


## PERSONAL INFORMATION

## Elena Dellambra

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Sex Female | Date and place of birth 29.04.1968, Pietrasanta (LU) | Nationality Italian

## PERSONAL STATEMENT

I have extensive experience in keratinocyte cell biology and cell/gene therapy for clinical and research purposes.

## WORK EXPERIENCE

1996 -present

**Scientist at Istituto Dermatologico Immacolata (IDI-IRCCS), Rome.**

I worked under the supervision of Dr. Michele De Luca until 2002 in projects concerning human epithelial stem cell biology and phenotypic reversion of keratinocytes/melanocytes obtained from patients suffering from several recessive genetic syndromes (junctional epidermolysis bullosa, ocular albinism type 1), aimed at gene therapy.

Then, I led projects mainly focused on stem cell maintenance, skin aging and tumorigenesis.

My major scientific accomplishments are:

i) the identification of key regulators of keratinocyte stemness involved in skin aging and cancer;  
ii) the standardization of a protocol for the stable transduction of keratinocyte stem cells;  
iii) the standardization of protocols for the generation of 3D organotypic skin models for clinical (e.g for chronic ulcers) and research purposes (e.g squamous cell carcinoma model).

I collaborated to study the oxidative DNA damage in aged skin cells from patients affected with DNA repair disorders, such as xeroderma pigmentosum and Cockayne syndrome, and the function of the R-spondin1 (RSPO1) gene, which is disrupted in a recessive syndrome characterized by XX sex reversal, palmoplantar hyperkeratosis and predisposition to squamous cell carcinoma of the skin.

2006 -2012

**Qualified Person of the pilot IDI-Cell Factory of Istituto Dermatologico Immacolata (IDI-IRCCS), Rome.**

Collaboration as Qualified Person to a project for the production in Good Manufacturing Practices (GMP) of products for cell therapy (autologous skin equivalents suitable for clinical application in patients with venous and diabetic ulcers)..

Acquisition of quality assurance skills in the field of GMP for sterile medicinal products (training with CTP System). Production of an "Investigational Medicinal Product Dossier" for autologous skin equivalents.

1994 -1995

**Fellow of the Ph.D in Human Biology, University of Turin, Turin.**

Collaboration to a Telethon Project to define a protocol for the stable transduction of epidermal stem cells with replication defective retroviral constructs carrying exogenous cDNAs

Acquisition of Molecular Biology Methods and Gene Transfer Procedures: Cloning genes in vectors, Northern Blot, Gene Transfer using Physic, Chemical and Viral methods (Retrovirus, Adenovirus, Baculovirus)

1993 -1994

**Fellow of National Research Council (CNR) at the Cell Differentiation Laboratory of Advanced Biotechnology Centre (ABC), Genoa.**

Collaboration to a CNR project concerning the study of keratinocyte biology and cell signalling. Acquisition of Biochemical methods: SDS-PAGE, Dot Blot, Western blot.

1993

**Contract researcher at the Cell Differentiation Laboratory of Istituto Scientifico per lo Studio e la Cura dei Tumori (IST), Genoa.**

Collaboration to an AIRC project concerning the study of melanocyte proliferation and cell signalling.  
 Acquisition of Cell Culture procedures: Proliferation assays (H3-T and BrdU incorporation), Independence of growth factor assays, Soft agar assay, Metabolic labeling.

