

List of Poster Communications

(PC1) Plasmonic Supercrystals for SERS detection

García-Lojo D, Gómez-Graña S, Pastoriza-Santos I, Pérez-Juste J.

Dpto. de Química Física y Centro Singular de Investigaciones Biomédicas (CINBIO), Universidade de Vigo, Vigo, Spain.

(PC2) Plasmonic nanocapsules as SERS tags for multiplex detection

Rodal-Cedeira S¹, Vázquez-Arias A¹, Bodelón G¹, Laporta A², Nuñez-Sánchez S¹, Polavarapu L³, Bals S², Liz-Marzán LM^{4,5,6}, Pérez-Juste J¹, Pastoriza-Santos I¹

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(PC3) A new seeded growth methodology based on Iron (II) for the synthesis of noble metal nanoparticles

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1. Departamento de Química Física y CINBIO, Universidade de Vigo, Vigo, Spain; 2. Bioscope Group. LAQV@REQUIMTE. Chemistry Department. Faculty of Science and Technology, Lisbon, Portugal.

(PC4) New SERS-based method for multiplex detection of phenol derivatives

Carreira-Casais A, Montes-García V, Pastoriza-Santos I, Pérez-Juste J

Universidade de Vigo, Vigo, Spain

(PC5) SERS phenotyping of single cancer cells in microdroplets

Oliveira K^{1,2}, Teixeira A¹, Lopes C^{1,3}, Piairo P^{1,4}, Abalde-Cela S¹, Diéguez L¹

1. International Iberian Nanotechnology Laboratory (INL), Braga, Portugal. 2. Universidade Nova de Lisboa, Campus da Caparica, Portugal. 3. Department of Physics and Department of Biology, University of Minho, Campus de Gualtar, Braga, Portugal. 4. Instituto de Medicina Molecular, Faculdade de Medicina, Universidade de Lisboa, Lisbon, Portugal

(PC6) Changes in lung transcriptomic profile driven by a novel tuberculosis nanovaccine

Martínez-Pérez A¹, Ana Igea A¹, Estévez-Martínez O¹, M Ferreira C², Reljic R³, Singh M⁴, G Castro A², Torrado E², González-Fernández A¹

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(PC7) *Shaping multicomponent iron oxide nanocrystals for magnetic separation applications*

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1. Departamento de Física Aplicada, Universidade de Vigo, Spain. 2. CACTI, Universidade de Vigo, Spain

(PC8) *Magnetic manipulation of artificial swimmers for potential intracellular applications*

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(PC9) *Multiple testing procedures for discrete uniform and homogeneous tests with application to genomics*

Soage JC^{1,2}, Cousido-Rocha M^{1,2}, de Uña-Álvarez J^{1,2}, Döhler S³

1. SIDOR Research Group, University of Vigo, Spain 2. University of Vigo, Spain 3. University of Applied Sciences Darmstadt, Germany

(PC10) *New quantitative method for image analysis of haematoxylin and eosin (HE) gonads histological slides*

Campoy-López P., de la Torre E, Mantilla-Aldana L, Beiras R

University of Vigo, Vigo, Spain

(PC11) *Classification of cardiac abnormalities in ECGs: wave delineation and generalized additive models*

Mondelo V¹, Roca-Pardiñas J², Lado MJ¹, Méndez AJ¹

1. Department of Computer Science, ESEI, University of Vigo, Spain. 2. Department of Statistics and Operational Research, University of Vigo, Spain

(PC12) *Construction of percentile curves of the Galician child population*

Arias Vázquez M¹, Santiago Pérez M^{1,2}, Iglesias Pérez MC³

1. Master técnicas estadísticas e investigación operativa (USC), Santiago de Compostela, Spain. 2. Servicio de epidemiología de la consellería de sanidad. 3. Universidade de Vigo, Vigo, Spain.

(PC13) *Rare ABCC8 variants identified in Spanish pulmonary arterial hypertension patients*

Lago-Docampo M¹, Tenorio J², Pérez-Olivares C³, González-Hernández I⁴, Escribano-Subías P⁵, Pousada G⁶, Baloira A⁷, Arenas M⁸, Lapunzina P⁹, Valverde D¹

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Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV), Instituto de Salud Carlos III, Madrid, Spain. 9. Servicio de Neumología, Complejo Hospitalario de Pontevedra, Pontevedra, Spain.

