

Curriculum Vitae of Antonio Giordano, M.D, PhD

PERSONAL DATA



Name: Antonio Giordano

Website: www.shro.org

EDUCATION:

1980-1986 M.D. Degree, Summa cum laude. 1st Medical School, University of Naples, Naples, Italy

1987-1990 Ph.D Experimental and Clinical Pathology, University of Trieste, Italy

POSITIONS AND HONORS

1983-1986 Internship, Department of Pathology, 1st Medical School, University of Naples, Italy

1987-1988 Postdoctoral Fellow, Depts. of Microbiol and Immunology, New York Medical College, Valhalla, NY

1988-1992 Postdoctoral Fellow, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY

1990-1992 Postdoctoral Fellow, Irvington Institute for Medical research, NY

1992-1994 Assistant Professor Biochemistry with joint appointments at Fels Institute for Cancer Research & Molecular Biology & Pathology, Temple Univ. School of Medicine, Philadelphia, PA

1994-1996 Assistant Professor, Department of Pathology Anatomy and Cell Biology, Kimmel Cancer Institute, Thomas Jefferson University, Philadelphia, PA

1996-1996 Associate Professor, Department of Pathology Anatomy and Cell Biology, Sbarro Institute, Thomas Jefferson University, Philadelphia, PA

1996-2001 Professor, Department of Pathology Anatomy and Cell Biology, Sbarro Institute, Thomas Jefferson University, Philadelphia, PA

2001-Present Professor, Department of Biology and Medicine, Temple University, Philadelphia, PA

2002-Present Director, Sbarro Health Research Organization, Temple University, Philadelphia, PA

2004-Present Director, Center of Biotechnology, Temple University, Philadelphia, PA

2004-Present “Chiara Fama” Professor, Department of Medicine, Surgery and Neuroscience, University of Siena, Italy

2013-Present Trustee of The American University of Rome

2014-Present Director, Professional Master Program (PSM) in Bioinnovation, Temple University, PA

2019- Member of scientific board of "Scuola Superiore Meridionale" of Naples. (Appointed by Italian Minister of Education)

2020- Member of ISS (National institute of health) scientific board as "Representative of the Ministry of the Environment"

2020- Member of ISS (National institute of health) scientific board as "Representative of the Ministry of the Environment" Director of a scientific board aimed to contrast damage caused by environmental pollution (Ministry of Health)

2023 Director of a scientific board aimed to make health easy for Italians abroad (Ministry of Foreign Affairs)

2023 Member of the scientific board of the Italian League for the fight against cancer (LILT)

2024 Director of scientific board aimed to contrast damage caused by environmental pollution (Ministry of Health)

OTHER APPOINTMENTS

1993-Present President, Chairman of the Board and Founder of the Sbarro Health Research Organization (recognized as a Tax Exempt Organization under section 501 (c)(3) of USA Internal Revenue Code Tax I.D. No.: 23-2745953)

2000-2004 Adjunct Professor, Department of Pharmacology - University of Naples (Italy)

2001-Present Member Executive Council Collegium Ramazzini, Bologna, Italy

2001-2004 Adjunct Professor, Department of Obstetrics and Gynecology University of Bologna, Bologna, Italy

2006-Present Member of Editorial Academy of the International Journal of Oncology

2006-Present Founder and Chairman of the Scientific Advisory Board of the Human Health Foundation, Spoleto, Italy

2007- 2013 President of the Scientific Advisory Board and Director of Research line 3 of the Centro di Ricerche Oncologiche di Mercogliano (CROM), Mercogliano, Italy

2010 Honorary Professor of the Autonomous University of Santo Domingo in the Dominican Republic (for achievements in research and the development of biomedicine)

2011 Named member of the Board of Directors of the National Italian American Foundation

2013 Editorial Board Member of Stem Cell Discovery

2014 Advisory Board Member Guglielmo Marconi University

2014 – present Technical Advisor of the Avellino Public Prosecutor's Office for the Isochimic case

