

1/10/08

CURRICULUM VITAE

ANTONIO GIORDANO

PERSONAL DATA:

Date of Birth: October 11, 1962
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EDUCATION:

1980-1986 M.D. Degree, Summa cum laude. 1st Medical School, University of Naples, Naples, Italy.
1987-1990 Ph.D. in Pathology, Summa cum laude. Dept. of Pathology, Medical School, University of Trieste, Italy.

PROFESSIONAL EXPERIENCE:

Internships and Fellowships

1983-1986 Internship at Dept. of Pathology, 1st Medical School, University of Naples
1987-1988 Post-doctoral Fellow of the Dept. of Microbiology and Immunology, New York Medical College, Valhalla, New York
1988-1992 Post-doctoral Fellow, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York
1990-1992 Fellow of the Irvington Institute for Medical Research

Medical School Teaching Experience

1992-1994	Assistant Professor, Depts. of Pathology and Biochemistry, Fels Institute for Cancer Research and Molecular Biology Temple Univ. School of Medicine, Philadelphia, PA
1994-1996	Assistant Professor, Depts. of Microbiology-Immunology and Pathology, Kimmel Cancer Institute, Jefferson Medical College, Philadelphia, PA
7/1/1996-7/1/2001	Associate Professor, Depts. of Pathology, Anatomy & Cell Biology Jefferson Medical College, Philadelphia, PA
7/1/2001-3/1/2002	Professor, Depts. of Pathology, Anatomy & Cell Biology, Jefferson Medical College, Philadelphia, PA
3/1/2002-	Director, Sbarro Institute for Cancer Research and Molecular Medicine & Professor of Biology, College of Science and Technology, Temple University, Philadelphia, PA
1/1/2004-	Director, Center of Biotechnology, College of Science and Technology, Temple University, Philadelphia, PA
1/1/2004-	“Chiara Fama” Professor of Pathology, Department of Human Pathology & Oncology, University of Siena, Siena, Italy

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.
1998-Present	Who’s Who in Science and Engineering; Who’s Who in the World
1999-Present	Member of the Board of Directors of the Ramazzini Institute for Occupational and Environmental Health Research, Solomons, MD
1999-2004	Adjunct Professor, Department of Human Pathology and Oncology University of Siena (Italy)
2000-2004	Adjunct Professor, Department of Pharmacology University of Naples (Italy)
2001-2004	Adjunct Professor, Department of Obstetrics and Gynecology

University of Bologna, Bologna, Italy

- 3/1/2002- Adjunct Professor, Depts. of Pathology, Anatomy & Cell Biology,
Jefferson Medical College, Philadelphia, PA
- 2001- Member Executive Council Collegium Ramazzini, Bologna, Italy
2006- Member of Editorial Academy of the International Journal of Oncology
- 2006- Founder and Chairman of the Scientific Advisory Board of the Human
Health Foundation, Spoleto, Italy
- 2007- President of the Scientific Advisory Board of the Centro di Ricerche
Oncologiche di Mercogliano (CROM), Mercogliano, Italy

EDITORIAL BOARDS:

Journal of Cellular Biochemistry
Journal of Cellular Physiology (Reviews Editor & Associate Editor)
La Clinica Terapeutica (Associate Editor)
Anticancer Research
Molecular and Cellular Differentiation (1994-1997)
Cancer Biology and Therapy (Associate Editor)
Cancer Therapy
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 (Associate Editor)
The Journal of Experimental & Clinical Cancer Research (Editor-USA)
Journal of Neurovirology
International Journal of Oncology
The Open Cancer Journal (OC)

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS:

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; Italian Society of Histochemistry; Mediterrean Oncology Group

NATIONAL ACTIVITIES:

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. Over the past 10 years, Dr. Giordano has been an Invited Lecturer at over 200 scientific meetings held within the U.S. and abroad.

