Dr. Marco Crescenzi

CURRICULUM VITAE

Nato a Roma il 12/4/1958.

Laureato in Medicina e Chirurgia il 21/10/1983 con 110/110 e lode, Università “La Sapienza”, Roma.

CF CRSMRC58D12H501G

Dottorato di Ricerca in Fisiopatologia pediatrica conseguito nel giugno 1991.

ATTIVITÀ ED INTERESSI SCIENTIFICI

1983 - 86 Dapprima studente interno, poi medico volontario presso la Cattedra di Allergologia e Immunologia Clinica dell’Università di Roma “La Sapienza” diretta da F. Aiuti.
Attività clinica (ambulatorio e corsia):
Immunodeficienze primitive e secondarie, malattie autoimmuni, neoplasie ematologiche, medicina interna, gastroenterologia.
Attività di ricerca:
Eziologia e patogenesi dell’atassia-teleangectasia.
Patogenesi e trattamento delle immunodeficienze primitive.
Leucemie linfatiche croniche.

1987 Guest Researcher presso il laboratorio di S. J. Korsmeyer allo Howard Hughes Medical Institute, Washington University School of Medicine, St. Louis, U.S.A.
Attività di ricerca:
Diagnosi ad elevata sensibilità di linfomi.
Traslocazioni cromosomiche.
Reazione a catena della polimerasi (PCR).

1988 - 90 Visiting Fellow presso il Laboratory of Molecular and Cellular Biology diretto da S. A. Aaronson al National Cancer Institute, Bethesda, U.S.A.
L'attività svolta durante questo periodo è stata riconosciuta ai fini della legge 20/3/75 n. 70. Inoltre il lavoro svolto è stato dichiarato equiparato a quello di assistente di oncologia in istituto di ricovero e cura a carattere scientifico, per il periodo 9/5/88 - 4/11/90.
Attività di ricerca:
Studio dell’effetto antiproliferativo di geni coinvolti nell’induzione del differenziamento muscolare (MyoD).
Costruzione di vettori per clonazione ed espressione genica da utilizzare per lo screening funzionale di librerie di cDNA.

1991 - 94 Laboratorio di F. Tatò presso il Dipartimento di Biologia Cellulare e dello Sviluppo dell'Università degli Studi "La Sapienza" di Roma.
Attività di ricerca:

Riattivazione del ciclo cellulare in cellule terminalmente differenziate.
Interferenza fra trasformazione cellulare indotta da oncogeni e programmi differenziativi.
Analisi di promotori di geni muscolo-specifici.

1994 - 97 Consulente presso gli I.F.O. (Istituto Tumori Regina Elena)
Attività di ricerca:
Riattivazione del ciclo cellulare in cellule terminalmente differenziate mediante infezione con adenovirus naturali e ricombinanti.
Produzione e sperimentazione di vettori retrovirali per la trasduzione di p53 in cellule tumorali.
Terapia genica dei tumori.
Messa a punto e sviluppo di metodologie per la creazione di adenovirus ricombinanti.

dal 1997 Primo Ricercatore presso l'Istituto Superiore di Sanità, Dipartimento Ambiente e connessa Prevenzione Primaria, poi Dipartimento di Biologia Cellulare e Neuroscienze
Attività di ricerca:
Riattivazione del ciclo cellulare nel differenziamento terminale ed in altri stati di non proliferazione; applicazioni alla medicina rigenerativa in vitro e in vivo.
Studi in vivo sulla relazione fra difetti della riparazione del DNA, cancerogenesi chimica e risposta a farmaci antitumorali.
Spettrometria di massa e proteomica applicata.
Ricerca metagenomica di nuovi agenti eziologici infettivi in tumori umani

ATTIVITÀ DIDATTICA

2006 - 11 Professore a contratto, Corso di Oncologia per la Laurea specialistica in Biologia ed evoluzione umana, Facoltà di Scienze MM. FF. NN., Università di Tor Vergata, Roma.

2006 - 11 Docente del Master di I livello "Le scienze della vita nel giornalismo e nei rapporti politico-istituzionali".