2017 Scientific Director of the Medeaterranea - food and wine academy – Naples

2019 President of FONICAP Association

OTHER PROFESSIONAL ACTIVITIES

REVIEWER |Prof. Giordano is grant reviewer for the American Cancer Society and the National Institutes of Health (National Cancer Institute branch); Expert reviewer for SPORE grants in lung and prostate cancer; External reviewer for evaluating research programs for the Food and Drug Administration; Ad hoc reviewer for National Science Foundation and Veteran Administration grant programs. Reviewer for U.S. Department of Defense grant applications. Reviewer of research grant applications submitted to the Italian government (M.I.U.R.- Ministry of Italian Universities) and to European Community review panels. Italian Delegate for Life Sciences for the Framework Program VII (2007-2013). Reviewer for MRC SIR grants and panel member for SRA Lung Cancer Research Program. Over the years, Dr. Giordano has been an Invited Lecturer at hundreds of scientific meetings held within the U.S. and abroad.

PROFESSIONAL ORGANIZATIONS |He is member of several professional organizations such as: American Association for Cancer Research; American Association for the Advancement of Science; The New York Academy of Science; International Society for the Study of Comparative Oncology; Società Italiana Tumori; Gruppo Oncologico dell'Italia Meridionale (GOIM); Italian Society of Histochemistry; Mediterranean Oncology Group; National Italian American Foundation; U.S. Food and Drug Administration; Stem Cell Research Italy.

EDITORIAL BOARDS

PAST

Journal of Cellular Biochemistry
Journal of Cellular Physiology
La Clinica Terapeutica
Anticancer Research
Molecular and Cellular Differentiation
Cancer Biology and Therapy
Reference Module in Life Science, Cell Biology and Genetics section
Current Cancer Therapy Reviews
Journal of Molecular Biology and Biotechnology
Frontiers in Bioscience
Journal of Clinical Pathology and Molecular Pathology
The Women's Oncology Review
The Journal of Experimental & Clinical Cancer Research
Journal of Neurovirology
International Journal of Oncology(WJBC)
World Journal of Clinical Oncology Physiology Journal
Journal of Social and Economical Issues of Biotechnology
Chinese Journal of Clinicians (CJC)
World Journal of Translational Medicine
World Journal of Medical Genetics (WJMG)
International Journal of Molecular Science (IJMS)

The Open Cancer Journal (TOCJ)

The Open Proteomics Journal (TOPROTJ)

The Open Biomarkers Journal

BMJ Case Reports

Journal of Cell Death

International Journal of Biomedical Science

Genetics and Epigenetics Journal

Current Signal Transduction Therapy

Current Clinical Pathology and Oncology
(Series Editor)

The Open Breast Cancer Journal (TOBCANJ)

Journal of Tumor

The Open Lung Cancer Journal (TOLCJ)

The Open Drug Safety Journal (TODSJ)

Lung cancer: Targets and Therapy

Gene Review Letters

Oncotarget

World Journal of Biological Chemistry

Cancer Reports (CR)

Sequencing

Cancer Therapy

PRESENT

Journal of Cancer Metastasis and Cancer Treatment
MDPI: Oncology" in Diseases
Journal of Experimental & Clinical Cancer Research
Cancer Drug Resistance
Stem Cell Discovery (SCIRP)
Translational Medicine Reports
Frontiers in Oncology
Annals of Research in Oncology

AWARDS AND HONORS

1990 International Sebetia Ter (for outstanding young investigator)

1992 Upjohn AACR Program Committee (for his work on tumor suppressor gene)

1995 Irving J. Selikoff Award for Cancer Research

1998 Rotary International Award

1999 Lions Club Napoli-Europa for outstanding achievements in cancer research

2001 Honored as Knight of the Republic of Italy for outstanding achievements in cancer research

2003 National Italian-American Political Action Committee (NIA-PAC) National Lifetime Achievement Award in Medical Research

2004 International Miami Award for Biomedical Research

2004 Cabrini-Neumann-Sons of Italy Award for Distinguished Contributions to Higher Education and the Academic Community Distinguished Italian-American Award

