

CURRICULUM VITAE

Dott. Vincenzo Ciminale

Padova, 2 Dicembre 2012

VINCENZO CIMINALE

Nato a Bari il 25 Febbraio 1961

Residenza: via Monte Pertica 17, 35143 PADOVA

Stato civile: coniugato.

Cittadinanza: Italiana

Ha conseguito la Laurea in Medicina e Chirurgia presso l' Università' di Padova con voti 110/100 e lode (3 Novembre 1987) discutendo la tesi "Effetti immunosoppressivi del virus dell' immunodeficienza umana inattivato mediante irradiazione UV" (Relatore Prof. L. Chieco-Bianchi, Co-relatore Dr. A. Amadori).

Abilitato all' esercizio della professione medica presso l'Università' di Padova nella seconda sessione dell'anno 1987.

Ha conseguito la Specializzazione in Oncologia presso l' Università' di Padova con voti 70/70 (4 Dicembre 1991).

CONTRATTI DI RICERCA

- 1996-2012. MURST ex 60%.
- 1997-2002, 2004 I, II, III, IV, V Programma AIDS Istituto Superiore di Sanita'. Titolo del progetto: *"Analisi Genetiche e Funzionali delle proteine regolatorie di HIV e retrovirus correlati"*.
- 1998. Finanziamenti per progetti di ricerca- Universita' di Padova - Bando 1998 Titolo del progetto: *"Analisi molecolari e funzionali del gene MEN1 in neoplasie poliendocrine umane ereditarie"*.
- 1999 Regione Veneto - Ricerca Sanitaria Finalizzata.: Titolo del progetto: *"Sviluppo di approcci diagnostici innovativi per lo studio di mutazioni del gene MEN1 in neoplasie endocrine familiari"*.
- 2001. Finanziamenti per progetti di ricerca- Universita' di Padova - Bando 2001 Titolo del progetto: *"Nuovi approcci diagnostici ed analisi funzionali per lo studio del gene MEN1 in neoplasie endocrine familiari e sporadiche"*.
- 2002-2004. National Institute of Health (NIH) AIDS/FIRCA. Titolo del progetto: *"Studies of p30^{II} and p13^{II} in HTLV-1 infection"*.
- 2004-2011. Associazione Italiana per la Ricerca sul Cancro (AIRC). Titolo del progetto: *"Functional dissection of virus-cell interactions involved in human lymphomagenesis"*.
- 2007-2010. EUROPEAN UNION FP6 integrated project "The role of infections in the development of cancer".
- 2011-2012. Programma nazionale di ricerca su AIDS: " Control of cell activation, death and neoplastic transformation by HTLV-1".

ATTIVITA' DIDATTICA CORRENTE

- Oncologia (corso integrato di patologia generale e fisiopatologia) corso di laurea magistrale in Medicina e Chirurgia - 40 ore.
- Patologia Generale (corso integrato di Patologia generale, microbiologia e genetica) corso di laurea triennale in Scienze Infermieristiche - 24 ore.
- Oncologia - Scuola di Specializzazione in Oncologia Medica - 10 ore.

- **ATTIVITA' SCIENTIFICA**

1984 -1988 Frequenza, dell' Istituto di Oncologia della Universita' di Padova
(Direttore: Prof. L. Chieco-Bianchi) in qualita' di studente, e,
successivamente, di medico frequentatore.

1989 - 1992 Frequenza della Human Retrovirus Section del Frederick Cancer
Research and Development Center - National Cancer Institute,
Frederick, Maryland, USA, in veste di Visiting Scientist (1989) e
postdoctoral Fellow (1990-1992) presso la Human Retroviruses Section
(direttore Dr. G.N. Pavlakis).

1992-1995 Ricercatore presso l' Istituto di Oncologia dell' Universita' di Padova

1995-2012 Ricercatore confermato presso la Sezione di Oncologia del
Dipartimento di Scienze Oncologiche e Chirurgiche dell'Universita' di
Padova

