

CURRICULUM VITAE of Eleonora CANDI

PRESENT POSITION: (i) Full Professor in Biochemistry at the Department of Experimental Medicine of the University of Rome "Tor Vergata", Rome. Italy; (ii) Head of the Biochemistry laboratory, IDI-IRCCS hospital, Rome, Italy.

EDUCATION: PhD (1995, Rome) in Skin Biochemistry; BSc (1991, Rome) in Biology.

PREVIOUS WORK: Following fellowships in London (UK, 1992) and Bristol (UK, 1993) moved to the Skin Biology Branch, NIAMS-NIH, Bethesda MD, USA (chief of branch Dr. P.M. Steinert) in 1993-1997. Returned back to Rome, Italy as Telethon Scientists (up to 2001) to become Assistant Professor and Full Professor at the University of Rome "Tor Vergata" in Molecular Biology (BIO/11) (up to 2022).

EDITORIAL ACTIVITY: (i) Editor-in-chief Discover Oncology (Springer-Nature; <https://www.springer.com/journal/12672>); (ii) Editorial Board member of (1) The FEBS Journal; (2) Encyclopedia of Life Science, Wiley-Blackwell; (3) Cell Cycle, Taylor & Francis; (4) Cell Death Disease, Springer-Nature. (iii) Peer-reviewer for international journals (Cell Reports, Nature Comms, Cell Death & Differentiation, Oncogene, Journal Investigative Dermatology).

AREAS OF EXPERTISE: (i) Programmed cell death (apoptosis) in epithelial models: (a) role of transglutaminases and their substrates; (b) role of p63, homolog of p53, in epithelia proliferation/differentiation; (ii) role of microRNA/lncRNAs in epithelial proliferation/differentiation and migration/invasion; (iii) p53 family members in squamous cell carcinomas; (iv) generation and characterization of transgenic mice; (v) cell metabolism in normal and pathological conditions.

PUBLICATIONS: 167 scientific articles;
Corresponding author (*) 55 papers. Cumulative IF=860,282
Google Scholar: H-index = 60. Cites = 30003.
Scopus Research ID: H-index= 50. Cites=15886

SELECTED ARTICLE (10):

1. Cappello et al. Extracellular serine empowers epidermal proliferation and psoriasis-like symptoms. **Science Adv.** 8:eabm7902. [IF: 14.143]
2. Lena et al. The p63 C-terminus is essential for murine oocytes integrity. **NatureComms.** 2021; 12:383. [IF: 12.121]
3. Panatta E et al. Long non-coding RNA uc.291 controls epithelial differentiation by interfering with the ACTL6A/BAF complex. **EMBO Rep.** 2020. 21(3):e46734. [IF: 7.497]
3. Viticchiè G, et al. p63 supports aerobic respiration through hexokinase II. **Proc Natl Acad Sci U S A.** 2015. 112(37):11577-82. [IF: 9.771]
4. Amelio I, et al. miR-24 triggers epidermal differentiation by controlling actin adhesion and cell migration. **J Cell Biology.** 2012;199(2):347-63. [IF: 10.264]
5. Rivetti di Val Cervo P, et al. p63-microRNA feedback in keratinocyte senescence. **Proc Natl Acad Sci U S A.** 2012. 109(4):1133-8. [IF: 9.771]
6. Agostini M, et al. Neuronal differentiation by TAp73 is mediated by microRNA-34a regulation of synaptic protein targets. **Proc Natl Acad Sci U S A.** 2011. 108(52):21093-8. [IF: 9.771]
7. Notari M, et al. Inhibitor of apoptosis-stimulating protein of p53 (iASPP) prevents senescence and is required for epithelial stratification. **Proc Natl Acad Sci U S A.** 2011. 108(40):16645-50. [IF: 9.771]
8. Boase NA, et al. Respiratory distress and perinatal lethality in Nedd4-2-deficient mice. **Nature Commun.** 2011; 2:287. [IF: 12.764]
9. Gonfloni S, et al. Inhibition of the c-Abl-TAp63 pathway protects mouse oocytes from chemotherapy-induced death. **Nature Medicine.** 2009.15(10):1179-85. [IF: 27.553]
10. Candi E, et al. DeltaNp63 regulates thymic development through enhanced expression of FgfR2 and Jag2. **Proc Natl Acad Sci U S A.** 2007.104(29):11999-2004. [IF=9.643]

REVIEWS (4):

1. Amelio I et al. Emerging roles of long non-coding RNAs in breast cancer biology and management. **Semin Cancer Biol.** 2020. S1044-579X(20)30155-3.
2. Dötsch V, et al. p63 and p73, the ancestors of p53. **Cold Spring Harb Perspect Biol.** 2010 Sep;2(9):a004887.
3. Aberdam D, et al. miRNAs, 'stemness' and skin. **Trends Biochem Sci.** 2008. 33(12):583-91.
4. Candi E, et al. The cornified envelope: a model of cell death. **Nature Reviews Molec. Cell. Biol.** 2005. 6:328-40.