2004 International Award from "Gente d'Italia" for scientific achievements, Miami

2005 The National Organization of Italian American Women (NOIAW)'s Special Recognition Award, for Research achievements in the fields of cell cycle, gene therapy and the genetics of cancer

2005 National ILICA (Italian Language Inter-Cultural Association) Award, for contributions to the research

Leading to conquering devastating diseases

2006 Purple Aster Ball Award from Order of Sons of Italy for scientific achievements

2006 14th Annual "A. Talegalli" Award for his scientific research, given by the "Punto Eggi" Association, city of Eggi (Italy)

2006 National Solidarity Award "Padre Pio per la Pace", Fiuggi, Italy

2006 Bi-annual International "Don Luigi Sturzo" Award in Ethical Research, given by the Associazione Internazionale di Apostolato Cattolico, Naples, Italy

2006 Associazione Senologia Del Mediterraneo for advanced scientific and professional teachings

2007 "Leonardo Renaissance Mediterraneo" Award for accomplishments in research, given by the Gruppo Alberghiero Salvatore Naldi, Italy

2007 Saint Valentine's Prize for scientific achievements, given by city of Terni (Italy)

2007 ILICA Award for research contribution, Arezzo, Italy

2009 Confindustria Napoli award "Napoletani eccellenti nel mondo"

2009 Filippo Mazzei Award

2010 "Made in Italy" Gran Gala Award

2010 Volere Volare Award – The Best of "Made in Italy"

2010 Radio Latte e Miele "Person of the Year" Award

2010 Cosentino Award, San Fedele a Pioppi (Arezzo, Italy)

2010 "United for Life" Award for Excellent Contribution to Scientific Research, Civitanova, Marche, Italy

2010 Honorable distinction as Knight Commander by the Italian Republic

2010 Honorary Professor of the Autonomous University of Santo Domingo in the Dominican Republic (for Achievements in research and the development of biomedicine)

2012 Grande Ippocrate Award for the excellence in scientific research

2013 "2013 National Award Arycanda" for his commitment to the environment (Pozzuoli, Italy)

2017 "CORE Award for Oncology 2017" on behalf of Centro Oncoematologico Reggio Emilia (CORE)

2018 Medaglia d'argento di Benemerenzia Civica (Napoli, Italy)

2018 "Filitalia International's 30th Anniversary", Citizenship Award (Bensalem, Pennsylvania, PA)

2018 "Premio di Giornalismo "Posillipo, Cultura del Mare", Edizione Speciale Legalità (Napoli, Italy)

2019 "Cristopher Columbus Award", New York (NY)

2019 "Premio alla carriera", Associazione FONICAP, Verona (Italy)

2021 "Premio alla carriera per la costante e qualificata attività nel campo della ricerca oncologica e della formazione", ASL di Taranto, Taranto (Italy)

2023 "Premio da Vinci" by Italian Heritage and Culture Committee-NY

2023 "Magna Grecia Awards" by Magna Grecia Awards & Fest (Castellaneta, Italy)

2024 "Premio Internazionale Fides et Scientia-Vincenzo De Colibus_IX edizione"

2024 Filitalia International & Foundation "4rd Annual Heroes Awards"

2024 Premio Internazionale Scuola Medica Salernitana

ITALIAN NATIONAL GRANTS AWARDED TO PROF. GIORDANO AS PRINCIPAL INVESTIGATOR (2004 - PRESENT)

MPS Foundation **2004**, "Research project on the role of pRb2/p130 in Medulloblastoma development: from mechanism to gene therapy". € 100.000,00.

PAR **2004**, "pRb2/p130 in lung cancer: from molecular mechanisms to gene therapy". € 23.000,00.

AIRC **2004-2005**, "ER-trascriptional regulation by pRB proteins: potential prognostic markers and therapeutic targets in breast cancer". € 75.000,00.

PAR **2006**, "pRb2/p130 role in senescence induced by radiations". € 25.000,00.

PRIN **2008**, "Angiogenesis and cellular transformation: novel biological and molecular interaction mechanisms". € 30.600,00.

