

Curriculum vitae di *Adriana Albini*

Sottosettori ERC primari: *LS-7*

Eventuali sottosettori ERC secondario: *LS-4*

PERSONAL DETAILS

Family name, First name: Albini Adriana

Birthdate: 02/09/1955

• Education and key qualifications

- 2003–2003 Advanced Course for Management of “Hospital Divisions”
(Laboratories/facilities/Departments)
SDA Bocconi, Milano (Italy)
- 1980–1980 Habilitation as Chemist - Enrolment in the Professional Register of Chemists - Interprovincial
Order of Chemists of Lombardy (registration n° 3607)
- 1974–1979 Laurea Organic Chemistry. (Thesis: Alcolisi of diaryl-solfodiimmidi)
Summa cum Laude: 110 e lode -PhD
University of Genoa, Faculty of Natural Science, Institute of Organic Chemistry, Genoa
(Italy)

Current position

2022 - present Senior Scientist
Scientific Directorate, IRCCS IEO European Institute of Oncology, Milano (Italy)

• Previous position(s)

- 2023 - 2024 Academic Research Manager
DiGiCore (Digital Institute for Cancer Outcomes REsearch)
Brussels, Belgium
- 2020-2022 Adjunct Professor of General Pathology
Department of Medicine and Surgery, Milan-Bicocca University, Monza (MB) (Italy)
- 2015–2021 Head of Vascular Biology and Angiogenesis Laboratory
IRCCS (Istituto di Ricovero e Cura a Carattere Scientifico) MultiMedica, Milano (Italy)
- 2014–2021 Scientific Director
Fondazione MultiMedica Onlus, Milano (Italy)
- 2018–2020 Full Professor of General Pathology
Department of Medicine and Surgery, Milan-Bicocca University, Monza (MB) (Italy)
- 2012–2015 Director of Department “Research and Statistics Infrastructure” (I-RS)
IRCCS Advanced Technologies and Models of Care in Oncology-Santa Maria Nuova
Hospital, Reggio Emilia (Italy)
- 2012–2015 Director of the Translational Research Laboratories
IRCCS Advanced Technologies and Care Models in Oncology-Santa Maria Nuova Hospital,
Reggio Emilia (Italy)
- 2009–2012 Scientific Director
MultiMedica Medical Center, Castellanza (VA) (Italy)

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- 2006–2012 Director of the Oncology Research Program
IRCCS MultiMedica, Milano (Italy)
- 2005–2006 Chairman, Department of Translational Oncology
IRCCS Italian National Institute for Research on Cancer (IST), Genova (Italy)
- 2004–2006 Deputy Scientific Director
IRCCS Italian National Institute for Research on Cancer (IST), Genova (Italy)
- 1999–2006 Director of the Laboratory of Molecular Oncology
Italian National Institute for Research on Cancer (IST), Genova (Italy)
- 1996–1999 Chief, Neoplastic Progression Section - Department of Biotechnology in Oncology
Italian National Institute for Research on Cancer (IST), Genova (Italy)
- 1988–1996 Deputy Director, Division of Experimental Oncology
Italian National Institute for Research on Cancer (IST), Genova (Italy)
- 1987–1988 “Visiting scientist”
NEI, Laboratory of Retinal Cell and Molecular Biology, National Institute of Health, Bethesda (United States) , Fogarty
- 1985–1986 “Visiting associate”
NIDR, Laboratory of Developmental Biology and Anomalies, National Institute of Health, Bethesda (United States) Fogarty
- 1984–1986 Research Assistant, Department of Chemical Carcinogenesis
Italian National Institute for Research on Cancer, IST, Genova (Italy)
- 1983–1984 Postdoctoral Fellow
Gesellschaft für Strahlen - und Umweltforschung mbH (GSF), Munich (Germany)
- 1981–1983 Postdoctoral Fellow
Department of connective tissue research, Max-Plank Institute of Biochemistry, Munich (Germany)
- 1980–1981 Research Assistant, Department of Analytical Chemistry and Toxicology
Italian National Institute for Research on Cancer, IST, Genova (Italy)
- 1980–1980 Laboratory Assistant, Laboratory of Clinical Infectious Diseases
Giannina Gaslini Institute - IRCCS Pediatric Hospital, Genova (Italy)
- 1980–1980 Research Fellow, Rheumatology, Regional Research Association
Lega Ligure contro il Reumatismo, Istituto Reumatologico Bruzzone, University of Genoa, Genova (Italy)

Le seguenti sezioni devono avere lunghezza totale compresa fra 2 e 4 pagine.