AWARDS:

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| 1990 | International Sebetia Ter (for outstanding young investigator) |
| 1992 | Upjohn AACR Program Committee (for his work on tumor suppressor) |
| 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
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

PUBLICATIONS

Peer Review Articles

1. Ziai, M.R., **Giordano, A.**, Armandola, E., Ferrone, S. (1988). Purification by ammonium sulfate precipitation of bacteriophage Igt11 DNA for restriction analysis of cloned cDna inserts. *Anal. Biochem.*, 171:192-196.
2. **Giordano, A.**, Whyte, P., Harlow, E., Franza, B.R., Beach, D., Draetta, G. (1989). A 60 kd cdc2-associated polypeptide complexes with the E1A proteins in adenovirus infected cells. *Cell*, 58:981-990.
3. **Giordano, A.**, McCall, C., Whyte, P., Franza, B.R. (1991). Human cyclin A and the retinoblastoma protein interact with similar but distinguishable sequences in the adenovirus E1A gene product. *Oncogene*, 6:481-485.
4. **Giordano, A.**, Lee, J., Scheppler, J.A., Herrmann, C., Harlow, E., Deuschle, U., Beach, D. Franza, B.R. (1991). Cell-Cycle Regulation of Histone H1 Kinase Activity Associated with the Adenoviral Protein E1A. *Science*, 253:1271-1275.
5. Koff, A., **Giordano, A.**, Desai, D., Yamashita, K., Harper, J.W., Elledge, S., Nishimoto, T., Morgan, D., Franza, R., Roberts, J.M. (1992) Formation and Activation of a Cyclin E-cdk2Complex DuringThe G1 Phase of the Human cell Cycle.*Science*, 257:1689-1694.
6. Caruso, M., Martelli, F., **Giordano, A.**, Felsani, A. (1993). Regulation of Myo D gene transcription and protein function by the transforming domains of the Adenovirus E1A oncoproteins. *Oncogene*, 8:267-278.
7. Mayol, X., Graña, X., Baldi, A., Sang, N., Hu, Q., **Giordano, A.** (1993) Cloning of a new member of the retinoblastoma gene family (pRb2) which binds to the E1A transforming domain. *Oncogene*, 8:2561-2566.
8. Yeung S. R., Bell W. D., Testa R. J., Mayol X., Baldi A., Graña, X., Levan G., Knudson, A.G., **Giordano A.** (1993) The retinoblastoma-related gene, Rb2, maps to human chromosome 16q12 and rat chromosome 19. *Oncogene*, 8:3465-3468.

9. Sala, A., Engelhard, A., Nicolaides, N., Bellon, T., Lawe, D., Arnold, A., Graña, X., **Giordano A.**, Calabretta, B. (1994) Correlation between E2F-1 Requirement in the S Phase and E2F-1 transactivation of cell cycle-related genes in human cells. *Cancer Research*, 54:1402-1407.

10. Graña X., De Luca A., Sang N., Fu Y., Claudio P.P., Rosenblatt J., Morgan D., **Giordano A.** (1994): PITALRE, a nuclear CDC2-related protein kinase that phosphorylates the retinoblastoma protein *in vitro*. *Proc. Natl. Acad. Sci. USA*, 91:63834-3838.

11. Graña X., Claudio P.P., De Luca A., Sang N., **Giordano A.**, (1994): PISSLRE, a human novel cdc2-related protein Kinase. *Oncogene*, 9:2097-2103.

12. Bianchi, S., Calzolari, A., **Giordano A.**, Zampi G. (1994) Expression of retinoblastoma protein in human breast cancer: an immunohistochemical study. *Pathologica*, 86:146-149.

13. Jaumot, M., Graña, X., **Giordano A.**, Reddy P. V., Agell, N., Bachs, O. (1994) Cyclin/CDK2 complexes in the nucleus of HeLa cells. *Biochem. Biophys. Res. Commun.*, 222: 1527-1534.

14. Porcu P., Graña X., Li S., Swantek J., De Luca A., **Giordano A.**, Baserga R. (1994): An E2F binding sequence negatively regulates the response of the insulin-like growth factor 1 (IGF-I) promoter to Simian Virus 40 T antigen and to serum. *Oncogene*, 9: 2125-2134.

15. Claudio P.P., Howard C., Baldi A., De Luca A., Condorelli G., Sun Y., Colburn N., Calabretta B., **Giordano A.** (1994): p130/pRb2 has growth suppressive properties similar to yet distinctive from those of Retinoblastoma Family Members pRb and p107. *Cancer Research*, 54: 5556-5560.

16. Van Wijnen A, Aziz F., Graña X., De Luca A., Desai R.K., Jaarsveld K., Last T.J., Soprano K., **Giordano A.**, Lian J.B., Stein J.L., Stein G.S. (1994) : Transcription of histone H4, H3 and H1 cell cycle genes: Promoter factor HINF-D contains CDC2, cyclin A, and RB-related protein. *Proc. Natl. Acad. Sci. USA*, 91: 12882-12886.