L' attivita' di ricerca e' stata incentrata sull'analisi dei meccanismi molecolari che
controllano l'espressione e la replicazione dei retrovirus umani HIV, HTLV-1
ed HTLV-2. Questi studi hanno portato alla scoperta di nuovi geni espressi
dai retrovirus leucemogeni HTLV-1 ed HTLV-2 attraverso splicing
alternativo. Successivamente, gli studi sono stati diretti alla ricerca del
meccanismo di azione delle proteine codificate da questi geni. Questi studi
hanno condotto all'analisi delle interazione fra proteine virali e processi
cellulari preposti al controllo del trasporto nucleocitoplasmatico di
macromolecole. Inoltre, gli studi sulla proteina p13^{II} di HTLV-1 hanno rivelato
che questa si localizza elettivamente a livello mitocondriale e modifica la
struttura e la funzione di questi organelli. Questi ultimi risultati hanno dato
origine ad un filone di ricerca, attualmente in corso, volto a definire il ruolo
delle funzioni mitocondriali e delle alterazioni dell'omeostasi delle specie
reattive dell'ossigeno nel processo di trasformazione neoplastica.

PUBBLICAZIONI IN EXTENSO SU RIVISTE INTERNAZIONALI

1. Bender C, Rende F, Cotena A, Righi P, Ronzi P, Cavallari I, Casoli C, Ciminale V, Bertazzoni U. (2012) Temporal regulation of HTLV-2 expression in infected cell lines and patients: evidence for distinct expression kinetics of different transcripts with nuclear accumulation of APL-2 mRNA. *Retrovirology*. 9(1):74.
2. Mocquet V, Neusiedler J, Rende F, Cluet D, Robin JP, Terme JM, Duc Dodon M, Wittmann J, Morris C, Le Hir H, Ciminale V, and Jalinot P. (2012) The Human T-Lymphotropic Virus Type 1 Tax Protein Inhibits Nonsense-Mediated mRNA Decay by Interacting with INT6/EIF3E and UPF1. *J Virol*. Jul;86(14):7530-43. *IF JCR 2011 = 5.402*.
3. D'Agostino DM, Zanolello P, Watanabe T, and Ciminale V. (2012) The microRNA regulatory network in normal- and HTLV-1-transformed T cells. *Adv Cancer Res.*;113:45-83. *IF JCR 2011 = 4.460*.
4. Martin F, Bangham CR, Ciminale V, Lairmore MD, Murphy EL, Switzer WM, Mahieux R. (2011) Conference highlights of the 15th international conference on human retrovirology: HTLV and related retroviruses, 4-8 june 2011, Leuven, Gembloux, Belgium. *Retrovirology*. Oct 28;8:86. *IF JCR 2011 = 6.470*
5. Rende F, Cavallari I, Corradin A, Silic-Benussi M, Toulza F, Toffolo GM, Tanaka Y, Jacobson S, Taylor GP, D'Agostino DM, Bangham CR, and Ciminale V. (2011) Kinetics and intracellular compartmentalization of HTLV-1 gene expression: nuclear retention of HBZ mRNA. *Blood*. 117(18):4855-9. *IF JCR 2011 = 9.898*.
6. Cavallari I, Rende F, D'Agostino DM, and Ciminale V. 2011. Converging strategies in expression of human complex retroviruses. *Viruses*;3(8):1395-414. *IF JCR 2011 = 1.500*.
7. Corradin A, Di Camillo B, Ciminale V, Toffolo G, and Cobelli C. (2011) Sensitivity Analysis of Retrovirus HTLV-1 Transactivation. *J Comput Biol.*; 18(2):183-93. *IF JCR 2011 = 1.546*.

