

CURRICULUM VITAE

Contact Details

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Current position Head Flow Cytometry Unit
Flow Cytometry and Sorting Specialist
Flow Cytometry Unit
Department of Experimental Oncology
European Institute of Oncology
Via Adamello, 16 20139, Milan Italy

Profile

I'm in charge of the Cytometry and Sorting Unit management in terms of routine maintenance and instrument standardization procedures, users training.

My expertise involves organization, standardization and validation procedures, development of the new technical approaches necessary for the implementation of the different institute programs.

I am also the senior cell sorter operator and I have acquired a deep experience about sorting of very low represented cell subsets.

I have organized training flow cytometry courses for the European School of Molecular medicine (SEMM) at IFOM IEO Campus (Milan)

Technical skill:

- Flow cytometry: expertise with Becton Dickinson, Beckman Coulter and Miltenyi instrumentations (FACSCan, FACSCalibur, FACSCanto II, FACSCelesta, FACSVue SE, FACSMelody, FACSJazz, FACSriaII, MoFlo Astrios, MACS Quant QC using the Spherotech Rainbow Calibration Beads and BD Cytometer Setup and Tracking Beads; immunophenotyping; cell cycle; apoptosis assay; flow crossmatching); instructor in the training on the use of instrumentation;
- A proven ability to design flow cytometry experiments; to analyze and interpret data
- Extensive expertise in multiparameter flow cytometry and cell sorting
- Technically innovative in the quickly expanding field of flow cytometry
- Excellent communication and interpersonal skills in this service-focused environment
- Uses a variety of methods to critically evaluate data; from scientific literature, electronic databases, and performs appropriate quantitative and statistical analyses of data
- In addition, helping the researchers that require preparatory support and analysis in this field as it is extended to flow cytometric analysis of sorting
- Exceptional ability to design, conduct and communicate flow cytometry essentials for the support and development of biological experiments

- Cell culture
- Immunofluorescence

Computer skill:

- Competent with microsoft and Mac operative system,
- Satisfactory knowledge of flow cytometry data acquisition and data analysis software (BD FACSDiva, CellQuest Pro, Summit, FacsChorus, FlowJoX, ModFit3, Kaluza)
- Microsoft Office programmes (Word, Excel, Power Point)

Languages

English Good

Italian Native speaker

Education and Training

2005-2008

Bachelor's Degree in Chemical-Biological Analysis (Class of Degree In Biological Sciences [12] 110/110 cum laude)

Supervisor Prof. Papa Stefano

Scienze Biologiche, Facoltà Scienze e Tecnologia

Università Carlo Bo di Urbino, Pesaro Urbino Italy

<http://www.uniurb.it/>

1995- 1998

Bachelor's Degree

Diploma di specializzazione Post diploma di Tecnico di Ricerca Biochimica (BSc)

Supervisor Prof. D'incalci Maurizio

Istituto di Ricerche Farmacologiche "Mario Negri"

http://www.marionegri.it/en_US/home

1995

High School diploma

Perito Chimico Biologico Ambientale

Istituto "Jean Monnet" Mariano Comense, Como, Italy

<https://www.ismonnet.gov.it/>

Positions and Employment

2016- Onwards

Head Flow Cytometry Unit (permanent position)

Department of Experimental Oncology

European Institute of Oncology

via Adamello 16, 20139 Milan, Italy

<https://www.ieo.it/en/>

2008-2016

Permanent staff research Senior technician

Imaging Development Unit
Flow Cytometry Facility, Cogentech
Fondazione IFOM-Istituto FIRC di Oncologia Molecolare
via Adamello 16, 20139 Milan, Italy
<http://www.ifom-ieo-campus.it>
<https://www.ieo.it/en/>

2001-2008

Permanent staff research technician

Imaging Unit
Department of Experimental Oncology
European Institute of Oncology,
via Ripamonti 435, 20141 Milan, Italy
<https://www.ieo.it/en/>

1998-2001

Fellowship at the Imaging

Imaging Unit
Department of Experimental Oncology
European Institute of Oncology,
via Ripamonti 435, 20141 Milan, Italy
<https://www.ieo.it/en/>

1995-1998

Student, Bursary as Technician in Biomedical Research

Istituto di Ricerche Farmacologiche "Mario Negri"
http://www.marionegri.it/en_US/home

Award

September 2002

Student's award GIC (Italian Group of Cytometry)

Title: A New Method to detect histone acetylation levels by flow cytometry

Conference/Oral Presentation (O.P.)

