silva, Eliane; Ferreira Barradas, Patrícia; Amorim, Irina; Gärtner, Fátima; Gomes, Helena; Monteiro, Álvaro; Mesquita, João R.

**Promising anticancer activity exerted by extracts of Corema album leaves**

Cerquido, Ana Sofia; Vojtek, Martin; Gonçalves-Monteiro, Salomé; Viegas, Olga; Barroca, Maria João; Silva, Aida Moreira da; Diniz, Carmen; Ferreira, Isabel M.P.L.V.O

**Health care professionals and the identification of intimate partner violence – new challenges during the Covid-19 pandemic**

Moreira, Diana Nadine; Pinto da Costa, Mariana

**Room A3 – Biological Sciences V****Bmp-signaling and the fin-to-limb transition in Vertebrates**

Francisco, Miguel; Freitas, Renata

**The role of Bmp-signaling in the definition of finfold size in zebrafish**

Cadete, Francisco M.; Freitas, Renata

**The role of the Josephin domain in the ATXN3 protein interactions**

Silva, Rita; Sousa, André; Vandervoordt, Catarina; Vieira, Jorge; Vieira, Cristina P.

**Understanding Structure-Function Correlation in Class II Pyruvate Aldolases of Bacterial Origin**

Justo, Inês; Bento, Isabel

**The synthetic cannabinoids THJ-2201 and ADB-FUBINACA increase neuronal differentiation and induce epigenetic changes in NG108-15 cells**

Telma M Gomes; Diana Dias da Silva; Helena Carmo; Félix Carvalho; João Pedro Silva

**IGF-1 | Between Cardiac Repair and Regeneration**

Rebello, Diogo; Pereira, Cassilda; Gomes, Rita; Fonseca, Ana Catarina; Nascimento, Diana

**CCL18 in colorectal cancer: an emerging pro-invasive and immunosuppressive chemokine in the tumor microenvironment**

Canha-Borges, A; Pinto, ML; Brigas, H; Marques-Magalhaes, A; Castro, F; Pereira, F; Rios, E; Carneiro, F; Cardoso, AP; Oliveira, MJ

**Room A4 – Engineering IV****AMP-PLGA Nanoparticles to Fight Bacterial Wound Infections**

Ramôa, António; Moreira, Luís; Teixeira, Cátia; Leiro, Victoria; Gomes, Paula; Neves, José das; Martins, M. Cristina L.; Monteiro, Cláudia

**Antimicrobial surfaces based on chitosan to prevent implant-associated infections**

Lima, Marta S.; Teixeira-Santos, Rita; Gomes, Luciana C.; Mergulhão, Filipe J.

**Immunomodulatory effects of nanographene oxide and reduced nanographene oxide in combination with phototherapy**

Azevedo, Silvana; Timochenco, Licínia; Silva, Filipa; Amaral, Sara I.; Bessa-Gonçalves, Mafalda; Chattahy, Kaoutar; Fernandes, José R.; Magalhães, Fernão D.; Costa-Almeida, Raquel; Santos, Susana G.; Pinto, Artur M.

**Reduced nanographene oxide hydrogels for combined chemotherapy and photothermal therapy of skin cancer**

Amaral, Sara I.; Silva, Filipa; Timochenco, Licínia; Azevedo, Silvana; Fernandes, José R.; Sarmiento, Bruno; Magalhães, Fernão D.; Gonçalves, Inês C.; Costa-Almeida, Raquel; Pinto, Artur M.

**The novel use of carbon xerogels for the immobilization of L-asparaginase, an antileukemic drug**

Barros, Rita A. M.; Carabineiro, Sónia A. C.; Freire, Mara G.; Faria, Joaquim L.; Santos-Ebinuma, Valéria C.; Tavares, Ana P. M.; Silva, Cláudia G.; Cristóvão, Raquel O.

**Nanoparticles for targeted drug delivery in glioblastoma multiforme therapy**

Bravo, Maria; Ramalho, Maria J.; Loureiro, Joana A.; Pereira, Maria C.

14:30 – 16:00

### **Room A5 – Architecture III**

#### **The Art Osmosis Manifesto**

Faísca, Adriana; Cardoso, Rui

#### **Meeting between museum and city: A new dialogue with Palazzo Silvestri Rivaldi**

Bernardo Silva; Helder Casal Ribeiro

#### **Architecture of the Essential: an individual experience with the Kolumba Museum**

Alexandra Nunes de Oliveira Fonseca; Helder Francisco Valente Casal Ribeiro

#### **Earthquake Resistance of Traditional Wooden Dwellings in Turkey**

Arslan, Esra; do Vale, Clara P.

#### **Saint John the Baptist Fort of Vila do Conde: from a military site to a nightclub**

Silva, Ana J. C. e; Carvalho, Eduardo J. T. A. De

### **Room A6 – Maths & Astronomy**

#### **Multiscale Information Decomposition of long-range correlated cardiovascular and respiratory variability series**

Pinto, Helder; Rocha, Ana Paula

#### **Optimization Problems in Sea Exploration**

João Pedro Pedroso; João Pedro Gonçalves Dionísio; Davi Pereira dos Santos

#### **The hidden forest in powers of differential operators**

Fernandes, Pedro M.

#### **Exploration of dark matter profiles in ultra-faint dwarfs**

Júlio, Mariana P.; Brinchmann, Jarle; Zoutendijk, Sebastiaan L.

#### **Low-redshift parametrizations of varying fine-structure constant models**

Martins, Carlos J. A. P.; Ferreira, Francisco P. S. A. F.; Marto, Pedro V.

**PARALLEL e-POSTER SESSIONS IV****Room A1 – Architecture e-Poster II****Contemporary Housing Typologies: Experiences in the 21st Century in Portugal**

Paulo, Alexandra; Furtado, Gonçalo

**Housing, for and with people. Design processes and the rehabilitation of an island in Campo Alegre**

El-Dash, Cynthia M. C. A.

**A window to the landscape, Ponte de Lima house that pursues an exterior space**

Campos, Mónica; Lage, José

**The Ruin, a programmatic circumstance: Intervention at the Convent of São Francisco do Monte in Viana do Castelo**

Fonseca, Mariana M. P. V.; Garrido de Oliveira, Carla; Marques, João Luís

**Memory (of) the Martyrium of Dom Gonçalo da Silveira. The Monóptero of Penas Róias, Mogadouro**

Capitão, Catarina; Garrido de Oliveira, Carla

**Room A2 – Biological Sciences e-Poster III****Impact of hyperoside supplementation on the quality of human sperm**

Moreira, Mafalda; Pereira, Sara C.; Pinto, Soraia; Barros, Alberto; Silva, Branca M.; Alves, Marco G.; Oliveira, Pedro F.

**Impact of dietary inclusion of wine and olive oil waste extracts on physiological and health status of seabass (*Dicentrarchus labrax*)**

Sousa, N.; Fernandes; Medeiros; Diogo, F.; Fontinha, F.; Oliva-Teles, A.; Belo, eu.; Salgado, J. ; Peres, H.; Castro, C.

