

Scientific production 2006-2013

CANDI Eleonora

2013

Peschiarioli A, Giacobbe A, Formosa A, Markert EK, Bongiorno-Borbone L, Levine AJ, Candi E, D'Alessandro A, Zolla L, Finazzi Agr√≤ A, Melino G. miR-143 regulates hexokinase 2 expression in cancer cells. *Oncogene*. 2013 Feb 7;32(6):797-802. doi: 10.1038/onc.2012.100. Epub 2012 Apr 2. PubMed PMID: 22469988.

Formosa A, Lena AM, Markert EK, Cortelli S, Miano R, Mauriello A, Croce N, Vandesompele J, Mestdagh P, Finazzi-Agro' E, Levine AJ, Melino G, Bernardini S, Candi E. DNA methylation silences miR-132 in prostate cancer. *Oncogene*. 2013 Jan 3;32(1):127-34. doi: 10.1038/onc.2012.14. Epub 2012 Feb 6. PubMed PMID: 22310291.

2012

Mancini M, Saintigny G, Mahe' C, Annicchiarico-Petruzzelli M, Melino G, Candi E. MicroRNA-152 and -181a participate in human dermal fibroblasts senescence acting on cell adhesion and remodeling of the extra-cellular matrix. *Aging (Albany NY)*. 2012 Nov;4(11):843-53. PubMed PMID: 23238588; PubMed Central PMCID: PMC3560438.

Viticchie' G, Lena AM, Cianfarani F, Odorisio T, Annicchiarico-Petruzzelli M, Melino G, Candi E. MicroRNA-203 contributes to skin re-epithelialization. *Cell Death Dis*. 2012 Nov 29;3:e435. doi: 10.1038/cddis.2012.174. PubMed PMID: 23190607; PubMed Central PMCID: PMC3542609.

Italiano D, Lena AM, Melino G, Candi E. Identification of NCF2/p67phox as a novel p53 target gene. *Cell Cycle*. 2012 Dec 15;11(24):4589-96. doi: 10.4161/cc.22853. Epub 2012 Nov 27. PubMed PMID: 23187810; PubMed Central PMCID: PMC3562304.

Conforti F, Li Yang A, Cristina Piro M, Mellone M, Terrinoni A, Candi E, Tucci P, Thomas GJ, Knight RA, Melino G, Sayan BS. PIR2/Rnf144B regulates epithelial homeostasis by mediating degradation of p21(WAF1) and p63. *Oncogene*. 2012 Nov 5. doi: 10.1038/onc.2012.497. [Epub ahead of print] PubMed PMID: 23128396.

Terrinoni A, Serra V, Codispoti A, Talamonti E, Bui L, Palombo R, Sette M, Campione E, Didona B, Annicchiarico-Petruzzelli M, Zambruno G, Melino G, Candi E. Novel transglutaminase 1 mutations in patients affected by lamellar ichthyosis. *Cell Death Dis*. 2012 Oct 25;3:e416. doi: 10.1038/cddis.2012.152. PubMed PMID: 23096117; PubMed Central PMCID: PMC3481139.

Amelio I, Lena AM, Viticchie' G, Shalom-Feuerstein R, Terrinoni A, Dinsdale D, Russo G, Fortunato C, Bonanno E, Spagnoli LG, Aberdam D, Knight RA, Candi E, Melino G. miR-24 triggers epidermal differentiation by controlling actin adhesion and cell migration. J Cell Biol. 2012 Oct 15;199(2):347-63. doi: 10.1083/jcb.201203134. PubMed PMID: 23071155; PubMed Central PMCID: PMC3471232.

Formosa A, Lena AM, Markert EK, Cortelli S, Miano R, Mauriello A, Croce N, Vandesompele J, Mestdagh P, Finazzi-Agrò E, Levine AJ, Melino G, Bernardini S, Candi E (2012). DNA methylation silences miR-132 in prostate cancer. ONCOGENE, ISSN: 0950-9232.

Klionsky DJ, et al., (2012). Guidelines for the use and interpretation of assays for monitoring autophagy. AUTOPHAGY, ISSN: 1554-8627.

Lena AM, Mancini M, Rivetti di Val Cervo P, Saintigny G, Mahé C, Melino G, Candi E (2012). MicroRNA-191 triggers keratinocytes senescence by SATB1 and CDK6 downregulation.. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 423, p. 509-514, ISSN: 0006-291X.