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements

Selected Publications by Adriana Albini:

1. Corradi A, Bonizzi G, Sajjadi E, Pavan F, Fumagalli M, Molendini LO, Monturano M, Cassi C, Musico CR, Leoni L, Frascarelli C, Pala O, Rocco EG, Albini A, Orecchia R, Fusco N. The Regulatory Landscape

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- of Biobanks In Europe: From Accreditation to Intellectual Property. *Curr Genomics*. 2025;26(1):15-23. IF=1,8
- Garrone O, Paccagnella M, Abbona A, Ruatta F, Vanella P, Denaro N, Tomasello G, Croce N, Barbin F, Rossino MG, La Porta CAM, Sapino A, Torri V, Albini A, Merlano MC. Moderate physical activity during neoadjuvant chemotherapy in breast cancer patients: effect on cancer related inflammation and pathological complete response. The Neo-Runner study. *ESMO Open* 2024. In Press. IF=7,1
 - Albini A, Noonan DM, Corradino P, Magnoni F, Corso G. The past and future of angiogenesis as target for cancer therapy and prevention. *Cancer Prev Res (Phila)*. 2024 May 8. IF= 3,3
 - Biagiotti G, Cazzoli R, Andreozzi P, Aresta G, Francesco M, Mangini C, di Gianvincenzo P, Tobia C, Recchia S, Polito L, Severi M, Vittorio O, Cicchi S, Moya SE, Ronca R, Albini A, Berti D, Orecchia R, Garibaldi C, Minucci S, Richichi B. Biocompatible cellulose nanocrystal-based Trojan horse enables targeted delivery of nano-Au radiosensitizers to triple negative breast cancer cells. *Nanoscale Horiz*. 2024 May 22. IF=9,7
 - Calabrone L, Carlini V, Noonan DM, Festa M, Ferrario C, Morelli D, Macis D, Fontana A, Pistelli L, Brunet C, Sansone C, Albini A. *Skeletonema marinoi* Extracts and Associated Carotenoid Fucoxanthin Downregulate Pro-Angiogenic Mediators on Prostate Cancer and Endothelial Cells. *Cells*. 2023 Mar 30;12(7):1053. IF= 7,666.
 - Mello-Grand M, Bruno A, Sacchetto L, Cristoni S, Gregnanin I, Dematteis A, Zitella A, Gontero P, Peraldo-Neia C, Ricotta R, Noonan DM, Albini A, Chiorino G. Two Novel Ceramide-Like Molecules and miR-5100 Levels as Biomarkers Improve Prediction of Prostate Cancer in Gray-Zone PSA. *Front Oncol*. 2021 Nov 19;11:769158. IF=6,244
 - Albini A, Festa MMG, Ring N, Baci D, Rehman M, Finzi G, Sessa F, Zacchigna S, Bruno A, Noonan DM. A Polyphenol-Rich Extract of Olive Mill Wastewater Enhances Cancer Chemotherapy Effects, While Mitigating Cardiac Toxicity. *Front Pharmacol*. 2021 Aug 3;12:694762. IF=5,810
 - Albini A, Noonan DM. Decidual-Like NK Cell Polarization: From Cancer Killing to Cancer Nurturing. *Cancer Discov*. 2020 Dec 4. IF=29.497