8. Ruggero K, Corradin A, Zanovello P, Amadori A, Bronte V, Ciminale V, D'Agostino DM. (2010) Role of microRNAs in HTLV-1 infection and transformation. *Mol Aspects Med.* 31(5):367-82. *IF JCR 2011 = 9.970.*
9. Silic-Benussi M, Cavallari I, Vajente N, Vidali S, Chieco-Bianchi L, Di Lisa F, Saggioro D, D'Agostino DM and Ciminale V. (2010) Redox regulation of T-cell turnover by the p13 protein of human T-cell leukemia virus type 1: distinct effects in primary vs. transformed cells. *Blood*, 116:54-62. *IF JCR 2011 = 9.898.*
10. Silic-Benussi M, Biasiotto R, Andresen V, Franchini G, D'Agostino DM, and Ciminale V. (2010) HTLV-1 p13, a small protein with a busy agenda. *Mol Aspects Med.* 31(5):350-8. *IF JCR 2011 = 9.970.*
11. Biasiotto R, Aguiari P, Rizzuto R, Pinton P, D'Agostino DM, and Ciminale V. (2010) The p13 protein of human T cell leukemia virus type 1 (HTLV-1) modulates mitochondrial membrane potential and calcium uptake. *Biochim Biophys Acta-Bioenergetics.* 1797:945-951. *IF JCR 2011 = 4.483.*
12. Silic-Benussi M, Marin O, Biasiotto R, D'Agostino DM, and Ciminale V. (2010) Effects of human T-cell leukemia virus type 1 (HTLV-1) p13 on mitochondrial K(+) permeability: A new member of the viroporin family? *FEBS Lett.* 584:2070-2075. *IF JCR 2011 = 3.538.*
13. Corradin A, DI Camillo B, Rende F, Ciminale V, Toffolo GM, Cobelli C. Retrovirus HTLV-1 gene circuit: a potential oscillator for eukaryotes. *Pac Symp Biocomput.* 2010:421-32
14. Silic-Benussi M, Cannizzaro E, Venerando A, Cavallari I, Petronilli V, La Rocca N, Marin O, Chieco-Bianchi L, Di Lisa F, D'Agostino DM, Bernardi P, and Ciminale V. (2009) Modulation of mitochondrial K(+) permeability and reactive oxygen species production by the p13 protein of human T-cell leukemia virus type 1. *Biochim Biophys Acta-Bioenergetics.* 1787:947-54. *IF JCR 2011 = 4.483.*
15. Saggioro D, Silic-Benussi M, Biasiotto R, D'Agostino DM, and Ciminale V. (2009) Control of cell death pathways by HTLV-1 proteins. *Front Biosci.*;14:3338-51. *IF JCR 2011 = 3.520.*

16. Cavallari I, Silic-Benussi M, Rende F, Martines A, Fogar P, Basso D, Vella MD, Pedrazzoli S, Herman JG, Chieco-Bianchi L, Esposito G, Ciminale V, and D'Agostino DM. (2009) Decreased expression and promoter methylation of the menin tumor suppressor in pancreatic ductal adenocarcinoma. *Genes Chromosomes Cancer*. May;48(5):383-96. *IF JCR 2011 = 3.306*.
17. Favaro E, Nardo G, Persano L, Masiero M, Moserle L, Zamarchi R, Rossi E, Esposito G, Plebani M, Sattler U, Mann T, Mueller-Klieser W, Ciminale V, (2008). Amadori A, Indraccolo S. Hypoxia inducible factor-1alpha inactivation unveils a link between tumor cell metabolism and hypoxia-induced cell death. *Am J Pathol*.;173:1186-201. *IF JCR 2011 = 4.890*.
18. Stadler K, Ha HR, Ciminale V, Spirli C, Saletti G, Schiavon M, Bruttomesso D, Bigler L, Follath F, Pettenazzo A, Baritussio A. (2008). Amiodarone alters late endosomes and inhibits SARS coronavirus infection at a post-endosomal level. *Am J Respir Cell Mol Biol*.;39:142-9. *IF JCR 2011 = 5.125*.
19. Hilaragi H, Kim SJ, Phipps AJ, Silic-Benussi M, Ciminale V, Ratner L, Green PL, Lairmore MD. (2006). Human T-lymphotropic virus type 1 mitochondrion-localizing protein p13(II) is required for viral infectivity in vivo. *J Virol*. 80:3469-76. *IF JCR 2011 = 5.402*.
20. Nicot C, Harrod RL, Ciminale V, Franchini G. (2005) Human T-cell leukemia/lymphoma virus type 1 nonstructural genes and their functions. *Oncogene*.;24:6026-34. *IF JCR 2011 = 6.373*.
21. Hilaragi H, Michael B, Nair A, Silic-Benussi M, Ciminale V, Lairmore M. (2005) Human T-lymphotropic virus type 1 mitochondrion-localizing protein p13II sensitizes Jurkat T cells to Ras-mediated apoptosis. *J Virol*.;79:9449-57. *IF JCR 2011 = 5.402*.
22. D'Agostino DM, Silic-Benussi M, Hilaragi H, Lairmore MD, and Ciminale V. (2005). The human T-cell leukemia virus type 1 p13(II) protein: effects on mitochondrial function and cell growth. *Cell Death Differ*. 1:905-15. *IF JCR 2011 = 8.849*.

