

BRIEF CURRICULUM VITAE
MARCO TATULLO, MD, DDS, PHD



CURRENT POSITION:

Professor (RTD-B) in “Applied Medical Sciences and Techniques” MED/50 – Dept. of Basic Medical Sciences, Neurosciences and Sense Organs - University of Bari “ALDO MORO”, Italy
Honorary Senior Lecturer in “Dentistry” - Dundee University - UK

RECENT POSITIONS:

2009-2019 C.R.O. – Scientific Director – Marrelli International Group – Healthcare Unit – Crotone, Italy

2010-2019 Head of Research – Tecnologica Research Institute – Stem Cell Unit – Crotone, Italy

2017-2020 Professor of “Regenerative Medicine” – University of Moscow “Sechenov” – First Medical School – Moscow, Russia

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EDUCATION:

2009 - Doctor in Dental Sciences (DDS) 109/110 with thesis published,

2017 - Doctor in Medicine (MD), 110/110 *cum laude* with thesis published,

2013 - Ph.D. in “*Medical Biochemistry, Medical Biology and Physics*” with thesis published, University of Bari, Italy.

HONORS:

2019 - “**Honoris Causa**” **Senior Lecturer** in “Dentistry” - Dundee University - UK

2018 – Awarded with “#farecultura” award for the “Scientific Research” – by International Association “Leonardo da Vinci”, Le Castella, Italy

2017 - IADR (International Association for Dental Research) “**Robert Frank Award**” winner (1st prize) in 2017 – Senior category - Basic Science.

2017 - IADR “**Unilever travel Award**” winner

2017 - “**Riccardo Garberoglio Award**” (1st prize) in 2017 for the clinical research in endodontics – awarded by SIE – Italian Society of Endodontics.

2017 - “**Honorary Award**” for the high scientific merits, awarded by the major of the city of Bari, Italy.

2017 - “**Nicolino d’oro**” award for the “scientific research”, awarded by the City major of Bari and the Italian Catholic Association, Bari, Italy.

2017 - “**Honorary Award**” for the high scientific merits, awarded by the major of the city of Crotone, Italy.

2017 - “**Honorary Membership**” of University of Bari (Italy) Alumni Association, for the high scientific merits, awarded by the Rector of University of Bari, Italy.

2015 - “**Giovanni Carcea**” award as “Best Young Researcher”, awarded by the “Rotary Club International”, 2100 District, Crotone, Italy.

EMPLOYMENTS:

C.R.O. – Scientific Director – Marrelli International Group – Healthcare Unit – Crotone, Italy

Scientific Director of “*Tecnologica Research Institute*”, a research centre mainly focused on regenerative medicine, stem cell research and biomaterials.

Professor in “Regenerative Dentistry” at “Sechenov” University of Moscow, Russia.

Adjunct Professor in “Medical Biochemistry”, Dental School, University of Bari, Italy

Visiting Senior Clinical Lecturer in “Regenerative Medicine”, “BPP University”, Birmingham, UK.

Honorary Associate Professor in “Regenerative Medicine”, “Dundee University”, Dundee, UK.

Visiting Professor in “Dental Sciences” at the “Bithai dental and medical college”, Pakistan.

Visiting Professor and Academic Board member of the international **Master of Business Administration (MBA)** at the “City Unity College” of Athens, Greece.

Vice-President of SAB (Scientific Advisory Board) of “Polypheno”, a University-based Spinoff on biomedical products and biomaterials located at University of Bari, Italy.

Invited international collaborator of “Institut de Biologie Paris-Seine” (IBPS) Paris, France in the research program of “Biological adaptation and ageing”.

Past-Scientific Advisory Board Member of *RegenTec Ltd* and *Locate Therapeutics Ltd.* (spin-off of the University of Nottingham).

Vice-President and Founding Member of the Innovative Start-Up "POLIEDRICA SRL"

Guest Researcher at ENEA - Italian National Agency for New Technologies, Energy and Environment - as experienced research-manager in Tissue Engineering.

Guest Researcher at C.N.R. (National Research Council - Italy)

Guest Professor at BIOMAT Course on “Innovative Technologies in Dentistry, Maxillofacial Surgery and Orthopaedics”, and at F.O.R.M. (Forum On Regenerative Medicine) on “Stem Cells and Regenerative Medicine in Dentistry”, organized by ISS-Italian Institute of Health.

MAIN EDITORIAL ACTIVITIES:

Editor in Chief of “The Open Journal of Stem Cells”

Editor in Chief of the hard-book and e-book entitled “**Mesenchymal Stem Cells and Innovative Biomaterials in Dentistry**”, published by **Springer-Nature**.

