

9:00 - 9:05 Welcome by Evarist Feliu (President of the IJC Management Committee)

9:05 - 9:15 Introduction by chairs Lucas Pontel and Berta N. Vazquez (IJC)

9:15 - 10:00 **Alexis Roig**, Barcelona's Chief Science and Tech Envoy and CEO of SciTech DiploHub. "A Science and Technology Diplomacy for Barcelona"

### Session 1 - New ideas old questions

10:00 - 10:10 Introduction by chairs Valentina Sica and Jacob Smith (UPF)

10:10 - 10:20 **Nicolás Herranz Martín** (VHIO), Miguel Servet Researcher. "Leveraging therapy-induced senescence for cancer treatment"

10:20 - 10:30 **Gabriele Zaffagnini** (CRG), Senior Postdoctoral Researcher. "Why don't oocytes get Alzheimer's?"

10:30 - 10:40 **Zaida Álvarez** (IBEC), Senior Postdoctoral Researcher. "Paving the way for neural regeneration through rationally designed biomaterials"

10:40 - 10:50 **Marcos Francisco Perez** (IBMB), RYC Junior Group Leader. "Starting out on a shoestring; data mining and model organisms"

10:50 - 11:00 **Elisenda Alari-Pahisa** (UPF), Senior Postdoctoral Researcher. "Role of the Killer Ig-Like Receptor KIR3DL2 in NK cell inhibition and education"

11:00 - 11:10 **Sandra Castillo** (IJC), La Caixa Junior Group Leader. "Oncogenic mutations in congenital rare diseases"

11:10 - 11:40 Networking with coffee

### Session 2. State-of-the-Art technologies

11:40 - 11:50 Introduction by chair Marcos F. Pérez (IBMB)

11:50 - 12:00 **Biola Javierre** (IJC), Group Leader. "Deciphering the 4D epigenomic landscape to understand normal and malignant haematopoiesis"

12:00 - 12:10 **Kinga Bernatowicz** (VHIO), Senior Postdoctoral Researcher. "Picture the future of precision medicine: quantitative imaging in the era of artificial intelligence"

12:10 - 12:20 **Lars Velten** (CRG), Junior Group Leader. "Single cell and synthetic genomics of blood formation"

12:20 - 12:30 **Irene Marco Rius** (IBEC), Junior Group Leader. "Hyperpolarization-enhanced NMR and MRI methods for tissue engineering applications"

12:30 - 12:40 **Jacob Smith** (UPF), Senior Postdoctoral Researcher. "Novel strategies to study inter tissue communication"

12:40 - 12:50 **Daniel Gonzalez-Carter** (IBEC), La Caixa Junior Group Leader. "Exploring the endocytic rate of endothelial cells to achieve organ-specific delivery of therapy-loaded nanoparticles"

12:50 - 14:10 Networking with lunch

### Session 3: Becoming an independent researcher

14:10-15:00 **Project management workshop** (Chair Natalia Czerniak, VHIO)

15:00- 15:50 **Round table: Challenges to be a junior PI in Catalunya.**

Moderated by Jorge Olivier de la Cruz and Mónica Mir Llorente (IBEC)

With **Octavio Romero** (IJC, AECC Researcher), **Marta Barniol** (UPF, Junior Group Leader), **Iris Batalha** (IBEC, La Caixa Junior Group Leader),

**Aida Rodriguez** (CRG, Senior Postdoctoral Researcher), **Alba Maiques** (IDIBAPS, Senior Postdoctoral Researcher),

**Marcus Buschbeck** (IJC, Senior Group Leader).

15:50 - 16:10 Networking with coffee

### Session 4: Translational science

16:10- 16:20 Introduction by chair Lars Velten (CRG)

16:20- 16:30 **Javier Santos** (UPF), Senior Postdoctoral Researcher. "Domestication of the human skin bacterium *Cutibacterium acnes* for medical application"

16:30- 16:40 **Oriol de Barrios** (IJC), Ramon y Cajal Researcher. "Establishing novel therapeutic strategies for high-risk infant pro-B acute lymphoblastic leukemia (pro-B-ALL)"

16:40- 16:50 **Enrique Javier Arenas Lahuerta** (VHIO), Senior Postdoctoral Researcher. "Overcoming Cancer Immunotherapy Resistance"

16:50-17:00 **Sara Sdelci** (CRG), Junior Group Leader. "Cancer metabolism in the cell nucleus: a new dimension to explore"

17:00-17:10 **Irene Hernando Herraiz** (IBMB), Junior Group Leader. "Tracking single cell dynamics"

### Closing lecture

17:10 - 17:20 Introduction by chairs Ana Angulo-Urarte and Gerardo Ferrer (IJC)

17:20 - 18:00 **Anna Bigas** (Vicedirector preclinical research, IJC), "From Stem Cells to Cancer Therapeutics"

18:00 Networking with cocktail at IJC terrace