23. D'Agostino DM, Silic-Benussi M, Hilaragi H, Lairmore MD, and Ciminale V (2005). Mitochondria as functional targets of proteins coded by human tumor viruses. *Advances in Cancer Research*. 94:88-142. *IF JCR 2011 = 4.460*.
24. Silic-Benussi M, Cavallari I, Zorzan T, Rossi E, Hilaragi H, Rosato A, Horie K, Saggioro D, Lairmore MD, Willems L, Chieco-Bianchi L, D'Agostino DM, and Ciminale V. (2004) Suppression of tumor growth and cell proliferation by p13II, a mitochondrial protein of human T cell leukemia virus type 1. *Proc Natl Acad Sci U S A*;101:6629-34. *IF JCR 2011 = 9.681*.
25. Trevisan R, Daprai L, Acquasaliente L, Ciminale V, Chieco-Bianchi L, Saggioro D. (2004) Relevance of CREB phosphorylation in the anti-apoptotic function of human T-lymphotropic virus type 1 tax protein in serum-deprived murine fibroblasts. *Exp Cell Res*.299:57-67. *IF JCR 2011 = 3.580*.
26. Theodoropoulou M, Cavallari I, Barzon L, D'Agostino DM, Ferro T, Arzberger T, Grubler Y, Schaaf L, Losa M, Fallo F, Ciminale V, Stalla GK, Pagotto U. (2004) Differential expression of menin in sporadic pituitary adenomas. *Endocrine-related cancer*, 11:333-343. *IF JCR 2011 = 4.364*.
27. Cavallari I, D'Agostino DM, Ferro T, Rosato A, Barzon L, Pasquali C, Fogar P, Theodoropoulou M, Esposito G, Boscaro M, Pagotto U, Tebaldi E, Fallo F, Chieco-Bianchi L, and Ciminale V. (2003) In situ analysis of human menin in normal and neoplastic pancreatic tissues: evidence for differential expression in exocrine and endocrine cells. *J Clin Endocrin Metab* 88:3893-3901. *IF JCR 2011 = 5.967*.
28. Lefebvre L, Ciminale V, Vanderplasschen A, D'Agostino D, Burny A, Willems L, Kettmann R. (2002) Subcellular localization of the bovine leukemia virus R3 and G4 accessory proteins. *J Virol* 76:7843-54. *IF JCR 2011 = 5.402*.
29. D'Agostino DM, Ranzato L, Arrigoni G, Cavallari I, Belleudi F, Torrisi MR, Silic-Benussi M, Ferro T, Petronilli V, Marin O, Chieco-Bianchi L, Bernardi P, and Ciminale V. (2002) Mitochondrial alterations induced by the p13II protein of human T-cell leukemia virus type 1. Critical role of arginine residues. *J Biol Chem* 277:34424-33. *IF JCR 2011 = 4.773*.

30. Lefebvre L, Vanderplasschen A, Ciminale V, Heremans H, Dangois O, Jauniaux JC, Toussaint JF, Zelnik V, Burny A, Kettmann R, Willems L. (2002) Oncoviral bovine leukemia virus G4 and human T-cell leukemia virus type 1 p13(II) accessory proteins interact with farnesyl pyrophosphate synthetase. *J Virol* 76:1400-14. *IF JCR 2011 = 5.402*.
31. D'Agostino DM, Zotti L, Ferro T, Cavallori I, Silic-Benussi M, Chieco-Bianchi L, Ciminale V. (2001) Expression and functional properties of proteins encoded in the x-II ORF of HTLV-I. *Virus Res* 78:35-43. *IF JCR 2011 = 2.941*.
32. Johnson JM, Nicot C, Fullen J, Ciminale V, Casareto L, Mulloy JC, Jacobson S, Franchini G. (2001) Free major histocompatibility complex class I heavy chain is preferentially targeted for degradation by human T-cell leukemia/lymphotropic virus type 1 p12(I) protein. *J Virol* 75:6086-94. *IF JCR 2011 = 5.402*.
33. D'Agostino DM, Ferro T, Zotti L, Meggio F, Pinna LA, Chieco-Bianchi L, and Ciminale V. (2000) Identification of a domain in human immunodeficiency virus type 1 rev that is required for functional activity and modulates association with subnuclear compartments containing splicing factor SC35. *J Virol.*; 74:11899-910. *IF JCR 2011 = 5.402*.
34. Johnson JM, Mulloy JC, Ciminale V, Fullen J, Nicot C, Franchini G. (2000) The MHC class I heavy chain is a common target of the small proteins encoded by the 3' end of HTLV type 1 and HTLV type 2. *AIDS Res Hum Retroviruses* 16:1777-81. *IF JCR 2011 = 2.246*.
35. D'Agostino DM, Zotti L, Ferro T, Franchini G, Chieco-Bianchi (2000) L, and Ciminale V. The p13II protein of HTLV type 1: comparison with mitochondrial proteins coded by other human viruses. *AIDS Res Hum Retroviruses* 16:1765-70. *IF JCR 2011 = 2.246*.
36. Marin O, Sarno S, Boschetti M, Pagano MA, Meggio F, Ciminale V, D'Agostino DM, Pinna LA. (2000) Unique features of HIV-1 Rev protein phosphorylation by protein kinase CK2 ('casein kinase-2'). *FEBS Lett* 481:63-7. *IF JCR 2011 = 3.538*.