ITT **2008**, "The small molecule Spa310 derived from the spacer domain of pRb2/p130 tumor suppressor as a perspective candidate for cancer therapy". € 159.000,00.

AIRC **2010**, "Dissecting pRb2/p130 multiple functions in lung tumorigenesis". € 150.000,00.

AIRC **2014**, "Dissect pRb2/p130 role in apoptosis and its interplay with the Akt pathway to explore its tumor suppressor potential". € 130.000,00.

Meso Foundation **2017**: "PRMT5 as two-in-one strategy for mesothelioma treatment". € 100.000,00.

PRIN **2022**: "New frontiers in the treatment of malignant pleural mesothelioma: wild-type caprine

herpesvirus type 1 (CpHV-1)" € 294.000,00

PNRR 2022 Spoke 7

INTERNATIONAL GRANTS AWARDED TO PROF. GIORDANO AS PRINCIPAL INVESTIGATOR (2002 – PRESENT)

National Cancer Institute NIH R21 CA94802-01, July **2002**-Jun **2004**. "Functional Interaction between HIV-1 products and cell cycle proteins". \$ 100,000

National Cancer Institute NIH RO1 CA094804-02, Mar **2002**-Dec **2006**. "Human Neurotropic JC Virus and CNS Diseases". \$ 222,500

National Cancer Institute NIH RO1 CA 60999-09A2, July **2004**-Jun **2009**. "pRb2/p130 from Mechanisms to Therapy". \$ 1,659,000

SBARRO HEALTH RESEARCH ORGANIZATION, INC.

Commonwealth of Pennsylvania

DCED-1, July **2003**. Department of Community & Economic Development #C000007313. Local Municipal Resources and Development Program. \$ 500,000

DoH-1, July **2004**. Department of Health - SAP #4100023913. Lung Cancer Development: Rb2/p130 as a Guardian Gene. \$ 1,500,000

DoH-2, July **2005**. Department of Health - SAP#4100034057. Cancer Biomolecular Markers Research. \$ 1,000,000

DLI-1, July **2005**. Department of Labor and Industry #IS06-161. Philadelphia Workforce Development-Training Grant. \$ 750,000

DoH-3, July **2006**. Department of Health - SAP #4100036651. Cancer Biomolecular Markers Research. \$ 1,000,000

DoH-4, July **2007**. Department of Health - SAP #4100042016. Cancer Biomolecular Markers Research. \$ 2,000,000

DoH-5, Nov **2008**. Department of Health - SAP #4100046197. Cancer Biomolecular Markers Research: Tools of Diagnosis & Prognosis in Lung Tumorigenesis. \$ 2,000,000

DLI-2, Jan-Jun **2009**. Department of Labor & Industry - N00: 248-07-001. Workforce Development Training Program. \$ 200,000

DLI-3, Jan-Jun **2010**. Department of Labor & Industry - N00: 248-08-001. Workforce Development Training Program. \$ 300,000

RACP-1, Sept **2007**-Oct **2008**. Commonwealth of Pennsylvania Redevelopment Assistance Capital Project/New Lab. \$ 1,500,000; Temple University - Match New Lab.

Redevelopment Assistance Capital Project\$ 1,500,000

DoH-6, Nov **2009**-Oct **2010**. Dept. of Community & Economic Development. Stem Cells in Cancer Research. \$ 500,000

DoH-7, Jul **2010**-Jun **2011**. Pennsylvania Department of Health - SAP #4100054936. Impact of Dietary Factors and Obesity in Cancer Development. \$ 1,250,000

DCED-2, Jul **2008**-Jun **2012**. Commonwealth of PA - DCED#C00004897. Lung Cancer Biotechnology Research & Training Project. \$ 1,400,000

RACP-2, Jan **2009**-Dec **2011**. Commonwealth of PA. Redevelopment Assistance Capital Project. SHRO/Beech Interplex Inc. – Development Project. \$ 1,500,000

RACP-3, June **2010**-Jul **2012**. Commonwealth of PA. Redevelopment Assistance Capital Project. University City Science Center Development Project. \$ 1,000,000

Pennsylvania Department of Health. July **2012**-June **2013**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