CURRICULUM VITAE



NAME: *Eleonora Candi*

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ORCID: 0000-0001-8332-4825

PRESENT POSITION

Since 2017: (i) Full Professor in Biochemistry (SSD BIO/10) at the Department of Experimental Medicine of the University of Rome "Tor Vergata", Rome, Italy. (ii) Head of the Biochemistry laboratory, IDI-IRCCS hospital, Rome, Italy.

EDUCATION

1995 Ph.D. degree in "Biology and physiopathology of the epidermis" at the University of Rome "Tor Vergata". Title of the experimental thesis: "Loricrin in the assembly of the cornified envelope: structural studies, and transglutaminase substrate properties".

1991 Doctoral degree (Biology). Final score 110/110 cum laude; experimental thesis at the Dept. of Biology University of Rome "Tor Vergata" on "Bradykinin effect on the transduction mechanisms on a rat fibroblast cell line (F208)".

PREVIOUS POSITIONS

Since 2017 up to now: (i) Full Professor in Molecular Biology at the Department of Experimental Medicine of the University of Rome "Tor Vergata", Rome, Italy. (ii) Head of the Biochemistry laboratory, IDI-IRCCS hospital, Rome, Italy.

2012 up to 2017: Associate Professor in Molecular Biology at the Department of Experimental Medicine and Surgery of the University of Rome "Tor Vergata".

2001 up to 2012: Assistant Professor in Biochemistry at the Department of Experimental Medicine and Surgery of the University of Rome "Tor Vergata".

5/1999 up to 5/2001: Telethon Research fellow at the Department of Experimental Medicine and Biochemical Sciences of "Tor Vergata" University. The position was supported by Telethon Grant.

10/1997 up to 4/1999: Postdoctoral research fellow in Biochemistry at the Department of Experimental Medicine and Biochemical Sciences of "Tor Vergata" University.

3/1993 up to 9/1997: Visiting research fellow at the Skin Biology Branch, NIAMS-NIH, Bethesda MD (chief of branch Dr. P.M. Steinert).

1-3/1993: Three months of sabbatical practical experience with a COMETT-FORUM grant in Neuroendocrinology laboratory of University of Bristol, UK.

9-11/1992: Three months of sabbatical practical experience with a COMETT-FORUM grant in Immunology laboratory of Charing Cross & Westminster Med. Sch., London.

12/1991: Postdoctoral research fellow in cellular biology at the Department of Experimental Medicine and Biochemical Sciences of “Tor Vergata” University.

1988-1991: Graduate research student at the Dept. of Biology of the University of Rome “Tor Vergata”.

ACADEMIC EXPERIENCE

1997-2008: Practicals, main lectures and exams in Biochemistry for Medical Students at the University of Rome “Tor Vergata”.

2008 to date: Teaching Molecular Biology in Medical Biotechnology course.

2009 to date: Teaching Molecular Biology for student in Pharmacy.

2010 to date: Member of the board of the PhD program in “Biochemistry and Molecular Biology” of the University of Rome “Tor Vergata”.

2013 to date: Coordinator of the Master course: “Nutrition and Cosmetics”, University of Rome “Tor Vergata”.

2018 to 2020: Coordinator of the PhD Program: “Biochemistry and Molecular Biology”, University of Rome “Tor Vergata”.

EDITORIAL EXPERIENCE

2009 to 2020 Section Editor of *The Encyclopedia of Life Science* (eLS), Molecular Biology section, Wiley-Blackwell.

2014 to date Editorial Board member of *FEBS Journal*, Wiley Online Library.

2014 to date Editorial Board member of *Cell Death Disease*, Springer-Nature.

2020 to date Editorial Assistant of *Cell Cycle*, Taylor & Francis.

2020 to date Editor-in-Chief of *Discover Oncology*, Springer-Nature.

Acting as referee for: Cell Reports, Nature Comms, Cell Death & Differentiation, Oncogene, Journal Investigative Dermatology.

SCIENTIFIC INTERESTS

Programmed cell death (apoptosis) in epithelial models: (1) role of transglutaminases and their substrates; (2) role of p63, homolog of p53, in epithelia proliferation/differentiation; (2) role of microRNA/lncRNAs in epithelial proliferation/differentiation and migration/invasion; (3) p53 family members in squamous cell carcinomas; (4) generation and characterization of transgenic mice; (5) cell metabolism in normal tissue and pathologies.