37. Ciminale V, Hatziyanni M, Felber BK, Bear J, Hatzakis A, Pavlakis GN. (2000) Unusual CD4+CD8+ phenotype in a greek patient diagnosed with adult T-cell leukemia positive for human T-cell leukemia virus type I (HTLV-I). *Leuk Res* 24:353-8. *IF JCR 2011* = 2.923.
38. D'Agostino DM, Ciminale V, Zotti L, Chieco-Bianchi L. (1999) Influence of Rex and intronic sequences on expression of spliced mRNAs produced by human T cell leukemia virus type 1. *AIDS Res Hum Retroviruses* 15:1351-63. *IF JCR 2011* = 2.246.
39. Ciminale V, Zotti L, D'Agostino DM, Ferro T, Casareto L, Franchini G, Bernardi P, Chieco-Bianchi L. (1999) Mitochondrial targeting of the p13II protein coded by the x-II ORF of human T-cell leukemia/lymphotropic virus type I (HTLV-I). *Oncogene* 18:4505-14. *IF JCR 2011* = 6.373.
40. Rosato A, Zambon A, Milan G, Ciminale V, D'Agostino DM, Macino B, Zanovello P, Collavo D. (1997) CTL response and protection against P815 tumor challenge in mice immunized with DNA expressing the tumor-specific antigen P815A. *Hum Gene Ther* 8:1451-8. *IF JCR 2011* = 4.218.
41. Ciminale V, Zotti L, D'Agostino DM, Chieco-Bianchi L. (1997) Inhibition of human T-cell leukemia virus type 2 Rex function by truncated forms of Rex encoded in alternatively spliced mRNAs. *J Virol* 71:2810-8. *IF JCR 2011* = 5.402.
42. D'Agostino DM, Ciminale V, Zotti L, Rosato A, Chieco-Bianchi L. (1997) The human T-cell lymphotropic virus type 1 Tof protein contains a bipartite nuclear localization signal that is able to functionally replace the amino-terminal domain of Rex. *J Virol* 71:75-83. *IF JCR 2011* = 5.402.
43. Meggio F, D'Agostino DM, Ciminale V, Chieco-Bianchi L, Pinna LA. (1996) Phosphorylation of HIV-1 Rev protein: implication of protein kinase CK2 and pro-directed kinases. *Biochem Biophys Res Commun* 226:547-54. *IF JCR 2011* = 2.484.
44. Ciminale V, D'Agostino DM, Zotti L, Chieco-Bianchi L. (1996) Coding potential of the X region of human T-cell leukemia/lymphotropic virus type II. *J Acquir Immune Defic Syndr Hum Retrovirol* 13:S220-7.