Pennsylvania Department of Health. July **2013**-June **2014**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

Pennsylvania Department of Health July **2014**-June **2015**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

Pennsylvania Department of Health July **2015**-June **2016**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

Pennsylvania Department of Health July **2016**-June **2017**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

Pennsylvania Department of Health July **2017**-June **2018**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

Pennsylvania Department of Health July **2018**-June **2019**. Sbarro Inc. Biotechnology Grant. \$ 1,000,000

U.S. Department of Defense

DoD-1, Jun **2006**. MRMC. Biomarkers in Breast Cancers. \$ 890,000

DoD-2, Jun **2007**. TATRC. Biomarkers in Breast Cancers. \$ 900,000

DoD-3, Jun **2008**. TATRC. Biomarkers in Breast Cancers. \$ 1,054,000

SCIENTIFIC CONTRIBUTION

MAIN DISCOVERIES | At 26, while a post-doctoral fellow at Cold Spring Harbor Laboratory in New York, Giordano made significant contributions to the field of cancer research. His work led to the recognition that an identical protein species occurs in complexes with both a virus and with the cell cycle regulatory kinase cdc2. Later, this protein species was identified as protein cyclin A, a substance that regulates cell cycle growth. This work helped setting the stage for subsequent discovery in several other laboratories.

Giordano went on to discover Rb2/p130 in the early 1990s while serving as a member of Temple's School of Medicine faculty and as a researcher at the Fels Institute for Cancer Research and Molecular Biology. Since that time, Giordano and SHRO researchers have established links between Rb2/p130 and its expression with the regression of cancer in the lungs, the aggression of cancer in the liver and ovaries, the effectiveness of drug therapies against breast cancer, and as a potential prognosticator of prostate cancer.

Giordano also discovered Cdk9 and Cdk10, two protein kinases that must be activated to guarantee proper progression through the cell cycle. Research has subsequently shown that Cdk9 is a multifunctional protein that plays a critical role in cell differentiation, particularly in muscles, HIV transcription, and the inception of tumors. Recent research has focused on the role of Cdk9-55 in helping to regenerate muscle tissue in cases of muscle wasting from disease or aging.

In July of 2009, Giordano was ranked third on the list of "Laboratory Heads by Number of Publications" on the Cell Cycle Registry, attesting the relevance at international levels of his work on cell cycle regulation.

In 2004, Giordano discovered Novel Structure Proteins (NSPs), a new family of structure proteins with a possible role in nuclear dynamics during cell division. One form of the gene, the isoform NSP5a3a, is highly expressed in some tumor cell lines and could be very useful as a tumor marker. Isoforms from NSPs, a new family of genes could be involved in apoptosis or programmed cell death.

Giordano also played a major role in studying the cyclin-dependent-kinase inhibitor p27 which serves as the prognosticator factor in cancer patients.

Giordano's early investigation and findings on the cell cycle has contributed to a new series of drugs currently in clinical trials. In 2009, he was invited to write on this topic on *Nature Reviews Drug Discovery* in recognition of his role as a leading international researcher in this field **HEALTH AND ENVIRONMENT** |

In the past few years Giordano has devoted many efforts to the study of the relation between cancer and environmental pollution in the Italian region Campania. He was among the first to report an increased incidence of various tumor types in the population living close by sites of illegal toxic waste dumping. On this theme he did not only publish scientific articles but also committed to make known these data through: two books on the topic '*Campania, land of poison*' (<http://www.campaniaterradiveleni.com/home-eng.html>) and '*Monnezza di stato. La terra dei fuochi nell'Italia dei veleni*' edited by Denaro Libri and Minerva respectively; by launching a petition to safeguard the environment, which was signed up by over 500 researchers and people in various fields; and through many other no-profit activities.

