

## PROGRAMMA SCIENTIFICO

# XXXI GIUSEPPE BASSO INTERLAB MEETING FALCADE 2025

Venerdì 14-02-2025

Ore 14. Benvenuto Biffi, Buldini, Pigazzi

**“Biomarkers and genetic profiling in pediatric hematological diseases”**

14.15

1. MicroRNA esosomiali come potenziali biomarcatori in pazienti pediatrici affetti da linfoma di Burkitt. D. Rizzato, L. Mussolin (Padova)

14.30

2. TPM2 e TP53: i nuovi biomarcatori per la stratificazione dei pazienti pediatrici affetti da linfoma di Burkitt. G. Martire, L. Mussolin (Padova)

14.45

3. NGS in AML diagnostics. M. Benetton, C. Tregnago, D. Calvetti, K. Polato, M. Pigazzi (Padova)

15.00

4. Valore prognostico della mutazione BRAFV600E nel sangue periferico di pazienti pediatrici affetti da Istiocitosi a Cellule di Langerhans: uno studio pilota del Consorzio Europeo per le Istiocitosi (ECHO). L. Beneforti, A. Chinnici, M. L. Coniglio, P. Milne, S. Heritier, A. van Halteren, C. Hutter, I. Trambusti, F. Pegoraro, Z. Hélias-Rodzewicz, R. Schwentner, N. Roozenboom, M. Tanturli, Jean-Francois Emile, Cor van den Bos, M. Minkov, J. Donadieu, M. Collin, E. Sieni (Firenze)

15.15

5. Frequency and Early Prognostic Significance of Gene-Class Fusions Identified By RNA-Seq in Pediatric T-ALL in AIEOP-BFM ALL 2017. G. Fazio (Tettamanti Monza)

15.30

6. Cohesins: crossroad between CdLS and cancer predisposition. S. Rebellato, G. Fazio, G. Cazzaniga (Tettamanti Monza)

15.45

7. Blastic Plasmocitoid Dendritic Cell Neoplasm, Immunophenotypic approach. E. Varotto, B. Buldini (Padova)

**16.15 coffee break**

## **"Innovative Approaches in Pediatric Leukemia Research: From Molecular Mechanisms to Targeted Therapies"**

16.45

1. Machine learning to perform single cell prediction of resistance in B-ALL. J. Sarno, R. Scribano (Tettamanti Monza)

17.00

2. Striking Brain Tumor Metabolic Vulnerabilities through identification of Synthetic Lethal pairs. M. Canton, C. Marchioro, L. Persano, G. Viola and E. Mariotto (Padova)

17.15

3. Novel strategies to overcome chemotherapy resistance in T-ALL pediatric patients: an update. G. Veltri, V. Serafin (Padova)

17.30

4. Studio dei trasportatori dei farmaci nelle leucemie acute pediatriche tramite approccio integrato di cell sorting e biologia molecolare high throughput. A. Cianflone, L. Coppola, P. Primo, F. Mastrodonato, G. Maisto, F. Petruzzello, P. Stellato, G. Menna, R. Parasole, P. Mirabelli (Napoli)

17.45

5. Analisi dell'espressione delle tetraspanine (tspans) nelle leucemie acute pediatriche: implicazioni biologiche e cliniche. P. Primo, F. Mastrodonato, A. Cianflone, G. Maisto, P. Stellato, F. Petruzzello, R. Cuccurullo, R. Parasole, G. Menna, P. Mirabelli (Napoli)

18.00

6. Characterization of FLT3 Expression in PAX5t Pediatric BCP-ALL for a Novel Targeted Treatment Strategy. A. Curto, G. Fazio, G. Cazzaniga (Tettamanti Monza)

18.15

7. Single cell analysis of immunophenotypic plasticity in pediatric BCP-ALL. G. Gomiero, A. Peloso, E. Varotto, S. Bresolin, B. Buldini (Padova)

18.30

8. Emerging role of BAG6 as cancer cell plasticity regulator in medulloblastoma. C. Marchioro, M. Canton, P. Grumati, R. Ronco, L. Persano, V. Lionello, F. Saverio Tedesco, E. Mariotto and G. Viola (Padova)

18.45

9. Ironing Out Brain Tumors: Targeting Metabolic Pathways to Enhance Ferroptosis Sensitivity. L. Manfreda, R. Bortolozzi, L. Persano, G. Viola (Padova)

19.00

10. Dissecting JMML complexity by multiomic approach. A. Peloso, A. Cani, M. Volgger, I. Stefani, S. Bresolin (Padova)

**Ore 20 Cena sociale presso Piccola Baita, via Sappade 19**

**SABATO 15-02-25**

**"Advanced Cellular Therapies in Hematological Malignancies"**

14.00

1. Enhancing CAR-T cell homing to AML bone marrow through chemokine receptor engineering. C. Guzzetti, M. Algeri, S. Tettamanti, A. Biondi, A. Pievani, M. Serafini, Tettamanti (Monza)

14.15

2. CD72 and CAR T cells in AML. S. Merlini, M. Pigazzi-A. Biffi (Padova)

14.30

3. Exploiting the Gut Microbiota to improve CARCIK-cell fitness in the treatment of Haematological Malignancies. O. Montini, G. Melita, B. Landoni, M. Capelletti, J. Sarno, A. M. Savino, G. Penna, A. Biondi, M. Rescigno and S. Tettamanti (Monza)

14.45

4. Consolidamento con CAR-T (Tisagenlecleucel) in una leucemia linfoblastica acuta B recidivata TCSE allogenico. M.P. Esposto, A. Mercuri, C. Utzeri, C. Tecchio, E. Bonetti, M. Chinello, V. Vitale, A. Zaccaron, V. Pezzella, C. Guardo, S. Cesaro, (Verona)

15.00

5. Immune-profiling and monitoring of CAR-T cells by flow cytometry. G. Gaipa (Monza)

15.15

6. Armored IL-18 CD79b CAR T cells for the treatment of B-cell malignancies. S. Tettamanti (Monza)

**" Microenvironment Interactions in Hematological Malignancies"**

16.00

1. Humanized bone marrow organoid models for testing CAR-T cell efficacy in acute myeloid leukemia. C. Guzzetti, M. Algeri, S. Tettamanti, A. Biondi, A. Pievani, M. Serafini (Tettamanti Monza)

16.15

2. AML secretome and 3D hematopoiesis. G. Longo, Claudia Tregnago, M. Pigazzi (Padova)
3. Adipocytes role in the BM-AMLs niche. S. Perpinello, M. Pigazzi (Padova)
4. MSCs and membrane potential. A. Da Ros, M. Benetton, M. Pigazzi (Padova)

#### **16.45 Coffee break**

#### **"Metabolic and Mitochondrial Targeting in Acute Leukemias: Novel Therapeutic Approaches"**

17.00

10. Targeting the Dysregulated Metabolic Program in Acute Leukemias. A. Savino (Tettamanti Monza)

17.15

11. Ferroptosis: an Iron-Exploiting Strategy to Target Acute Lymphoblastic Leukemia (FIEST-ALL). M. Capelletti (Monza)

17.30

12. LSC and ROS dynamics. M. Benetton, M. Pigazzi (Padova)