**Impact of otolith deformities on juvenile fish diet and condition**

Vilar, I.; Saraiva, J.; Dias, E.; Freitas, V.

**Presence/absence and genetic diversity of the  $\beta 2$  domain of MHC class II DAB and DBB lineages on cartilaginous fish – the most basal jawed vertebrate group to present an adaptive immune system**

Simões, Rita

**Quantification and characterization of microplastics in fish larvae**

Almeida, João C.; Araújo, Mário J.; Dias, Ester; Antunes, Carlos

**Transgenerational inheritance induced by the exposure to Simvastatin in *Gammarus locusta* males**

Pereira, Mariana; Neuparth, Teresa; Alves, Néilson; Santos, Miguel M.

**Mitogenome analysis of cattle from the Roman Republic fortification of Chibanês, Palmela, Portugal**

Ferreira, Leonor; Guimarães, Silvia; Soares, Joaquina; Tavares da Silva, Carlos; Detry, Cleia; Götherström, Anders; Pires, Ana Elisabete; Ginja, Catarina

**Grooming interactions in a Mandrill (*Mandrillus sphinx*) colony housed at Badoca Safari Park**

Pacheco, João; Casanova, Catarina; Monteiro, Nuno; Pereira, André

**Forgotten expeditions, natural history collections and the description of new species: A review of Francisco Newton's 1903–1906 expedition to Angola**

Santos, Bruna S.; Marques, Mariana P.; Ceríaco, Luis M.P.

**Room A3 – Language and Communication Sciences e-Poster**

**Consumption behavior – Music live streaming in Brazil and the Covid-19 pandemic**

Reiff, Luísa

**The complex problem of Camões' lyric poetry canon**

Correia, Miguel

**Host Language Mastery and Integration**

Queirós, Maria Luís

**The World's Largest Lesson and Education for Sustainable Development: A proposal on the use of the SDG to teach Portuguese as a Foreign Language**

Paiva, Ana C.

**Room A4 – Psychology and Sciences of Education e-Poster I**

**"I want it, I got it": determinants of impulse buying of clothes**

Andrade, Darana.; Lins, Samuel.; Aquino, Sibebe.

**A multilevel perspective in the study of occupational stress: the case of the Permanent Intervention Teams**

Pinto, Mariana C.; Jordão, Filomena

**Becoming a leader: a longitudinal case study**

Teixeira, Flávia; Brandão, Catarina

**Conspicuous consumption in Christmas gifts' shopping**

Santos, Maria João; Melo, Hérica

**Consumer Behavior During the Pandemic: A Qualitative Study**

Carneiro, João; Lins, Samuel; Aquino, Sibebe; Costa, Raquel

**Developing leaders – What's important to focus when evaluating intervention programs?**

Cunha, Cristiana; Brandão, Catarina

**Genetic susceptibility test to cancer: exploratory study of determinants of distress in the partner romantic**

Almeida, Daniela L.; Sales, C.; Duarte, C.

**Occupational Stress experienced by doctoral graduates in an Anemployment situation**

Sousa, Marisa; Jordão, Filomena

**Panic buying and revenge buying behavior during COVID-19 pandemic: understanding differences and similarities**

Costa, Ana R.; Lins, Samuel; Sibebe, Aquino; Koch, Rita

**Room A5 – Health Sciences e-Poster VI**

**Diversity of Resistant-Enterococcus species in wild animals from Portuguese fauna**

Palmeira, Josman D.; Cunha, Monica V.; Araújo, Débora; Ferreira, Helena; Fonseca, Carlos; Torres, Rita T.

**Industrial dog food is a vehicle of multidrug-resistant enterococci carrying virulence genes often linked to human infections**

Finisterra, Liliana; Duarte, Bárbara; Peixe, Luísa; Novais, Carla; Freitas, Ana R.

**Helicobacter pylori, a review on the epidemiology and current diagnostic of a public health issue**

Maia, Ana Margarida F.; Novais, Carla

**Leishmania infantum clinical and veterinary isolates sensitivity to reference drugs: first steps to define the drug sensitivity landscape**

Santos, Daniel D.; Santarém, Nuno; Silva, Anabela C.

**Detection methods of intraspecific variability in human highly infectious viruses**

Ferreira, André; Pereira, Filipe; Azevedo, Luísa; Carneiro, João

**Beverages consumption among students of the University of Porto**

Cardoso, Catarina; Garcia, Inês; Martins, Juliana; Students from the 3rd year of Nutritional Sciences Degree of FCNAUP 2019/2020; Morais, Cecília; Pereira, Bárbara; de Almeida, M. D. V.; Poínhos, Rui; Oliveira, Bruno M. P. M.

**Consumption of caffeinated and energy drinks among students of the University of Porto**

Teixeira, M. Francisca; Soares, Maria; Magalhães, Mariana; Monteiro, Inês; Baptista, Sofia; Rodrigues, Fabiana; Students from the 3rd year of Nutritional Sciences ; Morais, Cecília; Pereira, Bárbara; de Almeida, M. D. V.; Poínhos, Rui; Oliveira, Bruno M. P. M.

**Food consumption trends: the case of coconut oil**

Danielli F. Pinto; Melo, Diana; Oliveira, Maria Beatriz P.P.

**Healthy and Sustainable Eating Behaviors among a group of portuguese teenagers: data from SEI project**

Almeida, Sara.; Taipa-Mendes, A.M.; Mota, Anabela.; Monteiro, Ana.; Couto, Verónica.; Poínhos, Rui.; Afonso, Cláudia

**PARALLEL ORAL SESSIONS VIII****Room A1 – Language Sciences II****Teaching Direct and Indirect Object Pronouns in Portuguese as a Foreign Language through Creative Writing by Stages**

Pereira Rei, Karina

**The absence of writing sub-processes in elementary and secondary education and its consequences: a pilot-study with Portuguese students and the narrative text**

Vieira da Silva, Joana

**Creation of Resources for the Development of Listening Comprehension at A1.2 Level in Portuguese as a Second Language**

Yanping, Tang

**Room A2 – Health Sciences VIII****A preliminary study of Campylobacter spp. in dogs in Portugal – a One Health perspective**

Lemos, Maria Leonor; Nunes, Alexandra; Martins da Costa, Paulo; Oleastro, Mónica

**Atypical non-H2S-producing Salmonella 4,5,12:i:- ST3478 strains from chicken meat are adapted to diverse stresses**

Ribeiro, Sofia; Mourão, Joana; Rebelo, Andreia; Peixe, Luísa; Novais, Carla; Antunes, Patrícia

**SafestPoultry: understanding the impact of organic versus inorganic copper formulas use at farm level in the safety of marketed poultry-meat**

Monteiro, Eulália; Ribeiro-Almeida, Marisa; Ribeiro, Sofia; Rebelo, Andreia; Pereira, Beatriz; Baptista, Carina; Peixe, Luísa; Novais, Carla; Antunes, Patrícia

**Organic and inorganic copper feed formulations have a similar impact in the selection of copper tolerant and multidrug resistant Enterococcus faecium from poultry farms and meat available to consumers**