**EDUCATION AND TRAINING**

- 1994-1998 **Ph.D in Human Biology at the University of Turin, Turin**  
 Title of the experimental thesis: *"Corrective transduction of human epidermal stem cells in laminin-5-dependent junctional epidermolysis bullosa"*
- 1993 **Membership of the Italian Biologist's Register.**
- 1992 -1995 **Visiting researcher at the Biochemistry Laboratory of University of Genoa, Genoa.**  
 Training aimed at purification of a keratinocyte-derived protein enhancing protein kinase C enzymatic activity.  
 Acquisition of Biochemical Methods: Protein purification methods (differential protein extraction, HPLC and MPLC gel filtration chromatography, HPLC and MPLC ion-exchange chromatography, HPLC and MPLC reverse-phase chromatography, HPLC and MPLC affinity chromatography, protein separation using isoelectric focusing, native PAGE, Analytic isoelectric focusing, Bidimensional electroforetic gel, Immunoprecipitation, In vitro assays in vitro for enzymatic activity).
- 1992 -1993 **Training at the Cell Differentiation Laboratory of IST, Genoa.**  
 Collaboration to an AIRC project concerning paracrine PKC activation study in human melanocytes.  
 Acquisition of Cell Culture Procedures: Primary human keratinocyte cultures, Human melanocyte cultures, Primary human fibroblast cultures, Immortalized and tumoral cell lines.
- 1992 -1993 **Training at the Genetic Laboratory of the University of Pisa, Pisa.**  
 Collaboration to an European Project concerning the standardization of assays aimed at analyzing aneuploidogen chemical drugs involved in carcinogenesis process.  
 Acquisition of Cytogenetic Methods: peripheral blood lymphocyte treatment with mutagens and mutagenesis assays (sister chromatid exchange (SCE) assay; chromosome aberration assay, micronucleus (MN) assay, c-mitoses assay).

**PERSONAL SKILLS**

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Independent user	Proficient user	Independent user	Independent user	Proficient user
French	Basic user	Independent user	Basic user	Basic user	Independent user

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through my experience as conference speaker

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Computer skills ▪ good command of office suite (word processor, spread sheet, presentation software)  
 ▪ good command of data analysis (Origin, Statgraphycs, Graphpad)  
 ▪ good command of vector-based computer drawing (Adobe Illustrator CS)  
 ▪ good command of photo and video editing softwares ( Adobe Photoshop CS4, Adobe Photoshop Elements 6.0, Adobe Premiere Pro, Adobe Premiere Elements ) gained as an amateur photographer

Other skills Photography  
 Drawing

Driving licence Category B

CERTIFICATIONS

- National Scientific Qualification as Professor Associate in “Biochemistry” (Bando 2016, 05/E1 –D.D. 1532/2016) - MIUR - issued Mar. 2017, expires Mar. 2026
- National Scientific Qualification as Professor Associate in “Biologia Applicata” (Bando 2013, 05/F1 – DD n.161/2013) - MIUR- issued Nov. 2014, expires Nov. 2023
- National Scientific Qualification as Professor Associate in “Molecular Biology” (Bando 2012, 05/E2 – DD n.222/2012) - MIUR - issued Feb. 2014, expires Feb. 2023
- Qualified Person (GMP) Certification (Decreto N.alDT-79/2005) - Agenzia Italiana del Farmaco (AIFA) - issued Nov. 2005

PATENTS

- De Luca M. and Dellambra E. (Provincia Italiana della Congregazione dei Figli dell’Immacolata Concezione) “Method to obtain immortalized cell lines from primary cultured human keratinocytes by down-regulation of 14-3-3 sigma expression”. Feb. 25, 2000. Patent number: US20010018213. Issue date: August 30, 2001.
- De Luca M. and Dellambra E. (Provincia Italiana della Congregazione dei Figli dell’Immacolata Concezione) “Method to obtain immortalized cell lines from primary cultured human keratinocytes”. Feb. 25, 2000. Patent number: EP1127942 (1316995). Issue date: May 26, 2003.

## GRANTS

- Principal Investigator of a research line of the European Project FP6-512102 "Gene transfer in Skin Equivalents and Stem Cells: Novel Strategies for Chronic Ulcer Repair and Tissue Regeneration" (2005-2008)
- UO leader in the FIRB-MIUR program (RBIP06LCA9-002) "Identificazione di antitumorali innovativi: dalla genomica alla terapia" (2007-2011)
- Principal Investigator of RF Grant 2008 (RF-IDI-2008-1224652) "In vitro reconstituted fully functional skin equivalents based on epidermal and mesenchymal stem cells for autotransplantation to patients with deep non-healing skin defects: from the bench to bedside" (2011-2013).
- Principal Investigator of the RF Grant 2016 (RF-2016-02362541) "Investigation of metabolic and genomic profiles predictive of nicotinamide efficacy in squamous-cell carcinoma prevention" (2019-2022).

