

Curriculum Vitae

Informazioni personali

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Titoli di Studio

2003 Master di I livello in Bioinformatica, Università degli Studi di Torino
1995 Specializzazione in Patologia Clinica, Università degli Studi di Torino
1994 Dottorato di Ricerca in Scienze Morfogenetiche e Citologia, Università degli Studi di Roma "La Sapienza"
1989 Laurea in Medicina e Chirurgia, Università degli Studi di Torino. 110/110 e lode; Dignità di stampa
1985 Maturità scientifica, 60/60

Attività scientifica e posizioni occupate

2005-presente Professore Associato di Istologia e Direttore del Laboratorio di Oncogenomica dell'IRCC, Università di Torino. Il laboratorio si occupa di ricerca traslazionale genomica finalizzata all'identificazione di tratti molecolari associati all'aggressività neoplastica e alla resistenza/sensibilità a trattamenti terapeutici, con lo scopo di mettere a punto strumenti diagnostici di patologia molecolare e di identificare e caratterizzare nuovi bersagli terapeutici.

2001 Borsista Armenise-Harvard, presso la Harvard Medical School, Department of Genetics, Boston, USA. Messa a punto di metodologie di generazione e analisi di profile di espressione genica con DNA microarrays.

2000-2005 Ricercatore Universitario di Istologia, laboratori della Divisione di Oncologia Molecolare dell'IRCC, Università di Torino. Identificazione su scala genomica dei geni bersaglio degli Scatter Factors mediante "DNA microarrays". Caratterizzazione funzionale dei geni identificati mediante tecniche di biologia cellulare e molecolare.

1999 Borsa di studio, laboratori della Divisione di Oncologia Molecolare dell'IRCC, Università di Torino. Identificazione su scala genomica dei geni bersaglio degli Scatter Factors mediante "gene trapping"

1998 Borsa di studio FIRC per ricerca all'estero, presso il Fred Hutchinson Cancer Research Center, Seattle USA. Messa a punto di una procedura di "gene trapping" per l'identificazione su scala genomica di geni coinvolti nella crescita e motilità cellulare e nella morfogenesi.

1997-1998 Borsa di studio post-dottorato, laboratori della Divisione di Oncologia Molecolare dell'IRCC, Università di Torino. Identificazione di proteine coinvolte nel controllo della motilità, dell'invasione e della morfogenesi delle cellule epiteliali. Messa a punto e utilizzo di approcci genomici allo studio della risposta trascrizionale degli epiteli agli Scatter Factors.