 - Baci D, Bruno A, Cascini C, Gallazzi M, Mortara L, Sessa F, Pelosi G, Albini A, Noonan DM. Acetyl-L-Carnitine downregulates invasion (CXCR4/CXCL12, MMP-9) and angiogenesis (VEGF, CXCL8) pathways in prostate cancer cells: rationale for prevention and interception strategies. *J Exp Clin Cancer Res*. 2019 Nov 12;38(1):464. IF=5,646
 - Bruno A, Bassani B, D'Urso DG, Pitaku I, Cassinotti E, Pelosi G, Boni L, Dominionioni L, Noonan DM, Mortara L, Albini A. Angiogenin and the MMP9-TIMP2 axis are up-regulated in proangiogenic, decidual NK-like cells from patients with colorectal cancer. *FASEB J*. 2018 Oct;32(10):5365-5377. IF= 5.498
 - Nuti E, Bassani B, Camodeca C, Rosalia L, Cantelmo A, Gallo C, Baci D, Bruno A, Orlandini E, Nencetti S, Noonan DM, Albini A, Rossello A. Synthesis and antiangiogenic activity study of new hop chalcone Xanthohumol analogues. *Eur J Med Chem*. 2017 Jul 17; 138:890-899. IF=4,519
 - Cristoni S, Dusi G, Brambilla P, Albini A, Conti M, Brambilla M, Bruno A, Digaudio F, Ferlin L, Tazzari V, Mengozzi S, Barera S, Salier C, Trenti T, Cantu M, Rossi Bernardi L, Noonan DM. SANIST: optimization of a technology for compound identification based on the European Union directive with applications in forensic, pharmaceutical and food analyses. *J Mass Spectrom*. 2017 Jan;52(1):16-21 IF=2.381
 - Principi E, Girardello R, Bruno A, Manni I, Gini E, Pagani A, Grimaldi A, Ivaldi F, Congiu T, De Stefano D, Piaggio G, de Eguileor M, Noonan DM, Albini A. Systemic distribution of single wall carbon nanotubes in a novel model. Alteration of biochemical parameters, metabolic functions, liver accumulation and inflammation in vivo. *Int. J Nanomed* 2016;11 4299-4316 IF= 4.300
 - Albini A, DeCensi A, Cavalli F, Costa A. Cancer Prevention and Interception: A New Era for Chemopreventive Approaches. *Clin Cancer Res*. 2016. Sep 1;22(17):4322-7. IF=9,619
 - Nuti E, Cantelmo AR, Gallo C, Bruno A, Bassani B, Camodeca C, Tuccinardi T, Vera L, Orlandini E, Nencetti S, Stura EA, Martinelli A, Dive V, Albini A, Rossello A. N-O-Isopropyl Sulfonamido-Based Hydroxamates as Matrix Metalloproteinase Inhibitors: Hit Selection and in vivo Antiangiogenic Activity. *J Med Chem*. 2015 Sep 24;58(18):7224-40. IF=6,259
 - Amaro AA, Esposito AI, Mirisola V, Mehilli A, Rosano C, Noonan D, Albini A, Pfeffer U, Angelini G. Endocrine disruptor agent Nonyl phenol exerts an estrogen-like transcriptional activity on estrogen receptor positive breast cancer cells. *Curr Med Chem*. 2014; 21(5):630-40. IF=3,249
 - Albini A, Tosetti F, Li VW, Noonan DM, Li WW. Cancer prevention by targeting angiogenesis. *Nat Rev Clin Oncol*. 2012 Sep;9(9):498-509. IF=18,28