2014 - Professore a contratto, corso "Metodologia della ricerca scientifica" per la Laurea magistrale in Biologia cellulare e molecolare e Scienze biomediche, Macroarea di Scienze MM. FF. NN., Università di Tor Vergata, Roma.

2017 - Docente, corso "Il metodo scientifico ed applicazioni in biologia" per la Laurea magistrale in Biologia e Tecnologie Cellulari, Facoltà di Scienze MM. FF. NN., Università Sapienza, Roma.

TESTI DIVULGATIVI E DIDATTICI

2015 Cosa rimarrà – Testo di divulgazione scientifica in chiave di racconto – Amazon

2016 Metodologia della ricerca scientifica per la biologia cellulare e molecolare – Libro di testo – Amazon

2017 Metodologia della ricerca scientifica per la biologia cellulare e molecolare (2° edizione) - Amazon

RICONOSCIMENTI

1987 Borsa di studio per l'estero (un anno) dell'Associazione Italiana per la Ricerca sul Cancro.

1988 - 90 Fogarty International Fellowship (tre anni) presso i National Institutes of Health, Bethesda, USA.

1991 - 93 Borsa di studio postdottorato in Biologia Evoluzionistica (due anni) presso l'Università "La Sapienza", Roma.

2010 - 16 Direzione del reparto Biomarcatori nelle malattie degenerative, Istituto Superiore di Sanità, Roma.

2017 - Direzione del Servizio Grandi strumentazioni e Core facilities, Istituto Superiore di Sanità, Roma.

2017 - Membro dell'Accademia Medica di Roma

Dr. Marco Crescenzi - Pubblicazioni

1. Tonietti, G, Mercalli, ME, Crescenzi, M, and Perricone, R (1982). Fumo di sigaretta e risposta immune. *Progr Med* **38**: 649-652.
2. Tonietti, G, Crescenzi, M, and Pavan, A (1983). Recenti acquisizioni sugli effetti collaterali della terapia immunosoppressiva. *Folia Allergol Immunol Clin* **30**: 124-137.
3. Aiuti, F, Bonomo, R, Russo, G, and Crescenzi, M (1984). Treatment of congenital immunodeficiency with transplantation or thymic hormones. *EOS* **4**: 97-98.
4. Bonomo, G, Crescenzi, M, Bonomo, R, and Mezzaroma, I (1984). Impiego di terreni sintetici (senza siero) nelle colture cellulari. *Immunol Clin sper* **3**: 305-310.
5. Crescenzi, M, Carbonari, M, Bonomo, R, Ensoli, B, Soddu, S, and Cafaro, A (1984). Esperienza clinica con gammaglobuline endovena (Endobulin). *Quad Med Chir* **67**: 151-153.
6. Fiorilli, M, Russo, G, Crescenzi, M, Papetti, C, Carbonari, M, Bonomo, G, and Paganelli, R (1984). Hypogammaglobulinemia with hyper-IgM, severe T-cell defect and abnormal recirculation of OKT4 lymphocytes. In: Griscelli, C and J Vossen (eds). Progress in immunodeficiency Research and Therapy I. Elsevier Science. pp 207-209.
7. Tonietti, G, Crescenzi, M, Giacomelli, R, and Squarcia, O (1984). Neoplasie e sistema immune. *Fed Med* **37**: 197-204.
8. Aiuti, F, Mezzaroma, I, Cherchi, M, Crescenzi, M, Cafaro, A, Ensoli, B, and Le Moli, S (1985). Molecular Basis of Pathogenesis and Treatment of Primary T Cell Immunodeficiencies. In: Miescher, PA, L Bolis and M Ghione (eds). Immunopharmacology, vol. 23. Serono Symposia Publications from Raven Press: New York. pp 161-169.
9. Cafaro, A, Napolitano, M, Crescenzi, M, Luciani, M, Chistolini, A, Cherchi, M, and Pandolfi, F (1985). Immunità cellulare e anticorpi anti HTLV-III in emofilici senza AIDS. *Clot Hematol Malig* **2**: 62-66.
10. Crescenzi, M, Carbonari, M, Mezzaroma, I, Napolitano, M, Soddu, S, and Aiuti, F (1985). Sperimentazione clinica e caratterizzazione biochimica di varie preparazioni di gammaglobuline per uso endovenoso. *Therapeutika* **2**: 83-87.
11. Crescenzi, M, Pulciani, S, Carbonari, M, Tedesco, L, Russo, G, Gaetano, C, and Fiorilli, M (1985). DNA-Mediated Gene Transfer into Ataxia-Telangiectasia Cells. In: Aiuti, F, F Rosen and MD Cooper (eds). Recent Advances in Primary and Acquired Immunodeficiencies, vol. 28. Serono Symposia Publications from Raven Press: New York. pp 195-201.
12. Fiorilli, M, Antonelli, A, Russo, G, Crescenzi, M, Carbonari, M, and Petrinelli, P (1985). Variant of Ataxia-Telangiectasia with Low-Level Radiosensitivity. *Hum Genet* **70**: 274-277.
13. Fiorilli, M, Carbonari, M, Crescenzi, M, Ensoli, B, Gaetano, C, and Russo, G (1985). Analisi funzionale in vitro delle popolazioni linfocitarie. Atti del XVII congresso della Società Italiana di Allergologia ed Immunologia Clinica. O.I.C. Medical Press: Milan. pp 107-111.
14. Fiorilli, M, Carbonari, M, Crescenzi, M, Russo, G, and Aiuti, F (1985). T-cell receptor genes and ataxia telangiectasia. *Nature* **313**: 186.
15. Fiorilli, M, Crescenzi, M, and Aiuti, F (1985). Thymic Hormone Therapy of Viral