Baptista, Carina; Rebelo, Andreia; Duarte, Bárbara; Almeida, Marisa; Monteiro, Eulália; Pereira, Beatriz; Ribeiro, Sofia; Freitas, Ana R.; Peixe, Luísa; Antunes, Patrícia; Novais, Carla

**Organic versus Conventional farming sustainability: A multidimensional comparative analysis**

Sousa, Filipe; Cunha, Mário

**Antibiotic resistant coliforms in waters of Douro River**

Do Arte, Inah; Dantas Palmeira, Josman; Cunha, Mónica V.; Fonseca, Carlos; Tinoco Torres, Rita; Ferreira, Helena

**Detection of potential pathogenic and opportunistic bacteria in breastmilk and saliva from Mother-Child pairs**

Fernandes, Mariana; Campos, Carla; Sampaio-Maia, Benedita; Azevedo, Maria João; Campos, Joana



**Room A3 – Biological Sciences VI****Antifungal Activity of a Thioxanthone against *Candida albicans***

Cardoso, Joana; Freitas-Silva, Joana; Pinto, Madalena ; Pinto, Eugénia; Sousa, Emília

**Biotechnological application of AIP56, an AB-toxin from *Photobacterium damselae* subsp. *Piscicida***

Moura, A.; Lisboa, J.; Azevedo, J.E.; do Vale, A.; dos Santos, N.M.S.

**Using hypothermia to signal earlier humane endpoints in a mouse model of sepsis**

Miranda, Catarina S.; Oliveira, Liliana; Gerós, Ana; Carmo, Alexandre M.; Aguiar, Paulo; Olsson, Anna S.; Franco, Nuno H.

**Using transcriptomics to identify iron-related resistance mechanisms and to propose new host-directed therapies against infection**

Rodrigo Eusébio; Tânia Silva; Salomé Gomes; Luísa Pereira; Bruno Cavadas; Ana C. Moreira

**Evaluation of ultraviolet radiation on multidrug-resistant *acinetobacter baumannii* widely disseminated clones**

Duarte, Ana Catarina; Grosso, Filipa; Peixe, Luísa

**The potential benefits of contact with nature in children and adolescents with ADHD: a “scoping” review**

Silva, João Vitor; Silva, Karine

**Room A4 – Engineering V****Using nanotechnology to prevent skin aging**

Pereira, Adriana J.; Gonçalves, Catarina L.; Loureiro, Joana; Silva, Ana C.; Walgode, Ana; Ramalho, Maria J.; Pereira, Maria C.

**The use of SLN and NLC to improve the efficacy of antioxidant molecules in the skin care**

Gonçalves, Catarina L.; Pereira, Adriana J.; Loureiro, Joana; Silva, Ana C.; Walgode, Ana; Ramalho, Maria J.; Pereira, Maria C.

**Bioengineering a 3D Breast Tumour Angiogenesis Model**

Magalhães, Mariana V.; Debera, Natalyia; Torres, Ana Luísa; Pereira, Rúben; Barrias, Cristina; Bidarra, Sílvia J.

**Make My Heartbeat: Interlead Conversion of ECG Signals**

Beco, Sofia; Cardoso, Jaime; Pinto, João

**Development of a software for characterizing nanoparticle transport in biorelevant media using real-time video microscopy**

Gabriel, Leandro; Almeida, Helena; Sarmiento, Bruno; das Neves, José

**Prediction of TTR-FAP age of onset survival curves with mixture density networks and subgroup discovery**

Monteiro, Mariana; Jorge, Alípio

### **Room A5 – Architecture IV**

**Architecture for the largest number. A proximity structure for the specific case of Porto's ilhas**

Gonçalves, João

**Between learning, doing and transforming. The Porto's ilhas rehabilitation as a collective learning mechanism**

Reis, Paula G.; Calix, Teresa; Varea Oro, Aitor

**From Treatment to Prevention. Architecture as a Social Determinant of Health in Ilhas of Porto**

Oliveira, Sara

**Casa al Parco: Ignazio Gardella's design strategies**

Ferreira, Verónica Marques; Ribeiro, Helder Casal

**Gravity and Something Graceful, The Potencial of Banality**

Alves, Sara; Casal Ribeiro, Helder

### **Room A6 – Sport Sciences I**

**Pedagogical Content Knowledge and students' development of game performance: Examining a preservice teacher's implementation of a Basketball Sport Education season**

Silva, Ana; Farias, Cláudio; Monteiro, José C.

**Perception of the effect of training without swimming goggles**

Gomes, Joana; Villas-Boas, João Paulo; Batista, Paula; Fernandes, Ricardo J.; Soares, Susana

**The adaptation of Faculty of Sport pre-service teachers in the teaching of Physical Education through Distance Learning**

Águeda, Ana R; Cardoso, Fernando J; Queirós, Paula M

**The effect of mental visualization on pass effectiveness in senior amateur soccer players**

Oliveira, Bruno; Lenha, João; Ferreira, Pedro; Barbosa, Renato; Rodrigues, Paula; Vasconcelos, Olga

**The effect of practice and type of practice on static and dynamic balance**

Oliveira, A. D.; Carvalho, A.; Coelho, J.; Gomes, R.; Vasconcelos, O.; Rodrigues, P.

**The influence of Therapeutic Riding in school-age children with Autism Spectrum Disorders: a systematic review**

Teixeira, Ricardo M.; Santos, Maria P.

## Sexta-feira, 7 de maio

May, 7<sup>th</sup>, Friday

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08:00 – 17:30 **Secretariado digital a todos os participantes, suporte virtual**  
*Secretariat for all participants, virtual support*

### 09:00 – 10:30 **PARALLEL ORAL SESSIONS IX**

#### **Room A1 – Health Sciences IX**

**Reduction of connexin-43 and P2X1 receptor clusters between adjacent cardiomyocyte intercalated discs as a hallmark of endomyocardial fibrosis**  
Teixeira, Paula; Ferreirinha, Fátima; Mocumbi, Ana Olga; Correia-de-Sá, Paulo

**Relationship between eating behaviour of children with failure to thrive and eating behaviour of their parents/caregivers**  
Machado, Sarai; Poínhos, Rui; Vasconcelos, Carla; Correia, Flora

**Seeking for an improved activator of TAp73 in neuroblastoma treatment**  
Silva, Mariana; Almeida, Joana; Resende, Diana; Pinto, Madalena; Sousa, Emília; Saraiva, Lucília

**Self-harm among adolescents: the role of alexithymia in the context of depression**  
Bordalo, Felícia; Carvalho, Irene

**Silver nanoparticles activate neutrophils' Oxidative burst via a pathway inhibitable by flavonoids**  
Ramalho, Ana; Sousa, Adelaide; Lucas, Mariana; Carvalho, Félix; Fernandes, Eduarda; Freitas, Marisa

**Structure-based virtual screening, Molecular Dynamics and free energy calculations for the identification of New Quorum Sensing Inhibitors**  
Martins, Fábio G.; Sousa, Sérgio F.; Melo, André

#### **Room A2 – Biological Sciences VII**

**Evaluation of the microalgae *Chlorella vulgaris* for their potential beneficial effects on human metabolic diseases**  
Simões, Rita; Regueiras, Ana; Matos, Gabriela; Saraiva, Jorge; Costa, Ana; Silva, Joana; Urbatzka, Ralph; Vasconcelos, Vitor

**In search of chemical treasure troves hidden in the sea: Exploring deep-sea-Actinobacteria chemical diversity by using the OSMAC approach**  
Correia, Sofia; Ribeiro, Inês; Braga-Henriques, Andreia; Urbatzka, Ralph; Carvalho, Maria F.