(PC14) Role of subchondral Mesenchymal Stromal Cells in the osteoarthritis pathogenesis

Sanjurjo-Rodríguez C^{1,2,3}, Crossland R², Baboolal T^{3,4}, Reis M^{2,5}, Burska A³, Ponchel F³, El-Jawhari J³, Pandit H^{3,4}, McGonagle D^{3,4}, Wang X², Jones E³

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(PC15) Corneal cryopreservation: and endothelial cell viability and histomorphological study of cornea

Rodríguez-Fernández S^{1,5}, Álvarez-Portela M², Rendal-Vázquez E³, Montero-Salinas A⁴, Piñeiro-Ramil M^{1,5}, Castro-Viñuelas R^{1,5}, de Rojas MV², Sánchez-Ibáñez J³, Fuentes-Boquete IM^{1,5}, Díaz-Prado S^{1,5}

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(PC16) A new model to estimate covariate dependent bivariate reference regions for two laboratory tests. The case of fasting plasma glucose and glycated haemoglobin

Lado-Baleato O¹, Roca-Pardiñas J², Cadarso-Suárez C¹, Gude F³

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(PC17) Proteomics in Schizophrenia: a Gateway to Discover Potential Biomarkers of Psychoneuroimmune Pathways

Rodrigues-Amorim D¹, Rivera-Baltanás T¹, Rodríguez-Jamardo C¹, Vallejo-Curto MC¹, de las Heras E¹, Caballero A^{1,2}, Olivares JM¹, Spuch C¹

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(PC18) Bioinformatics Docker Images

Ferreira P^{1,2}, López-Fernández H^{3,4,5}, Duque P^{1,2}, Vieira CP^{1,2}, Fdez-Riverola F^{3,4,5}, Reboiro-Jato M^{3,4,5}, Vieira J.^{1,2}

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(PC19) Analysis of endothelin-1 (EDN-1) UTR regions

Solarat C¹, Lago-Docampo M^{1,2,3}, Baloira A⁴, Valverde D^{1,2,3}

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(PC20) Characterization of a CRISPR-Cas9 cellular model to Alström Syndrome

Bea-Mascato B^{1,2,3}, Neira-Goyanes E¹, Valverde-Pérez D^{1,2,3}

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(PC21) Estimating molecular adaptation in protein-coding sequences accounting for heterogeneous codon frequencies among sites

Del Amparo R, Vicens A, Arenas M
University of Vigo, Vigo, Spain.

(PC22) Mastocarpus stellatus red seaweed as a promising source of healthy compounds

Torres MD, Flórez-Fernández N, Domínguez H

Department of Chemical Engineering, University of Vigo (Campus Ourense), Polytechnical Building, Ourense, Spain

(PC23) Validation of a microfluidic device for the isolation and characterization of circulating tumor cells towards cancer progression monitoring in metastatic breast cancer

Lopes C^{1,2}, Piairo P^{1,3}, Corredeira P³, Costa L³, Diéguez L¹

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(PC24) 3D microsystem with integrated microelectrodes for monitoring cellular metabolic activity

Conceição P, Kant K, Dieguez, L.

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(PC25) Nanoparticles as a drug delivery system using fucoïdan extract

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1. Centre for Marine Sciences, Faculty of Sciences and Technology, University of Algarve, Faro, Portugal. 2. Department of Chemical Engineering, University of Vigo (Campus Ourense), Polytechnical Building, Ourense, Spain.

(PC26) Shotgun proteomics and schizophrenia: in the search of protein biomarkers in blood

Pardo-Piñón M⁶, Mateos Martín J², Penedo Fernández-Bujarrabal MA³, Rivera-Baltanás T^{4, 5}, Rodrigues-Amorim D⁶, Vallejo-Curto MC⁶, Martínez Reglero C⁷, Balboa Beltrán E¹, Barreiro Villar C¹, Fernández Palleiro P¹, Val Varela V¹, Patiño Álvarez LC¹, Spuch C¹, Olivares Díez JM¹, Carrera Mouriño M¹, Agís-Balboa RC¹

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(PC27) Metallic implants with higher concentrations of Manganese than Titanium and Cobalt could reduce Infection rates in Orthopaedic Surgery

Aveledo R¹, Aveledo A¹, Lago N², M Mato M¹, Legido JL¹

1. Department of Applied Physics, University of Vigo, Vigo, Spain. 2. Pharmacy Service, Alvaro Cunqueiro Hospital, Vigo, Spain.