Selected Patents by Adriana Albini:

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1. Deposit Number: 102013902203953 Date: October 31, 2013

Concession number: 1420805 Date: 29/01/2016

Description: ANTI-INFLAMMATORY USE OF LIQUID PHYTOCOMPLEXES FROM OLIVE

Ente: "FATTORIA LA VIALLA DI GIANNI, ANTONIO E BANDINO LO FRANCO - SOCIETA' AGRICOLA SEMPLICE"

Inventors: Gianni LO FRANCO, Adriana ALBINI, Massimo PIZZICHINI, Teresa ROSSI, Antonino BRUNO, Arianna PAGANI

2. Deposit Number: MI2013A000536 Date: 08-04-2013

Concession number: 0001416855 Date: 20-07-2015

Description: "Analoghi Sintetici dello Xantumolo"

Ente: UNIVERSITA' DI PISA , AZIENDA OSPEDALIERA ARCISPEDALE SAN TA MARIA NUOVA / IRCCS ISTITUTO IN TECNOLOGIE AVANZATE E MODELLI ASSISTENZIALI IN ONCOLOGIA

Inventors: ARMANDO ROSSELLO, ELISA NUTI, ELISABETTA ORLANDINI, ADRIANA ALBINI, RITA CANTELMO ANNA, DESIREE BARTOLINI, DOUGLAS NOONAN

codice WIPO: 10MI2013A00053

3. Deposit Number: 102017000106376 Date: 22/09/2017

Concession number: WO2019058320 (A1) Date: 28/03/2019

Description: "USO DI ESTRATTO DI ACQUE DI VEGETAZIONE NELLA RIGENERAZIONE DEL TESSUTO EPITELIALE" - USE OF EXTRACT OF VEGETATION WATERS IN THE REGENERATION OF EPITHELIAL TISSUE

Ente: "FATTORIA LA VIALLA DI GIANNI, ANTONIO E BANDINO LO FRANCO - SOCIETA' AGRICOLA SEMPLICE"

Inventors: Adriana Albin, Antonino Bruno, Daniela DeStefano, Matilde Tramacere, Douglas Noonan

N° ORCID: <https://orcid.org/0000-0002-9624-5103>

Scopus ID: 7103388507

Bibliometric Index:

Scopus: 25,564 Citations by 21,177 documents

h-Index: 88

Google Scholar: Citations 36127

h-Index: 101

Peer recognition

BOARD OF SCIENTIFIC FUNDING AGENCIES

Since 2024 he has been a member of the Scientific Council of the CNR (National Research Council) Dr.

Albin is scientific reviewer for ERC (European Research Council Executive Agency), referee of AACR (American Association for Cancer Research) scientific awards and member of the Evaluation Committee for the ICREA (Catalan Institution for Research and Advanced Studies)) Senior call.

She was a member of the AIRC (Italian Association for Cancer Research) Technical Scientific Committee.

BOARD MEMBER OF THE FOLLOWING SCIENTIFIC ASSOCIATIONS

- Member of AACR (American Association for Cancer Research) Nominating Committee 2023-2024

- Past-Chair of the "Cancer Prevention Working Group-CPWG" of the AACR (American Association for Cancer Research) since 2021

- Board of Directors of AACR (American Association for Cancer Research) 2018-2021

- Member of the Technical Health Committee for Health Research Section of the Ministry of Health since 2018

- Member of the Scientific Committee of ESO (European School of Oncology) since 2017

- Member of the IBSA Foundation for Scientific Research Advisory Board since 2017

- Member of the Technical Scientific Committee of O.N.Da (National Observatory on Women's Health) since 2017

- Member of the Scientific Committee of the Edo Tempia Fund for the fight against cancer

- Member of the Independent Evaluation Body (OIV) of the Anton Dohrn Zoological Station, since 2015

- Member of the Technical Scientific Committee of AIRC (Italian Association for Cancer Research) 2015-2017

- Member of the Board of Women in Cancer Research (WICR) 2006-2010

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-Member of the board of the European Association for Cancer Research (EACR) 2007-2009

-Member of the Technical Scientific Committee of the Italian Association for Cancer Research (AIRC) 2004-2006

AWARDS

1984: Winner of the 1984 International Award "Max-Buerger" of the German Society for Gerontology for best unpublished work on aging (Title of the work: Experiments on Aging in Dermal Fibroblasts)

1987: Winner of the Doerenkamp Zbinden/John's-Hopkins for research, for the development of the "Chemoinvasion Assay) University Award: "Alternatives to Animal Testing" for the development of a new in vitro assay for detection of invasive potential of tumor cells.

1996: Poster awards at the European Conference on Experimental AIDS Research (ECEAR), Cannes, France, 10-13 March 1996

2000: recipient of the Florence Women Award (Firenze Donna) for the sector of Scientific Research

2002: recipient of recognition in the final of the "Focus" award for invention in science

2004: recipient of "Amelia Earhart" Award (Zonta Club)

2007: winner of Berlucci Research Award

2010: winner of Ippocrate Award Section "Research"

2013: winner of the ITWIIN Award (2013 Edition) for High Education in Science (ITWIIN is the Italian Women Inventors and Innovators Network).