**Probiotic *Bacillus* spores as antigen delivery vehicles: towards the development of oral vaccines for aquaculture**  
Gonçalves, Gabriela; Santos, Rafaela; Carvalho, António P.; Gomez-Casado, Eduardo; Diaz-Rosales, Patricia; Piñeiro, Carolina T.; Oliva-Teles, Aires; Coutinho, Filipe; Serra, Cláudia R.

**Perisynaptic Schwann cells control acetylcholine spillover from motor endplates through nicotinic  $\alpha 7$  receptors operating a Rho-kinase and nitric oxide synthase-dependent mechanism**  
Sousa-Soares, Carlos; Noronha-Matos, José Bernardo; Correia-de-Sá, Paulo

09:00 - 10:30

**Tracing invisible footsteps: towards a multidisciplinary model for the spread of Khoe-Kwadi languages in pre-colonial Southern Africa**

Amorim, Beatriz

**Room A3 - Sport Sciences II**

**Association between levels of physical activity and symptoms of depression in the during COVID19 lockdown: Results from Fortaleza Cidade Amiga do Idoso Social**

Lage, Ana C. S. S.; Queiroz, Elzier S.; Carrapatoso, Susana; Gomes, Sérgio; Miranda, Luisa S.; Freitas, Maria D. B.; Magalhães, Fabíola P.; Bohn, Lucimere

**How are sport psychologists helping athletes deal with the COVID-19? A qualitative study on their intervention during the pandemic crisis**

Oliveira, Bruno; Lenha, João; Ferreira, Pedro; Barbosa, Renato; Sofia, Rui; Barreiros, André; Dias, Cláudia

**How Portuguese Olympic and Paralympic athletes are dealing with the COVID-19 lockdown? A qualitative study about their coping strategies**

Miguel, Inês; Sofia, Rui M.; Dias, Cláudia

**Lockdown Effects on Older Adult's Quality of Life, Physical Activity and Sleep**

Queiroz Neto, Elzier S.; Abdalla, Pedro Pugliesi.; Lage, Ana C. S. S.; Freitas, Maria D. B.; Magalhães, Fabíola P.; Gomes, Sergio; Bohn, Lucimere

**Physiological impact of the workout Fran in experienced CrossFit® participants**

Rios, Manoel.; Nastari, Rodrigo.; Becker, Klaus M.; Gonçalves, Daniel M.; Fernandes, Ricardo J.

**Psychological Impact of the Covid-19 Pandemic on Portuguese High-Performance Athletes**

Magalhães, Ana; Costa, Jardel; Pereira, Miguel; Magalhães, Telmo; Sofia, Rui; Barreiros, André; Dias, Cláudia

**Room A4 - Architecture V**

**Scholar architecture and urban space: rehabilitation and recentralization of schools in the city**

KOVÁCS, Alexandra; SANTOS, André

**Montessori architecture**

Abreu, Mariana

**Classroom space: between tradition and innovation**

PEREIRA, Carolina; SANTOS, André; NEVES, Isabel Clara

**Color in school architecture: expression and meaning at requalification on the educational environment**

Carneiro, Mariana B.; Santos, André

**Room A5 – Physics I****Customization of Thermal Expansion in Nanowires**

Gonçalves, Sofia; Andrade Vivian; Almeida, Rafael; Sousa, Célia T.; Araújo, João P.; Belo, João H.; Apolinário, Arlete

**Multifunctional Fe–Au nanostructures for biomedical applications**

Freitas, Sara; Belo, João H.; Sousa, Célia T.; Magalhães, Ricardo; Crespo, H.; Canhota, M.; Almeida, Miguel Peixoto de; Pereira, Eulália; Almeida, B.; Silva, B.M.; Araújo, João P.; Freitas, Sara; Belo, João H.; Sousa, Célia T.; Magalhães, Ricardo; Crespo, H.; Canhota, M.; Almeida, Miguel Peixoto de; Pereira, Eulália; Almeida, B.; Silva, B.M.; Araújo, João P.; Freitas, Sara; Belo, João H.; Sousa, Célia T.; Magalhães, Ricardo; Crespo, H.; Canhota, M.; Almeida, Miguel Peixoto de; Pereira, Eulália; Almeida, B.; Silva, B.M.; Araújo, João P.; Freitas, Sara; Belo, João H.; Sousa, Célia T.; Magalhães, Ricardo; Crespo, H.; Canhota, M.; Almeida, Miguel Peixoto de; Pereira, Eulália; Almeida, B.; Silva, B.M.; Araújo, João P.; Freitas, Sara; Belo, João H.; Sousa, Célia T.; Magalhães, Ricardo; Crespo, H.; Canhota, M.; Almeida, Miguel Peixoto de; Pereira, Eulália; Almeida, B.; Silva, B.M.; Araújo, João P.

**Finding a Structural Signature of the Griffiths Phase**

Fleming, Rafael O.; Belo, João H.; Pereira, André M.; Ren, Yang; Santos, António M.; Morellón, Luis; Magén, César; Algarabel, Pedro; Marcano, Noélia; Ibarra, Ricardo; Araújo, João P.

**Topology and Disorder in Nodal Loop Semimetals**

Silva, João; Castro, Eduardo V.; Araújo, Miguel A. N.; Ribeiro, Pedro; Gonçalves, Miguel

**Magnetization dynamics of the first-order phase transition material, Gd<sub>5</sub>Si<sub>2</sub>Ge<sub>2</sub>**

Rafael Almeida; João Horta Belo; Rui Costa; Carlos Amorim; João S. Amaral; Tyler Del Rose; Yaroslav Mudryk; Vitalij Pecharsky; Lukas Pfeuffer; Benedikt Beckmann; Konstantin Skokov; Oliver Gutfleisch; Edmund Lovell; André Pereira; João Pedro E. de Araújo

**Quantification of Whole-Body Bone Scans with Imaging Processing and Machine Learning Algorithms**

Providência, Laura

**Room A6 – Arts I****Decorative Arts in International Heritage Doctrine: Reflexion about its valorization and the necessity of specific documentation**

Cláudia Pires

**Nostalgic recollections in Contemporary Art**

Capela, David

**Turning the tide with thermal pressing – from fish scales waste to sea gems**

Teixeira, Leonor; Alves, Jorge L.; Rangel, Bárbara

**PARALLEL e-POSTER SESSIONS V**

**Room A1 – Architecture e-Poster III**

**For a school architecture for all**

Rocha, Bruna; Santos, André

**Socio-spatial effects in school space**

Mendonça, Francisca; Santos, André; Pereira, Virgílio Borges

**Standardization as a Strategy in the Construction of the School of Democracy**

PENEDA, Mariana; SANTOS, André

**Dialectics between author and type in the contemporary conception of the school building**

Sobreira, Cícero; Santos, André

**Room A2 – Biological Sciences e-Poster IV**

**Bacterial bioactivities assessment by Flow Cytometry**

Zangger, Naomi; Santos, José D.; Godinho, Ofélia; Lage, Olga M.