Peschiaroli A, Giacobbe A, Formosa A, Markert EK, Bongiorno-Borbone L, Levine AJ, Candi E, D'Alessandro A, Zolla L, Finazzi Agrò A, Melino G (2012). miR-143 regulates hexokinase 2 expression in cancer cells.. ONCOGENE, ISSN: 0950-9232.

Rivetti di Val Cervo Pia, Lena Anna Maria, Nicoloso Milena, Rossi Simona, Mancini Mara, Zhou Huiqing, Saintigny Gaele, Dellambra Elena, Odorisio Teresa, Mahe Christian, Calin George Adrian, Candi E, Melino Gerry (2012). p63-microRNA feedback in keratinocyte senescence.. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 109, p. 1133-1138, ISSN: 1091-6490

2011

Shalom-Feuerstein R., Lena A. M., Zhou H., Divonne S. De la Forest, Van Bokhoven H., Candi E, Melino G., Aberdam D. (2011). Delta Np63 is an ectodermal gatekeeper of epidermal morphogenesis. CELL DEATH AND DIFFERENTIATION, vol. 18, p. 887-896, ISSN: 1350-9047, doi: 10.1038/cdd.2010.159

Browne Gareth, Cipollone Rita, Lena Anna Maria, Serra Valeria, Zhou Huiqing, van Bokhoven Hans, Doetsch Volker, Merico Daniele, Mantovani Roberto, Terrinoni Alessandro, Knight Richard A., Candi E, Melino Gerry (2011). Differential altered stability and transcriptional activity of Delta Np63 mutants in distinct ectodermal dysplasias. JOURNAL OF CELL SCIENCE, vol. 124, p. 2200-2207, ISSN: 0021-9533, doi: 10.1242/jcs.079327

Notari Mario, Hu Ying, Koch Sofia, Lu Min, Ratnayaka Indrika, Zhong Shan, Baer Caroline, Pagotto Anna, Goldin Robert, Salter Victoria, Candi E, Melino Gerry, Lu Xin (2011). Inhibitor of apoptosis-stimulating protein of p53 (iASPP) prevents senescence and is required for epithelial stratification. PROCEEDINGS OF THE

NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 108, p. 16645-16650, ISSN: 0027-8424, doi: 10.1073/pnas.1102292108

Viticchiè G, Lena A, Latina A, Formosa A, Gregersen L, Lund A, Bernardini S, Mauriello A, Miano R, Spagnoli L, Knight R, Candi E, Melino G (2011). MiR-203 controls proliferation, migration and invasive potential of prostate cancer cell lines. *CELL CYCLE*, vol. 10, p. 1121-1131, ISSN: 1551-4005

Agostini Massimiliano, Tucci Paola, Killick Richard, Candi E, Sayan Berna S., Cervo Pia Rivetti di Val, Nicotera Pierluigi, McKeon Frank, Knight Richard A., Mak Tak W., Melino Gerry (2011). Neuronal differentiation by TAp73 is mediated by microRNA-34a regulation of synaptic protein targets. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, vol. 108, p. 21093-21098, ISSN: 0027-8424, doi: 10.1073/pnas.1112061109

Manca Sonia, Magrelli Armando, Cialfi Samantha, Lefort Karine, Ambra Roberto, Alimandi Maurizio, Biolcati Gianfranco, Uccelletti Daniela, Palleschi Claudio, Screpanti Isabella, Candi E, Melino Gerry, Salvatore Marco, Taruscio Domenica, Talora Claudio (2011). Oxidative stress activation of miR-125b is part of the molecular switch for Hailey-Hailey disease manifestation. *EXPERIMENTAL DERMATOLOGY*, vol. 20, p. 932-937, ISSN: 0906-6705, doi: 10.1111/j.1600-0625.2011.01359.x

Boase Natasha A., Rychkov Grigori Y., Townley Scott L., Dinudom Anuwat, Candi E, Voss Anne K., Tsoutsman Tatiana, Semsarian Chris, Melino Gerry, Koentgen Frank, Cook David I., Kumar Sharad (2011). Respiratory distress and perinatal lethality in Nedd4-2-deficient mice. *NATURE COMMUNICATIONS*, vol. 2, ISSN: 2041-1723, doi: 10.1038/ncomms1284

Formosa Amanda, Piro Maria Cristina, Docimo Raffaella, Maturo Paolo, Sollecito Daniela Rita Maria, Kalimutho Murugan, Sancesario Giulia, Barlattani Alberto, Melino Gerry, Candi E, Bernardini Sergio (2011). Salivary miRNAome profiling uncovers epithelial and proliferative miRNAs with differential expression across dentition stages. *CELL CYCLE*, vol. 10, p. 3359-3368, ISSN: 1538-4101, doi: 10.4161/cc.10.19.17647