Pubblicazioni

1. Annaratone L, Medico E, Rangel N, Castellano I, Marchiò C, Sapino A, Bussolati G. Search for Neuro-Endocrine Markers (Chromogranin A, Synaptophysin and VGF) in Breast Cancers. An integrated Approach Using Immunohistochemistry and Gene Expression Profiling. *Endocr Pathol*. 2013 Nov 27. [Epub ahead of print]
2. Zecchin D, Boscaro V, Medico E, Barault L, Martini M, Arena S, Cancelliere C, Bartolini A, Crowley EH, Bardelli A, Gallicchio M, Di Nicolantonio F. BRAF V600E is a determinant of sensitivity to proteasome inhibitors. *Mol Cancer Ther*. 2013 Oct 9 [Epub ahead of print]
3. Spaccarotella E, Pellegrino E, Ferracin M, Ferreri C, Cuccuru G, Liu C, Iqbal J, Cantarella D, Taulli R, Provero P, Di Cunto F, Medico E, Negrini M, Chan WC, Inghirami G, Piva R. STAT3-mediated activation of microRNA cluster 17~92 promotes proliferation and survival of ALK positive anaplastic large cell lymphoma. *Haematologica*. 2013 Aug 23. [Epub ahead of print]
4. Pincini A, Tornillo G, Orso F, Sciortino M, Bisaro B, Camacho-Leal MD, Lembo A, Brizzi MF, Turco E, De Pittà C, Provero P, Medico E, Defilippi P, Taverna D, Cabodi S. Identification of p130Cas/ErbB2-dependent invasive signatures in transformed mammary epithelial cells. *Cell Cycle*. 2013 Jun 28;12(15). [Epub ahead of print]
5. D'Amico L, Patanè S, Grange C, Bussolati B, Isella C, Fontani L, Godio L, Cilli M, D'Amelio P, Isaia G, Medico E, Ferracini R, Roato I. Primary breast cancer stem-like cells metastasise to bone, switch phenotype and acquire a bone tropism signature *Br J Cancer*. 2013 Jun 25;108(12):2525-36
6. Zamperone A, Pietronave S, Merlin S, Colangelo D, Rinaldo G, Medico E, Di Scipio F, Berta GN, Follenzi A, Prat M. Isolation and characterization of a spontaneously immortalized multipotent mesenchymal cell line derived from mouse subcutaneous adipose tissue. *Stem Cells Dev*. 2013 Aug 9.
7. Isella C*, Mellano A*, Galimi F, Petti C, Capussotti L, De Simone M, Bertotti A, Medico E§, Muratore A§ (*Co-first author; §Co-senior author) MACC1 mRNA levels predict cancer recurrence after resection of colorectal cancer liver metastases *Ann Surg*. 2013 Jun;257(6):1089-95
8. Voena C, Di Giacomo F, Panizza E, D'Amico L, Boccalatte FE, Pellegrino E, Todaro M, Recupero D, Tabbò F, Ambrogio C, Martinengo C, Bonello L, Pulito R, Hamm J, Chiarle R, Cheng M, Ruggeri B, Medico E, Inghirami G. The EGFR family members sustain the neoplastic phenotype of ALK+ lung adenocarcinoma via EGR1 *Oncogenesis*. 2013 Apr 8;2:e43
9. Gatti S, Leo C, Gallo S, Sala V, Bucci E, Natale M, Cantarella D, Medico E, Crepaldi T. Gene expression profiling of HGF/Met activation in neonatal mouse heart. *Transgenic Res*. 2013 Jun;22(3):579-93
10. Laimer D, Dolznig H, Kollmann K, Vesely PW, Schleder M, Merkel O, Schiefer AI, Hassler MR, Heider S, Amenitsch L, Thallinger C, Staber PB, Simonitsch-Klupp I, Artaker M, Lagger S, Turner SD, Pileri S, Piccaluga PP, Valent P, Messana K, Landra I, Weichhart T, Knapp S, Shehata M, Todaro M, Sexl V, Höfler G, Piva R, Medico E, Ruggeri BA, Cheng M, Eferl R, Egger G, Penninger JM, Jaeger U, Moriggl R, Inghirami G, Kenner L. PDGFR blockade is a rational and effective therapy for NPM-ALK-driven lymphomas. *Nat Med*. 2012 Nov;18(11):1699-704
11. Sessa R, Seano G, di Blasio L, Gagliardi PA, Isella C, Medico E, Cotelli F, Bussolino F, Primo L. The miR-126 regulates Angiopoietin-1 signaling and vessel maturation by targeting p85β. *Biochim Biophys Acta*. 2012 Oct;1823(10):1925-35
12. De Bacco F, Casanova E, Medico E, Pellegatta S, Orzan F, Albano R, Luraghi P, Reato G, D'Ambrosio A, Porrati P, Patane M, Maderna E, Pollo B, Comoglio PM, Finocchiaro G, Boccaccio C. The MET oncogene is a functional marker of a glioblastoma stem cell subtype. *Cancer Res*. 2012 Sep 1;72(17):4537-50