## PUBLICATIONS

H-index: 20  
(Scopus)

Citation Index <sup>2020</sup>: 2736

Total IF: 228,82

## ORIGINAL ARTICLES

**E. Dellambra**, M. Patrone, B. Sparatore, A. Negri, F. Cecilian, S. Bondanza, F. Molina, F. Descalzi Cancedda and M. De Luca (1995). Stratifin, a keratinocyte specific 14-3-3 protein, harbors a pleckstrin homology (PH) domain and enhances protein kinase C activity. *J. Cell Sci.* 108, 3569-79 IF<sub>1994</sub> = 4.336

M. B. Mathor, G. Ferrari, **E. Dellambra**, F. Mavilio, R. Cancedda and M. De Luca (1996). Clonal analysis of stably transduced human epidermal stem cells in culture. *Proc. Natl. Acad. Sci. (USA)* 93, 10371-10376 IF<sub>1995</sub> = 10.520

**E. Dellambra**, J. Vailly, G. Pellegrini, S. Bondanza, O. Golisano, C. Macchia, G. Zambruno, G. Meneguzzi and M. De Luca (1998). Corrective transduction of human epidermal stem cells in laminin-5-dependent junctional epidermolysis bullosa. *Hum. Gene Ther.* 9, 1357-1368 IF<sub>1997</sub> = 6.323

J. Vailly, L. Gagnoux-Palacios, **E. Dellambra**, C. Roméro, M. Pinola, G. Zambruno, M. De Luca, J. P. Ortonne and G. Meneguzzi (1998). Corrective gene transfer of keratinocytes from patients with junctional epidermolysis bullosa restores assembly of hemidesmosomes in reconstructed epithelia. *Gene Ther.* 5, 1322-1332 IF<sub>1997</sub> = 5.996

**E. Dellambra**, O. Golisano, S. Bondanza, E. Siviero, P. Lacal, M. Molinari, S. D'Atri and M. De Luca (2000). Downregulation of 14-3-3<sup>+</sup> prevents clonal evolution and leads to immortalization of primary human keratinocytes. *J. Cell Biol.* 149:5, 1117-1129 IF<sub>1999</sub> = 12.88

G. Pellegrini\*, **E. Dellambra\***, O. Golisano\*, E. Martinelli, I. Fantozzi, S. Bondanza, D. Ponzin, F. McKeon and M. De Luca (2001). p63 identifies keratinocyte stem cells. *Proc. Natl. Acad. Sci. (USA)* 13:98 (6), 3156-3161 IF<sub>2000</sub> = 10.789  
\*authors contributed equally to this work

**E. Dellambra**, Prislei S, Salvati AL, Madeddu ML, Golisano O, Siviero E, Bondanza S, Ciczuzza S, Orecchia A, Giancotti FG, Zambruno G, De Luca M. (2001). Gene correction of integrin beta4-

dependent pyloric atresia-junctional epidermolysis bullosa keratinocytes establishes a role for beta4 tyrosines 1422 and 1440 in hemidesmosome assembly.  
J Biol Chem 276(44):41336-42 IF<sub>2000</sub> = 7.368

M. V. Schiaffino, **E. Dellambra**, K. Cortese, C. Baschiroto, S. Bondanza, M. Clementi, P. Nucci, A. Ballabio, C. Tacchetti and M. De Luca (2002). Effective retroviral-mediated gene transfer in normal and mutant human melanocytes.  
Hum. Gene Ther. 13(8):947-57. IF<sub>2001</sub> = 5.751

Pellegrini G, **Dellambra E**, Paterna P, Golisano O, Traverso CE, Rama P, Lacial P, De Luca M. (2004). Telomerase activity is sufficient to bypass replicative senescence in human limbal and conjunctival but not corneal keratinocytes.  
Eur J Cell Biol. 83(11-12):691-700. IF<sub>2003</sub> = 2.185

R.Maurelli, G. Zambruno, L. Guerra, C. Abbruzzese, G. Dimri, M. Gellini, S. Bondanza, and **E. Dellambra** (2006). Inactivation of p16ink4a (inhibitor of cyclin-dependent kinase 4a) immortalizes primary human keratinocytes by maintaining cells in the stem cell compartment.  
FASEB J. 20(9):1516-8. Epub Jun 5. IF<sub>2005</sub> = 7.064