17. Wen S.-C., Ku D.H., De Luca A., Claudio P.P., **Giordano A.**, Calabretta B. (1995): ets-2 Regulates cdc2 Kinase Activity in Mammalian cells: Coordinated Expression of cdc2 and Cyclin A. *Exp. Cell Res.*, 217: 8-14.

18. Guillouf C., Graña X., Selvan-Kumaran M., De Luca A., **Giordano A.**, Hoffman-Liebermann B., Liebermann D. (1995): Dissection of the genetic programs of p53-mediated G1 growth arrest and apoptosis: Blocking p53-induced apoptosis unmasks G1 arrest. *Blood*, 85: 2691-2698.

19. Condorelli G., Testa U., Valtieri M., Vitelli L., De Luca A., Barberi T., Montesoro E., Campisi S., **Giordano A.**, Peschle C. (1995): Modulation of Retinoblastoma gene in normal

adult hematopoiesis: Peak expression and functional role in advanced Erythroid differentiation. Proc. Natl. Acad. Sci. USA, 92: 4808-4812.

20. Li S., MacLachlan T.K., De Luca A., Claudio P.P., Condorelli G., **Giordano A.** (1995): The cdc2-related Kinase, PISSLRE, is essential for cell growth and acts in G2 phase of the cell cycle. Cancer Research, 55: 3992-3995.
21. Raj G. V., Gordon J., Hall D. J., De Luca A., **Giordano A.**, Khalili K. (1995): Characterization of glioma cells derived from human polyomavirus-induced brain tumors in hamsters. International Journal of Oncology, 7:801-808.
22. Sang, N., Baldi, A. **Giordano A.** (1995) The roles of Tumor Suppressor pRb and p53 in Cell Proliferation and Cancer. Molecular and Cellular Differentiation, 3:1-29.
23. Bullrich, F., MacLachlan, T.K., Sang, N., Druck, T., Veronese, M.L., Chiorazzi, N., Koff A., Huebner, K., Croce C.M., **Giordano A.** (1995) Chromosomal Mapping of members of the cdc2 family of protein kinases, cdk3, cdk6, PISSLRE and PITALRE and a cdk inhibitor, p27^{Kip1}, to regions involved in human cancer. Cancer Research, 55:1199-1205.
24. Shakoori R., Van Wijnen A.J., Cooper C., Aziz F., Birnbaum M., Reddy G.P.V., Graña X., De Luca A., **Giordano A.**, Lian J.B., Stein J.L., Quesenberry P., Stein G.S. (1995): Cytokine induction of proliferation and expression of CDC2 and cyclin A in FDC-P1 myeloid hematopoietic progenitor cells: Regulation of ubiquitous and cell cycle-dependent histone gene transcription factors. J. Cell. Biochem., 59:291-302.
25. Baldi A., De Luca A., Claudio P.P., Baldi F., Giordano G.G., Tommasino M., Paggi M., **Giordano A.** (1995): The Rb2/p130 gene product is a nuclear protein whose phosphorylation is cell cycle regulated. J. Cell. Biochem., 59:402-408.
26. MacLachlan, T.K., Sang, N., **Giordano A.** (1995) Cyclins and Cyclin-Dependent Kinases and Cdk Inhibitors: Implications in Cell Cycle Control and Cancer. Critical Reviews in Eukaryotic Gene Expression, 5:127-156.
27. Smith, E., Schlegel R., **Giordano A.**, Lian, B.J., Stein, J.L., Stein, G.S. (1995) Expression of cell cycle regulatory factors in differentiating osteoblast: Post-proliferative upregulation of Cyclin B and E. Cancer Research, 55:5019-5024.
28. Pertile P., Baldi A., De Luca A., Bagella L., Virgilio L., Pisano M.M., **Giordano A.** (1995): Molecular cloning, expression and developmental characterization of the murine Retinoblastoma-related gene Rb2/p130. Cell Growth and Differ., 6:1659-1664.
29. Sang N., Condorelli G., De Luca A., MacLachlan T., **Giordano A.** (1996): Generation of site-directed mutagenesis by extralong, High fidelity polymerase chain reaction. Analytical Biochemistry, 233:142-144.

- 30.** Claudio P.P., De Luca A., Howard C.M., Baldi A., Firpo E.J., Koff A., Paggi M.G., **Giordano A.** (1996): Functional analysis of pRb2/p130 interaction with cyclins. *Cancer Research*, 56:2003-2008.