45. D'Agostino DM, Ciminale V, Pavlakis GN, Chieco-Bianchi L. (1995) Intracellular trafficking of the human immunodeficiency virus type 1 Rev protein: involvement of continued rRNA synthesis in nuclear retention. *AIDS Res Hum Retroviruses* 11:1063-71. *IF JCR 2011* = 2.246.
46. Ciminale V, D'Agostino DM, Zotti L, Franchini G, Felber BK, Chieco-Bianchi L. (1995) Expression and characterization of proteins produced by mRNAs spliced into the X region of the human T-cell leukemia/lymphotropic virus type II. *Virology* 209:445-56. *IF JCR 2011* = 3.351.
47. Ciminale V, Pavlakis GN, Derse D, Cunningham CP, Felber BK. (1992) Complex splicing in the human T-cell leukemia virus (HTLV) family of retroviruses: novel mRNAs and proteins produced by HTLV type I. *J Virol* 66:1737-45. *IF JCR 2011* = 5.402.
48. Clanton DJ, Moran RA, McMahon JB, Weislow OS, Buckheit RW Jr, Hollingshead MG, Ciminale V, Felber BK, Pavlakis GN, Bader JP. 1992. Sulfonic acid dyes: inhibition of the human immunodeficiency virus and mechanism of action. *J Acquir Immune Defic Syndr* 5:771-81.
49. Pavlakis GN, Felber BK, Ciminale V, Unger T, Solomin L, Harrison JE. (1992) Structure, regulation and oncogenic mechanisms of HTLV-I and HTLV-II. *Leukemia* 6:176-180. *IF JCR 2011* = 9.561.
50. Ciminale V, Felber BK, Campbell M, Pavlakis GN. (1990) A bioassay for HIV-1 based on Env-CD4 interaction. *AIDS Res Hum Retroviruses* 6:1281-7. *IF JCR 2011* = 2.246.
51. Amadori A, Zamarchi R, Ciminale V, Del Mistro A, Siervo S, Alberti A, Colombatti M, Chieco-Bianchi L. (1989) HIV-1-specific B cell activation. A major constituent of spontaneous B cell activation during HIV-1 infection. *J Immunol* 143:2146-52. *IF JCR 2011* = 5.788.
52. Amadori A, Ciminale V, Calabro' ML, Tessarollo L, Francavilla E, Chieco-Bianchi L. (1989) Human monoclonal antibody against a gag-coded protein of human immunodeficiency virus produced by a stable EBV-transformed cell clone. *AIDS Res Hum Retroviruses* 5:73-8. *IF JCR 2011* = 2.246.

53. Amadori A, Zanovello P, Cozzi E, Ciminale V, Borghesan F, Fagiolo U, Crepaldi G. (1988) Study of some early immunological parameters in aging humans. *Gerontology* 34:277-83. *IF JCR 2011 = 2.777*.

CAPITOLI SU PUBBLICAZIONI MONOGRAFICHE

- De Rossi, A., Ciminale, V., Saggiaro, D., D' Agostino, D.M., Chieco-Bianchi, L. 1994. Oncogenesis by the Human T-Lymphotropic Virus Type I: molecular and biological features. *Forum*, 4, 266-287.
- Pavlakis GN, Felber BK, Ciminale V, Unge T, Solomin L, and Harrison JE. (1992). Structure, Regulation and Oncogenic Mechanisms of HTLV-I and HTLV-II. *Leukemia* 6: 176S-180S.
- Pavlakis, G.N., S. Schwartz, D.M. Benko, C.M. Drysdale, L. Solomin, V. Ciminale, R. Robinson, J. Harrison, M. Campbell, and B.K. Felber. 1991. Genome organization and regulation of HIV-1 expression. p. 175-192. *In Genetic Structure and Regulation of HIV*. W.A. Haseltine and F. Wong-Staal (Eds.), Raven Press, New York, NY.
- Felber, B.K., L. Solomin, V. Ciminale, T. Unge, D.M. Benko, J. Harrison, M. Campbell, and G.N. Pavlakis. 1991. Mechanism of function of the rex protein of HTLV-1, p. 193-204 *In Genetic Structure and Regulation of HIV*. W.A. Haseltine and F. Wong-Staal (Eds.), Raven Press, New York, NY.
- Felber, B.K., V. Ciminale, S. Schwartz, and G.N. Pavlakis. 1990. Bioassays for the detection of HIV-1 and practical applications, p. 90-104. *In J.L. Melnick (Ed.), Monogr Virol Karger, Basel*.
- Amadori, A., Faulkner-Valle, G.P., DeRossi, A., Ciminale, V., Chieco-Bianchi, L. 1987. Effetto del virus HIV inattivato con UV su alcune funzioni linfocitarie in vitro. *AIDS e sindromi correlate*. Aiuti, F., Moroni, M., Pocchiari, F. (eds.), Monduzzi Bologna 575-581.
- Amadori, A., Ciminale, V., Tassarollo L., De Rossi, A., Chieco-bianchi, L. (1989). Derivazione di un clone linfocitario umano EBV+ produttore anticorpi rivolti

verso determinanti dell'HIV. In *AIDS e Sindromi Correlate*. Moroni, M., Aiuti, F., Esposito, R., Lazzarin, A. (ed.). Monduzzi Editore, Bologna, pp.425-428.