For more information about Antonio Giordano's contribution to the Health and Environment theme please read also his interview to the Italian Scientists and Scholars of North America Foundation: (<http://www.issnaf.org/italians/intervista-con-antonio-giordano.html>)

AN INTERNATIONAL MODEL | In 1993, Giordano founded the Sbarro Institute with a donation from Mario Sbarro, founder of the Sbarro restaurant chain, following Dr. Giordano's discovery of the tumor suppressor gene pRb2/p130. Initially named the Sbarro Institute, the research center was located at Thomas Jefferson University, where Giordano was a professor. When Giordano moved to Temple University in 2002, he and twenty fellow scientists forged a new, three-year alliance with Temple University in Philadelphia, Pennsylvania. Under the new arrangement, the original Sbarro Institute was renamed the Sbarro Health Research Organization, Inc., which includes the Sbarro Institute for Cancer Research and Molecular Medicine. SHRO funds a program in the University Of Siena. In 2006, Giordano founded the Human Health Foundation (HHF) with the Banca Popolare di Spoleto. The charitable organization raises funds to support biomedical research and health education in Italy.

TEACHING RESPONSIBILITIES |Giordano dedicates a great part of his time in teaching (please find below a list of courses presented during his career) and in setting up new strategies for the education of young scientists. For example, he opened a SHRO island on Second Life (SL), a three-dimensional virtual world created by Linden Laboratories in 2003, whose participants, called residents, reached in July 2008 more than 14 million with a total of 1.205.307 logging in from May to July 2008: SHRO island on SL includes laboratories, a conference room, places for informal discussions and offices. So far, SHRO Island hosted international meetings and tours for students and PhD students in the virtual laboratories in which they can have a virtual training in performing some experiments with the help of notecards explaining technical and scientific details of the different experimental steps.

COURSES PRESENTED |

Cell Cycle of Cancer, a graduate course, Department of Biochemistry. Temple University, Philadelphia, PA, 1992-1994

Tumor Suppressor Genes, course in genetics, Department of Biochemistry. Temple University, Philadelphia, PA, 1992-1994

Tumor Suppressor Genes in cancer, course in genetics. Thomas Jefferson University, Philadelphia, PA, 1996-2002

Cyclins and Cyclin Dependent Kinases in Cell Cycle of Cancer, course in genetics. Thomas Jefferson University, Philadelphia, PA, 1996-2002

Transcription Factors in Cancer, course in genetics. Thomas Jefferson University, Philadelphia, PA, 1996-2002

Cell Cycle and Cancer, course in Biochemistry. Thomas Jefferson University, Philadelphia, PA, 1999-2002

Cell Cycle and Growth Control (Bio 822). Sbarro Institute for Cancer Research and Molecular Medicine, College of Science and Technologies, Temple University Philadelphia, PA, 2002

Biotechnology for Gene Therapy University of Siena, Siena, Italy, 2008-2014

Molecular Investigations in Pathology, University of Siena, Siena, Italy, 2008-2015

Experimental Oncology, Course in Medical Biotechnologies, University of Siena, Siena, Italy, 2010-2012

Human Pathology, Course in Medical Biotechnologies, University of Siena, Siena, Italy, 2013-2014

Pathological Anatomy, Course in Physiotherapy, University of Arezzo, Arezzo, Italy, 2012-2014

Pathological Anatomy and Histology, course in Biomedical Laboratory Techniques, University of Siena, Siena, Italy, 2012

Pathological Anatomy, Course in Physiotherapy, University of Siena, Siena, Italy, 2015

Pathological Anatomy and Histology, Course in Environment and Workplace Prevention Techniques, University of Siena, Siena, Italy, 2011-today

Pathological Anatomy, course in Speech and Language Therapy, University of Siena, Siena, Italy, 2015.