13. Agnelli L, Mereu E, Pellegrino E, Limongi T, Kwee I, Bergaggio E, Ponzoni M, Zamò A, Iqbal J, Piccaluga PP, Neri A, Chan WC, Pileri S, Bertoni F, Inghirami G, Piva R; European T-Cell Lymphoma Study Group (Barreca A, Cuccuru G, Inghirami G, Medico E, Mereu E, Pellegrino E, Spaccarotella E, Scarfò I, Piva R, Fornari A, Ferreri C, Novero D, Chilosi M, Zamò A, Facchetti F, Lonardi S, De Chiara A, Fulcinitti F, Doglioni C, Ponzoni M, Agnelli L, Neri A, Todoerti K, Agostinelli C, Piccaluga PP, Pileri S, Falini B, Tiacci E, Van Loo P, Tousseyn T, De Wolf-Peeters C, Geissinger E, Muller-Hermelink HK, Rosenwald A, Piris MA, Rodriguez ME, Bertoni F, Kwee I, and Boi M).
Identification of a 3-gene model as a powerful diagnostic tool for the recognition of ALK-negative anaplastic large-cell lymphoma. *Blood*. 2012 Aug 9;120(6):1274-81
14. Misale S*, Yaeger R*, Hobor S*, Scala E*, Janakiraman M*, Liska D, Valtorta E, Schiavo R, Buscarino M, Siravegna G, Bencardino K, Cercek A, Chen CT, Veronese S, Zanon C, Sartore-Bianchi A, Gambacorta M, Gallicchio M, Vakiani E, Boscaro V, Medico E, Weiser M, Siena S, Di Nicolantonio F, Solit DT, Bardelli A† (* Shared first authorship - †Co-Senior authors)
Emergence of KRAS mutations and acquired resistance to anti EGFR therapy in colorectal cancer
Nature. 2012 Jun 28;486(7404):532-6
15. Annaratone L, Marchiò C, Renzulli T, Castellano I, Cantarella D, Isella C, Macri L, Mariscotti G, Balmativola D, Cantanna E, Deambrogio C, Pietribiasi F, Arisio R, Schmitt F, Medico E, Sapino A.
High-throughput molecular analysis from leftover of fine needle aspiration cytology of mammographically detected breast cancer. *Transl Oncol*. 2012 Jun;5(3):180-9
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Gender-based blood transcriptomes and interactomes in multiple sclerosis: Involvement of SP1 dependent gene transcription. *J Autoimmun*. 2012 May;38(2-3):J144-55
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18. Colombo E, Cordiglieri C, Melli G, Newcombe J, Krumbholz M, Parada LF, Medico E, Hohlfeld R, Meini E, Farina C.
Stimulation of the neurotrophin receptor TrkB on astrocytes drives nitric oxide production and neurodegeneration. *J Exp Med*. 2012 Mar 12;209(3):521-35.
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A molecularly annotated platform of patient-derived xenografts ('xenopatients') identifies HER2 as an effective therapeutic target in cetuximab-resistant colorectal cancer
(2011) *Cancer Discovery*. Nov; 1(6):508-523
20. Isella C, Renzulli T, Corà D, Medico E
Mulcom: a multiple comparison statistical test for microarray data in Bioconductor
BMC Bioinformatics. 2011 Sep 28;12:382
21. Inghirami G, Pileri SA; European T-Cell Lymphoma Study Group (Chiarle R, Cuccuru G, Inghirami G, Martinoglio B, Medico E, Pellegrino E, Piva R, Ruberto ML, Fornari A, Novero D, Chilosi M, Zamò A, Facchetti F, Lonardi S, De Chiara A, Fulcinitti F, Doglioni C, Ponzoni M, Agnelli L, Neri A, Todoerti K, Agostinelli C, Piccaluga PP, Pileri S, Falini B, Tiacci E, Van Loo P, Tousseyn T, De Wolf-Peeters C, Geissinger E, Muller-Hermelink HK, Rosenwald A, Piris MA, Rodriguez ME).
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22. Barreca A, Lasorsa E, Riera L, Machiorlatti R, Piva R, Ponzoni M, Kwee I, Bertoni F, Piccaluga PP, Pileri SA, Inghirami G; European T-Cell Lymphoma Study Group (Barreca A, Chiarle R, Cuccuru G, Inghirami G, Martinoglio B, Medico E, Pellegrino E, Piva R, Ruberto ML, Voena C, Fornari A, Novero D, Chilosi M, Zamò A, Facchetti F, Lonardi S, De Chiara A, Fulcinitti F, Doglioni C, Ponzoni M, Agnelli A, Neri A, Todoerti K, Piccaluga PP, Pileri S, Falini B, Tiacci E, Van Loo P, Tousseyn T, De Wolf-Peeters C, Geissinger E, Muller-Hermelink HK, Rosenwald A, Piris MA, Rodriguez ME).
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23. Bussolati G, Annaratone L, Medico E, D'Armento G, Sapino A