Infections. *EOS* **5**: 72-73.

16. Fiorilli, M, Crescenzi, M, Carbonari, M, Russo, G, Businco, L, and Aiuti, F (1985). Cellular and Molecular Studies on Ataxia-Telangiectasia Lymphoblastoid Cell Lines. In: Gatti, RA and M Swift (eds). Ataxia-Telangiectasia: Genetics, Neuropathology, and Immunology of a Degenerative Disease of Childhood. Alan R. Liss: New York. pp 301-308.

17. Fiorilli, M, Russo, G, Crescenzi, M, Carbonari, M, Gaetano, C, Zani, M, and Manzari, V (1985). Protein Synthesis and Oncogene Expression in Ataxia Telangiectasia Lymphoblastoid Cell Lines. *Immunol Clin sper* **4**: 261-267.

18. Petrinelli, P, Proietti, M, Carbonari, M, Crescenzi, M, Russo, G, and Antonelli, A (1985). Ataxia telangiectasia variants detected through cytogenetic analysis. Perspectives in Inherited Metabolic Diseases, vol. 6. Edi.Ermes: Milan. pp 313-315.

19. Bonomo, R, Mezzaroma, I, Crescenzi, M, Scarpati, B, D'Offizi, G, Cherchi, M, Fiorilli, M, and Luzi, G (1986). Esperienze cliniche ed immunologiche con immunoglobuline a molecola intera per via endovenosa in pazienti affetti da deficit primitivo dell'immunità umorale. *EOS* **6**: 145-151.

20. Fiorilli, M, Carbonari, M, Crescenzi, M, Gaetano, C, and Russo, G (1986). Terapia con ormoni timici delle sindromi da deficit primitivo della immunità cellulo-mediata. *Farmaci (Suppl)* **2**: 8-10.

21. Fiorilli, M, Crescenzi, M, Carbonari, M, Tedesco, L, Russo, G, Gaetano, C, and Aiuti, F (1986). Phenotypically Immature IgG-Bearing B Cells in Patients with Hypogammaglobulinemia. *J Clin Immunol* **6**: 21-25.

22. Fiorilli, M, Russo, G, Paganelli, R, Papetti, C, Carbonari, M, Crescenzi, M, Calvani, M, Quinti, I, and Aiuti, F (1986). Hypogammaglobulinemia with hyper-IgM, severe T-cell defect and abnormal recirculation of OKT4 lymphocytes in a girl with chronic lymphadenopathy. *Clin Immunol Immunopathol* **38**: 256-264.

23. Pandolfi, F, Cafaro, A, Crescenzi, M, and Fiorilli, M (1986). Surface Markers of Human Lymphocytes in Leukemias and Primary Immunodeficiencies. *Immunol Clin Sper* **5**: 47-51.

