

Isabella Saggio

Curriculum Vitae

Part I – General information

Name	Isabella Saggio
Place of birth	Naples
Citizenship	Italian
E-mail	Isabella.saggio@uniroma1.it
Spoken languages	Italian, English, French, German

Part II - Education

1993	PhD Genetics and Molecular Biology Sapienza University
1988	Laurea full marks <i>cum laude</i> Genetics Sapienza University

Part III – Academic profile and appointments

IIIA – Academic profile

2023 – to date	Full Professor of Genetics Genetics BIO/18 Sapienza University
2017	National scientific qualification Full Professor of Genetics 05/11-BIO/18 (passed 3/3)
2017 – to date	Visiting Professor College of Science Nanyang Technological University of Singapore
2005 – to date	Associate Professor of Genetics BIO/18 Sapienza University
1996 – 2004	Assistant Professor of Genetics BIO/18 Sapienza University

IIIB – Academic appointments

2023	SAPIExcellence evaluation committee, Sapienza University
2023 – to date	Selected Senior Fellow Superior School of Advanced Studies Sapienza University
2023 – to date	Nominated Coordinator of the Doctoral School in Genetics and Molecular Biology Sapienza University
2022	SAPIExcellence evaluation committee, Sapienza University
2021 – to date	Selected member Sc MMFFNN Faculty outreaching committee Sapienza University
2021 – to date	Selected member Center for preclinical research and animal welfare Sapienza University
2019 – to date	Selected member Strategic board Dept. Biology and Biotechnology Sapienza University
2019 – to date	Third mission delegate Dept. Biology and Biotechnology Sapienza University
2019 – to date	Vice president, delegate for internationalization Degree of Genetics and Molecular Biology Sapienza University
2017– 2022	Founder and co-director of Stem cell and genome editing <i>in memoriam</i> of Paolo Bianco Master degree Sapienza University
2016 – 2022	Selected Junior Fellow Superior School of Advanced Studies Sapienza University
2016 – to date	Promoter and coordinator Sapienza University/Nanyang Technological University of Singapore agreements (for teacher mobility, student mobility and framework agreement)
2015 – 2016	Selected member Sapienza committee for evaluation of scientific projects
2011 – to date	Promoter and coordinator Double Degree Sapienza University with Master en Génétique Université de Paris
2008 – to date	Board member PhD school in Genetics and Molecular Biology Sapienza University
2005 – to date	Founder and Director Master degree of Science Journalism Sapienza University
2005 – to date	Erasmus project coordinator Sapienza University/Université de Paris, >100 outgoing and incoming students

IIIC – Research appointments

2020 – to date	Associate scientist CNR Institute of molecular biology and pathology
2015 – 2017	Visiting scientist Nanyang Technological University of Singapore
2010 Jan	Visiting scientist as CNR fellow Pasteur Institute Paris France
2008 Sept	Visiting scientist as CNR fellow Salk Institute La Jolla CA USA
2004 Jan Feb	Visiting scientist as CNR fellow Lyon Laennec University France
2003 – 2018	Associate scientist CNR Institute of molecular biology and pathology
2003 – 2010	Associate scientist and group leader San Raffaele Science Park Rome

1995 – 1996	EU postdoctoral fellow Gustave Roussy Institute Paris France
1991 – 1994	PhD fellow IRBM MSD Research Institute Rome Italy
1989 – 1990	Researcher (in 1990 with permanent position group B) National Institute of Health Rome Italy