P. Parma, O. Radi, V. Vidal, MC Chaboissier, **E. Dellambra**, S. Valentini, L. Guerra, A. Schedl and G. Camerino (2006). R-spondin1 is essential in sex determination, skin differentiation and malignancy.  
Nature Genetics, 38(11):1304-9. Epub Oct 15. IF<sub>2005</sub> = 29.053

S. Bondanza, M. Bellini, G. Roversi, D. Raskovic, R. Maurelli, E. Paionni, P. Paterna, **E. Dellambra**, L. Larizza and L. Guerra (2007). Piebald trait: implication of kit mutation on in vitro melanocyte survival and on the clinical application of cultured epidermal autografts.  
Journal of Investigative Dermatology, 127 (3):676-86. Epub 2006 Nov 23. IF<sub>2006</sub> = 4.535

Larcher F, **Dellambra E**, Rico L, Bondanza S, Murillas R, Cattoglio C, Mavilio F, Jorcano JL, Zambruno G, Del Rio M. (2007). Long-term engraftment of single genetically modified human epidermal holoclones enables safety pre-assessment of cutaneous gene therapy.  
Mol Ther. 15(9):1670-6. Epub Jun 19. IF<sub>2006</sub> = 5.841

Bondanza S, Maurelli R, Paterna P, Migliore E, Di Giacomo F, Primavera G, Paionni E, **Dellambra E**, Guerra L (2007). Keratinocyte cultures from involved skin in vitiligo patients show an impaired in vitro behaviour.  
Pigment Cell Res., 20 (4):288-300. IF<sub>2006</sub> = 3.18

Panacchia L\*, **Dellambra E\***, Bondanza S, Paterna P, Maurelli R, Paionni E, Guerra L. (2010). Nonirradiated human fibroblasts and irradiated 3T3-J2 murine fibroblasts as a feeder layer for keratinocyte growth and differentiation in vitro on a fibrin substrate.  
Cells Tissues Organs 191(1):21-35. Epub Jun 18. IF<sub>2009</sub> = 3.322  
\*authors contributed equally to this work

Cordisco S, Maurelli R, Bondanza S, Stefanini M, Zambruno G, Guerra L, **Dellambra E**.(2010) Bmi-1 Reduction Plays a Key Role in Physiological and Premature Aging of Primary Human Keratinocytes.  
J Invest Dermatol. 130(4):1048-62. Epub 2009 Nov 12. IF<sub>2009</sub> = 5.543

Pastore S, Lulli D, Potapovich AI, Fidanza P, Kostyuk VA, **Dellambra E**, De Luca C, Maurelli R, Korkina LG. (2011) Differential modulation of stress-inflammation responses by plant polyphenols in cultured normal human keratinocytes and immortalized HaCaT cells.  
J Dermatol Sci. 63(2):104-14. Epub May 8. IF<sub>2010</sub> = 3.712

Cianfarani F, Bernardini S, De Luca N, **Dellambra E**, Tatangelo L, Tiveron C, Niessen CM, Zambruno G, Castiglia D, Odorisio T. (2011) Impaired Keratinocyte Proliferative and Clonogenic Potential in Transgenic Mice Overexpressing 14-3-3σ in the Epidermis.  
J Invest Dermatol. 131(9):1821-9. Epub Jun 9. IF<sub>2010</sub> =6.27

Rivetti di Val Cervo P, Lena AM, Nicoloso M, Rossi S, Mancini M, Zhou H, Saintigny G, **Dellambra E**, Odoriso T, Mahé C, Calin GA, Candi E, Melino G. (2012) p63-microRNA feedback in keratinocyte senescence.

Proc Natl Acad Sci U S A.109(4):1133-8. Epub Jan 6. IF<sub>2011</sub> =9.7

Pastore S, Lulli D, Pascarella A, Maurelli R, **Dellambra E**, Potapovich A, Kostyuk V, De Luca C, Korkina L. (2012) Resveratrol Enhances Solar UV-induced Responses in Normal Human Epidermal Keratinocytes.