24. Russo, G, Carbonari, M, Crescenzi, M, Scano, G, Scarpati, B, Fiorilli, M, and Aiuti, F (1986). Immature B Cells in Primary Hypogammaglobulinemia. In: Eibl, MM and FS Rosen (eds). Primary Immunodeficiency Diseases. Elsevier Science. pp 113-117.

25. Aiuti, F, Crescenzi, M, Paganelli, R, D'Offizi, G, Papetti, C, and Fiorilli, M (1987). Developmental immunodeficiencies. In: Good, RA and E Lindenlaub (eds). The nature, cellular, and biochemical basis and management of immunodeficiencies. F. K. Schattauer Verlag: Stuttgart - New York. pp 23-33.

26. Aiuti, F, Paganelli, R, Ensoli, B, Crescenzi, M, Carbonari, M, and Fiorilli, M (1987). T-cell development and function: relationship to immunodeficiencies. In: Burgio, Hanson and Ugazio (eds). Immunology of the neonate. Springer-Verlag: Berlin - Heidelberg. pp 94-99.

27. Avella, A, Crescenzi, M, and Fiorilli, M (1988). Note diagnostiche e terapeutiche su un caso di ipogammaglobulinemia comune variabile. *Ann Ital Med Int* **3**: 137-140.

28. Crescenzi, M, Napolitano, M, Carbonari, M, Antonelli, A, Petrinelli, P, Gaetano, C, and Fiorilli, M (1988). Establishment of a new Epstein-Barr virus-immortalized cell line from chronic lymphocytic leukemia with trisomy of chromosome 12 that produces monoclonal IgM against a sheep RBC antigen. *Blood* **71**: 9-12.

29. Crescenzi, M, Seto, M, Herzig, GP, Weiss, PD, Griffith, RC, and Korsmeyer, SJ (1988). Thermostable DNA Polymerase Chain Amplification of t(14;18) Chromosome Breakpoints and Detection of Minimal Residual Disease. *Proc Natl Acad Sci USA* **85**: 4869-4873.

30. Fiorilli, M, Crescenzi, M, Gaetano, C, Giannini, G, and Russo, G (1988). Immunomodulaciò amb hormones timiques. *Ann Med (Barc)* **74**: 267-268.

31. Fiorilli, M, Crescenzi, M, Gaetano, C, Giannini, G, and Russo, G (1988). Immunomodulazione con ormoni timici. In: Balbo, G and EC Farina (eds). Chirurgia e immunità. Masson: Milan. pp 131-135.

32. Crescenzi, M (1990). B-cell lymphoma: t(14;18) chromosome rearrangement. In: Innis, MA, DH Gelfand, JJ Sninsky and TJ White (eds). PCR protocols: a guide to methods and applications. Academic Press: New York. pp 392-398.

33. Crescenzi, M, Fleming, TP, Lassar, AB, Weintraub, H, and Aaronson, SA (1990). MyoD induces growth arrest independent of differentiation in normal and transformed cells. *Proc Natl Acad Sci USA* **87**: 8442-8446.

34. Miki, T, Fleming, TP, Crescenzi, M, Molloy, CJ, Blam, SB, Reynolds, SH, and Aaronson, SA (1991). Development of a highly efficient expression cDNA cloning system: Application to oncogene isolation. *Proc Natl Acad Sci USA* **88**: 5167-5171.

35. Pontecorvi, A, Mariani-Costantini, R, Rossi, P, Crescenzi, M, and Frati, L (1991). Recombinant DNA technology in disease diagnosis. Encyclopedia of Human Biology, vol. 6. Academic Press: New York. pp 523-531.

36. Marti, GE, Zenger, V, Brown, M, Marti, DM, Melo, JV, Crescenzi, M, Dadey, B, Han, T, Bertin, P, Caporaso, NE, and Noguchi, P (1992). Antigenic expression of B-cell chronic lymphocytic leukemic cell lines. *Leuk Lymphoma* **7**: 497-504.

37. Crescenzi, M, Crouch, D, and Tatò, F (1993). Effects of myc expression on mouse myoblasts are reversed in mixed culture with normal cells. In: Rifkind, RA (ed). The pharmacology of cell differentiation. Elsevier Science Publishers: Amsterdam. pp 157-166.

