



***Scientific Program***  
***IV Bienal GERMN / I Reunión Ibérica de RMN***

**SUNDAY 21<sup>st</sup> SEPTEMBER**

17:00 REGISTRATION  
20:30 Welcome reception

**MONDAY 22<sup>nd</sup> SEPTEMBER**

8:45 Opening Ceremony

**Session I** Chair (Miquel Pons)

9:15 **PL-1 Marc Baldus**  
*Studying protein function and disease by high-resolution solid-state NMR*

10:00 **IL-1 Nico van Nuland**  
*Multiplicity in ligand binding: The SH3 domains of CD2AP*

10:30 **OC-1 Leoncio Garrido**  
*In situ stray-field MRI of levitating diamagnetic samples*

10:45 Coffee

**Session II** Chair (Marta Bruix)

11:15 **IL-2 F. Javier Cañada**  
*Carbohydrate-Protein interactions by NMR*

11:45 **IL-3 Irene Diaz Moreno**  
*The structure of the two central domains of KSRP reveals a fragmented RNA binding surface*

12:15 **IL-4 Victoria Gómez**  
*Nanoliter NMR spectroscopy in a microfluidic CHIP*

12:45 **OC-2 Sofia Pauleta**  
*NMR Solution Structure of the Desulfovibrio gigas Orange Protein*

13:00 **OC-3 David Pantoja Uceda**  
*Pseudo 4D B-carbon edited NMR experiments for simultaneous amino acid type identification and sequential assignment of proteins*

13:15 **OC-4 Estela M Sánchez**  
*Nuclear magnetic resonance spectroscopy-based classification of high taste quality tomatoes from Almería*

13:30 Lunch

15:00 **Poster Session**



**Session III** Chair (Eurico Cabrita)

- 16:00 **IL-5 Ricardo Louro**  
*Functional characterization of multiheme cytochromes by NMR*
- 16:30 **IL-6 Christina Thiele**  
*Structure Determination of Organic Molecules Using Residual Dipolar Couplings*
- 17:00 **IL-7 Antonio H Daranas**  
*Bioactive polyether metabolites from dinoflagellates*
- 17:30 **OC-5 Ignacio Fernández**  
*New Mixed Ligand Iron(II) Phthaloyanine Complexes as Chemical Sensors: An Excursion into Multinuclear NMR*
- 17:45 **OC-6 Leonor Morgado**  
*NMR structure and dynamics of a triheme cytochrome from Geobacter Sulfurreducens*
- 18:00 Coffee
- 18:30 **Parallel Discussion Panels**  
**NMR General Services** (Chair: J. Fuentes Mota)  
**Metabolomics** (Chair: A. Pineda-Lucena)
- 19:45 **Visit and Reception. Central Facilities of the Seville University (CITIUS)**

**TUESDAY 23 SEPTEMBER**

**Session IV** Chair (Jesús Jiménez-Barbero)

- 9:00 **PL-2 Malcolm Levitt**  
*Nuclear Singlet States in Solution NMR*
- 9:45 **IL-8 Armando Navarro**  
*A general toolkit for computation of NMR properties: development and applications*
- 10:15 **IL-9 Ignacio Alfonso**  
*Nuclear Magnetic Resonance as a powerful tool for studying the Supramolecular Chemistry of amino acid-containing synthetic macrocycles*
- 10:45 **OC-7 Tiago N Cordeiro**  
*Paramagnetic relaxation-based structural characterization of HHA-H-NS interaction*
- 11:00 Coffee