Photochem Photobiol. 88:6 1522–1530. Epub Jul 4. IF<sub>2011</sub> = 2.413

Lulli D, Potapovich A, Maurelli R, **Dellambra E**, Pressi G, Kostyuk V, Dal Toso R, De Luca C, Pastore S and Korkina L (2012) Anti-Inflammatory Effects of Concentrated Ethanol Extracts of Edelweiss (*Leontopodium alpinum* Cass.) Callus Cultures towards Human Keratinocytes and Endothelial Cells.

Mediators of Inflammation, Volume 2012, Article ID 498373, 12 pages, doi:10.1155/2012/498373 IF<sub>2011</sub> = 3.263

Piccinni E, Di Zenzo G, Maurelli R, **Dellambra E**, Teson M, Has C, Zambruno G, Castiglia D (2013). Induction of senescence pathways in Kindler syndrome primary keratinocytes.

British Journal of Dermatology, 168:5 1019-26. Epub 2012 Dec 19. IF<sub>2012</sub> = 3.666

Pastore S, Lulli D, Maurelli R, **Dellambra E**, De Luca C, Korkina L (2013) Resveratrol Induces Long-Lasting IL-8 Expression and Peculiar EGFR Activation/Distribution in Human Keratinocytes: Mechanisms and Implications for Skin Administration.

Plos One, Volume 8, Issue 3, e59632. IF<sub>2012</sub> = 4.092

Maurelli R, Tinaburri L, Gangi F, Bondanza S, Severi AL, Scarponi C, Albanesi C, Mesiti G, Guerra L, Capogrossi MC, **Dellambra E** (2016). The role of oncogenic Ras in human skin tumorigenesis depends on clonogenic potential of the founding keratinocytes

J Cell Sci. 129:5 1003-17 Epub 2016 Jan 21. IF<sub>2015</sub> = 5.432

Carlomosti F, D'Agostino M, Beji S, Torcinaro A, Rizzi R, Zaccagnini G, Maimone B, Di Stefano V, De Santa F, Cordisco S, Antonini A, Ciarapica R, **Dellambra E**, Martelli F, Avitabile D, Capogrossi MC, Magenta A (2017). Oxidative Stress-Induced miR-200c Disrupts the Regulatory Loop Among SIRT1, FOXO1, and eNOS.

Antioxid Redox Signal. Aug 20;27(6):328-344 Epub 2017 Jan 19. IF<sub>2016</sub> = 7.093

Cordisco S, Magenta A, Briganti S, Teson M, Castiglia D, **Dellambra E**, Guerra L. (2017) Accelerated features of senescence in cultured type 2 diabetic skin fibroblasts.

Eur J Dermatol. 2017 Aug 1;27(4):408-410. doi: 10.1684/ejd.2017.3020 IF<sub>2016</sub> = 2.243

Tinaburri L, D'Errico M, Sileno S, Maurelli R, Degan P, Magenta A and **Dellambra E** (2018) miR-200a Modulates the Expression of the DNA Repair Protein OGG1 Playing a Role in Aging of Primary Human Keratinocytes.

Oxidative medicine and cellular longevity 2018(3):1-17 IF<sub>2017</sub> = 4.936

Cordisco S, Tinaburri L, Teson M, Orioli D, Cardin R, Degan P, Stefanini M, Zambruno G, Guerra L, **Dellambra E**. (2018) Cockayne Syndrome Type a (CSA) Protein Protects Primary Human Keratinocytes from Senescence.

J Invest Dermatol. 2018 Jul 12. doi: 10.1016/j.jid.2018.06.181. IF<sub>2017</sub>=6.448

## REVIEWS

**E. Dellambra**, G. Pellegrini, L. Guerra, G. Ferrari, G. Zambruno, F. Mavilio and M. De Luca (2000). Toward epidermal stem cell-mediated ex-vivo gene therapy of junctional epidermolysis bullosa. Hum. Gene Ther. 11:16, 2283-7 IF<sub>1999</sub> = 6.403

Guerra L, **Dellambra E**, Panacchia L, Paionni E. (2009). Tissue Engineering for Damaged Surface and Lining Epithelia: Stem Cells, Current Clinical Applications, and Available Engineered Tissues. *Tissue Eng Part B Rev.* 15:2, 91-112 Epub Feb 5. IF<sub>2008</sub> = 4.697