(PC28) Detection of recent signatures of selection between three strains of Nile tilapia (*Oreochromis niloticus*) by whole genome sequencing

Cádiz MI¹, López ME², Díaz-Domínguez D³, Cáceres G¹, Yoshida G¹, Yáñez JM¹

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(PC29) Beneficial uses of tea branches remains

Sanz V, Domínguez H, Torres MD

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(PC30) Improving cancer diagnosis and prognosis by identifying tumours with high rates of somatic retrotransposition

Brea-Iglesias J, Rodriguez-Martin B, Juaneda-Magdalenalena L, MC Tubio J, Martínez-Fernández M Genomes and Disease Lab. CiMUS (Center for Research in Molecular Medicine and Chronic Diseases). University of Santiago de Compostela (Spain)

(PC31) Influence of the last glacial period and admixture on genetic gradients of current Asians

Branco C^{1,2}, Arenas M^{1,2}

1. Department of Biochemistry, Genetics and Immunology, University of Vigo, Vigo, Spain 2. Biomedical Research Center (CINBIO), University of Vigo, Vigo, Spain.

(PC32) *Detection of resistance mutations in NSCLC by NGS using liquid biopsy*

Oitabén A¹, Prado-López S^{1,2}, Tomás L¹, Huidobro G³, Posada D^{1,2}

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(PC33) *BL-1249 induces a clear hyperpolarization and a TREK-like current in mouse sympathetic neurons*

Campos-Ríos A, Herrera-Pérez S, Rueda-Ruzafa L, Rodríguez-Piñeiro A, Lamas JA

University of Vigo, Vigo, Spain.

(PC34) *Biological properties of gold and silver nanoparticles from green synthesis*

González-Ballesteros N^{*1}, Diego-González L^{*2}, Simón-Vázquez R², Lastra-Valdor M³, Rodríguez-Argüelles MC¹

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(PC35) *New researchers of peloids for therapeutic uses*

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(PC36) *Bootstrap-based methods for testing linear combinations of proportions. Application to real data of the Flemish Cap Bank*

Álvarez Hernández M¹, Roca-Pardiñas J², González-Troncoso D³

1. Centro Universitario de la Defensa, ENM, University of Vigo, Spain. 2. University of Vigo, Spain. 3. Centro Oceanográfico de Vigo (IEO), Spain.

(PC37) *Plasmonic nanoparticles@MOF hybrids as SERS-tags for biodetection*

De Marchi Lourenço S, Bodelón G, Vázquez-Iglesias L, Pérez-Juste J, Pastoriza-Santos I

Department of Physical Chemistry and Biomedical Research Centre (CINBIO), Universidad de Vigo, Vigo, Spain.

(PC38) *Identification of a putative metastasis-related gene in a preclinical breast cancer model*

Martínez Pena I, Hurtado Blanco P, Pereira Veiga T, Abuín Redondo C, Costa Nogueira C, López López R, Piñeiro Cid R

Roche-CHUS Joint Unit. Translational Medical Oncology Group, Oncomet. Health Research Institute of Santiago de Compostela, Spain.

(PC39) Disseminated CTC-clusters have greater survival in zebrafish xenograft compared with single CTCs

Hurtado Blanco P¹, Martínez Pena I¹, Abuín Redondo C¹, Sánchez Piñón L², López López R^{1,3}, Piñeiro Cid R¹
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(PC40) Crude fucoïdan fractions with cytotoxic properties

Florez-Fernández N^{1,2}, Torres MD², Domínguez H²
 1. University of Algarve, Portugal. 2. University of Vigo, Spain.

(PC41) Novel Fe₃O₄@Al(OH)₃ nanostructures for dual modal PET/MRI imaging

González-Gómez MA, Yáñez-Vilar S, Piñeiro Y, Rivas J
 University of Santiago de Compostela, Santiago de Compostela, Spain.

(PC42) Biocompatible matrices for transdermal drug delivery applications

Puig J^{1,2}, González-Gómez MA¹, Yáñez-Vilar S¹, Piñeiro Y¹, Hoppe CE², Rivas J¹
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(PC43) Multifunctional silica magnetic nanoparticles for magnetic uptake and cell separation applications

Seco-Gudiña R^{1,2}, González-Gómez MA¹, Yáñez-Vilar S¹, Piñeiro Y¹, de la Fuente M², López-López R², Rivas J¹
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(PC44) Detection of TiO₂ nanoparticles by their photocatalytic activity

Tiryaki E^{1,2,3}, Pérez-Lorenzo M^{1,2,3}, Correa-Duarte MA^{1,2,3}
 1. Department of Physical Chemistry, Center for Biomedical Research (CINBIO). 2. Southern Galicia Institute of Health Research (IISGS). 3. Biomedical Research Networking Center for Mental Health (CIBERSAM), Universidade de Vigo, Vigo, Spain

(PC45) Multifunctionalized silica magnetic nanoparticles for biomedical applications

García Acevedo P, González Gomez M, Yanez Vilar S, Piñeiro Y, Rivas J
 University of Santiago de Compostela, Santiago de Compostela, Spain.