STUDENT ADVISOR |Giordano also dedicates to the training and support of numerous researchers. He has been student advisor of: Wuchao Yuan, Ph.D. Student, Research Mentor, 1993 -1996; Nianli Sang, Ph.D. Student, Research Mentor, 1993-1997; Charity Dean, MS Student, Research Mentor, 1996-1998; Timothy McLachlan, Ph.D. Student, Research Mentor, 1994-1998; Candace Howard, M.D., Ph.D. Student, Research Mentor, 1995-1998; Sal Vitelli, MS Student, Research Mentor, 1997-1998; Christine Kumar, Research Mentor, 2002-2004; Cristina Hillson, Research Mentor, 2002-2003; Giuseppe Russo, Research Mentor, 2001-2005; Paraskevi Vogiatzi, Research Mentor, 2002 – 2006; Margherita Cerrone, Research Mentor, 2003 – 2007; Daniela Trani, Research Mentor, 2004-2007; Luca D'Agostino, Research Mentor, 2004-2007; Ang Sun, Research Mentor, 2005-2009; Steven Tutton, Research Mentor, 2002-2005; Andrew Puca, Research Mentor, 2005-2008 ; Annalisa Roberti Ph.D student, Research Mentor, 2005- 2009; Chiara Lucchetti, Research Mentor, 2005- 2008; Mario Mancino Ph.D student, Research Mentor, 2005- 2009; Flavio Rizzolio Ph.D Student, Research Mentor, 2006- 2010; Giovanni Abbadessa Ph.D student, Research Mentor, 2006-2010; Cynthia Carrillo Infante, Research Mentor, 2006- 2009; Eliseo Mattioli, Research Mentor, 2006- ; Monica Mischitelli Ph.D student, Research Mentor, 2007-2011; Raffaele La Montagna Ph.D Student, Research Mentor, 2007- 2011; Maria Giovanna Boiano, Research Mentor, 2007- ; Valentina Malafoglia, Research Mentor, 2009-2012; Giulio Laurenti, Research Mentor, 2012-2013; Silvia Boffo, Research Mentor, 2012 ; Fatima Morales, Research Mentor, 2013; Valeria Rizzo, Research Mentor 2011 – 2013; Giovanna Elvira Granato, Research Mentor 2012 - 2013, Valentina Tomei Ph.D. Student, Research Mentor 2007-2014; Pacifici Marco Ph.D student, Research Mentor 2008-2012; Iris Maria Forte Ph.D. Student, Research Mentor 2008-2012; Olabinjo Olayinka Olabinjo Ph.D Student, Research Mentor 2009-2014; Nadia

Casini Ph.D. Student, Research Mentor 2009-2014; Martina Cozzi Ph.D. Student, Research Mentor 2008-2016; Francesca Giorgi Ph.D. Student, Research Mentor 2008-2013; Eleonora Marcelli Ph.D. Student, Research Mentor 2009-2013; Daniele Conti, Ph.D. Student, Research Mentor 2009-2013; Elisa Ceccherini Ph.D. Student, Research Mentor 2012-2015; Luca Napoliello Ph.D. Student, Research Mentor 2012-2015; Daniela Barone Ph.D. Student, Research Mentor 2012-2015; Anna Russo Ph.D. student, Research Mentor 2012-2015; Carla Milanese Ph.D. Student, Research Mentor 2012-2015; Daniele Cesari Research Mentor 2015; Leonardo Del Porro Research Mentor 2015; Riccardo Intruglio, Research Mentor 2016; Antonella Caporaso Ph.D. Student, Research Mentor 2013-2017; Carmelina Antonella Iannuzzi Ph.D. Student, Research Mentor 2013-2017; Antonella Penon Ph.D. Student, Research Mentor 2013-2017; Mancuso Pietro Ph.D. Student, Research Mentor 2014-2018; Delaram Rahmani Ph.D. Student, Research Mentor 2014-2018; Carlo Astarita Ph.D. Student, Research Mentor 2015-201; Angela Altieri Ph.D. Student, Research Mentor 2016-2021; Daniele Cesari Ph.D. Student, Research Mentor 2016-2021; Costantino D'Angelo Ph.D. Student, Research Mentor 2017-2021; Milena Dell'Aquila Ph.D. Student, Research Mentor 2017-2021; Beniamino Fulco Ph.D. Student, Research Mentor 2017-2021; Marcella Barbarino Ph.D. Student, Research Mentor 2018-2022; Maria Eusebia Bottaro Ph.D. Student, Research Mentor 2018-2022; Martina Bruno Ph.D. Student, Research Mentor 2019-2023; Aurora Costa Ph.D. Student, Research Mentor 2019-2023.