Part IV – Funding information

IVA – Grants as PI -principal Investigator or I-investigator

2022-2026	National spoke coordinator and Sapienza spoke coordinator PNRR <i>Campione Nazionale CN5-National Biodiversity Future Center</i> PI	4100000€
2022-2024	Italian Ministry of Health, Fighting doping <i>No doping</i> . PI	85000€
2023- 2024	Ministry of Health Singapore, National Innovation Challenge (NIC) on Active and Confident Ageing Nanoscale, <i>Nuclear Patterning to Detect Nuclear Envelope Remodeling During Skin Cell Aging I</i>	69600SG\$
2022-2023	Pasteur Cenci Bolognetti 2020 <i>Nuclear Envelope and Cancer</i> PI	40000€
2021 – 2026	AIRC IG <i>Nuclear Envelope and telomere stability in lymphomagenesis</i> PI	432000€
2017 – 2020	Progeria Research Foundation USA <i>Progerias</i> PI	150000\$
2016	Telethon EG project <i>AKTIP and progerias</i> PI	45404€
2015 – 2018	AIRC IG <i>Telomeric genes I</i>	446000€
2013 – 2016	EU FP7 Marie Curie Industry-Academia IAPP <i>Brainvectors - Gene therapy</i> PI	38776€
2007 – 2012	EU FP7 <i>BrainCAV -Gene therapy</i> PI and work-package leader	227376€
2006 – 2018	Sponsoring MSD, Pfizer, Abbott, Novartis, Roche to <i>Science communication initiatives</i> PI	avg5000€/year
2006 – 2007	MIUR PRIN <i>Modeling and correcting organogenetic and pathogenetic skeletal processes using stem cells I</i>	25000€
2004 – 2009	Telethon IG <i>Stem cell disease fibrous dysplasia I</i>	320000€
2004	MIUR 6-2000 <i>Science communication</i> PI	20000€
2004 – 2021	MIUR Sapienza internal annual funding PI	avg 4000€/year
2002	MIUR 6-2000 <i>Openlab</i> PI	20milioni lire
2001 – 2002	Inter-University Biotechnology Consortium <i>Phage vectors for gene transfer</i> PI	200milioni lire
2000 – 2001	Pasteur Cenci Bolognetti <i>Phage technology for the study of Adenovirus-receptor interaction</i> PI	20milioni lire
2000 – 2001	SIGMA TAU <i>Adenoviral vectors for gene therapy</i> PI	400milioni lire
2000	CNR <i>Structure-function analysis of Adenovirus penton base</i> PI	30milioni lire

IVB – Grants to I. Saggio lab members (selection)

2023 - 2026	PNRR funded 2xRTDA positions SSD Genetics BIO/18	300000€
2021	Be for ERC <i>When Borders Lose integrity: study of the impact of Nuclear Envelope and telomere fragility in lymphomagenesis (BLiNET)</i>	50000€
2019	Buzzati Traverso Foundation 2019 <i>Nuclear envelope organization and genome instability in cancer diffusion</i>	20000€
2019	Veronesi Foundation 2019 <i>Nuclear envelope organization and genome instability in cancer diffusion</i>	15000€
2019	FIRC <i>Nuclear envelope organization and genome instability in cancer diffusion</i>	25000€
2012	Pasteur Cenci Bolognetti <i>Telomeric genes</i>	18600€
2012	Inter-University Biotechnology Consortium <i>Comparative investigation of the toxicogenomic signature of adenovirus vectors</i>	10000€
2010	Sapienza AST <i>Gene therapy of neurodegenerative disorders</i>	19000€

IVC - Revision of projects (selection)

2023	Poland National Science center
2020	USA-Israel Binational Science Foundation
2019	Dutch Research council
2019	Medical Research Council UK

2019 – to date	Transnational research projects to accelerate diagnosis and/or explore disease progression and mechanisms of rare diseases
2017	Leonardo da Vinci EU programme
2015 – 2016	Italian Ministry of University and Research MIUR
2014	INSERM-CNRS ATIP Avenir, France
2008 – to date	Association Nationale Recherche (ANR) France
2008	Université de Montpellier
2007 – 2009	Unity Through Knowledge Fund

Part V – Society memberships

2019 – 2023	Elected counselor in the board of the Italian Association of Genetics (AGI)
2000 – 2014	Member European Association of Gene and Cell Therapy (ESGCT), American Society of Gene Therapy (ASGT), American Society of Bone and Mineral Research (ASBMR)
2000 – to date	Member Italian Association of Genetics (AGI), Italian Federation of Life Sciences (FISV)

Part VI - Teaching experience

VIA - National teaching – degree BIO/18

2021 – to date	Communication processes in science and medicine Sapienza University (9CFU BIO/18)
2013 – to date	Gene therapy and Neuroscience Sapienza University (6CFU BIO/18)
2001 – to date	Gene Therapy Sapienza University (in English since 2017) (6CFU BIO/18)
2001 – 2013	Genetics Sapienza University (5 to 9CFU BIO/18)
2001 – 2005	Genetics University of Urbino (5 to 9CFU BIO/18)

