

MARTINA TOMA

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CONTACT

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WORK EXPERIENCE

▪ Biologist

Professional collaboration at Fondazione IRCCS Istituto Nazionale dei Tumori of Milan – Department of Advanced Diagnostic Services - Pathological Anatomy 2
May 1, 2022 – Present

▪ Volunteer Trainee

Fondazione IRCCS Istituto Nazionale dei Tumori of Milan – Department of Advanced Diagnostic Services - Pathological Anatomy 2
March 8 – April 30, 2022

UNIVERSITY LAB ACTIVITIES

▪ Research Assistant

University of Milan - Bioscience department
Sept 21, 2020 – April 9, 2021

Thesis in electrophysiology titled: "Studio degli effetti di FGF23 sulle proprietà elettriche di cardiomiociti pacemaker-like derivati da cellule staminali pluripotenti indotte umane"

▪ Curricular Internship

University of Milan - Bioscience department
Feb 28 – May 4, 2018
Thesis in Neurobiology

TECHNICAL SKILLS

Molecular Biology

- Genomic DNA quality control using known molecular weight markers;
- Molecular analysis of B and T lymphocyte clonality by capillary electrophoresis (GeneMapper software);
- Gene expression analysis by RT-PCR from mRNA and evaluation of the results by electrophoresis.

Flow Cytometry

- Calibration and maintenance of instruments (FACS Canto II 8 colors; FACS Lyric 12 colors, Becton Dickinson);
- Offline compensation up to 12 fluorescences;
- Experiment and assay setup;
- Data display (histograms, dot plots, cytograms);
- Data interpretation and gating strategies;



PROFILE

Biologist graduated in Biology applied to Biomedical Research.

I'm a curious, precise and proactive person. Good organizational and planning skills.

I easily adapt to the working demands, with a great ability to work in a team and independently.

LANGUAGES

Italian: Native

English: B2

DIGITAL SKILLS

Office (Word, Excel, PowerPoint), e-mail, Microsoft Windows, Web Browser, Microsoft Windows and social media. Good knowledge of scientific data processing software.

OTHER INFORMATION

Driver's license: B

PUBLICATIONS AND CONFERENCE COMMUNICATIONS

Vittoria L, Sala L, Summo V, Capone I, Conca E, **Toma M**, Ottolenghi J, Testa F, Paolini B, Cabras A, Aiello A, Bozzi F. *Breast implant associated anaplastic large cell lymphoma: evidence for an efficient diagnostic workup.* Tumori Journal, 20 Marzo 2023

C. Billiani, V. Buccino, A. Mazzocchi, A. Aiello, **M. Toma**, C. Carniti, D. Ferrari, L. Pusterla, M. Zucchini, F. Arienti, M.C. Di Chio, F. Taverna. *Valutazione del Chimerismo da cellule CD34+ come possibile indicatore precoce di recidiva in un caso di Leucemia Mieloide Acuta - Poster presentato al XXX Congresso Nazionale AIBT*
10/12 Ottobre 2024

SEMINARS AND CONFERENCES

11 June – 10 December 2024:
"DISCUSSIONE SCIENTIFICA
INTERDISCIPLINARE NELL'AMBITO DELLA
SURGICAL PATHOLOGY"
Responsabile Scientifico:
Massimo Milione, Direttore s.c.
Anatomia Patologica 1 - Fondazione
IRCCS Istituto Nazionale dei Tumori,
Milano

15 October 2024:
"14° Italian UK NEQAS LI User Meeting,
L'incrocio delle competenze nella
**diagnostica delle neoplasie
ematologiche**"
Summeet Srl e Flow Assesment Srl

13 May 2024:
"Navigating **multiple myeloma** from
diagnosis to disease follow up"
Novotel Milano Nord Cà Granda – BD
EuroFlow™ Workshop (FAD)

16 April 2024:
"14° Italian UK NEQAS LI User Meeting,
L'approccio agli schemi di proficiency
testing UK NEQAS LI per la citometria a
flusso nella diagnostica clinica di
base: educazione per acquisire e
mantenere competenza"
Summeet Srl e Flow Assesment Srl

4-5 May 2023:
BD INFINICYT™ SPRING TRAININGS at
Becton Dickinson S.p.A Training Center
BDB (Via Cialdini 16, Milano)

18 April - 12 December 2023:
"DISCUSSIONE SCIENTIFICA
INTERDISCIPLINARE NELL'AMBITO DELLA
PATOLOGIA MOLECOLARE"
Responsabile Scientifico:
Giancarlo Pruner, Direttore s.c.
Anatomia Patologica 2 - Fondazione
IRCCS Istituto Nazionale dei Tumori,
Milano