**Eco-friendly additive for bacterial growth medium**

Lopes,Sofia; Dias,Clara; Pais,Patrick; Santos,Alexandra; Fernandes,Ruben; Baylina,Pilar

**Sustainable bacterial growth medium**

Dias, Maria C.; Lopes, Sofia; Pais, Patrick; Santos, Alexandra; Fernandes, Rúben; Baylina, Pilar

**Role of polymorphisms of ACE2 and Spike proteins in SARS-CoV-2 infection**

Teixeira, Catarina; Dias, Maria C.; Baylina, Pilar; Fernandes, Rúben.

**Synthesis of an important precursor of bioactive xanthone derivatives**

Godinho, Sara J.; Dias, Ana L.; Loureiro, Daniela R. P.; Soares, José X.; Pinto, Madalena M. M.; Afonso, Carlos M. M.

**Toxicological cytotoxic interactions between contaminants from processed meat**

Ramos, Helena; Viegas, Olga; Faria, Miguel; Ferreira, Isabel

**New food colorants: a study of their stability and properties**

Alves, S.; Teixeira, N.; Freitas, V.

**Unravelling the role of  $\alpha$ - hydroxybutyrate in insulin resistance**

Sousa, André; Franco, Carolina; Cunha, Diogo; Baylina, Pilar; Fernandes, Rúben

**Development of a Structural Database of Insecticide Targets**

Araújo, Maria F.; Vieira, Tatiana F.; Coutinho, Elisabete M.S. Castanheira; Sousa, Sérgio F.

**The role of green roofs as biodiversity promoters in urban coastal areas**

Carvalho, Ana F.; Mucha, Ana P.; Mina, Isabel A. P.; Calheiros, Cristina S.C.

**Room A3 – Psychology and Sciences of Education e-Poster II**

**Effects of Physical Education Teacher Education on students' game-play and a preservice teacher content knowledge**

Teixeira, Joaquim

**Institutional Higher Education Practices in Portugal for training student workers: how they are understood and applied by teachers and students**

Doratiotto, Elaini C.

**Mathematical learning in a virtual environment: The role of group work**

Mendes, Rita; Ferreira, Rosa

**The use of ludic contexts in the learning of linear equations**

Araújo, Sara; Ferreira, Rosa

**“Talks with History”: an intergenerational sharing of memories of the primary school at CITRIME–Murça**

Resende, Mafalda S.; Vieira, Susana S.; Breia, Maria Isabel B. G.; Cruz, Marcia T. J. O.; Felgueiras, Margarida L.

**The use of gamification in e-learning approaches in the teaching of dental medicine**

Brandão, Gabriel S. P.; Ponces, Maria J.; Vieira-Marques, P.

**Role of curricular internship in psychology in the transition to the job market: Perceptions and experiences of interns and psychologists**

Sousa, Mafalda; Paiva, Ana Francisca; Freixo, Ana Rita; Brandão, Catarina

**Room A4 – Sport Sciences e-Poster**

**Analysis of the offensive sequences after imminent passive play in the 2020 European Senior Men's Championship**

Barbosa, Filipa; Maroja, Gabriel; Silva, José A.

**Attack analyses in the last 5 minutes in the 2020 European Senior Men's Handball Championship. Influencing factors in the game result**

Fraga, Maria C.; Maroja, Gabriel; Silva, José A.

**Characterization of offensive actions in sequences with the game tied or with one goal difference in high level handball games**

Guimarães, Paulo; Maroja, Gabriel; Silva, José A.

**Evaluation of physical performance in surfskating**

Kulikova, Anastasia; Borgonovo-Santos, Márcio; Sanches, Miguel

**The attack following the time-out, efficacy and repercussion in the final result: 2020 European Men's Handball Championship**

Grande, Francisco.; Maroja, Gabriel.; Silva, José António

**The use of smart garments during and after physical exercise: The Wear2Heal Project**

Silva, Gonçalo; Duarte, João P.; Silva, Carlos F.; Magalhães, Pedro; Midão, Marta; Bonifácio, Graça; Couto, Suse; Silva, Ricardo; Machado, Leandro.J.; Fernandes, Ricardo.J.; Vilas-Boas, João.P.

10:40 – 12:00

**Visual Reaction Time in Young Volleyball Athletes. Effect of Sex and Years of Practice**

Monteiro, Guilherme; Boliqueime, Iara; Xavier, Luis; Rodrigues, Paula; Vasconcelos, Olga

**Yin Yang – The two sides of a Teacher**

Samuel Lemos Lana

**Room A5 – Health Sciences e-Poster VII**

**Preimplantation genetic testing for monogenic disorders in transport service: comparison of a targeted testing versus a genome-wide testing approach**

Dias, Beatriz; Berckmoes, Veerle; Verdyck, Pieter; Carvalho, Filipa; De Rycke, Martine

**Preliminary data on age-related oxidative modifications to uterine proteins**

Sousa, Luísa; Rodrigues, Adriana; Timóteo-Ferreira, Filipa; Silva, André M.N.; Guedes-Martins, Luís; Saraiva, Joaquim; Almeida, Henrique; Silva, Elisabete

**Preterm transient hypoxia-ischemia: effects on behavior and brain morphology**

Araújo-Andrade, Leonardo; Rocha, Rúben; Alves, Tânia; A. Pereira, Pedro; Madeira, M.Dulce; Cardoso, Armando

**Psychostimulant induced-neuroinflammation: clarifying the astrocyte-microglia crosstalk under IL-10, an in vitro study**

Pinto, Carolina; Silva, Ana I.; Summavielle, Teresa

**Serotonergic Signalling Activation as a Therapeutic Approach for Neurodegenerative Diseases**

Vidinha-Mira, André; Monteiro, Daniela; Guerreiro, Sara; Almeida, Bruno; Duarte-Silva, Sara; Teixeira-Castro, Andreia

**Chemobrain: assessing the potential to recovery from doxorubicin-induced neurotoxic effects in cd-1 mice**

Dias-Carvalho, Ana; Fernandes, Ana Olívia; Reis-Mendes, Ana; Duarte-Araújo, Margarida; Carvalho, Félix; Capela, João Paulo; Sá, Susana I.; Costa, Vera Marisa

**Synthesis of sugar-coated marine polymeric nanosystems for topical delivery of bioactive agents**

Serrasqueiro, Filipa; Barbosa, Ana Isabel; Costa Lima, Sofia A.; Reis, Salette

**The influence of sympathetic nervous system through  $\alpha 2C$ -adrenergic signaling pathway in breast cancer bone metastasis**

Fonseca, Ana L.; Tojal, Sofia; Conceição, Francisco; Lamghari, Meriem; Sousa, Daniela M.