- 31.** Baldi A., Boccia V., Claudio P.P., De Luca A., **Giordano A.** (1996): Genomic structure of the human retinoblastoma-related Rb2/p130 gene. *Proc. Natl. Acad. Sci. USA*, 93:4629-4632.

- 32.** Reiss K., Cheng W., **Giordano A.**, De Luca A., Li B., Kajstura J., Anversa P. (1996): Myocardial Infarction is coupled with activation of cyclins and cyclin-dependent kinases in myocytes. *Exp. Cell Res.*, 225:44-54.

- 33.** Baldi A., Esposito V., De Luca A., Howard C.M., Mazzarella G., Baldi F., Caputi M., **Giordano A.**(1996): Differential expression of the retinoblastoma gene family members, Rb/p105, p107, Rb2/p130, in lung cancer. *Clinical Cancer Research*, 2:1239-1245.

- 34.** De Luca A., Santra M., Baldi A., **Giordano A.**, Iozzo R. (1996): Decorin-induced growth suppression is associated with up-regulation of p21, an inhibitor of cyclin-dependent kinases. *J. Biol. Chem.*, 271:18961-18965.

- 35.** Sala A., De Luca A., **Giordano A.**, Peschle C. (1996): The retinoblastoma family member p107 binds to b-myb and suppresses its autoregulatory activity. *J. Biol. Chem.*, 271:28738-28740.

- 36.** Soos, T., Kiyokawa, H., Yan, J., Rubin, M., **Giordano A.** , De Blasio, A., Bottega, S., Wong, B., Mendelsohn, J., Koff, A., (1996) Formation of p27-CDK Complexes during the Human Mitotic Cell Cycle. *Cell Growth & Diff.*, 7:135-146

- 37.** Yuan W., Condorelli, G., Caruso, M. Felsani, A., **Giordano A.** (1996) Human p300 protein is a coactivator for the transcription factor Myo D. *J. Biol. Chem.*, 271:9009-9013.

- 38.** **Giordano A.**, Kaiser H. (1996) The Retinoblastoma gene: its role in Cell Cycle and Cancer. *In Vivo.*, 10:223-228.

- 39.** Paggi M.G, Baldi A., Bonetto F., **Giordano A.** (1996) The retinoblastoma protein family in cell cycle and cancer: A Review. *J. Cell. Biochem.*, 62:418-430.

- 40.** Esposito V., De Luca A., Baldi A., D'Aponte A., Cavallotti I., Meoli I., Baldi F., Caputi M., **Giordano A.** (1996): Altered expression of p53 and Rb tumor suppressor genes in lung cancer: relationship with survival. *International Journal of Oncology*, 9:439-443.

- 41.** De Luca A., Esposito V., Baldi A., **Giordano A.** (1996): The retinoblastoma gene family and its role in proliferation, differentiation and development. *Histology and Histopathology*, 11:1029-1034.