Rouleau Matthieu, Medawar Alain, Hamon Laurent, Shvitiel Shoham, Wolchinsky Zohar, Zhou Huiqing, De Rosa Laura, Candi E, de la Forest Divonne Stephanie, Mikkola Marja L., van Bokhoven Hans, Missero Caterina, Melino Gerry, Puceat Michel, Aberdam Daniel (2011). TAp63 Is Important for Cardiac Differentiation of Embryonic Stem Cells and Heart Development. *STEM CELLS*, vol. 29, p. 1672-1683, ISSN: 1066-5099, doi: 10.1002/stem.723

Rufini Stefano, Lena Anna Maria, Cadot Bruno, Mele Sonia, Amelio Ivano, Terrinoni Alessandro, Desideri Alessandro, Melino Gerry, Candi E (2011). The sterile alpha-motif (SAM) domain of p63 binds in vitro monoasialoganglioside (GM1) micelles. *BIOCHEMICAL PHARMACOLOGY*, vol. 82, p. 1262-1268, ISSN: 0006-2952, doi: 10.1016/j.bcp.2011.07.087

Agostini Massimiliano, Tucci Paola, Steinert Joern R., Shalom-Feuerstein Ruby, Rouleau Matthieu, Aberdam Daniel, Forsythe Ian D., Young Kenneth W., Ventura

Andrea, Concepcion Carla P., Han Yoon-Chi, Candi E, Knight Richard A., Mak Tak W., Melino Gerry (2011). microRNA-34a regulates neurite outgrowth, spinal morphology, and function. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 108, p. 21099-21104, ISSN: 0027-8424, doi: 10.1073/pnas.1112063108

Vanbokhoven Hans, Melino Gerry, Candi E, Declercq Wim (2011). p63, a Story of Mice and Men. JOURNAL OF INVESTIGATIVE DERMATOLOGY, vol. 131, p. 1196-1207, ISSN: 0022-202X, doi: 10.1038/jid.2011.84

2010

Busuttill Valere, Droin Nathalie, McCormick Laura, Bernassola Francesca, Candi E, Melino Gerry, Green Douglas R. (2010). NF-kappa B inhibits T-cell activation-induced, p73-dependent cell death by induction of MDM2. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 107, p. 18061-18066, ISSN: 0027-8424, doi: 10.1073/pnas.1006163107

Lena Anna Maria, Cipollone Rita, Amelio Ivano, Catani Maria Valeria, Ramadan Safaa, Browne Gareth, Melino Gerry, Candi E (2010). Skn-1a/Oct-11 and Delta Np63 alpha exert antagonizing effects on human keratin expression. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 401, p. 568-573, ISSN: 0006-291X, doi: 10.1016/j.bbrc.2010.09.102

Straub W. E., Weber T. A., Schaefer B., Candi E, Durst F., Ou H. D., Rajalingam K., Melino G., Doetsch V. (2010). The C-terminus of p63 contains multiple regulatory elements with different functions. CELL DEATH & DISEASE, vol. 1, ISSN: 2041-4889, doi: 10.1038/cddis.2009.1

Barlev N. A., Sayan B. S., Candi E, Okorokov A. L. (2010). The microRNA and p53 families join forces against cancer. CELL DEATH AND DIFFERENTIATION, vol. 17, p. 373-375, ISSN: 1350-9047, doi: 10.1038/cdd.2009.73

Borrelli S., Candi E, Hu B., Dolfini D., Ravo M., Grober O. M. V., Weisz A., Dotto G. P., Melino G., Vigano M. A., Mantovani R. (2010). The p63 target HBP1 is required for skin differentiation and stratification. CELL DEATH AND DIFFERENTIATION, vol. 17, p. 1896-1907, ISSN: 1350-9047, doi: 10.1038/cdd.2010.59

Dotsch V, Bernassola F, Coutandin D, Candi E, Melino G (2010). p63 and p73, the ancestors of p53.. COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY, vol. 2, ISSN: 1943-0264, doi: 10.1101/cshperspect.a004887

2009

Tarantino U., Oliva F., Taurisano G., Orlandi A., Pietroni V., Candi E, Melino G., Maffulli N. (2009). FXIIIa and TGF-beta over-expression produces normal musculo-skeletal phenotype in TG2-/- mice. AMINO ACIDS, vol. 36, p. 679-684, ISSN: 0939-4451, doi: 10.1007/s00726-008-0133-7