**The role of long non-coding RNAs in HPV-induced carcinogenesis: A review of the literature**

Dias, Tânia R.; Santos, Joana M. O.; Gil da Costa, Rui M.; Medeiros, Rui.



**Insights on the anti-inflammatory effects of the Thai medicinal plant *Justicia gendarussa* Burm.f. and identification of bioactives**

Silva, Ana; Duangsrissai, Sutsawat; Andrade, Paula B.; Valentão, Patrícia; Gomes, Nelson G. M.

**University consumers perceptions regarding food waste and sustainability**

Melo, Maria E. F.; Almeida, Maria D. B. V. F.; Oliveira, Bruno M. P. M.,

**Toxicokinetics and toxicodynamics of the cannabinoid agonists *adb-fubinaca* and *amb-fubinaca***

Freitas, Carolina L.; Brito-da-Costa, Andreia M.; Dinis-Oliveira, Ricardo J.; Carmo, Helena; Carvalho, Félix; Silva, João P.; Silva, Diana D.

**Using decellularized human uterine samples to assess the influence of the extracellular matrix on the age-related decay on uterine function**

Moreira, Mafalda; Silva, André M.N.; Guedes-Martins, Luís; Saraiva, Joaquim; Almeida, Henrique; Silva, Elisabete; Matos, Liliana

**Optimization of a co-culture of *Staphylococcus aureus* and human osteoblasts as an in vitro model for bone-associated infections**

Gomes, João N.; Gomes, Pedro S.; Fernandes, Maria H.; Grenho, Liliana

**Development of intranasal carbamazepine-loaded nanostructured lipid carriers (NLC) to improve the treatment of epilepsy**

Azevedo, Lara; Costa, Cláudia P.; Sousa Lobo, José M.; Silva, Ana C. (troca direta com resumo de Health Sciences e-Poster III)

**Perirenal Adipose Tissue and Clear Cell Renal Cell Carcinoma – “The triad: macrophage-cancer cell-adipocyte”**

Rodrigues, R.; Fernandes, R.; Barbosa, C.; Pereira, F.; Matos, A.; Mendes, M.; Oliveira, MJ; Ribeiro, R.; Cruz, T.

**Potential of MicroRNAs in canine cardiac diseases**

Reis-Ferreira, Ana; Neto-Mendes, Joana; Brás-Silva, Carmen; Lobo, Luís Lima; Fontes-Sousa, Ana Patrícia

**PARALLEL ORAL SESSIONS X****Room A1 – Health Sciences X**

**New semisynthetic derivatives of thymol, eugenol, ginkgolic acid and 6-hydroxyflavanone with enhanced cytotoxic activity**

Olim, Pedro; Pereira, David M.; Pereira, Renato B.

**Type 2 diabetes and adverse childhood experiences (ACE) – a combination of the bad and the ugly**

Esteves, Bárbara; Neves, João S.; Soares, Raquel; Figueiredo-Braga, Margarida

**Ucns as biomarkers in cardiovascular disease**

Vasconcelos, I; Adão, R; Fontes-Sousa, AP; Brás-Silva, C

**Unravelling a Cancer Stem Cell Signature Associated with Breast Cancer Metastatic Organotropism**

Conde, Inês; Carvalho, Rita; Pinto, Marta T.; Mendes, Nuno; Ribeiro, Ana; Paredes, Joana

**UPVET animal cancer data: first evidence of retrieving data to the Vet-OncoNet platform**

Castro, A. Filipa; Pinello, K.; Leite-Martins, L.; Santos, A.; Matos, A.; Ribeiro, J.; Niza-Ribeiro, J.

**Weight variation and eating behavior: dietary restraint, intuitive and mindful eating and eating self-efficacy**

Rech, Francielle R. F.; Bedeschi, Lydiane B.; Poínhos, Rui

**Room A2 – Architecture VI**

**Vozes vivas of escola do porto: between contexts and experiences, ethics and aesthetics, in the consolidation of identity**

Cavaco, Margarida; Santos, André

**Vozes vivas of escola do porto: between stories and memories, architectural practice, in the consolidation of identity**

Capela, Ana; Santos, André

**Articulate the Dispersed**

Borges, Marta V., Lage, José

**Architecture: the Condition of Silence**

Araújo, Cláudia M.; Ribeiro, Hélder C.

**Room A3 – Sport Sciences III**

**Ball screen effectiveness in elite women's basketball**

Noivo, Ana; Amorim, Ana P.; Guimarães, Eduardo; Janeira, Manuel A.

**Comparison of offensive indicators between the six best classified teams in the National Handball Championship 1 – Group A 18/19**

Maroja, Gabriel.; Silva, José António.

**How does birth date affect the tactical performance of young football players? The inex project**

Almeida, Henning H.; Bagatin, Rafael T.; Fernandes, Ricardo J.; Barreira, Daniel

12:10 – 13:40

**Influence of maturation on tactical performance in soccer: the inex project**

Coelho, Matheus S.; Bagatin, Rafael T.; Fernandes, Ricardo J.; Abarghoueinejad, Maryam; Barreira, Daniel

**Intra-week variations and associations of internal and external load measures in a volleyball portuguese team**

Ramos, João

**Predictors of success in shooting velocity in youth water polo players**

Ramalheira, Miguel; Noronha, Francisco; Fernandes, Aléxia; Canossa, Sofia; Fernandes, Ricardo J.

**Static and Dynamic Balance in Urban Dancers: Effect of Years of Practice**

Magalhães, Ana; Costa, Jardel; Pereira, Miguel; Magalhães, Telmo; Vasconcelos, Olga; Rodrigues, Paula

**Room A4 - Physics II**

**From string theory to observational cosmology (M2 internship)**

Thomas RAVEAU

**H2 Solar: photoelectrochemical cells for photo water splitting**

Afonso Oliveira, Paula Quitério, C. Dias, Adélio Mendes, João P. Araújo, Célia. T. Sousa and Arlete Apolinário

**High Power Fiber Laser for Space Applications**

Maia, Fernando; Robalinho, Paulo; Frazão, Orlando

**Hybrid Flexible Thermoelectric Devices for Energy Harvesting**

João Magalhães; Ana L. Pires; Clara Pereira; Reyes Mallada; Maria P. Pina; André M. Pereira

**Liquid-based artificial synapses for neuromorphic computing**

Silva, Andreia; Dias, Catarina; Ventura, João

**Room A5 - Arts II**

**Fragmented Nudity: The Academic Nude within First Photography**

Taveira, David S. S.