42. Sala, A., Kundu M., Casella I., Engelhard A., Calabretta, B., Grasso L., Paggi M., **Giordano A.**, Watson R.J., Khalili K., Peschle C. (1997): Activation of Human B-Myb by Cyclins. Proc. Natl. Acad. Sci. USA, 94:532-536.
43. Puri P. L., Avantaggiati M.L., Balsano C., Sang N., Graessmann A., **Giordano A.**, Levrero M. (1997): p300 is required for MyoD-Dependent Cell Cycle Arrest and Muscle Specific Genes Transcription. EMBO J., 16:369-383.
44. Sang ,N. **Giordano A.** (1997): Extreme N-terminus of E1A Oncoprotein Specifically Associates with a New Set of Cellular Proteins. J. Cell. Physiol., 170:182-191.
45. Esposito V., Baldi A., De Luca A., Micheli P., Mazzarella G., Baldi F., Caputi M., **Giordano A.** (1997): Prognostic value of p53 in non-small cell lung cancer: Relationship with proliferating cell nuclear antigen and cigarette smoking. Human Pathology, 28:233-237.
46. Esposito V., Baldi A., De Luca A., Paciocco G., Gröeger A., Sgaramella G., Claudio P.P., Giordano G.G., Baldi F., Caputi M., Kaiser H., **Giordano A.** (1997): Role of PCNA in differentiating between malignant mesothelioma and mesothelial hyperplasia: prognostic considerations. Anticancer Research, 17:601-604.
47. Esposito V., Baldi A., De Luca A., Claudio P.P., Signoriello G., Bolognese A., Centonze P., Giordano G.G, Caputi M., Baldi F., **Giordano A.** (1997): p53 immunostaining in differential diagnosis of pleural mesothelial proliferations. Anticancer Research, 17:733-736.
48. De Luca A., De Maria R., Baldi A., Trotta R., Facchiano F., **Giordano A.**, Testi R., Condorelli G. (1997): Fas-induced changes in cdc2 and cdk2-kinase activity are not sufficient for triggering apoptosis in HUT-78 cells. J. Cell. Biochem., 64:579-585.
49. Gröeger A. M., Esposito V., Mueller M.R., Caputi M., Kaiser H.E. **Giordano A.**(1997): Advances in the understanding of lung cancer. Anticancer Research., 17:2519-2522.
50. Djelloul S., Forgue-Lafitte M.E., Di Gioia Y., Hermelin B., Mareel M., Bruyneel E., Baldi A., **Giordano A.**, Chastre E., and Gespach G. (1997): Enterocyte differentiation is compatible with SV40 large T expression and loss of p53 function in human colonic Caco-2 cells. Status of the pRb1 and pRb2 tumor suppressor gene products. Febs Lett., 406:234-242
51. Avantaggiati M.L., Ogryzko V., Gardner K., **Giordano A.**, Levine A.S., Kelly K. (1997): Recruitment of p300/CBP in p53-dependent signal pathways. Cell, 89:1175-1184.
52. Smith, E., Frenkel B., MacLachlan, T.K., **Giordano A.**, Stein, J.L., Lian, B.J., Stein, G.S. (1997): Post-proliferative Cyclin E-associated kinase activity in differentiated osteoblasts: inhibition by proliferating osteoblasts and osteosarcoma cells. J. Cell. Biochem., 66:141-152.
53. Sang N., Avantaggiati M.L., **Giordano A.** (1997): Roles of p300, pocket proteins, and hTBP in E1A-mediated transcriptional regulation and inhibition of p53 transactivation activity. J. Cell. Biochem., 66:277-285.

- 54.** De Luca A., MacLachlan, T.K., Bagella L., Dean C., Howard CM., Claudio P.P., Baldi A., Khalili K., **Giordano A.** (1997). A unique domain of pRb2/p130 acts an inhibitor of cdk2 kinase activity. *J. Biol. Chem.*, 272:20971-20974.
- 55.** De Luca A., Esposito V., Baldi A., Claudio P.P, Fu Y., Caputi M., Pisano M.M, Baldi F., **Giordano A.** (1997): CDC2-related kinase PITALRE phosphorylates pRb exclusively on serine and is widely expressed in human tissues. *J. Cell. Physiol.*, 172:265-273.
- 56.** Carbone M., Rizzo P., Grimlet PM., Procopio A., Mew DJY., De Bartolomeis A., Esposito V., Giuliano MT., Steinberg SM., Levine AS., **Giordano A.**, Pass HI. (1997): Simian Virus-40 Large T antigen binds p53 in human mesotheliomas. *Nature Medicine*, 3:908-912.
- 57.** De Luca A., Baldi A., Esposito V., Howard CM., Bagella L., Rizzo P., Caputi M., Pass HI., Giordano G.G., Baldi F., Carbone M., **Giordano A.** (1997): The Retinoblastoma family pRb/p105, p107, pRb2/p130 and Simian Virus-40 large-T antigen in human mesotheliomas. *Nature Medicine*, 3:913-916.
- 58.** Esposito V., Baldi A., De Luca A., Gröeger A. M., Loda M., Giordano G.G., Caputi M., Baldi F., Pagano M, **Giordano A.** (1997): Prognostic role of the cyclin-dependent kinase inhibitor p27 in non small cell lung cancer. *Cancer Research*, 57:3381-3385.
- 59.** Tewari M., Yu M., Ross B., Dean C., **Giordano A.**, Rubin R. (1997): AAC-11, a novel cDNA that inhibits apoptosis after growth factor withdrawal. *Cancer Research*, 57:4063-4069.
- 60.** Van Wijnen A.J., Cooper C., Odgren P., Aziz F., De Luca A., Shakoory R., Reddy G.P.V., **Giordano A.**, Quesenberry P., Lian J.B., Stein G.S., Stein J.L., (1997): Cell Cycle-Dependent Modifications in activities of pRb-related tumor suppressors and proliferation-specific CDP/*cut* Homeodomain factors in murine hematopoietic progenitor cells. *J. Cell. Biochem.*, 66:512-523.
- 61.** Baldi A., Esposito V., De Luca A., Fu Y., Meoli I., Giordano G.G., Caputi M., Baldi F., **Giordano A.**(1997): Differential expression of Rb2/p130 and p107 in normal human tissues and in primary lung cancer. *Clin. Cancer Res.*, 3:1691-1697.
- 62.** Krynska B., Gordon J., Otte J., Franks R., Knobler R., De Luca A., **Giordano A.**, Khalili K. (1997): Role of cell cycle regulators in tumor formation in transgenic mice expressing the human neurotropic virus, JCV, early proteins. *J. Cell. Biochem.*, 67:223-230.
- 63.** Condorelli G., **Giordano A.** (1997): The Synergistic role of E1A-binding proteins and tissue specific trascription factors in differentiation. *J. Cell. Biochem.*, 76:423-431.