VIB - National teaching – upskilling BIO/18

2023	Director and teacher of Nature and politics Advanced training course Sapienza University (2 CFUtot; 1CFU BIO/18)
2023	Director and teacher of Science writers' week – science and literature. Advanced training course Sapienza University (1CFU BIO/18)
2022	Director and teacher of Rare Diseases: Genetics, biomedicine and political challenges, International Winter School Sapienza University (5CFUtot; 1CFU BIO/18)
2022	Director and teacher of Science, Knowledge, Democracy and decisional processes Advanced training course Sapienza University (2CFUtot; 1CFU BIO/18)
2022	Director and teacher of OneHealth and Biodiversity - Governance and Geopolitical challenges Advanced training course (2CFUtot; 1CFU BIO/18) Sapienza University
2021 – to date	Communication processes in science and medicine Sapienza University (9CFU BIO/18)
2021	Director and teacher of Communication in science Advanced training course, Sapienza University (1CFU BIO/18)
2021	Director and teacher of Science and Democracy Advanced training course (3CFUtot; 2CFU BIO/18)
2021	Director and teacher of Stem Cell and Molecular Medicine, International Winter School Sapienza University (5CFUtot; 1CFU BIO/18)
2021	Director and teacher of Creating a journal, Advanced training course Sapienza University (3CFUtot; 2CFU BIO/18)
2021	Director and teacher of Public speaking Advanced training course Sapienza University (BIO/18 1CFU)
2020	Director and teacher of Molecular Medicine International Winter School Sapienza University (5CFUtot; 1CFU BIO/18)
2018 – to date	Promoter Public speaking course BeMM School Biology and Molecular medicine Sapienza University (2CFU)
2019	Director and teacher of Molecular Medicine International Winter School Sapienza University (5CFUtot; 2 CFU BIO/18)
2018 – to date	Genetic medicine Superior School of Advanced studies Sapienza University (3CFU BIO/18)
2017 – 2018	Models in biology Superior School of Advanced studies Sapienza University (3CFU)
2017 – 2021	The biology of stem cells and their applications Sapienza University (3CFU BIO/18)

2017– 2022 Founder, co-director and teacher of Stem cell and genome editing *in memoriam* of Paolo Bianco Master degree (in English) Sapienza University (60CFUtot; 10CFU BIO/18)

VIC- International teaching

2021 Lecture 3D structured illumination microscopy for studies on nuclear integrity and cancer invasion CIVIS - Project for a European Civic University

2017 – to date Mentoring and seminar activity as visiting professor Nanyang Technological University of Singapore College of Science

2011 – to date Gene Therapy Université de Paris France (1CFU BIO/18 per year)

2011 – to date Stage and thesis tutoring of >20 foreign students

2011 – to date Member of thesis committees at Master Génétique Université de Paris France

VID- Mentoring

2001 – to date Thesis tutoring > 30 graduate students, >15 PhD students and >100 Master students

2001 – to date Young researcher mentoring (selection - name and current position) Y Martina Vice president Grünenthal Group London UK, G Cherubini Permanent position Achilles Therapeutics London UK, R Burla CNR permanent position Rome Italy, E Di Matteo permanent position Nuscom Rome Italy, S Del Giudice fellow CNR Naples Italy, L Astrologo Research associate University of Bern Switzerland, P Caruso Research associate University of Cambridge UK. Romina Burla, CNR scientist permanent position. Mattia La Torre, Sapienza researcher type A.

Part VII – Third mission

VIIA – Science communication, outreach and public engagement

In parallel to her scientific work, I. Saggio dedicates energy to promote the idea of keeping science an open field for the society at large. Among different initiatives, it is to note that she founded, and directs since 2006, a Master degree of Science Journalism (www.mastersgp.it), which brings together science stakeholders including scientists, journalists, patients, and students. In 2022, in agreement with the Rector of Sapienza Antonella Polimeni, I. Saggio registered as journalist, designed and, since then, directs the Magazine for scientific culture of Sapienza University.