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24. De Bacco F, Luraghi P, Medico E, Reato G, Girolami F, Perera T, Gabriele P, Comoglio PM, Boccaccio C.
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Genetic and expression analysis of MET, MACC1, and HGF in metastatic colorectal cancer: response to met inhibition in patient xenografts and pathologic correlations.
Clin Cancer Res. 2011 May 15;17(10):3146-56. Epub 2011 Mar 29
26. Colombo E, Romaggi S, Medico E, Menon R, Mora M, Falcone C, Lochmüller H, Confalonieri P, Mantegazza R, Morandi L, Farina C.
Human neurotrophin receptor p75NTR defines differentiation-oriented skeletal muscle precursor cells: implications for muscle regeneration.
J Neuropathol Exp Neurol. 2011 Feb;70(2):133-42
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Clin Cancer Res. 2010 Aug 1;16(15):3933-43. Epub 2010 Jul 13
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Generation of functional hepatocytes from mouse germ line cell-derived pluripotent stem cells in vitro.
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29. Piva R, Agnelli L, Pellegrino E, Todoerti K, Grosso V, Tamagno I, Fornari A, Martinoglio B, Medico E, Zamò A, Facchetti F, Ponzoni M, Geissinger E, Rosenwald A, Müller-Hermelink HK, De Wolf-Peeters C, Piccaluga PP, Pileri S, Neri A, Inghirami G.
Gene expression profiling uncovers molecular classifiers for the recognition of anaplastic large-cell lymphoma within peripheral T-cell neoplasms.
J Clin Oncol. 2010 Mar 20;28(9):1583-90. Epub 2010 Feb 16.
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Journal of Theoretical Biology. 2009 Sep 7;260(1):151-60. Epub 2009 May 31
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The thioxotriazole copper(II) complex A0 induces endoplasmic reticulum stress and paraptotic death in human cancer cells.
Journal Of Biological Chemistry. 2009 Sep 4;284(36):24306-19. Epub 2009 Jun 26
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Clinical & Experimental Metastasis. 2009;26(6):569-87. Epub 2009 Apr 2
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Multipotent mesenchymal stem cells from amniotic fluid originate neural precursors with functional voltage-gated sodium channels.
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36. Di Nicolantonio F*, Arena S*, Gallicchio M*, Zecchin D, Martini M, Flonta SE, Stella GM, Lamba S, Cancelliere C, Russo M, Geuna M, Appendino M, Fantozzi R, Medico E and Bardelli A (* Shared first authorship)
Replacement of normal with mutant alleles in the genome of normal human cells unveils mutation-specific drug responses (2008) *Proceedings of the National Academy of Sciences of the United States of America (PNAS).* Dec 30;105(52):20864-9. Epub 2008 Dec 23.
37. Gentile A, D'Alessandro L, Lazzari L, Martinoglio B, Bertotti A, Mira A, Lanzetti L, Comoglio PM, Medico E.
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Oncogene. 2008 Sep 18;27(42):5590-8. Epub 2008 May 26
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Journal Of Biological Chemistry. 2007 Nov 16;282(46):33515-29. Epub 2007 Aug 14.
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Knock-in of oncogenic KRAS does not transform mouse somatic cells but triggers a transcriptional response that classifies human cancers
(2007) Cancer Research. Sep 15;67(18):8468-76
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FLAME, a novel fuzzy clustering method for the analysis of DNA microarray data.
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The MET oncogene drives a genetic programme linking cancer to haemostasis.
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54. Medico E, Gentile A, Lo Celso C, Williams TA, Gambarotta G, Trusolino L, Comoglio PM.
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