64. Raschellà G., Tanno B., Bonetto F., Amendola R., Battista T., De Luca A., **Giordano A.** and Paggi M.G. (1997): Retinoblastoma-related protein pRb2/p130 and its binding to the B-myb promoter increase during human neuroblastoma differentiation. *J. Cell. Biochem.*, 67:297-303.
65. Sang N., Claudio P.P, Fu Y., Horikoshi N., Graeven U., Weinmann R., **Giordano A.** (1997): Transforming Region of 243R E1A contains two overlapping but distinct transactivation domains. *DNA and Cell Biol.*, 16:1321-1333.
66. Kasten M., **Giordano, A.** (1998). pRb and the Cdks in apoptosis and the cell cycle. *Cell Death & Differ.*, 5:132-140.
67. Leri A., Liu Y., Malhotra A., Li Q., Stiegler P., Claudio P.P., **Giordano A.**, Kajstura J., Hintze H. T., Anversa P. (1998): Pacing-induced heart failure in dogs enhances the expression of p53 and p53-dependent genes in ventricular myocytes. *Circulation*, 97:194-203.
68. Ravi K.R., Weber E., McMahon M., Williams R. J., Baylin S., Mai A., Harter L. M., Dillehay L.E., Claudio P.P., **Giordano A.**, Nelkin D. B., Mabry M. (1998): Activated Raf-1 causes growth arrest in human small cell lung cancer cells. *J. Clin. Invest.*, 101:153-159.
69. Susini T., Baldi F., Howard C.M., Baldi A., Taddei G., Massi D., Rapi S., Savino L., Massi G., **Giordano A.** (1998): Expression of the Retinoblastoma-Related Rb2/p130 correlates with clinical outcome in endometrial cancer. *J. of Clin. Oncol.*, 16:1085-1093.
70. De Pasquale S., **Giordano A.**, Donnenfeld A.E. (1998): The genetics of ovarian cancer: molecular biology and clinical application. *Obstet. Gynecol. Surv.*, 53:248-256.
71. Raschellà G., Tanno B., Bonetto F., Negroni A., Claudio P.P., Baldi A., Amendola R., Calabretta B., **Giordano A.**, Paggi M.G. (1998): The RB-related gene Rb2/p130 in neuroblastoma differentiation and in B-myb promoter down-regulation. *Cell Death & Differ.*, 5:401-407
72. Caputi M., Esposito V., Baldi A., De Luca A., Dean C., Signoriello G., Baldi, F., **Giordano A.** (1998): p21^{waf1/cip1mda-6} expression in non small-cell lung cancer: relationship to survival. *Amer J Resp. Cell and Molec. Biol.*, 18:213-217.
73. Romano G., Claudio P.P., Kaiser H.E., **Giordano A.** (1998): Recent advances, prospects and problems in designing new strategies for oligonucleotide and gene delivery in therapy. *In Vivo*, 12:59-68.
74. Caputi M., Esposito V., Baldi A., Gröger A. M., Pacilio C., Murabito G., Dekan G., Baldi, F., Wölner E., **Giordano A.** (1998): Prognostic role of proliferating cell nuclear antigen in lung cancer: an immunohistochemical analysis. *In Vivo*, 12:89-94.