Invited - co-Author in the book “**Translational Systems Medicine and Oral Disease**” ELSEVIER publisher

Invited Co-Author of 3 book-chapters on Stem Cells and Regenerative medicine in Dental Sciences - Springer-Nature publisher.

Editor in several renamed international journals (Frontiers In, MDPI, Elsevier, and so on)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

2018- to present IADR(International Association for Dental Research) **President** of “Stem Cell Biology” group.

2018- to present IADR(International Association for Dental Research) **Member** of “Science Information Committee” working in collaboration with FDI and WHO for research issues in dentistry.

2018- to present Member of the **official committee** for “IADR Innovation in Oral Care Awards” within I.A.D.R. and A.A.D.R. (International and American Association for Dental Research).

2017- to present “**ANR- Agencè National de la Recherche**” program - Official Scientific Reviewer

2017- to present “**E.U. COST action**” program - Official Scientific Reviewer

2016- to present “**E.U. M-era.net action**” program - Official Scientific Reviewer

2016- to present “**Austrian Science Fund (FWF)**” program - Official Scientific Reviewer

2016-2018 Chair in **T.E.R.M.I.S.** symposium.

P.I. AND RESEARCH DIRECTOR:

2020-2023 P.I. - Scientific Director of the project - “E.U. M-era.net action” project called ISIDE – aimed to investigate on Biomaterials and MSCs in Prosthetic Devices (Budget 1.2MLN Euro)

2020-2023 P.I. - Scientific Director of the project - “CONTACT” PON-project on Biomaterials in prostheses and Medical devices –2018 (Budget of 4.4 MLN Euro)

2017-2018 Local scientific Responsible of Unit in project “ZEUSI” "HORIZON2020" PON I&C (Prog. n. F/050160/00/) (Budget of 3.2 MLN Euro)

2017-2018 Scientific Consultant at C.N.R. – National Research Council in project “ZEUSI” "HORIZON2020" PON I&C 2014-2020 (Prot. N. 0000138 - 19/01/2018)

2013-2015 Local Scientific Responsible of Unit in project PON-ReC: PON-ReC: “PROMETEO - Progettazione e Sviluppo di piattaforme tecnologiche innovative ed ottimizzazione di PROCessi per applicazioni in MEDicina rigenerativa in ambito oromaxillofaciale, emaTologico, nEurologico e cardiOlogico” . PON-REC 2007/2013 (CCI:2007IT161PO006) Code: PON01_02834/1 (Budget of 4.5 MLN Euro)

2017-2018 Local scientific Responsible of Unit in project PON-ReC: “ICARE - Infrastruttura Calabrese per la medicina Rigenerativa: generazione di biobanche per la criopreservazione di cellule

staminali umane e di tessuto osseo per uso clinico e design e sviluppo di bioscaffold innovativi”. Code: PON03PE_00009_2 (Budget of 3.8 MLN Euro)

2017 Local scientific Responsible of Unit in project “DEMOCEDE - Diagnostica E Medicina personalizzata per la Cura dei pazienti oncologici con Device di diagnostica avanzata”. Funded by Calabria Region in 2017. (Budget of 0.8 MLN Euro)

2019 Local scientific Responsible of Unit in project PON-ReC “RAZIONALE miglioramento delle caratteristiche funzionali e della shelf life degli alimenti derivanti da tecniche innovative di allevamento della bufala”. (Budget of 3.7 MLN Euro)

2014-2016 Principal Investigator (PI) and scientific Responsible in common research projects with Université Pierre et Marie Curie (Paris 6), place Jussieu, 75252 Paris cedex 5, France, Laboratory de Ageing, Stress, Inflammation (Director Prof. Bertrand Friguet) – Prof. Dario Coletti

2013 Principal Investigator (PI) and scientific Responsible in common research projects with Department of Scienze Anatomiche, Istologiche, Medico-Legali e dell'Apparato Locomotore (SAIMLAL) of University of Roma “SAPIENZA” – Prof. Sergio Adamo and Prof. Dario Coletti

2015 Principal Investigator (PI) and scientific Responsible in research projects with Roma “TOR VERGATA” on Regenerative Medicine

2014-2016 Principal Investigator (PI) and scientific Responsible in common research projects with University of Nottingham (UK) – Prof. Kevin Shakesheff