2014: winner "Donne che ce l'hanno fatta" (Women who made it) awarded by the Provincial Council of Brescia

2015: Special Recognition Award, EUWIIN International (EUWIIN is the European Union Women Inventors & Innovators Network)

2016: Recognition "TWIS"- Top Italian Women Scientists, Luigi Castagnetta Award in Oncology Research

2018: "Venetian of the year" Award for "the extraordinary scientific career in the field of cancer research and prevention", awarded by the "Settemari" Association

2019: "Sesto d'Oro" Civic Merit, awarded by the Mayor of Sesto San Giovanni (MI)

2020: Included by the BBC, the only Italian, among the 100 most influential and "inspiring" women of the year.

2022: Award Simply Woman-Harmony Award

2023: "Leonardo Di Capua, progresso della scienza per lo sviluppo dei popoli" award, by the Mayor of Bagnoli Irpino (AV)

2023: "Pavoncella for Female Creativity" Award for the Woman of the Year category.

ADDITIONAL INFORMATION

Other contributions to the research community

Adriana Albini has high visibility on internet and social media for her numerous activities towards the research community. She has had leading roles in public and private research institutions, since 1996, she is also certified Journalist and Editor-in-chief of Cancerword magazine by Oncodaily.

She is a scientific collaborator at the IRCCS European Institute of Oncology-IEO.

She was Full Professor, High Qualification Expert of General Pathology, Department of Medicine and Surgery, Milan-Bicocca University of Monza (MB) and Head of the Vascular Biology and Angiogenesis Laboratory of IRCCS MultiMedica, Sesto San Giovanni (MI) and Scientific Director of the MultiMedica Onlus Foundation, Milan.

From 2018 to 2020, Dr. Albini has been Full Professor of General Pathology for the Department of Medicine and Surgery of the Milan-Bicocca University of Monza (MB).

From 2012 to 2015 she was Director of the, "Translational Research Laboratory" of the Santa Maria Nuova Hospital in Reggio Emilia - IRCCS "Advanced Technologies and Care Models in Oncology" and Director of Infrastructure - Research -Quality - Statistics (I- RQS) of the same IRCCS.

From 2006 to 2012 she was Head of Oncological Research at the Scientific and Technological Pole of the IRCCS MultiMedica in Milan and Sesto San Giovanni and Scientific Director of the MultiMedica Research Hospital in Castellanza (VA).

From June 2004 to October 2006 she was Deputy Scientific Director for IST, National Institute for Cancer Research, Genova, Italy and from January 2005 Director of the Department of Translational Oncology at the same institution.

From 31 July 1999 she directed the Laboratory of Molecular Oncology at the National Institute for Cancer Research, Genova, Italy.

Previously she held the position of head of the Section "Mechanisms of induction of neoplastic progression"

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Experimental Oncology Division of IST- Istituto Nazionale Ricerca sul Cancro-Genova.

In all those positions she demonstrated management and organizational skills

Dr. Albini's research has been carried out scientifically autonomously since her graduation thanks also to various funding from CNR, AIRC, the Ministry of Health in her name.

Dr. Albini has always shown knowledge and interest problem solving for her collaborators, both from a strictly work and management point of view and from a personal point of view.

In her experiences in managing complex and departmental structures she has had responsibility for numerous human resources.

She is very versatile in research planning, and has been interested in industrial relations concerning the national research system, with activities including patents and technology transfer.

She has shown excellent ability in planning research and and being involved in activities related to the national research system, ability demonstrated by the achievements during his career (Funding, publications, patents, association boards, journal boards)

ACTIVITIES IN ACADEMIA:

- Professor, Adjunct, General Pathology, Department of Medicine and Surgery, University of Milan-Bicocca, Monza (MB) 2020 to 2022
- Full Professor of General Pathology, Department of Medicine and Surgery, Milan-Bicocca University, Monza (MB) 2018-2020
- Expert for the Doctoral Course in Biotechnology, Biosciences and Surgical Technologies at the University of Insubria in Varese from 2010 to 2017
- Professor for the Master of Science in Biomedical Sciences at the University of Insubria in Varese for the 2016/2017 academic year
- Professor for the Specialization Course in Oncological Pharmacy and Master Course (II ° level) in Oncology Pharmacy and Pharmacology at the State University of Milan from 2005 to today
- Adjunct Professor (on contract) at the Faculty of Science M.F.N., General Pathology Course, from 1999 to 2000.
- Adjunct professor (contract) at the Faculty of Science M.F.N., General Pathology Course, from 1998 to 1999
- Teaching support activities at the Faculty of Medicine and Surgery, Metastasis Biology Course 1996-1997
- Adjunct Professor (on contract) at the Faculty of Medicine, Oncology Course, 1995-1996