75. Puri P. L., Cimino L., Fulco M., Zimmerman C, La Tangué N., **Giordano A.**, Graessmann A., Levrero M. (1998): Regulation of E2F4 mitogenic activity during terminal differentiation by its heterodimerization partners for nuclear translocation. *Cancer Research*, 58:1325-1331.
76. Kundu M., Sharma S., De Luca A., **Giordano A.**, Rappaport J., Khalili K., Amini S. (1998): HIV-1 Tat elongates the G1 phase and indirectly promotes HIV-1 gene expression in cells of glial origin. *J. Biol. Chem.*, 14:8130-8136.
77. Romano G., Pacilio C., **Giordano A.** (1998): Gene transfer technology in therapy: current applications and future goals. *The Oncologist*, 3:225-236.
78. **Giordano A.**, Rustum J.M., Wenner C.E. (1998): Cell Cycle: Molecular targets for diagnosis and therapy: tumor suppressor genes and cell cycle progression in cancer. *J. Cell. Biochem.*, 70:1-7
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Giordano A. (2002): Bersagli molecolari nella terapia del cancro. *Oncology News ON*. Medprint Ed. 1: 5-9. (In Italian).

SBARRO Institute for Cancer Research and Molecular Medicine –U.S. Patents and Pending Applications and Foreign Counterparts

Antonio Giordano, "Tumor Suppressor Protein pRB2, related gene products, and DNA encoding therefor" U.S. Patent Serial No. 5,457,049, issued October 10, 1995.

Antonio Giordano, "Tumor Suppressor Protein pRB2, related gene products, and DNA encoding therefor" U.S. Patent Serial No. 5,532,340, issued July 2, 1996.

Antonio Giordano, "Human Cyclin-Dependent Kinase-like Proteins and Methods of Using the Same," U.S. Serial Number 5,674,748, issued on October 7, 1997.

Antonio Giordano and A. Baldi, "Human Retinoblastoma-Related (pRb2/p130) Genomic DNA and Methods of Detecting Mutations Therein. US. Patent Application Serial No. 5,807,681, issued on Sep. 15, 1998.

Antonio Giordano "Method for the Diagnosis and Prognosis of Cancer." US. Patent Application Serial No. 08/840,506, issued on November 24, 1998.

Antonio Giordano, "Human Cyclin-Dependent Kinase-like Proteins and Methods of Using the Same," U.S. Serial Number 6,162,612, issued on December 19, 2000.

Antonio Giordano "Determination of Cyclin-Dependent Kinase Inhibitor p27 levels as a prognostic factor in cancer patients." U.S. Patent Application Serial No. 6,180,133 issued on January 30, 2001.

Antonio Giordano "pRb2/p130 Peptide Inhibitors of cdk2 Kinase activity" U.S. Patent Application Serial No. 6,297,357 issued on October 2 2001.

Antonio Giordano and Pier Paolo Claudio " Methods of inhibiting smooth muscle cell proliferation and preventing restenosis with a vector expressing RB2/p130 " U.S. Patent Application Serial No. 6,596,698 issued on July 22 2003.

Antonio Giordano "Human Cyclin-Dependent Kinase-like Proteins and Methods of Using the Same," U.S. Patent Application Serial No.: 09/571,985 Filed: May 16, 2000

Antonio Giordano "Determination of cyclin-dependent kinase inhibitor p27 levels as a prognostic factor in cancer patients." U.S. Patent Application Serial No. 6,180,333 Issued: 01/30/2001

Antonio Giordano "pRb2/p130 Peptide Inhibitors of cdk2 Kinase Activity." U.S. Patent Application Serial. No. 6,297,357
Issued: 10/02/2001

Curriculum Vitae

Antonio Giordano

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Antonio Giordano “Method for Quantification of Recombinant Viruses.” 10/250,805 (US)
PCT Filed: 01/07/2002

Antonio Giordano “Inhibition of Pathological Angiogenesis in Vivo.” 10/466,408 (US)
Published PCT Filed: 01/11/2002

Antonio Giordano “Methods of Inhibiting Smooth Muscle Cell Proliferation and Preventing Restenosis with a Vector Expressing Rb2/P130.” U.S. Patent Application Serial No. 6,596,698
Issued: 07/22/2003

Antonio Giordano “A Method of Inhibiting Cancer Cell Growth Using a Vector Expressing pRb2/P130.” U.S. Patent Application Serial. No. 6,663,856
Issued: 12/16/2003

Antonio Giordano “Human cyclin-dependent kinase-like proteins and methods of using the same.” U.S. Pat. No. 6,822,080
Issued: 11/23/2004

Antonio Giordano “Gene Modulation By Rb2/P130 Expression.” PCT/US04/32286
PCT Filed: 09/30/2004