Gonfloni Stefania, Di Tella Lucia, Caldarola Sara, Cannata Stefano M., Klinger Francesca G., Di Bartolomeo Claudia, Mattei Maurizio, Candi E, De Felici Massimo, Melino Gerry, Cesareni Gianni (2009). Inhibition of the c-Abl-TAp63 pathway protects mouse oocytes from chemotherapy-induced death. NATURE MEDICINE, vol. 15, p. 1179-U107, ISSN: 1078-8956, doi: 10.1038/nm.2033

Orlandi A., Oliva F., Taurisano G., Candi E, Di Lascio A., Melino G., Spagnoli L. G., Tarantino U. (2009). Transglutaminase-2 differently regulates cartilage destruction and osteophyte formation in a surgical model of osteoarthritis. AMINO ACIDS, vol. 36, p. 755-763, ISSN: 0939-4451, doi: 10.1007/s00726-008-0129-3

Oliva Francesco, Zocchi Loredana, Codispoti Andrea, Candi E, Celi Monica, Melino Gerry, Maffulli Nicola, Tarantino Umberto (2009). Transglutaminases expression in human supraspinatus tendon ruptures and in mouse tendons. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 379, p. 887-891, ISSN: 0006-291X, doi: 10.1016/j.bbrc.2008.12.188

Borrelli S, Candi E, Alotto D, Castagnoli C, Melino G, Viganò MA, Mantovani R (2009). p63 regulates the caspase-8-FLIP apoptotic pathway in epidermis. CELL DEATH AND DIFFERENTIATION, vol. 16, p. 253-263, ISSN: 1350-9047, doi: 10.1038/cdd.2008.147

Rivetti di Val Cervo Pia, Tucci Paola, Majid Aneela, Lena Anna Maria, Agostini Massimiliano, Bernardini Sergio, Candi E, Cohen Gerry, Nicotera Pierluigi, Dyer Martin J S, Melino Gerry (2009). p73, miR106b, miR34a, and Itch in chronic lymphocytic leukemia.. BLOOD, vol. 113, ISSN: 0006-4971

2008

Pietroni Valentina, Di Giorgi Sabrina, Paradisi Andrea, Ahvazi Bijan, Candi E, Melino Gerry (2008). Inactive and Highly Active, Proteolytically Processed Transglutaminase-5 in Epithelial Cells. JOURNAL OF INVESTIGATIVE DERMATOLOGY, vol. 128, p. 2760-2766, ISSN: 0022-202X, doi: 10.1038/jid.2008.146

Lena A. M., Shalom-Feuerstein R., Cervo P. Rivetti di Val, Aberdam D., Knight R. A., Melino G., Candi E (2008). miR-203 represses 'stemness' by repressing Delta Np63. CELL DEATH AND DIFFERENTIATION, vol. 15, p. 1187-1195, ISSN: 1350-9047, doi: 10.1038/cdd.2008.69

Aberdam Daniel, Candi E, Knight Richard A., Melino Gerry (2008). miRNAs, 'stemness' and skin. TRENDS IN BIOCHEMICAL SCIENCES, vol. 33, p. 583-591, ISSN: 0968-0004, doi: 10.1016/j.tibs.2008.09.002

Candi E, Cipollone R., Cervo P. Rivetti di Val, Gonfloni S., Melino G., Knight R. (2008). p63 in epithelial development. CELLULAR AND MOLECULAR LIFE SCIENCES, vol. 65, p. 3126-3133, ISSN: 1420-682X, doi: 10.1007/s00018-008-8119-x

2007

Sayan Berna S., Sayan A. Emre, Yang Ai Li, Aqeilan Rami I., Candi E, Coher Gerald M., Knight Richard A., Croce Carlo M., Melino Gerry (2007). Cleavage of the transactivation-inhibitory domain of p63 by caspases enhances apoptosis. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 104, p. 10871-10876, ISSN: 0027-8424, doi: 10.1073/pnas.0700761104

Candi E, Rufini A, Terrinoni A, Giamboi-Miraglia A, Lena AM Mantovani R, Knight R Melino G (2007). Delta Np63 regulates thymic development through enhanced expression of FgfR2 and Jag2. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 104, p. 11999-12004, ISSN: 0027-8424, doi: 10.1073/pnas.0703458104