Dr. Albini has been supervisor and co-supervisor of numerous degree, doctoral and specialty theses

Scientific Tutor GPS Training Project: "Training of researchers expert in functional imaging techniques genomics and proteomics applied to the development of innovative strategies for cancer diagnosis and therapy prevention" at MultiMedica

EXTRA-UNIVERSITY ACADEMIC ACTIVITIES

- Teacher of numerous courses, seminars and workshops
- "Chairman" or "Invited Speaker" of numerous Congresses and Workshops
- Director and/or organizer of numerous workshops and meetings
- Member, board member and president of Scientific Societies

EDITORIAL BOARD MEMBER OF THE FOLLOWING SCIENTIFIC JOURNALS

Cancerworld: Editor-in-chief

Cancer Prevention Research: Senior Editor

Molecular Cancer Therapeutics

Clinical & Experimental Metastasis

Pathology Oncology Research

PRESIDENT OF THE FOLLOWING SCIENTIFIC ASSOCIATIONS

- President of the Technical Scientific Committee of O.N.Da (National Observatory on Women's Health) 2013-2017
- President of the Italian Society of Cancer Research (SIC) 2007-2009
- President of Metastasis Research Society (MRS) 2002-2004

MEMBER OF THE FOLLOWING SCIENTIFIC ASSOCIATIONS

- American Association for Cancer Research (AACR)
- Italian Society of Cancerology (SIC)
- Metastasis Research Society (MRS)
- Women in Cancer Research (WICR)

TECHNICAL AND PATENT SKILLS AND COMPETENCES

Dr. Albini has devoted most of her scientific and teaching career to Experimental Oncology and Vascular Biology in the Biological, Biochemical and Molecular Biology sectors.

Her main fields of interest in Translational Research are:

Cancer Prevention

Tumor microenvironment

- Development of new potential therapies
- Exploration of new potential biomarkers
- Collection of serum or pathological tissue samples
- Collaboration in the drafting of clinical studies
- Discussion and writing of papers

She deals with tumor microenvironment and angiogenesis, She has worked on new biological and gene transfer, and holds patents for new therapeutic approaches. She studies the molecular aspects of diet components for chronic-degenerative diseases prevention program. In the past, she has developed a model of "Metastasis in a test tube", used all over the world and the subject of a publication that has over 2000 citations in scientific journals, first published in cancer Research and then in Nature Protocols.

She has worked on receptors of the HIV virus and its HIV-tat regulatory protein with numerous publications on the topic of HIV, prestigious journals such as Nature Medicine and Proceedings of the National Academy of Sciences (PNAS).

Her interests have also focused on immunological defence mechanisms and microenvironment, with particular reference to more primitive defence systems (innate immunity). She contributed to the advancement of knowledge in this sector both by formulating new paradigms and identifying new functions. In particular, his studies investigated the role of innate immunity cells in tumour angiogenesis, including neutrophils and recently Natural Killer cells.

She deals with cardio-oncology, or the cardiovascular toxicity of antineoplastic drugs.

She has been dealing with Biobanks for several years and is the recipient of a grant of the Ministry of Health- "Creation and Harmonization of Biobanks within the network of Cardiovascular IRCCS"

Dr. Albini has over 400 publications with IF, has a Hirsch-h index of 103 (Scholar) and 89 (Scopus), is among the first most cited Italian scientists in the world –in biomedicine– and among the first 2 most cited Italian women in the field of cancer research.

She holds several patents for new therapeutic approaches.

Career breaks, diverse career paths and major life events

Dr Albini has two children, born in 1988 and 1992. She took 2 breaks of 6 months each for each child.

She spends time in activity of Women empowerment, she is the incoming President of EWMD, European women Management and Development, Italian section. She is participating to international events as veteran Fencer.