30 March 2023:
"13° Italian UK NEQAS LI User Meeting
L'approccio di base agli schemi
educazionali UK NEQAS LI per la
Citometria a flusso – Acquisire e
mantenere competenza"
Summeet Srl e Flow Assesment Srl

- Software: DIVA 8 (FACS Canto II 8 colors – Becton Dickinson), Suite v1.5 and Suite Clinical v1.5 (FACS Lyric 12 colors – Becton Dickinson), BD INFINICYT™;
- Multicolor surface and intracellular staining of peripheral blood samples, bone marrow aspirates, CSF, broncho-alveolar lavages, cavity fluids and cell suspensions;
- Immunophenotyping:
 - Peripheral blood lymphocyte subpopulations (TBNK with absolute counts);
 - B and T cell lymphoproliferative diseases, multiple myeloma, myelodysplastic syndromes and myeloid leukemias;
 - Measurable residual disease for CLL and MM;
 - Immunomagnetic CD3+ T cell separation purity.

External Quality Control Testing (VEQ & EQA):

- Absolute counts of lymphocyte subpopulations (accredited by Regione Lombardia);
- UK NEQAS programs for leukocyte immunophenotyping (leukemias, MRD in CLL – excellence accreditation)

Lab Management and Training

- Sample handling (peripheral blood, bone marrow, body fluids): reception, processing and storage
- Daily workflow organization in spreadsheets
- Reagent and equipment management: expiration tracking, stock levels, maintenance scheduling
- Technical staff training in flow cytometry and equipment handling

Cell Biology

- Viable cell suspension preparation from biopsies;
- Maintenance and differentiation of hiPSCs into pacemaker-like cardiomyocytes;
- Isolation and incubation of mouse sinoatrial node tissue
- Murine embryonic stem cells (mES) culture and differentiation into neural precursors;
- Cell counting (Burker chamber), viability tests (optical microscopy, flow cytometry)
- Neuronal morphology analysis (ImageJ software)

Biochemistry

- Protein extraction and quantification (BCA protein assay)
- Western blotting
- Densitometric analysis (ImageJ)
- Immunofluorescence for protein detection/localization

Electrophysiology

- Ion current and action potential recordings via patch-clamp
- Data analysis (OriginPro 2016 and Clampfit 10.7 software)

PROFESSIONAL QUALIFICATION

Registered Biologist – National Order of Biologists (since 09/03/2022) – Registration Code: AA_092843

State Examination for Professional Qualification as Biologist A – November 2021 session

EDUCATION

Master's Degree in Biology applied to Biomedical Research

University of Milan

01/10/2018 – 16/04/2021

Grade: 110/110 cum Laude

Bachelor's Degree in Biological Science

University of Milan

28/09/2015 – 15/10/2018

Grade: 110/110 cum Laude

Chemical expert Diploma

ITIS Stanislao Cannizzaro Rho

Area: Chemistry and Biotechnology

Field of study: Environmental Biotechnology

06/09/2010 – 27/06/2015

Grade: 100/100

9 March 2023:

"La Malattia Residua Misurabile (**MRD**) in **oncoematologia**"

Torino – Circolo dei Lettori (FAD)

17 May - 6 December 2022:

"DISCUSSIONE SCIENTIFICA
INTERDISCIPLINARE NELL'AMBITO DELLA
PATOLOGIA MOLECOLARE"

Responsabile Scientifico:

Giancarlo Prunerì, Direttore s.c.

Anatomia Patologica 2 - Fondazione

IRCCS Istituto Nazionale dei Tumori,

Milano

20 September – 21 October 2022:

"Regolamento generale sulla
protezione dei dati (n. 2016/679).

Il **sistema privacy** per finalità di cura e
di ricerca nella Fondazione IRCCS
Istituto Nazionale dei Tumori" - ANNO
2022

30 June 2022:

DALL'INTUIZIONE ALL'IPOTESI: La ricerca
bibliografica nella pratica scientifica

3-4-5 May 2022:

Course of **BD FACS Lyric™** at Becton
Dickinson S.p.A Training Center BDB
(Via Cialdini 16, Milano)

22 March 2022:

Online course of **strumentazione BD
FACS Lyric™** (BD Biosciences)

15 March – 15 December 2022:

Formazione specifica in materia di
salute e sicurezza sui luoghi di lavoro -
LAVORATORI A RISCHIO ALTO - (ARTT.
36 E 37 DEL D.LGS. N. 81/08)

15 September 2020:

"Covid-19 e lavoro: cosa conoscere"
per Lavoratore e Preposto

24-30 August 2020:

Safety course – "**Formazione generale
dei Lavoratori**"

"In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree."

Rho, 22 Maggio 2025

Firma:

Martina Toma