CONFERENCES ORGANIZATION/SPEAKERS

ORGANIZATION:

- 1997-International Investigative Dermatology Satellite workshop on “Inherited Skin Diseases”, Rome, Italy.
- 2003-International workshop on “Programmed Cell Death”, Villa Vigoni, Como, Italy.
- 2004-International workshop on “New insights into apoptosis: from basic mechanism to therapeutic application”, Villa Vigoni, Como, Italy.
- 2012-International conference, ECDO, 20th Euroconference on Apoptosis, Rome, Italy.
- 2013-Workshop on Cell Death, “Cell Death and Disease” Como, Italy.

SELECTED ORAL PRESENTATIONS:

- 2009-International EMBO workshop on “Model organisms in cell death research”, Obergurgl, Austria.
- 2010-The 1st International p53 Isoforms Meeting, Lione, France.
- 2012-The 42nd ESDR meeting, Venezia Lido, Venice, Italy.
- 2005-The 2nd International p53 Isoform Conference, Aix-en-Provence, France.
- 2016-The 7th p63/p73 International Workshop, Boston, USA.
- 2015-The 23rd Conference of the European Cell Death Organization “Death pathways and beyond” Geneva, Swiss.

- 2017-The 17th International p53 Workshop, Singapore.

INVITED SPEAKER:

- 1993-Advances in Neuroblastoma Research, No 6, Philadelphia, USA.
- 1995-Biochemistry of Neuroectodermal Tumours, 3rd Workshop, IDI-IRCCS, Rome, Italy.
- 1996-The 5th International Conference on “Transglutaminase and Protein Cross-linking reactions”, Cheju-Korea, Korea.
- 2000-The 6th International Conference on “Transglutaminase and Protein Cross-linking”, Lyon-France.
- 2000- The 2nd European Workshop on “Cell Death”, Gibilmanna, Italy.
- 2001-The 9th Euroconference on “Apoptosis”, European Cell Death Organization (ECDO). Vienna, AU.
- 2002-Workshop on “Cell Death and Differentiation in Cancer and Infectious Diseases”, Capri, Italy.
- 2003- The 8th International Congress on “Amino Acids and Proteins”, Rome, Italy.
- 2003-Gordon Research Conference “Barrier Function of Mammalian Skin”, Bristol, USA.
- 2008-International workshop on “Epistem Conference”, Ghent-Belgium.
- 2009-The 4th p63/p73 Workshop, Toronto, Canada.
- 2013. The 6th p63/p73 International workshop, Chiba, Japan.
- 2016-Symposium in "Epigenetic Regulation of Skin Regeneration, Ageing and Disease", Bradford, UK.
- 2017-Workshop “TGases in health and diseases” Debrecen, HU.
- 2017-ESDR Satellite Symposium “Skin epigenetics”, Salisbury, AU.
- 2018-CDD Conference 2018 “Genes vs Environment in Cancer”, Cambridge, UK.
- 2019-CDD Conference “Cancer, Immunity & Inflammation”, Cambridge, UK
- 2019-The Wuxi International Bioforum and 9th Cell Death & Disease Symposium - New Drug Discovery, Wuxi, China.
- 2022 - European Cell Death Organization, DZNE Bonn, Germany.

GRANTS

PAST:

1999 Telethon Grant 417/bi
 2002 Telethon Grant GP002251
 2006 Telethon Grant (2006-2009) GGP06048
 2006 PRIN (2006-2007)
 2006 Ministry of Health IDI-IRCCS (2007-2009)
 2012 AIRC, Italian Cancer Association (2013-2016)
 2016 Fondazione Roma (2016-2017)

ON GOING:

2018 Ministry of Health IDI-IRCCS, resp. UO (2018-2020)
 2018-2020 MISE, Cooperation Italy-China, PI (2018-2021)
 2019 AIRC, Italian Cancer Association, PI (2019-2023)
 2020 Minister of Health, Ricerca Finalizzata, PI (2020-2023)
 2021 Regione Lazio, PI (2021-2023)
 2022 Ministry of University, PNRR-PE6 (2022-2026)
 2023 Ministry of Health, PNRR-MAD (2022-2024)

SCIENTIFIC PUBLICATIONS

Published **168 papers**, including: : 11 PNAS-USA, 1 Nature Rev Mol Cell Biol, 1 Nature Medicine, 2 EMBO J, 1 Mol Cell Biol, 6 J Biol Chem, 8 Cell Death Differ, 1 Blood, 2 Nature Communications, 1 J Cell Biology, 6 Oncogene, 1 Embo Reports, 1 Science Advances.

Corresponding author (*) 56 papers. Cumulative IF=874,418

Google Scholar: H-index = 60. Cites = 30003.

Scopus Research ID: H-index= 50. Cites=15866.