2023 Saggio I, Esperto scientifico, intervista per Progetto Scienza, RAI TV

2023 Invited seminar PCTO Sapienza Fare Scienza “Aging and Immortality”

2022 – to date Founder and director Sapienza STAR Magazine ISSN 2785-5058

2022 Invited speaker Economics Festival Trento (Italy)

2022 Invited speaker at Association for Cultural Renaissance “Aging and immortality”, Italy

2022 Member of the scientific committee in charge of the organization of SapienzAmbiente event

2022 Invited speaker Science Festival Genova (Italy): “Forever young”

2022 Saggio I, Le parole per dirlo, RAI TV

2022 Saggio I, A cena coi telomeri RaiRadio3 Scienza; Saggio I

2021 – to date Registered journalist at the national association

2021 Saggio I. Genetics in the history of science RAI TV

2016 – to date Organizer of >30 meetings for >800 journalists, recognized as educational CFPs by the National association of journalism (ODG)

2015 – to date Founder and Director online journal Stoccolmaaroma (40,000 visitors/year)

2006 – to date Promoter and coordinator of student training agreements between Sapienza Job soul and (selection) CNR, RAI, IFO, INFN, Telethon, APRE, IGMM CNRS (Montpellier), Institut Pasteur (Paris), IFOM Cogentech (Milan), IEO (Milan), NIH (Bethesda, US)

VIIIB – Articles in the press (selection)

2022-to date Sapienza STARMagazine ISSN 2785-5058:
Saggio I. Editoriale Pop STARS (2023); #7; Saggio I. la scienza non veste Prada #allebasi (2023); #7; Saggio I. sui gener* starPinioni (2023); #7; Saggio I. Editoriale Pop STARS (2022); #6; Saggio I. Editoriale Pop STARS (2022); #4-5; Saggio I. no beach no party? starPinioni (2022); #4-5; Saggio I. Editoriale Pop STARS (2022); #3; Saggio I. Editoriale Pop STARS (2022); #2; Saggio I. Editoriale Pop STARS (2021); #1

2012 – to date La Stampa:
Saggio I. Ce l'ho nel Dna (2012)

2012 - to date Longitude Italian Monthly on World Affairs:
Saggio I. Intimations of immortality (2016); #63; Saggio I. Ebola: What is to be done? (2014); #43; Saggio I. Keeping resistance at bay. (2013); #27; Saggio I. Deadly friends. (2012) #06

VIIC – Transfer of technology, patents

Saggio I, Di Giovine M, Salone B, Martina Y. Chimeric vectors and their use for gene transfer. Granted Italian and international patent (2002; WO 02/24934)

Laufer R, Saggio I, Gloaguen I, Di Marco A, Demartis A. Variants of human ciliary neurotrophic factor (hCNTF) with improved receptor-selectivity, and methodology for their selection. Granted Italian and international patent. (1998; WO 98/41625)

Ciliberto G, Saggio I, Savino R, Perricaudet M. Adenoviral vectors for mutants of human interleukin 6 (hIL-6) with hIL-6 antagonist activity over hIL-6. Pharmaceutical compositions there with and their uses. Granted Italian and international patent. (1998; WO 98/13383)

Laufer R, Saggio I. Variants of human ciliary neurotrophic factor (hCNTF) with improved receptor binding affinity. Granted Italian patent. (1994; n. 012878094)

Laufer R, Saggio I. Method for production of Filamentous phages displaying on the surface of the capsids peptides capable of binding biotin, and Filamentous phages and peptides thus obtained. Granted Italian patent. (1993; n. 1261693)

PART VIII – Scientific activities

VIIIA – Research activity

Gene and stem cell therapy

I. Saggio has been involved in the study of stem cells and contributed to unravel the characterization of stem cell progenitors as organizers of the hematopoietic microenvironment (Sacchetti et al Cell 2007; Sacchetti et al Stem cell reports 2016). I. Saggio laboratory has experience in vectors for gene and cell therapies, including lentiviral, adenoviral and humanized phages (patented WO 02/24934). I. Saggio developed growth factor antagonists and expressed them with adenoviral vectors as proof of principle studies of disease customized gene therapy (Saggio et al Gene therapy 1997; Di Marco et al PNAS 1996; and patent on viral vectors WO 98/13383).