2008- Onwards

Flow Cytometry courses for the European School of Molecular medicine (SEMM), Milan <https://www.semm.it/>

June 2018

BD Workshop: Extracellular Vesicles Extreme Versatility, Rome

March 2018

BD Biosciences Educational Workshop: On the edge of flow to strengthen research, Milan **(O.P.)**

July 2016

Working with acoustic focusing: direct feedback from Cogentech Flow cytometry Facility **(O.P.)**

September 2016

First Cell Sorter User Group Meeting, Vienna

December 2015

Flow Cytometry Symposia, Milan **(O.P.)**

November 2013

13th Euroconference on Clinical Cell Analysis (ESCCA),Luxembourg

November 2013

9th Course on Clinical Cytometry, Cell Sorting, Luxembourg

October 2013

XXXI Conferenza nazionale di citometria G.I.C., Lucca

May 2008	XXIV Congress of the International Society for Analytical Cytology, Budapest, Hungary
May 2004	XXII Congress of the International Society for Analytical Cytology, Montpellier, France
May 2002	XXI Congress of the International Society for Analytical Cytology, San Diego, CA, USA
1995-2000	Annual Conference G.I.C. (Italian Group of Cytometry) http://gic.casaccia.enea.it/

Bibliography

DNA damage in stem cells activates p21, inhibits p53, and induces symmetric self-renewing divisions.

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Proc Natl Acad Sci U S A. 2013 Mar 5;110(10):3931-6. doi: 10.1073/pnas.1213394110. Epub 2013 Feb 15.

The endocytic adaptor Eps15 controls marginal zone B cell numbers.

Pozzi B, Amodio S, Lucano C, Sciallo A, Ronzoni S, Castelletti D, Adler T, Treise I, Betsholtz IH, Rathkolb B, Busch DH, Wolf E, Fuchs H, Gailus-Durner V, de Angelis MH, Betsholtz C, Casola S, Di Fiore PP, Offenhäuser N.

PLoS One. 2012;7(11):e50818. doi: 10.1371/journal.pone.0050818. Epub 2012 Nov 30.

Cellular heterogeneity during embryonic stem cell differentiation to epiblast stem cells is revealed by the ShcD/RaLP adaptor protein.

Turco MY, Furia L, Dietze A, Fernandez Diaz L, Ronzoni S, Sciallo A, Simeone A, Constam D, Faretta M, Lanfrancone L.

Stem Cells. 2012 Nov;30(11):2423-36. doi: 10.1002/stem.1217.

The self-association coiled-coil domain of PML is sufficient for the oncogenic conversion of the retinoic acid receptor (RAR) alpha.

Occhionorelli M, Santoro F, Pallavicini I, Gruszka A, Moretti S, Bossi D, Viale A, Shing D, Ronzoni S, Muradore I, Soncini M, Pruneri G, Rafaniello P, Viale G, Pelicci PG, Minucci S.

Leukemia. 2011 May;25(5):814-20. doi: 10.1038/leu.2011.18. Epub 2011 Feb 18.

Differential cytogenomics and miRNA signature of the Acute Myeloid Leukaemia Kasumi-1 cell line CD34+38- compartment.

Pedranzini L, Mottadelli F, Ronzoni S, Rossella F, Ferracin M, Magnani I, Roversi G, Colapietro P, Negrini M, Pelicci PG, Larizza L.

Leuk Res. 2010 Oct;34(10):1287-95. doi: 10.1016/j.leukres.2010.02.012. Epub 2010 Mar 12.

Biological and molecular heterogeneity of breast cancers correlates with their cancer stem cell content.

Pece S, Tosoni D, Confalonieri S, Mazzarol G, Vecchi M, Ronzoni S, Bernard L, Viale G, Pelicci PG, Di Fiore PP.

Cell. 2010 Jan 8;140(1):62-73. doi: 10.1016/j.cell.2009.12.007.

The tumor suppressor p53 regulates polarity of self-renewing divisions in mammary stem cells.

Cicalese A, Bonizzi G, Pasi CE, Faretta M, Ronzoni S, Giulini B, Brisken C, Minucci S, Di Fiore PP, Pelicci PG.

Cell. 2009 Sep 18;138(6):1083-95. doi: 10.1016/j.cell.2009.06.048.

Cell-cycle restriction limits DNA damage and maintains self-renewal of leukaemia stem cells.

Viale A, De Franco F, Orleth A, Cambiaghi V, Giuliani V, Bossi D, Ronchini C, Ronzoni S, Muradore I, Monestiroli S, Gobbi A, Alcalay M, Minucci S, Pelicci PG.

Nature. 2009 Jan 1;457(7225):51-6. doi: 10.1038/nature07618.

Assessment of histone acetylation levels in relation to cell cycle phase.