(PC46) Synthesis and characterization of superparamagnetic Photonic Crystals

Arnosa-Prieto A¹, Sánchez-Andújar M¹, Castro-García S¹, Rivas J²
 1. University of A Coruña, Spain. 2. University of Santiago de Compostela, Spain

(PC47) *Viral mimetic assemblies: novel nanostructures for drug delivery*

Marín-Caba L¹, Iturrioz-González N², Charrou PL³, Steinmetz NF³, Fanarraga ML², Correa-Duarte MA¹

1. University of Vigo, Spain . 2. University of Cantabria, Spain. 3. University of California-San Diego, USA

(PC48) *A SERS based 3D hybrid biosensor for lactate detection and monitoring*

Abalde-Cela S¹, Rebelo R^{2,3}, Wu L¹, Barbosa AI^{2,3}, Rodríguez-Lorenzo L¹, Kant K¹, Reis RL^{2,3,4}, Correlo VM^{2,3,4}, Diéguez L¹

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(PC49) *Analysis of the stability of ternary mixtures of parenteral nutrition with viscosity measures carried out different days after its elaboration*

Otero Millán L¹, Lago Rivero N¹, Piñeiro Corrales G¹, Legido Soto JL²

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(PC50) *MCM-41 silica nanoparticles for biological applications*

Piñeiro-Redondo Y, Yáñez-Vilar S, Rivas J

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(PC51) *Bioactive mesoporous nano-size fillers as dielectric biosimilar restorative materials*

Yáñez-Vilar S¹, Rivas B², Vargas-Osorio Z¹, Piñeiro-Redondo Y¹, Rivas J¹

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(PC52) *New index based in anthropometric parameters for the assessments of muscle mass and strength in football players in development*

Martínez J¹, Moreira C^{1,2}, Simón S¹, Quinteiro S¹, Mallo F^{1,3}

1. Biomedical Research Centre (CINBIO), University of Vigo, Spain. 2. Universidade do Minho, Braga, Portugal. 3. University of Vigo, Vigo, Spain.

(PC53) *Liraglutide modulates the expression of fibrotic indicators in a model of metabolic liver alteration*

Quinteiro S, Toba L, Diz-Chaves Y, Simón S, Martínez J, González Matías L, Mallo F

Biomedical Research Centre, University of Vigo, Vigo, Spain.

(PC54) *Gelatin magnetic nanobeads for biomedical applications*

Teijeiro-Valiño C, González-Gómez MA, Yáñez-Vilar S, Piñeiro Y, Rivas J
NANOMAG Laboratory, University of Santiago de Compostela, Spain.

(PC55) *Optimization of a histological technique to detect fatty liver*

Rodríguez Alleres G, Rial Otero R, Quinteiro S, Toba L, Diz Chavez Y, Mallo F, Tebar A
Biomedical Research Centre - CINBIO, University of Vigo, Spain

(PC56) *Liraglutide prevents the mitochondrial alteration in hippocampus of pups from food restricted mothers*

Simón S, Martínez J, Quinteiro S, Toba L, González-Matías L, Mallo F, Diz Y
Biomedical Research Centre - CINBIO, University of Vigo, Spain.

(PC57) *Synthesis and characterization of hybrid inorganic-excitonic core-shell nanoparticles with plasmon-like properties*

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(PC58) *RADAR: R package for RNA-Seq experiment design and analysis*

Mendoza M, Canchaya CA
Biomedical Research Centre – CINBIO, University of Vigo, Spain.

(PC59) *The role of physical activity on healthy brain aging using a wearable device to measure and quantify free-living physical activity*

Domingos C, Pêgo JM, Santos NC
Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, Braga, Portugal; ICVS/3B's, PT Government Associate Laboratory, Braga/Guimarães, Portugal

(PC60) *RKIP protein as a novel predictor of EGFR targeted therapies in lung cancer*

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