

Research Line

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[TONI GABALDON](#)



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[MEDEWSA: Mediterranean and pan-European forecast and Early Warning System against natural hazards](#)

[ALBERT SORET](#)



Natural hazards, such as extreme weather events, are exacerbated by climate change. As a result, emergency responses are becoming more protracted, expensive, frequent, and stretching limited available resources. This is especially apparent in rapidly warming regions. MedEWSa addresses these challenges by providing novel solutions to ensure timely, precise, and actionable...

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[AVISA: Visió Artificial per donar suport a la informació en el sector agrícola](#)
[EDUARDO QUINONES MORENO](#)



Hi ha un consens compartit en el sector agrícola sobre la importància que tindrà l'agricultura de precisió com a eina imprescindible per la millora de la productivitat. L'agricultura de precisió es basa en d'eines d'anàlisis computacionals per optimitzar l'ús de recursos agrícoles, aplicant-los en aquelles parts d...

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[deCYPhar: Decipher CYPs by digital tools to functionalise plant metabolites](#)
[ALFONSO VALENCIA](#)



Microbial production of plant metabolites has economic & environmental benefits over traditional extraction and chemical methods. Despite initial progress & the successful market introduction of some molecules, the microbial production of oxygenated plant metabolites (OPMs) mediated by cytochrome P450 enzymes (CYPs) is still lagging, making them almost inaccessible to...

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[MLALH: MACHINE-LEARNING-DRIVEN BOTTOM-UP DESIGN OF ATOMICALLY-LAYERED HETEROSTRUCTURES FOR GREEN H₂ PRODUCTION, HA SIDO PROPUESTA PARA FINANCIACIÓN](#)
JOSE JULIO GUTIERREZ MORENO



The field of catalytic green hydrogen production, although indispensable for the transition to a renewable future, still suffers from widespread irreproducibility of results that limits its full commercialisation. The largest obstacle lies in the methods widely employed in synthesising the active catalysts, which impede unambiguously identifying the property-structure...

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[MultiSeq: A novel computational method for multiplexing Next-Generation Sequencing](#)
[TONI GABALDON](#)



The recent advances in Next-Generation Sequencing (NGS) of nucleic acids (i.e. DNA or RNA) have transformed biology and medicine. Today, NGS is one of the main pillars of research in various biological disciplines and it has already pervaded numerous fields of applications ranging from the clinics to the biotechnological industry. Given its versatility and high demand, the...

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[Inno4Scale: Innovative Algorithms for Applications on European Exascale Supercomputers](#) [ORIOl PINEDA MARTINEZ](#)



New architectures for Exascale and post-Exascale computers will have massively parallel and heterogeneous processing capabilities that will require the complete redesign and reimplementaion of the used algorithms to fully exploit the possibilities of these supercomputers. The objective of the Inno4scale project is to promote the efficient use of European HPC systems by...

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[sc2CancerMods - Sello Excelencia - Gonzalo Parra: From single cell multi-omics data to personalised patient cancer models](#)

[RODRIGO GONZALO PARRA](#)



Cancer is one of the leading causes for disease and death in Europe with millions of people being diagnosed or dying because of it. In addition, billions of euros need to be injected into the system to fight these diseases. Cancer tumours are extremely heterogeneous entities with complex subclonal structures that interact with normal cells surrounding them. This complexity...

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[NEXTBAT: Next generation technologies for battery systems in transport electrification based on novel design approach](#)

[DAVID MODESTO](#)



The transport sector represents around 25% of all EU CO₂ emissions. To face this challenge, the NEXTBAT consortium, involving 12 partners from 6 different EU countries and 1 Associated Partner from Switzerland, will provide a new framework for standardization of the next generation of battery system design that will contribute to speed up a safe and sustainable...

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[RES-ICTS: Red Española de Supercomputación \(RES\)](#)

MATEO VALERO CORTES



La Red Española de Supercomputación (RES) es una ICTS distribuida perteneciente al mapa de ICTS cuya actualización fue aprobada el 7 de octubre de 2014 por el Consejo de Política Científica, Tecnológica y de Innovación, como estructura y foro permanente de coordinación de las estrategias de supercomputación, las...

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