Chikh Anissa, Sayan Emre, Thibaut Sebastien, Lena Anna Maria, DiGiorgi Sabrina, Bernard Bruno A., Melino Gerry, Candi E (2007). Expression of GATA-3 in epidermis and hair follicle: Relationship to p63. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 361, p. 1-6, ISSN: 0006-291X, doi: 10.1016/j.bbrc.2007.06.069

Zocchi Loredana, Terrinoni Alessandro, Candi E, Ahvazi Bijan, Bagetta Giacinto, Corasaniti M. Tiziana, Lena Anna M., Melino Gerry (2007). Identification of transglutaminase 3 splicing isoforms. JOURNAL OF INVESTIGATIVE DERMATOLOGY, vol. 127, p. 1791-1794, ISSN: 0022-202X, doi: 10.1038/sj.jid.5700768

Candi E, Dinsdale David, Rufini Alessandro, Salomoni Paolo, Knight Richard A., Mueller Martina, Krammer Peter H., Melino Gerry (2007). TAp63 and Delta Np63 in cancer and epidermal development. CELL CYCLE, vol. 6, p. 274-284, ISSN: 1538-4101, doi: 10.4161/cc.6.3.3797

2006

Candi E, Rufini A, Terrinoni A, Dinsdale D, Ranalli M, Paradisi A, De Laurenzi V, Spagnoli LG, Catani MV, Ramadan S, Knight RA, Melino G (2006). Differential roles of p63 isoforms in epidermal development: selective genetic complementation in p63 null mice. CELL DEATH AND DIFFERENTIATION, vol. 13, p. 1037-1047, ISSN: 1350-9047, doi: 10.1038/sj.cdd.4401926

Bakker Erik N. T. P., Pisteu Adrian, Spaan Jos A. E., Rolf Titia, de Vries Carlie J., van Rooijen Nico, Candi E, VanBavel Ed (2006). Flow-dependent remodeling of small arteries in mice deficient for tissue-type transglutaminase - Possible compensation by macrophage-derived factor XIII. CIRCULATION RESEARCH, vol. 99, p. 86-92, ISSN: 0009-7330, doi: 10.1161/01.RES.0000229657.83816.a7

Cicero D, Falconi M, Candi E, Mele S, Cadot B, Di Venere A, Rufini S, Melino G, Desideri A (2006). NMR structure of the p63 SAM domain and dynamical

properties of G534V and T537P pathological mutants, identified in the AEC syndrome. *CELL BIOCHEMISTRY AND BIOPHYSICS*, vol. 44, p. 475-489, ISSN: 1085-9195, doi: 10.1385/CBB:44:3:475

Vigano MA, Lamartine J, Testoni B, Merico D, Alotto D, Castagnoli C, Robert A, Candi E, Melino G, Gidrol X, Mantovani R (2006). New p63 targets in keratinocytes identified by a genome-wide approach. *EMBO JOURNAL*, vol. 25, p. 5105-5116, ISSN: 0261-4189, doi: 10.1038/sj.emboj.7601375

Rossi Mario, Aqeilan Rami I, Neale Michael, Candi E, Salomoni Paolo, Knight Richard A., Croce Carlo M., Melino Gerry (2006). The E3 ubiquitin ligase Itch controls the protein stability of p63. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, vol. 103, p. 12753-12758, ISSN: 0027-8424, doi: 10.1073/pnas.0603449103

Ponassi Raffaella, Terrinoni Alessandro, Chikh Anissa, Rufini Alessandro, Lena Anna Maria, Sayan Berna S., Melino Gerry, Candi E (2006). p63 and p73, members of the p53 gene family, transactivate PKC delta. *BIOCHEMICAL PHARMACOLOGY*, vol. 72, p. 1417-1422, ISSN: 0006-2952, doi: 10.1016/j.bcp.2006.07.031

Candi E, Terrinoni Alessandro, Rufini Alessandro, Chikh Anissa, Lena Anna Maria, Suzuki Yasuhiro, Sayan Berna S., Knight Richard A., Melino Gerry (2006). p63 is upstream of IKK alpha in epidermal development. *JOURNAL OF CELL SCIENCE*, vol. 119, p. 4617-4622, ISSN: 0021-9533, doi: 10.1242/jcs.03265

Rufini A, Weil M, McKeon F, Barlattani A, Melino G, Candi E (2006). p63 protein is essential for the embryonic development of vibrissae and teeth. *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*, vol. 340, p. 737-741, ISSN: 0006-291X, doi: 10.1016/j.bbrc.2005.12.065