Telomeres and nuclear mechanogenetics

I. Saggio identified the first human telomere-associated gene linked with the nuclear envelope. Telomere dysfunction causes genome instability and is a driver of cancer and premature aging (Burla et al Plos Genetics 2015; Cenci et al Plos Genetics 2015; Burla et al Open Biology 2016; La Torre et al Aging Cell 2018, Chen et al. Cell Reports 2019). Building on the link between telomeres and the nuclear envelope, I. Saggio developed new research focusing on the implication of nuclear integrity in aging and cancer. The model systems used by I. Saggio are primarily mammalian cells and mice. In addition, comparative studies were performed in *D. melanogaster*. Research by I. Saggio and the work of her group have been recognized internationally and she has been funded, as PI, based on open competition and peer reviewing, by national and international agencies, including Telethon, the Progeria Research Foundation USA and AIRC. In a trans-kingdom perspective, our most recent program focuses on a comparative study in plants and mammals to identify common and possibly transplantable telomere-associated genes controlling aging and life-span.

VIIIB – Papers (IF publication year)

1. La Torre M; Centofante E; Nicoletti C; Burla R; Giampietro A; Cannistrà F; Schirone L; Valenti V; Sciarretta S; Musarò A; Saggio I (2023). Impact of diffused vs vasculature targeted DNA damage on the heart of mice depleted of telomeric factor Ft1. Aging Cell 22(12):e14022. IF 11.05
2. La Torre M; Merigliano C; Maccaroni K; Chojnowski A; Goh WI; Giubettini M; Verni F; Capanni C; Rhodes D; Wright G; Burke B; Soddu S; Burla R; Saggio I (2022). Combined alteration of lamin and nuclear morphology influences the localization of the tumor-associated factor AKTIP. Journal of Experimental & Clinical Cancer Research 41, 273. IF 11.3