PATENTS (number, title, holder, issue date)

- 1) US 2009028579WO2009139876 A2 Regenerating and enhancing development of muscle tissue. Giordano, Antonio 19.11.2009
- 2) US20090054333 A1 Peptide inhibitors of cyclin-dependent kinase activity and uses thereof. Giordano, Antonio 26.02.2009
- 3) EP1914241 A1 Peptide inhibitors of cyclin-dependent kinase activity and uses thereof Giordano, Antonio Date of publication 23.04.2008
- 4) WO2007008252 A1 Genetic and epigenetic alterations in the diagnosis and treatment of cancer. Giordano, Antonio 18.01.2007
- 5) WO2006017239 A1 Methods for determining presence of cancer by analyzing the expression of cyclin-dependent kinase 9 (CDK9) and/or cyclin T1 in lymphoid tissue. Giordano, Antonio 16.02.2006
- 6) WO2005033285 A2 Gene modulation by RB2/p130 expression. Giordano, Antonio 14.04.2005
- 7) WO2005027712 A2 Methods of diagnosing, prognosing and treating breast cancer. Giordano, Antonio 31.03.2005
- 8) US6162612 A Human cyclin-dependent protein kinase-like proteins and methods of using the same. Giordano, Antonio 19.12.2000
- 9) WO2000015649 A1 Methods of inhibiting smooth muscle cell proliferation and preventing restenosis with a vector expressing RB2/p130. Giordano, Antonio 23.03.2000
- 10) WO9908700 A1 pRb2/p130 peptide inhibitors of cdk2 kinase activity. Giordano, Antonio 23.02.1999
- 11) WO9855598 A1 A method of inhibiting cancer cell growth using a vector expressing prb2/p130. Giordano, Antonio 10.12.1998
- 12) US5840506 A Methods for the diagnosis and prognosis of cancer. Giordano, Antonio 24.11.98
- 13) WO9851821 A1 Determination of cyclin-dependent kinase inhibitor p27 levels as a prognostic factor in cancer patients. Giordano, Antonio 19.11.1998
- 14) US5807681 A Human Retinoblastoma-related (PRB2/P130) genomic DNA and methods for detecting mutations therein Giordano, Antonio 15.09.98
- 15) WO9738125 A1 Methods for the diagnosis and prognosis of cancer. Giordano, Antonio 16.10.97
- 16) WO9628555 A1 Novel human cyclin-dependent kinase-like proteins and methods of using the same. Giordano, Antonio 19.09.1996
- 17) WO9505470 A1 Tumor suppressor protein pRB2, related gene products, and DNA encoding therefor Giordano, Antonio 23.02.1995

BOOKS AND BOOKS CHAPTERS

1. Chang, C., Sacco, J., Mak, G., Welch, W., Mizzen, L., Morris, G., Mathews, M.B., Giordano, A., Harlow, E., Beach, D., Draetta, G., Franza, B.R. Jr., Garrels, J.I. (1989). Building databases with the QUEST system: The HeLa database. Electrophoresis Forum (ed. BJ. Radola): 47-51. Technical University of Munich, Munich.

2. De Luca A., Baldi A., Claudio P.P., Howard C.M., Campisi S., Giordano A., Condorelli G.: The retinoblastoma gene and its role in cancer and differentiation. (1995): *Future Trends in Endocrinology* 14, 197-206 Ares Serono Symposia Publications
3. Mayol, X., Graña, X., Baldi, A., Giordano A. (1995) The Adenovirus E1A oncoproteins: a link between transformation and cell cycle. *Future Trends in Endocrinology: Cell cycle and Cancer* (Ed. A. De Bellis, E.Schipani). Ares Serono Symposia Publications. 14: 217-231.
4. Baldi A., Esposito V., De Luca A., Caputi M, Giordano G.G., Baldi F., Giordano A. (1995): Expression pattern of the retinoblastoma-related genes Rb2/p130 and p107 in normal human tissues and gastric cancer. In XX Congresso Nazionale di Oncologia S.I.P.D.T.T. Monduzzi Editore 111-123.
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