Antonio Giordano “Methods for Determining Presence of Cancer by Analyzing the Expression of CDK9 and Cyclin T1 in Lymphoid Tissue.” PCT/US2005/24585 PCT filed: 07/12/2005

GRANTS:

Expired Research Grants funded as Principal Investigator

Title: The Adenovirus E1A Transforming region associate in vitro with two novel cellular factors.
Source: Milheim Foundation For Cancer Research
Date and cost of entire project: 6/1/93 - 6/30/94 \$ 15,000 (Direct Cost)

Title: Characterization and Identification of Novel Tumor Suppressor Genes.
Source: W. W. Smith Charitable Trust
Date and cost of entire project: 1/1/93 - 1/1/95 \$ 184,000 (Direct Cost)

Title: Molecular cloning of the Tumor Liberated Protein (TLP)
Source: Istituto Farmacoterapico Italiano (IFI)
Date and cost of entire project: 2/1/96 -2/1/97 \$ 64,000 (Direct Cost)

Title: p130/Rb2 a Novel Target for the Ad5 E1A Oncoproteins.
Source: NIH RO1
Date and cost of entire project: 12/1/94 - 12/31/97 \$ 447,000 (Direct Cost)

Curriculum Vitae

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Title: The Role of pRb2 in Cell Proliferation.

Source: The Council for Tobacco Research

Date and cost of entire project: 1/1/95 - 1/1/98 \$150,000 (Direct Cost)

Title: The Role of pRb2 in Cell Proliferation.

Source: The Council for Tobacco Research

Date and cost of entire project: 1/1/98 - 1/1/99 \$35,000 (Direct Cost)

NIH R21 CA94802-01 (P.I.: A. Giordano) 7/1/02-6/30/04

National Cancer Institute \$100,000 (Direct Cost) 20% effort

Title: Functional Interaction between HIV-1 products and cell cycle proteins

Title: Cancer and Cell Cycle

Source: Sbarro Institute for Cancer research and Molecular Medicine

Date and cost of entire project: 10/1/95 - 6/1/99 \$ 600,000 (Direct Cost)

NIH RO1 CA094804-02 (P.I.: K. Khalili) 03/04/02-12/31/06

Title: Human Neurotropic JC Virus and CNS Diseases

\$222,500 (Direct Cost for entire project)

Co P.I.: A. Giordano, 10% effort

Research Grants Active as Principal Investigator

NIH PO1NS36466 (Khalili, K., Program Director) 09/01/03-08/31/08

Program Project Title: Viral Model for Tumor Pathogenesis in Brain

A. Giordano, Project #2, 20% effort, \$200,000 (Direct Cost of Proj. #2)

Proj. #2 Title: Tumor Suppressor Rb Family/Rb2 in Medulloblastoma

NIH (P.I.: A. Giordano) 4/1/04 3/31/09

Title: pRb2/p130: from the mechanisms to gene therapy

\$1,250,000 (Total Direct Costs Requested) 40% effort

Source: Sbarro Health Research Organization

Date and cost of entire project: 3/1/05 - 3/1/08 \$ 3,000,000

Temple Medical School Cancer Center Program 10% of yearly salary

Research Grants Submitted as Principal Investigator

Competing Renewal

Title: Cell Cycle Progression (A. Giordano, Program Director) 1/1/03 – 12/31/07

Cost of the entire project \$4,593,951

Curriculum Vitae

Antonio Giordano

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Proj. #1) Role of Rb tumor suppressor proteins in Breast cancer

Source: NIH 1P01

\$141,585 (Direct Cost) 20% Effort

Teaching Responsibilities

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, Department of Pharmacy, University of Siena, Siena, Italy

Molecular Investigations in Pathology, University of Siena Medical School, Siena, Italy

Student Advisor

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

Steven Tutton, Research Mentor, 2002-

Ang Sun, Research Mentor, 2005-

Andrew Puca, Research Mentor, 2005-

Annalisa Roberti, Research Mentor, 2005-

Chiara Lucchetti, Research Mentor, 2005-

Mario Mancino, Research Mentor, 2005-

Flavio Rizzolio, Research Mentor, 2006-

Giovanni Abbadessa, Research Mentor, 2006-

Cynthia Carrillo Infante, Research Mentor, 2006-

Eliseo Mattioli, Research Mentor, 2006-

Monica Mischitelli, Research Mentor, 2007-

Raffaele La Montagna, Research Mentor, 2007-

Anna Krepelova, Research Mentor, 2007-

Maria Giovanna Boiano, Research Mentor, 2007-