3. Zeng Y, Zhuang Y, Vinod B, Guo X, Mitra A, Chen P, Saggio I, Shivashankar GV, Gao W, and Zhao W (2022). Guiding Irregular Nuclear Morphology on Nanopillar Arrays for Malignancy Differentiation in Tumor Cells. *Nanoletters*, <https://doi.org/10.1021/acs.nanolett.2c01849>. IF 10.8
4. Maccaroni K, La Torre M, Burla R and Saggio I (2022). Phase Separation in the Nucleus and at the Nuclear Periphery during Post-Mitotic Nuclear Envelope Reformation. *Cells*, 11, 1749. IF 6.0
5. Palmisano B, Labella R, Donsante S, Remoli C, Spica E, Coletta I, Farinacci G, Dello Spedale Venti M, Saggio I, Serafini M, Robey P, Corsi A, Riminucci M. (2022) Gs α R201C and estrogen reveal different subsets of bone marrow adiponectin expressing osteogenic cells. *Bone Research* 10, 50. IF: 12.7
6. Merigliano C, Burla R, La Torre M, Del Giudice S, Teo Hsiang L, Chong Wai L, Chojnowski A, Goh WI, Olmos Y, Maccaroni K, Giubettini M, Chiolo I, Carlton J, Raimondo D, Verni F, Stewart CL, Rhodes D, Wright G, Burke B and Saggio I (2021) Human AKTIP interacts with ESCRT proteins and functions at the midbody in cytokinesis. *Plos Genetics*. 17(8):e1009757. IF: 5.917
7. Burla R, La Torre M, Maccaroni K, Verni F, Giunta S and Saggio I (2020). Interplay of the nuclear envelope with chromatin in physiology and pathology. *Nucleus*. Dec11(1):205-218. IF:4.197
8. Chen L, Roakel CM, Galati A, Bavasso F, Saggio I, Schoeftner S, Cacchione S, Gatti M, Artandi SE, Raffa GD (2020) Loss of human TGS1 hypermethylase promotes increased telomerase RNA and telomere elongation. *Cell Reports*. 30(5):1358-1372. IF: 9.4
9. Raimondo D, Remoli C, Astrologo L, Burla R, La Torre M, Verni F, Tagliafico E, Corsi A, Del Giudice S, Persichetti A, Giannicola G, Robey PG, Riminucci R and Saggio I (2020) Changes in gene expression in human skeletal stem cells transduced with constitutively active Gs α correlates with hallmark histopathological changes seen in fibrous dysplastic bone. *Plos One*. 15(1):e0227279. IF:2.74
10. Sechi S, Frappaolo A, Karimpour-Ghahnavieh A, Gottardo M, Burla R, Di Francesco L, Szafer-Glusman E, Schininà E, Fuller M T, Saggio I, Riparbelli M G, Callaini G, and Giansanti M G (2019) Drosophila Doublefault protein coordinates multiple events during male meiosis by controlling mRNA translation. *Development*. 146(22). IF: 5.611
11. Mascolo E, Barile A, Stufiera Mecarelli L, Amoroso N, Merigliano C, Massimi A, Saggio I Hansen T, Tramonti A, Di Salvo ML, Barbetti F, Contestabile R and Verni F (2019) The expression of four pyridoxal kinase (PDXK) human variants in Drosophila impacts on genome integrity. *Scientific Reports*. 9(1):14188. IF: 3.998
12. Mascolo E, Amoroso N, Saggio I, Merigliano C, Verni F (2019) Pyridoxine/pyridoxamine 5'-phosphate oxidase (Sgll/PNPO) is important for DNA integrity and glucose homeostasis maintenance in Drosophila. *J. Cell. Physiology*. 235(1):504-512. IF: 5.546
13. Merigliano C, Mascolo E, Cesta A, Saggio I, Verni F (2019) A new role for Drosophila Aurora-A in maintaining chromosome integrity. *Chromosoma*, 128(1):41-52. IF: 3.442
14. del Rio D, Beucher B, Lavigne M, Wehbi A, Saggio I & Kremer EJ (2019) CAV-2 Vector Development and Gene Transfer in the Central and Peripheral Nervous Systems. *Frontiers in molecular neuroscience*, 12:71. IF: 4.057
15. Saggio I (2019) Perils and Promises of Therapeutic Approaches for the Stem Cell Disease Fibrous Dysplasia. *Stem cells translational medicine* 8(2):110-111. IF: 6.429
16. Burla R, La Torre M, Zanetti G, Bastianelli A, Merigliano C, Del Giudice S, Vercelli A, Di Cunto F, Boido M, Verni F and Saggio I (2018) p53-sensitive epileptic behavior and inflammation in Ft1 hypomorphic mice. *Frontiers in Genetics* 9:581. IF: 3.517
17. Merigliano C, Mascolo E, Burla R, Saggio I and Verni F (2018) The relationship between Vitamin B6, diabetes and cancer. *Frontiers in Genetics* 9(SEP):388. IF: 3.517
18. Merigliano C, Mascolo E, La Torre M, Saggio I and Verni F (2018) Protective role of vitamin B6 (PLP) against DNA damage in Drosophila models of type 2 diabetes. *Scientific Reports* 8(1):11432. IF: 4.011