Guerra L, **Dellambra E**, Brescia S, Raskovic D. (2010). Vitiligo: pathogenetic hypotheses and targets for current therapies. *Current Drug Metabolism*, 11, 451-467. IF<sub>2009</sub> = 3.989

Korkina LG, Pastore S, **Dellambra E**, De Luca C (2013) New Molecular and Cellular Targets for Chemoprevention and Treatment of Skin Tumours by Plant Polyphenols: A Critical Review. *Current Medicinal Chemistry*, 20:7, 852-68 Epub 2012 Dec 3. ISSN: 0929-8673. IF<sub>2012</sub> = 4.859

Magenta, A.\*, **Dellambra, E.\***, Ciarapica, R., Capogrossi, M.C. (2016) Oxidative stress, microRNAs and cytosolic calcium homeostasis. *Cell Calcium*, 60(3):207-17. Epub 2016 Apr 8. IF<sub>2015</sub> = 3.512  
\*authors contributed equally to this work

**Dellambra E.** (2016) Oncogenic Ras: A double-edged sword for human epidermal stem and transient amplifying cells. *Small GTPases.* 2;7(3):147-55. Epub 2016 Apr 25. IF<sub>2015</sub> = 3.16

D'Arcangelo D, Tinaburri L, **Dellambra E** (2017) The Role of p16INK4a Pathway in Human Epidermal Stem Cell Self-Renewal, Aging and Cancer. *Int J Mol Sci.* 2017 Jul 22;18(7). pii: E1591. doi: 10.3390/ijms18071591 IF<sub>2016</sub> = 3.226

Orioli D, **Dellambra E.** (2018) Epigenetic Regulation of Skin Cells in Natural Aging and Premature Aging Diseases. *Cells.* 2018 Dec 12;7(12). pii: E268. doi: 10.3390/cells7120268. IF<sub>2017</sub> = 5.656

**Dellambra E**, Odorisio T, D'Arcangelo D, Failla CM, Facchiano A (2019) Non-animal models in dermatological research. *ALTEX.* 36(2):177-202. doi: 10.14573/altex.1808022. Epub 2018 Nov 19 IF<sub>2018</sub> = 6.183

Fania L, Mazzanti C, Campione E, Candi E, Abeni D, **Dellambra E.** (2019) Role of Nicotinamide in Genomic Stability and Skin Cancer Chemoprevention. *Int J Mol Sci.* 2019 Nov 26;20(23). pii: E5946. doi: 10.3390/ijms20235946. IF<sub>2018</sub> = 4.183

#### BOOK CHAPTERS

M. De Luca, L. Guerra, **E. Dellambra**, G. Pellegrini (2001). Keratinocyte-mediated cell and gene therapy. In: R.E. Horch, A.M. Munster, B.M. Achauer eds - "Cultured Human Keratinocytes and Tissue Engineered Skin Substitutes", Thieme, Stuttgart, Germany, 1st edition, 72-82. ISBN: 3-13-130161-9

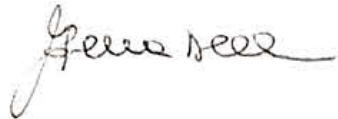
L. Guerra, **E. Dellambra**, and P. Paterna (2007). Safety concerns in transplantation of in vitro cultured cellular grafts. In: S. Gupta, M.J. Olsson, A.J. Kanwar and J-P. Ortonne eds - "Surgical Management of Vitiligo", Blackwell Publishing, Oxford. Print ISBN: 9781405145213 - Online ISBN: 9780470987568

**E. Dellambra** and G.P. Dimri (2008). Cellular Senescence and Skin Aging. In: Nava Dayan ed - "Skin Aging Handbook", Market Perspectives, Pharmacology, Formulation, and Evaluation Techniques, William Andrew Inc., Norwich, NY. ISBN: 978-0-8155-1584-5

*Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e del GDPR (Regolamento UE 2016/679).*

*"Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del D.P.R. 445/2000".*

Roma, 18.01.2020

A handwritten signature in black ink, appearing to read "G. De...".