### Session V Chair (Fernando López-Ortiz)

- 11:30 **IL-10 M<sup>a</sup> Dolores Guillén**  
*Usefulness of the <sup>1</sup>H nuclear magnetic resonance in the characterization of edible oils and fats and in the study of their degradation processes*
- 12:00 **IL-11 Irene Gómez Pinto**  
*Screening for small molecules interacting with telomerase RNA by NMR*
- 12:30 **IL-12 Esteban Urriolabeitia**  
*NMR in organometallic compounds: characterization of CH and CP bond activation processes on phosphorus ylides*
- 13:00 **OC-8 David A MacIntyre**  
*<sup>1</sup>H-NMR metabolic profiling of the in vitro hypoxic response of H9 human embryonic stem cells*
- 13:15 **OC-9 Manuel Sánchez-Sánchez**  
*Multinuclear solid-state NMR studies of the interactions involved in the CHCLF<sub>2</sub> adsorption over basic faujasite-type zeolites*
- 13:30 Lunch
- 15:00 **Poster Session**

### Session VI Chair (Jorge Santoro)

- 16:00 **IL-13 Pau Bernadó**  
*The structure of unstructured proteins: a multidisciplinary approach*
- 16:30 **IL-14 Frank Engelke**  
*Developments in DNP NMR instrumentation*
- 17:00 **OC-10 Eva de Alba**  
*PYRIN and CARD domains of the apoptosis-associated protein ASC: Structure and interdomain mobility*
- 17:15 **OC-11 J. Félix Espinosa**  
*Satellite-selective 1D TOCSY experiments for measuring long-range <sup>1</sup>H-<sup>13</sup>C coupling constants and two-bond <sup>13</sup>C isotopic effects on proton chemical shifts*
- 17:30 Coffee

### Session VII Chair (Oscar Millet)

- 18:00 **IL-15 Ildefonso Marín Montesinos**  
*Heteronuclear decoupling interference during symmetry-based homonuclear recoupling*
- 18:30 **IL-16 Dimitris Argyropoulos**  
*A new approach to NMR: The OneNMR™ probe.*
- 19:00 **OC-12 J. Miguel López del Amo**  
*NMR determination of backbone <sup>15</sup>N relaxation times and H-D isotope effects in a perdeuterated sample of the temperature stable protein GB1 in the solid state*



- 19:15      **OC-13    Catarina M. Paquete**  
*Probing the structure and function of CYMA, a key protein of Shewanella Oneidensis by NMR and EPR*
- 19:30      **General Meeting GERMN**
- 21:00      **Reales Alcázares. Visit and Cocktail**

## WEDNESDAY 24 SEPTEMBER

### Session VIII *Chair (Carlos Geraldés)*

- 9:00      **PL3        Burkhard Luy**  
*The Measurement of Residual Dipolar Couplings in Most NMR Solvents Using Gel-Induced Alignment*
- 9:45      **IL-17      Paloma Ballesteros**  
*MRI contrast agents: from pH detection to anisotropic relaxivity*
- 10:15     **OC-14      Beatriz Jiménez**  
*Dynamics Characterization of Tah1- a TPR Protein Interacting with HSP90*
- 10:30     **OC-15      Manolis Matzapetakis**  
*NMR Solution Structure Determination of a Psychrophilic Thiol-Disulfide Oxidoreductase*
- 10:45     **OC-16      J. Francisco Correa**  
*Paramagnetic NMR relaxation effects in polymers: sensitivity enhancement and selective suppression of signals ( $^1\text{H}$  and  $^{13}\text{C}$  PSR FILTER)"*
- 11:00     **OC-17      M. Flor García Mayoral**  
*Identification of new RNA targets for KSRP by the scaffold independent analysis of the specificities of its KH domains*
- 11:15     Coffee

### Session IX *Chair (Manuel Rico)*

- 11:45     **IL-18      Brian Goodfellow**  
*Structural studies of the SOUL/HBP family of HEME binding proteins*
- 12:15     **IL-19      Steven P. Brown**  
*Probing Hydrogen Bonding by Solid-State NMR*
- 12:45     **IL-20      Francisco J. Blanco**  
*Solid, liquid and semi-liquid state NMR studies on the structure of HIV-Rev protein free and bound to its target RNA*
- 13:15     **Prices and Closing**
- 13:45     Lunch