19. Burla R, La Torre M, Merigliano C, Verni F and Saggio I (2018). Genomic instability and DNA replication defects in progeroid syndromes. *Nucleus* 9(1):368-379. IF: 2.157
20. La Torre M, Burla R, Merigliano C et al. (2018). Mice with reduced expression of the telomere-associated protein Ft1 develop p53-sensitive progeroid traits. *Aging cell* 17(4):e12730. IF: 7.346
21. Mestre-Francés N, Serratrice N, Gennetier A, Devau G, Cobo S, Trouche S, Fontes P, Zussy C, De Deurwaerdere P, Salinas S, Mennechet FKJD, Dusonchet J, Schneider B, Saggio I, Kalatzis V, Luquin-Piudo MRJ, Verdier M, and Kremer EJ (2018) Exogenous LRRK2G2019S induces parkinsonian-like pathology in a nonhuman primate. *JCI Insight* 3(14):98202. IF: 6.014
22. Burla R, La Torre M, Saggio I (2016) Mammalian telomeres and their partnership with lamins. *Nucleus* 7(2):187-202. IF: 2.387
23. Burla R, Carcuro MT, La Torre M, Fratini F, Crescenzi M, D'Apice MR, Spitalieri P, Raffa GD, Astrologo L, Lattanzi G, Cundari E, Raimondo D, Biroccio AM, Gatti M, Saggio I (2016) The telomeric protein AKTIP interacts with A- and B-type lamins and is involved in regulation of cellular senescence. *Open Biology* 6(8):160103. IF: 3.481
24. Sacchetti B, Funari A, Remoli C, Giannicola G, Robey PG, Kogler G, Liedtke S, Cossu G, Serafini M, Sampaolesi M, Tagliafico E, Tenedini E, Saggio I, Riminucci M, Bianco P. (2016) No identical "mesenchymal stem cells" at different times and sites: Human committed progenitors of distinct origin and differentiation potential are incorporated as adventitial cells in microvessels. *Stem cell reports* 6(6):897-913. IF: 7.338
25. Simão D, Pinto C, Fernandes P, Peddie CJ, Piersanti S, Collinson LM, Salinas S, Saggio I, Schiavo G, Kremer EJ, Brito C, Alves PM. (2016) Evaluation of helper-dependent canine adenovirus vectors in a 3D human CNS model. *Gene therapy* 23(1):86–94. IF: 3.11
26. Cenci G, Ciapponi L, Marzullo M, Raffa GD, Morciano P, Raimondo D, Burla R, Saggio I and Gatti M (2015) The analysis of pendolino (peo) mutants reveals differences in the fusigenic potential among *Drosophila* telomeres. *Plos Genetics* 11(6):e1005260. IF: 6.661
27. Burla R, Carcuro M, Raffa GD, Galati A, Raimondo D, Rizzo A, la Torre M, Micheli M, Ciapponi L, Cenci G, Cundari E, Musio A, Biroccio A, Cacchione S, Gatti M and Saggio I (2015) AKTIP/Ft1, a new shelterin-interacting factor required for telomere maintenance. *Plos Genetics* 11(6):e1005167. IF: 6.661
28. Piersanti S, Burla R, Licursi V, Brito C, la Torre, M, Alves P, Simao D, Mottini C, Salinas S, Negri R, Tagliafico E, Kremer EJ and Saggio I (2015) Transcriptional response of human neurospheres to helper-dependent CAV-2 vectors: activation of DNA damage response, modulation of microtubule motors and centromeric proteins. *Plos One* 10(7):e0133607. IF: 3.057
29. Remoli C, Michienzi S, Sacchetti B, Di Consiglio A, Cersosimo S, Spica S, Robey PG, Holmbeck K, Cumano A, Boyde A, Davis G, Saggio I, Riminucci M, and Bianco P (2015) Osteoblast-specific expression of the fibrous dysplasia (FD)-causing mutation Gsα(R201C) produces a high bone mass phenotype but does not reproduce FD in the mouse. *Journal of Bone and Mineral Research* 30(6):1030-1043.
30. Simão D, Pinto C, Piersanti S, Weston A, Peddie CJ, Bastos AEP, Licursi V, Schwarz SC, Collinson LM, Salinas S, Serra M, Teixeira AP, Saggio I, Lima PA, Kremer EJ, Schiavo G, Brito C, Alves PM (2015) Modeling human neural functionality in vitro: 3D culture for dopaminergic differentiation. *Tissue Engineering-Part A* 21(3-4):654-668. IF: 3.892
31. Saggio I, Remoli C, Spica E, Cersosimo S, Sacchetti B, Robey PJ, Holmbeck K, Cumano A, Boyde A, Bianco P, Riminucci M (2014) Constitutive Expression of GsαR201C in Mice Produces a Heritable, Direct Replica of Human Fibrous Dysplasia Bone Pathology and Demonstrates Its Natural History. *Journal of Bone and Mineral Research* 29(11S1):2357-2368. IF: 6.832
32. Piersanti S, Tagliafico E, Saggio I (2014) DNA microarray to analyze Adenovirus-host interactions. *Methods in Molecular Biology Humana Press* 1089:89-104. IF: n/a