38. Crescenzi, M, Crouch, DH, and Tatò, F (1994). Transformation by *myc* prevents fusion but not biochemical differentiation of C2C12 myoblasts: mechanisms of phenotypic correction in mixed culture with normal cells. *J Cell Biol* **125**: 1137-1145.

39. Blandino, G, Scardigli, R, Rizzo, MG, Crescenzi, M, Soddu, S, and Sacchi, A (1995). Wild-type p53 modulates apoptosis of normal, IL-3 deprived, hematopoietic cells. *Oncogene* **10**: 731-737.

40. Crescenzi, M, Soddu, S, Sacchi, A, and Tatò, F (1995). Adenovirus infection induces reentry into the cell cycle of terminally differentiated skeletal muscle cells. *Ann N Y Acad Sci* **752**: 9-18.

41. Crescenzi, M, Soddu, S, and Tatò, F (1995). Mitotic cycle reactivation in terminally differentiated cells by adenovirus infection. *J Cell Physiol* **162**: 26-35.

42. Farina, A, Gaetano, C, Crescenzi, M, Puccini, F, Manni, I, Sacchi, A, and Piaggio, G (1996). The inhibition of cyclin B1 gene transcription in quiescent NIH3T3 cells is mediated by an E-box. *Oncogene* **13**: 1287-1296.

43. Scardigli, R, Soddu, S, Falcioni, R, Crescenzi, M, Cimino, L, and Sacchi, A (1996). The beta 4 integrin subunit is expressed in mouse fibroblasts and modulated by transforming growth factor-beta 1. *Exp Cell Res* **227**: 223-229.

44. Soddu, S, Blandino, G, Scardigli, R, Martinelli, R, Rizzo, MG, Crescenzi, M, and Sacchi, A (1996). Wild-type p53 induces diverse effects in 32D cells expressing different oncogenes. *Mol Cell Biol* **16**: 487-495.

45. Soddu, S, Blandino, G, Scardigli, R, Rizzo, MG, Coen, S, Bossi, G, Crescenzi, M, and Sacchi, A (1996). Interference with p53 protein inhibits hematopoietic and muscle differentiation. *J Cell Biol* **134**: 193-204.

46. Tiainen, M, Pajalunga, D, Ferrantelli, F, Soddu, S, Salvatori, G, Sacchi, A, and Crescenzi, M (1996). Terminally differentiated skeletal myotubes are not confined in G_0, but can enter G_1 upon growth factor stimulation. *Cell Growth Diff* **7**: 1039-1050.

47. Tiainen, M, Spitkovsky, D, Jansen-Dürr, P, Sacchi, A, and Crescenzi, M (1996). Expression of E1A in terminally differentiated muscle cells reactivates the cell cycle and suppresses tissue-specific genes by separable mechanisms. *Mol Cell Biol* **16**: 5302-5312.

48. Falcioni, R, Antonini, A, Nisticò, P, Di Stefano, S, Crescenzi, M, Natali, PG, and Sacchi, A (1997). a6b4 and a6b1 integrins associate with ErbB-2 in human carcinoma cell lines. *Exp Cell Res* **236**: 76-85.

49. Martinelli, R, Blandino, G, Scardigli, R, Crescenzi, M, Lombardi, D, Sacchi, A, and Soddu, S (1997). Oncogenes belonging to the CSF-1 transduction pathway direct p53 tumor suppressor effects to monocytic differentiation in 32D cells. *Oncogene* **15**: 607-611.

50. Moretti, F, Farsetti, A, Soddu, S, Misiti, S, Crescenzi, M, Filetti, S, and Andreoli, M (1997). p53 re-expression inhibits proliferation and restores differentiation of human thyroid anaplastic carcinoma cells. *Oncogene* **14**: 729-740.

51. Scardigli, R, Bossi, G, Blandino, G, Crescenzi, M, Soddu, S, and Sacchi, A (1997). Expression of exogenous wt-p53 does not affect normal hematopoiesis: implications for bone marrow purging. *Gene Therapy* **4**: 1371-1378.