**Plastic - The Downside of Ubiquity**

Moura, Joana

**The Presentational Form**

Bruna Pimentel Quintão

**Autographic ink reconstitution of a recipe from the 20th century portuguese workshop manuals**

Lima, Rafaela

**Potentialities of curatorial activation in ruined architectures: The Persistent Materialities project and its readings of the palimpsests of the Freixo Thermoelectric Power Station**

Duarte, Beatriz

**Room A6 – Health Sciences XI**

**“Food safety climate” and knowledge about food safety in food service units in Portugal**

Lopes, Clarisse; Oliveira, Beatriz; Poínhos, Rui; Vieira, Joana; Almeida, Beatriz; Lima, João; Rocha, Ada

**Adherence to the Mediterranean Dietary Pattern and associated factors among Portuguese adolescents**

Jorge, Inês; Poínhos, Rui; Rei, Mariana; Rodrigues, Sara

**Adherence to the Mediterranean Food Pattern and its relationships with energy and nutritional intake**

Ribeiro, Sílvia; Abreu, Tatiana; Rodrigues, Sara; Afonso, Cláudia; Oliveira, Bruno M. P. M.; Poínhos, Rui

**Characterization of lifestyles and anthropometric assessment of students from preschool to secondary education in a private education institution**

Guimarães, Maria E.; Teixeira, Beatriz; Poínhos, Rui; Afonso, Cláudia

**Characterize menus for students in public restaurants in the areas surrounding educational establishments**

Barracosa, Rita; Campos, Mariana; Ferreira, Mariana; Ramos, Sofia; Vieira, Érica; Afonso, Cláudia; Rocha Ada

**Evaluation of the outpatient parenteral antimicrobial therapy practice at the Local Health Unit of Matosinhos: methodology development and analysis of the first-year data**

Santos, António P.; Campos, Pedro; Mendes, Carla; Tomás, Amélia; Paiva, Cristina; Barbosa, Carlos M.

**PARALLEL ORAL SESSIONS XI****Room A1 – Health Sciences XII****The effect of mouthwashes on SARS-CoV-2 viral load: a systematic review**

Silva, António; Azevedo, Maria; Sampaio-Maia, Benedita; Pinto, Bernardo

**The effects of doxorubicin and mitoxantrone in the brain of adult mice**

Dias-Carvalho, Ana; Reis-Mendes, Ana; Duarte-Araújo, Margarida; Carvalho, Félix; Lourdes Bastos, Maria; Sá, Susana I.; Capela, João Paulo; Costa, Vera Marisa

**The impact of ionizing radiation on macrophage iron metabolism and on macrophage-cancer cell crosstalk**

Machado, A.B.; Oliveira, M.J.; Duarte, T.L.; Pinto, A.T.

**The indirect effects of mycobacterial infection in the bone metabolism**

Oliveira, Tiago C.; Gomes, Maria Salomé; Gomes, Ana C.

**The role of EV-mediated intercellular communication in cancer drug resistance**

Oliveira, Ana R.; Junqueira-Neto, Susana; Costa, José L.; Melo, Sónia A.; Machado, José C.

**The role of miR-146a in the pathophysiology of pulmonary arterial hypertension**

Rego, Beatriz; Mendes-Ferreira, Pedro; Adão, Rui; Maia-Rocha, Carolina; Santos-Gomes, Joana; Vasconcelos, Inês; Gandra, Inês; Vaz-Salvador, Pedro; Leite-Moreira, Adelino; Brás-Silva, Carmen

**Donating gametes to family and friends: the views of donors and recipients**

Tirsina, Alla; de Freitas, Cláudia; Silva, Susana

**Room A2 – Sport Sciences IV****Analysis of tennis players muscular balance and strength production on shoulder joint**

Brito, André V.; Carvalho, Diogo D.; Monteiro, Ana S.; Fonseca, Pedro; Fernandes, Ricardo J.

**Dynamic balance on different floors: study in gymnasts and swimmers**

A. Dores, T. Domingues, L. Ferreira, J. Gomes, J.P. Vilas-Boas, P. Fonseca, O. Vasconcelos, P. Rodrigues

**Effects of Different Warm-up Protocols on Motor Performance and Neuromuscular Function**

Gomes, Gonçalo S.; Conceição, Filipe A. V.; Vila-Chã, Carolina J. F.; Correia, Miguel V.

**Strength assessment of knee flexors and extensors by isokinetic dynamometer: a literature review**

Santos, Wallisson B.

**Tethered rowing test – preliminary data**

Cardoso, R.; Ferreira, M.; Gomes, Beatriz B.; Abraldes, J. A.; Vilas-Boas, J. P.; Soares, S.; Fernandes, R. J.

**Training program application and its effects on Force-Velocity profile and interference on front tuck execution in elite acrobatic gymnasts during a special transition period followed by a specific preparation and a pre-competitive period**

Leite, Isaura; Conceição, Filipe; Ávila-Carvalho, Lurdes

**Veering during front crawl tethered swimming**

Cavaleiro, Beatriz; Jaszczak, Marcin; Cardoso, Filipa; Fernandes, Alexia; Vilas-Boas, João Paulo; Fernandes, Ricardo J.; Soares, Susana

14:30 – 16:00

### **Room A3 – Literary Studies**

**“Wheels Within Wheels”: Finding a Centre Through Memory, Art and Religion in Evelyn Waugh’s “Sword of Honour”**

Anjos, Ana Catarina

**Representations of Women in Contemporary Anglophone War Fiction: The Portrayal of Female Characters as Victims of Conflict and/or Agents of Their Own Destinies**

Barbosa, Luísa B. L.

**The Curse of Manhood: Why Male Bashing Is Not The Solution**

Acheampong Kelvin

**An Anthropophagic ‘Commedia’: Poetry and Revolution in Oswald de Andrade’s ‘A morta’**

Figueiredo, Luísa

**Eurico, the Presbyter by Alexandre Herculano and The Seminarian by Bernardo Guimarães: the death in the enclosed space**

Sousa, Pétala

### **Room A4 – Health Sciences XIII**

**Healthy lifestyles in the employees of a city hall: Covid-19 Impact**

Oswaldo Saraiva; Antónia Ferreira; Beatriz Teixeira; Cláudia Afonso

**Reproducibility and Validity of the KIDMED Index in a sample of Portuguese adolescents**

Rei, M.; Severo, M.; Rodrigues, S

**Socioeconomic and lifestyle factors associated to Mediterranean Food Pattern**

Pereira, Catarina; Lopes, Diana; Pinto, Helena; Pinto, João; students from the 1st year of Nutritional Sciences Degree of FCNAUP in 2020/2021; Poinhos, Rui; Oliveira, Bruno M. P. M.; Rodrigues, Sara; Afonso, Cláudia

**Sugar sweetened beverages and alcohol consumption frequency among University of Porto students**

Azevedo, Rui; Silva, Tiago; Students from 3rd year of Nutritional Sciences Degree of FCNAUP 2019/20; Pereira, Bárbara; Morais, Cecília; de Almeida, M. D. V.; Poinhos, Rui; Oliveira, Bruno M. P. M.

**Vulnerability and strengths during COVID pandemic – a study on University of Porto student’s psychological state**

Tavares de Almeida, Sofia; Moura, Diana; Figueiredo-Braga, Margarida

### **Room A5 – Historic & Sociocultural Studies II**

**The concept of action: a review of Donald Davidson’s definition**

Ramos, Luís C. V.

**Vision or Visual Perception**

Maia, Maria

**Urban Art in the City of Porto: WebGIS for dissemination and understanding urban dynamics**

Figueira, E

**PARALLEL e-POSTER SESSIONS VI****Room A1 – Biological Sciences e-Poster V****Validation of a behavioural task to assess memory in adult zebrafish**

Barros, Sofia; Ferreira, Jorge M.; Valentim, Ana M.