33. Cossetti C, Lugini L, Astrologo L, Saggio I, Fais S and Spadafora C (2014) Soma-to-germline transmission of RNA in mice xenografted with human tumour cells: possible transport by exosomes. *Plos One* 9(7):e101629. IF: 3.234
34. Piersanti S, Astrologo L, Licursi V, Costa R, Roncaglia E, Gennetier A, Ibanes S, Chillon M, Negri R, Tagliafico, Kremer EJ, Saggio I (2013) Differentiated neuroprogenitor cells incubated with human or canine adenovirus, or lentiviral vectors have distinct transcriptome profiles. *Plos One* 8(7):e69808. IF: 3.534
35. Soldati C, Cacci E, Biagioni S, Carucci N, Lupo G, Perrone-Capano C, Saggio I, Augusti-Tocco G (2012) Restriction of neural precursor ability to respond to Nurr1 by early regional specification. *Plos One* 7(12):e51798. IF: 3.73
36. Khalaj-Kondori M, Sadeghizadeh M, Behmanesh M, Saggio I, Monaci P (2011) Chemical coupling as a potent strategy for preparation of targeted bacteriophage-derived gene nanocarriers into eukaryotic cells. *Journal of Gene Medicine* 13(11):622-631. IF: 2.483
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61. Saggio I, Laufer R (1993) Biotin binders selected from a random peptide library expressed on phage. *Biochemical Journal* 293(3):613-616. IF: 3.579
62. Saggio I, Laufer R (1993) Detection of biotinylated molecules in solid-phase assays using a recombinant biotin-binding bacteriophage. *Analytical Biochemistry* 214(1):352-355. IF: 2.313

VIIIC - Books and book chapters

- Saggio I. *L'eta' se esiste (Aging. If it exists)*. (2022) Editor Il Mulino ISBN 9788815259637
- Saggio I. In *Genetica, Terapia genica* (2014) Casa Editrice Ambrosiana Rozzano (Mi) 550-559
- Saggio I. *Terapia genica. I virus usati per curare* (2008) Enciclopedia medica 52-58.
- Saggio I. *Targeting bacteriophage vectors*. (2002) In *Vector targeting for therapeutic gene delivery*. Edited by Curiel DT and Douglas JT Published by Wiley, New York. 20: 429-456.

VIIID - Board of editors/ reviewer in scientific journals

- 2020 – to date Cells, editor
- 2018 – to date PLOS One, editor

2018 – to date	Nucleus, reviewer
2018	Stem cell translational medicine, reviewer
2017	Molecular therapy, reviewer
2016 – to date	BMC Medical Genomics, reviewer
2014 – to date	Stem Cell Research, reviewer
2009	Experimental Cell Research, reviewer

VIII – Speaker at conferences and invited seminars (selection)

2023	Invited talk National NBFC meeting, Rome It
2023	Invited talk National AIOL meeting University Federico II Naples It
2022	Invited talk Sapienza BBCD site visit, Rome It
2019	Talk Science communication TIGEM Naples It
2019	Talk Laminopathy meeting London UK
2019	Seminar Mechanobiology Institute NUS Singapore
2019	Seminar Nanyang Technological University College of Science Singapore
2018	Talk Progeria research Foundation Boston USA
2018	Talk Italian laminopathy meeting Bologna It
2018	Talk Telomere Embo meeting Singapore
2018	Seminar Nanyang Technological University College of Science Singapore
2017	Talk Telomere CSH Cold Spring Harbor NY USA
2017	Talk FISV Rome It
2017	Talk Italian laminopathy meeting Bologna It
2017	Talk p53 international meeting Singapore
2016	Talk Nuclear organization and function CSH Cold Spring Harbor NY USA
2016	Talk Telethon Skelethon convention Rome It

Part IX – Bibliometrics

Total scientific articles	62 (Scopus)
Total citations	3761 (Scopus)
Total H index	26 (Scopus)

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONE E DELL'ATTO DI NOTORIETA' AI SENSI DEGLI ARTT. 46 E 47 DEL D.P.R. 28 DICEMBRE 2000, N. 445.

La sottoscritta Isabella Saggio
consapevole delle sanzioni penali nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi,
richiamate dall'art. 76 del D.P.R. 28 dicembre 2000 n. 445,

DICHIARA:

di essere in possesso di tutti i titoli e delle pubblicazioni riportate nel presente curriculum vitae che ogni
contenuto relativo a titoli, pubblicazioni e attività svolte nel presente curriculum vitae è conforme al vero.

Firma dichiarante

Isabella Saggio