2012-2013 Principal Investigator (PI) and scientific Responsible in clinical research project entitled: “Studio Comparativo Randomizzato, Controllato, In Triplo Cieco, Finalizzato A Valutare L’efficacia Clinica E Gli Effetti Collaterali Di Tre Collutori Contenenti Clorexidina 0.20% Presenti In Commercio” in agreement with CURADEN Healthcare (Saronno) and Calabrodental S.r.l. (Budget of 20.000 Euro)

2012-2015 Principal Investigator (PI) and scientific Responsible in PON-ReC project called: “PROMETEO - Progettazione e Sviluppo di piattaforme tecnologiche innovative ed ottimizzazione di processi per applicazioni in Medicina rigenerativa in ambito oromaxillofaciale, ematologico, neurologico e cardiologico” . PON-REC 2007/2013 (CCI:2007IT161PO006) Code: PON01_02834/1 (Budget of 7MLN Euro)

2012 Collaboration in ERC-European Research Council - CORDIS project: MASC - Project ID: 227845 - Funded under: FP7-IDEAS-ERC (MASC: Materials that Impose Architecture within Stem Cell Populations).

h-index: 31

Citations: >1600

Publications: 98

BIBLIOGRAPHY (most important 5 articles):

1. 2019

Lineage-Specific Commitment of Stem Cells with Organic and Graphene Oxide-Functionalized Nanofibers

Portone A, Moffa M, Gardin C, Ferroni L, **Tatullo M**, Fabbri F, Persano L, Piattelli A, Zavan B, Pisignano D.

Advanced Functional Materials. **2019**; 29(7):adfm.201806694.

IF 13.325

2. 2018 (Last Author)

NANometric BIO-Banked MSC-Derived Exosome (NANOBIOME) as a Novel Approach to Regenerative Medicine

Codispoti B, Marrelli M, Paduano F, **Tatullo M**.

J Clin Med. **2018**; 7(10): 357.

IF 5.583

3. 2016 (First Author)

Antioxidant and Antitumor Activity of a Bioactive Polyphenolic Fraction Isolated from the Brewing Process.

Tatullo M, Simone GM, Tarullo F, Irlandese G, Vito D, Marrelli M, Santacroce L, Cocco T, Ballini A, Scacco S.

Nature - Sci Rep. **2016** Oct 27;6:36042. doi: 10.1038/srep36042.

IF 4.259

4. 2015 (Last Author)

Human Periapical Cyst-Mesenchymal Stem Cells Differentiate Into Neuronal Cells.

Marrelli M, Paduano F, **Tatullo M**.

J Dent Res. **2015** Jun;94(6):843-52. doi: 10.1177/0022034515570316.

IF 4.139

5. 2013 (Last Author)

Cells Isolated from Human Periapical Cysts Express Mesenchymal Stem Cell-like Properties.

Marrelli M, Paduano F, **Tatullo M**.

Int. J. Biol. Sci. **2013**

IF 4.37

SUMMARY OF SPECIFIC SCIENTIFIC CONTRIBUTIONS:

Prof. Marco TATULLO has constantly improved his scientific background, starting from clinical issues to be investigated from the biological and clinical point of view. He has improved the approach to regenerative medicine by combining tissue engineering, GFs and platelets-concentrates, thus reaching in the last 10 years highly-impacting results on stem cell research, particularly focused on oral-derived stem cells.

Prof. TATULLO first described a new MSCs lineage, called hPCy-MSCs (Human Periapical-Cyst Mesenchymal Stem Cells) and differentiated in the main lineages: osteogenic, chondrogenic, adipogenic and neurogenic. hPCy-MSCs has been compared in several studies to the well-known DPSCs (Dental Pulp Stem Cells) and they has demonstrated to be a gold standard for bone repairing.

Prof. TATULLO has a wide scientific production on regenerative dentistry, highlighting the crosstalk among oral-MSCs and biomaterials obtained from ECM (Extra-Cellular Matrix): the main results have been obtained on bone repairing, neoangiogenesis and neuroregeneration. In the last years, prof. TATULLO investigated on the dopaminergic neuromelanin-producing cells located in the substantia nigra, the main target on Parkinson disease, have been functionally and morphologically obtained from discharged inflammatory cystic tissues: this research leaded prof. TATULLO to achieve the 1st prize in "Robert Frank Award" Basic Research, Senior category; moreover, he was selected to represent CED-IADR in "Hatton award" competition during the recent general meeting in London on July 2018.

Prof. TATULLO has been/is P.I. in several EU-funded projects, getting more than 15MLN euro for research projects in the last 10 years.

Prof. TATULLO has been nominated "honoris causa" Professor at Dundee University, UK.

Bari, 1 april 2020

Prof. Marco TATULLO