52. Lattanzi, L, Salvatori, G, Coletta, M, Sonnino, C, Cusella De Angelis, MG, Gioglio, L, Murry, CE, Kelly, R, Ferrari, G, Molinaro, M, Crescenzi, M, Mavilio, F, and Cossu, G (1998). High efficiency myogenic conversion of human fibroblasts by adenoviral vector-mediated MyoD gene transfer. *J Clin Invest* **101**: 2119-2128.

53. Rizzo, MG, Zepparoni, A, Cristofanelli, B, Scardigli, R, Crescenzi, M, Blandino, G, Giuliacci, S, Ferrari, S, Soddu, S, and Sacchi, A (1998). Wt-p53 action in human leukaemia cell lines corresponding to different stages of differentiation. *Brit J Cancer* **77**: 1429-1438.

54. Aquilina, G, Crescenzi, M, and Bignami, M (1999). Mismatch repair, G(2)/M cell cycle arrest and lethality after DNA damage. *Carcinogenesis* **20**: 2317-2326.

55. Giannini, G, Di Marcotullio, L, Ristori, E, Zani, M, Crescenzi, M, Scarpa, S, Piaggio, G, Vacca, A, Peverali, FA, Diana, F, Screpanti, I, Frati, L, and Gulino, A (1999). HMGI(Y) and HMGI-C genes are expressed in neuroblastoma cell lines and tumors and affect retinoic acid responsiveness. *Cancer Res* **59**: 2484-2492.

56. Pajalunga, D, Tognozzi, D, Tiainen, M, D'Angelo, M, Ferrantelli, F, Helin, K, Sacchi, A, and Crescenzi, M (1999). E2F activates late-G1 events but cannot replace E1A in inducing S phase in terminally differentiated skeletal muscle cells. *Oncogene* **18**: 5054-5062.

57. Aquilina, G, Ceccotti, S, Martinelli, S, Soddu, S, Crescenzi, M, Branch, P, Karran, P, and Bignami, M (2000). Mismatch repair and p53 independently affect sensitivity to

N-(2- chloroethyl)-N'-cyclohexyl-N-nitrosourea. *Clin Cancer Res* **6**: 671-680.

58. D'Orazi, G, Marchetti, A, Crescenzi, M, Coen, S, Sacchi, A, and Soddu, S (2000). Exogenous wt-p53 protein is active in transformed cells but not in their non-transformed counterparts: implications for cancer gene therapy without tumor targeting. *J Gene Med* **2**: 11-21.

59. Fiorentino, L, Pertica, C, Fiorini, M, Talora, C, Crescenzi, M, Castellani, L, Alema, S, Benedetti, P, and Segatto, O (2000). Inhibition of ErbB-2 mitogenic and transforming activity by RALT, a mitogen-induced signal transducer which binds to the ErbB-2 kinase domain. *Mol Cell Biol* **20**: 7735-7750.

60. Fiumicino, S, Martinelli, S, Colussi, C, Aquilina, G, Leonetti, C, Crescenzi, M, and Bignami, M (2000). Sensitivity to DNA cross-linking chemotherapeutic agents in mismatch repair-defective cells in vitro and in xenografts. *Int J Cancer* **85**: 590-596.

61. Latella, L, Sacchi, A, and Crescenzi, M (2000). Long-term fate of terminally differentiated skeletal muscle cells following E1A-initiated cell cycle reactivation. *Cell Death Diff* **7**: 145-154.

62. Moretti, F, Nanni, S, Farsetti, A, Narducci, M, Crescenzi, M, Giuliacci, S, Sacchi, A, and Pontecorvi, A (2000). Effects of exogenous p53 transduction in thyroid tumor cells with different p53 status. *J Clin Endocrinol Metab* **85**: 302-308.

63. Colussi, C, Fiumicino, S, Giuliani, A, Rosini, S, Musiani, P, Macri, C, Potten, CS, Crescenzi, M, and Bignami, M (2001). 1,2-Dimethylhydrazine-Induced Colon Carcinoma and Lymphoma in msh2(-/-) Mice. *J Natl Cancer Inst* **93**: 1534-1540.