**Epigenetics in the Brain: A Study in a Rat Model of Neuropathic Pain**

Rodrigues, Diogo R.; Cardoso-Cruz, Hélder; Galhardo, Vasco; Monteiro, Clara

**Modulatory effect of Metformin on AMPK/Sirt1/PGC-1 $\alpha$ /Sirt3 pathway in the heart of mouse model of endometriosis**

Felgueiras, R; Neto, AC; Rodrigues, AR; Gouveia, AM; Almeida, H; Neves, D

**Translational medicine in Human Genetics: you need to know the basics!**

Silva, Tiago; Freitas, Manuela M.; Chaves, Raquel; Candeias, Cristina; Teles, Natália O.

**The Amphipod Ecdysone Receptor: In vitro identification of Endocrine disrupting chemicals**

Sousa, J.P.; Neuparth, Teresa; Castro, L. Filipe C.; Santos, Miguel M.; Ruivo, Raquel

**The USE non-coding sequence: on the function and therapeutic applications**

Moutinho, Ana; Eufrásio, Ana; Bessa, José; Pereira-Castro, Isabel; Moreira, Alexandra

**Searching for mitochondrial targets of the ubiquitin ligase APC/C-Cdh1**

Barbedo, Maria; Leite, Ana Cláudia; Costa, Vítor; Pereira, Clara

**Identification of regulatory kinases of the FoF1 ATP synthase beta subunit**

Campos, Ana; Costa, Vítor; Pereira, Clara

**Functional characterization of anti-CSP monovalent fragment antigen binding (Fab)**

Santos, Sofia; Teixeira, Ana; Pérez-Cabezas, Begoña; Tavares, Joana

**Exploring the role of  $\beta$ 2-adrenergic signaling pathway in Breast cancer Bone metastasis**

Tojal, Sofia; Conceição, Francisco; Fonseca, Ana Lúcia; Lamghari, Meriem; Sousa, Daniela

**Room A2 – Arts e-Poster****Augmented Reality Applied to Editorial Projects**

Rocha, David; Amado, Pedro

**Spatial restrictions in the interpretation of the artistic object**

Bandeira Duarte, Manuel J.

**The Influence of Modernism in Type Design for Signage: Development of Kobalt (Typeface) and Signage for Oficina Cobalto**

Lima, M. Teresa

**Paola Paredes: An analysis of some objects photographed in the project Hasta que Cambies**

Miranda, Beatriz

**S. Sebastiano's bailado clothed by the artistic versatility of Mily Possoz**

Miranda, Beatriz

**Room A3 – Health Sciences e-Poster IX****Integrated in silico approach for the development of a new antipsychotic drug candidate to treat schizophrenia**

Andrade, Rodrigo; Marinho, Elina; Iglesias, Alba; Brea, Jose; Castro, Marián; Paz, Filipe A. Almeida; Areias, Filipe M.; Sousa, Sérgio F.; Loza, Maria I.; Proença, M. Fernanda

**Interleukin-1 manipulation by Mycobacterium tuberculosis: impact to the infection establishment and progression**

Gonçalves, Rute; Silvério, Diogo; Maceiras, Ana R.; Cá, Baltazar; Rocha, Deisy; Saraiva, Margarida

**Meals nutritional composition: Reducing the gap between experimental and theoretical values**

Ribeiro, Mafalda; Silva, Marta; Viegas, Olga; Martins, Zita E.; Faria, Miguel A; Casal, Susana; Mendes, Eulalia; Pinto, Edgar; Ferreira, Isabel M.P.L.V.O.

**Metformin effect in ectopic endometrium histological features in a mice-model of endometriosis**

Botelho M; Rodrigues AR; Gouveia AM; Almeida H; Neves D; Neto AC

**Minerals in olive pomace and relevance for human health and well being**

La Rocca, Alida; Robustelli Della Cuna, Francesco S.; Nunes, M. Antónia; Almeida, Agostinho; Oliveira, M. Beatriz P.P.

**Mitochondria and antioxidants: the silent toll of childhood obesity to hepatic function**

Ferreira B.; Rato L.; Oliveira PF; Crisóstomo L.; Alves M.G

**Neuroinflammatory response in the hippocampal formation of dams induced by gestational diabetes**

Campelo, Inês; Cardoso, Armando; Silva, Susana Maria

**Neuroprotective properties of coffee: an update**

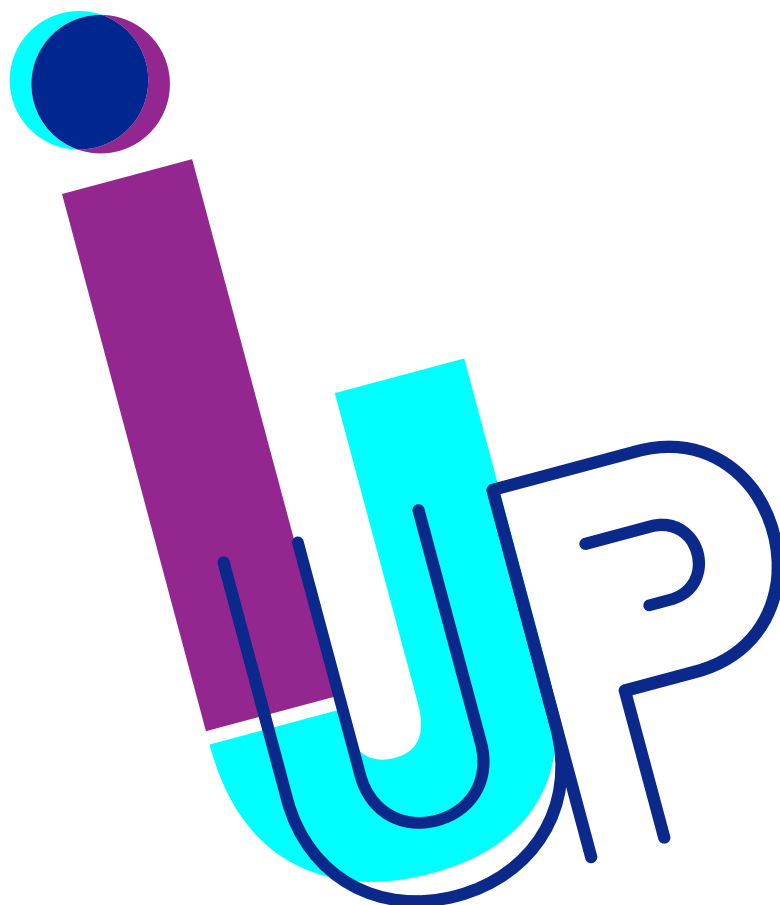
Carneiro, Sofia M.; Oliveira, M. Beatriz P. P.; Alves, Rita C.

**NRF2 knockdown as a mean to sensitize Glioblastoma Neurospheres to UVA Radiation**

Cesário, Rute; Godoy, Paulo R. D. V.; Haghdoost, Siamak; Sangsuwan, Traimate







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