Ronzoni S, Faretta M, Ballarini M, Pelicci P, Minucci S.

Curr Protoc Cytom. 2008 Oct;Chapter 7:Unit 7.35. doi: 10.1002/0471142956.cy0735s46.

Role for histone deacetylase 1 in human tumor cell proliferation.

Senese S, Zaragoza K, Minardi S, Muradore I, Ronzoni S, Passafaro A, Bernard L, Draetta GF, Alcalay M, Seiser C, Chiocca S.

Mol Cell Biol. 2007 Jul;27(13):4784-95. Epub 2007 Apr 30.

Recruitment of the histone methyltransferase SUV39H1 and its role in the oncogenic properties of the leukemia-associated PML-retinoic acid receptor fusion protein.

Carbone R, Botrugno OA, Ronzoni S, Insinga A, Di Croce L, Pelicci PG, Minucci S.

Mol Cell Biol. 2006 Feb;26(4):1288-96.

New method to detect histone acetylation levels by flow cytometry.

Ronzoni S, Faretta M, Ballarini M, Pelicci P, Minucci S.

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Inhibitors of histone deacetylases induce tumor-selective apoptosis through activation of the death receptor pathway.

Insinga A, Monestiroli S, Ronzoni S, Gelmetti V, Marchesi F, Viale A, Altucci L, Nervi C, Minucci S, Pelicci PG.

Nat Med. 2005 Jan;11(1):71-6. Epub 2004 Dec 26. Erratum in: Nat Med. 2005 Feb;11(2):233.

Impairment of p53 acetylation, stability and function by an oncogenic transcription factor.

Insinga A, Monestiroli S, Ronzoni S, Carbone R, Pearson M, Pruneri G, Viale G, Appella E, Pelicci P, Minucci S.

EMBO J. 2004 Mar 10;23(5):1144-54. Epub 2004 Feb 19.

Lipopolysaccharide or whole bacteria block the conversion of inflammatory monocytes into dendritic cells in vivo.

Rotta G, Edwards EW, Sangaletti S, Bennett C, Ronzoni S, Colombo MP, Steinman RM, Randolph GJ, Rescigno M.

J Exp Med. 2003 Oct 20;198(8):1253-63.

Kit regulatory elements required for expression in developing hematopoietic and germ cell lineages.

Cairns LA, Moroni E, Levantini E, Giorgetti A, Klinger FG, Ronzoni S, Tatangelo L, Tiveron C, De Felici M, Dolci S, Magli MC, Giglioni B, Ottolenghi S.

Blood. 2003 Dec 1;102(12):3954-62. Epub 2003 Aug 7.

PML-RAR induces promyelocytic leukemias with high efficiency following retroviral gene transfer into purified murine hematopoietic progenitors.

Minucci S, Monestiroli S, Giavara S, Ronzoni S, Marchesi F, Insinga A, Diverio D, Gasparini P, Capillo M, Colombo E, Matteucci C, Contegno F, Lo-Coco F, Scanziani E, Gobbi A, Pelicci PG.

Blood. 2002 Oct 15;100(8):2989-95.

In vitro and in vivo hematopoietic potential of human stem cells residing in muscle tissue.

Dell'Agnola C, Rabascio C, Mancuso P, Capillo M, Pruneri G, Gobbi A, Minucci S, Ronzoni S, Volorio S, Calabrese L, Tradati N, Martinelli G, Shultz L, Bertolini F.

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Isolation and characterization of an IGROV-1 human ovarian cancer cell line made resistant to Ecteinascidin-743 (ET-743).

Erba E, Bergamaschi D, Bassano L, Ronzoni S, Di Liberti G, Muradore I, Vignati S, Faircloth G, Jimeno J, D'Incalci M.

Br J Cancer. 2000 May;82(10):1732-9.

The metalloproteinase inhibitor batimastat (BB-94) causes cell cycle phase perturbations in ovarian cancer cells.

Erba E, Ronzoni S, Bassano L, Giavazzi R, D'Incalci M.

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Mode of action of thiocoraline, a natural marine compound with anti-tumour activity.

Erba E, Bergamaschi D, Ronzoni S, Faretta M, Taverna S, Bonfanti M, Catapano CV, Faircloth G, Jimeno J, D'Incalci M.

Br J Cancer. 1999 Jun;80(7):971-80.

Cell cycle perturbations and apoptosis induced by isohomohalichondrin B (IHB), a natural marine compound.

Bergamaschi D, Ronzoni S, Taverna S, Faretta M, De Feudis P, Faircloth G, Jimeno J, Erba E, D'Incalci M.

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