64. Crescenzi, M, and Giuliani, A (2001). The main biological determinants of tumor line taxonomy elucidated by a principal component analysis of microarray data. *FEBS Letters* **507**: 114-118.

65. Latella, L, Sacco, A, Pajalunga, D, Tiainen, M, Macera, D, D'Angelo, M, Felici, A, Sacchi, A, and Crescenzi, M (2001). Reconstitution of cyclin D1-associated kinase activity drives terminally differentiated cells into the cell cycle. *Mol Cell Biol* **21**: 5631-5643.

66. Bonapace, IM, Latella, L, Papait, R, Nicassio, F, Sacco, A, Muto, M, Crescenzi, M, and Di Fiore, PP (2002). Np95 is regulated by E1A during mitotic reactivation of terminally differentiated cells and is essential for S phase entry. *J Cell Biol* **157**: 909-914.

67. Colussi, C, Parlanti, E, Degan, P, Aquilina, G, Barnes, D, Macpherson, P, Karran, P, Crescenzi, M, Dogliotti, E, and Bignami, M (2002). The Mammalian Mismatch Repair Pathway Removes DNA 8-oxodGMP Incorporated from the Oxidized dNTP Pool. *Curr Biol* **12**: 912-918.

68. Giannini, G, Ristori, E, Cerignoli, F, Rinaldi, C, Zani, M, Viel, A, Ottini, L, Crescenzi, M, Martinotti, S, Bignami, M, Frati, L, Screpanti, I, and Gulino, A (2002). Human MRE11 is inactivated in mismatch repair-deficient cancers. *EMBO Rep* **3**: 248-254.

69. Sacco, A, Pajalunga, D, Latella, L, Siepi, F, Rufini, A, and Crescenzi, M (2002). Cell cycle reactivation in skeletal muscle and other terminally differentiated cells. In: Crescenzi, M (ed). Reactivation of the cell cycle in terminally differentiated cells. Kluwer Academic: New York, New York. pp 45-61.

70. Franchitto, A, Pichierri, P, Piergentili, R, Crescenzi, M, Bignami, M, and Palitti, F (2003). The mammalian mismatch repair protein MSH2 is required for correct MRE11 and RAD51 relocalization and for efficient cell cycle arrest induced by

ionizing radiation in G2 phase. *Oncogene* **22**: 2110-2120.

71. Sacco, A, Siepi, F, and Crescenzi, M (2003). HPV E7 expression in skeletal muscle cells distinguishes initiation of the postmitotic state from its maintenance. *Oncogene* **22**: 4027-4034.

72. Bossi, G, Mazzaro, G, Porrello, A, Crescenzi, M, Soddu, S, and Sacchi, A (2004). Wild-type p53 gene transfer is not detrimental to normal cells in vivo: implications for tumor gene therapy. *Oncogene* **23**: 418-425.

73. Camarda, G, Siepi, F, Pajalunga, D, Bernardini, C, Rossi, R, Montecucco, A, Meccia, E, and Crescenzi, M (2004). A pRb-independent mechanism preserves the postmitotic state in terminally differentiated skeletal muscle cells. *J Cell Biol* **167**: 417-423.

74. Marchetti, A, Cecchinelli, B, D'Angelo, M, D'Orazi, G, Crescenzi, M, Sacchi, A, and Soddu, S (2004). p53 can inhibit cell proliferation through caspase-mediated cleavage of ERK2/MAPK. *Cell Death Differ* **11**: 596-607.

75. Pajalunga, D, and Crescenzi, M (2004). Regulation of cyclin E protein levels through E2F-mediated inhibition of degradation. *Cell Cycle* **3**: 1572-1578.

76. Porrello, A, Soddu, S, Zbilut, JP, Crescenzi, M, and Giuliani, A (2004). Discrimination of single amino acid mutations of the p53 protein by means of deterministic singularities of recurrence quantification analysis. *Proteins* **55**: 743-755.

77. Nicassio, F, Bianchi, F, Capra, M, Vecchi, M, Confalonieri, S, Bianchi, M, Pajalunga, D, Crescenzi, M, Bonapace, IM, and Di Fiore, PP (2005). A cancer-specific transcriptional signature in human neoplasia. *J Clin Invest* **115**: 3015-3025.

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