

## **IRP RESEARCH GRANTS 2024-2026**

### **Category Advanced**

#### **Awarded grants:**

**PI:** Marco Agostini | *"Multi-cellular integrated model on a chip: its new and unexplored role in solid rare pediatric tumor treatment"*

**PI:** Emanuele Cozzi | *"Non-HLA antibodies as a possible cause of graft damage in pediatric renal transplantation: an integrated immunologic, metabolomics and lipidomics approach to timely uncover mechanisms of damage"*

**PI:** Giuseppe Giordano | *"MultiOmicAsphyxia Study - Unravelling early biomarkers and therapeutic targets in hypoxicischemic encephalopathy following perinatal asphyxia by use of multi-omic technology"*

### **Category Consolidator**

#### **Awarded grants:**

**PI:** Sanja Aveic | *"Identification of epigenetic therapeutic vulnerabilities that nourish phenotypic plasticity of pharmacoresistant neuroblastoma cells"*

**PI:** Silvia Bresolin | *"Dissecting Juvenile Myelomonocytic Leukemia complexity: 3D epigenomic landscape and AI-powered multi-omics patient stratification"*

**PI:** Alessandra Murgia | *"Identification of molecular and functional biomarkers in Fragile X Disorders: improving knowledge about basic molecular mechanisms and measurable outcomes for clinical follow up and evaluation of new treatments"*

**PI:** Martina Piccoli | *"Characterization and identification of a combined biomaterial-stem cell approach for the treatment of pediatric fistulas"*

**PI:** Eva Trevisson | *"Integrating multiple approaches to characterize genes involved in ultrarare pediatric diseases and to optimize gene therapy for patients"*

**PI:** Enrico Vidal | *"Combination of renal injury biomarkers with clinical factors for prediction and stratification risk of acute kidney injury in neonates admitted to intensive care unit"*

## **Category Starting**

### **Awarded grants:**

**PI:** Mara Doimo | *“Insights into the pathophysiology of POLG2 mutations leading to early onset mtDNA deletion and depletion syndrome: towards a possible therapeutic approach”*

**PI:** Elena Mariotto | *“Delivering precision oncology to pediatric patients: a single center drug sensitivity profiling study for cancer treatment”*

**PI:** Valentina Poletti | *“Ex Vivo Gene Therapy for GM1 Gangliosidosis based on a novel hyperfunctional enzyme created by molecular evolution”*

**PI:** Claudia Tregnago | *“Breaking barriers in KMT2A::afdn-rearranged pediatric aml: unraveling, targeting, and curing”*

**PI:** Anna Maria Tolomeo | *“Development of High-throughput technological platforms for the Reconditioning and empowering of organs harvested after Circulatory death to endure rejection – HARDCORE”*