

Curriculum Vitae Giovanni Cenci

Rome 28 September 2021

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<https://scholar.google.co.uk/citations?user=7B7vx3kAAAAJ&hl=en&oi=ao>

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ORCID iD QR Code

Part I. General Information

Full Name Giovanni Cenci
Date of Birth 10 February 1968
Place of Birth Napoli (NA), Italy
Citizenship Italian
e-mail giovanni.cenci@uniroma1.it
Spoken Languages Italian, English, French
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Part II. Education

Type	Year	Institution	Notes (Degrees, Experience...)
University Degree	1990	University "La Sapienza", Rome (Italy)	Summa cum laude, Field: Genetics
PhD	1997	University of Bari, (BA), Italy	Genetics and Molecular Evolution
Specialty	1997	University "La Sapienza", Rome (Italy)	Specialization in Applied Genetics

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
1993	1995	Cornell University- Ithaca (NY)	Visiting Fellow
1998	1999	University "La Sapienza", Rome (Italy)	Post Doctoral Fellowship -Cenci-Bolognetti Foundation (Rome)
1999	2000	University "Roma Tre", Rome (Italy)	Post Doctoral Fellowship (Assegno di Ricerca)
2000	2007	University of Salento, Lecce (Italy)	University Researcher/Assistant Professor of Genetics
2007	2007	Cornell University- Ithaca (NY)	Visiting Faculty- EMBO Short Term Fellowship (4 months)
2007	2012	University of L'Aquila, L'Aquila (Italy)	University Researcher/Assistant Professor of Genetics
2011	2016	Temple University, Philadelphia (PA)	Adjunct Associate Professor
Dec 2012	to date	SAPIENZA University of Rome, (RM) Italy	Associate Professor of Genetics
Dec 2014		ASN, National Scientific Habilitation	Full Professor of Genetics (Qualification)

Giovanni Cenci has met all required conditions (according to the ASN rules) of eligibility as a Member of National Commission for the ASN Evaluation in Genetics (Section 05/11) (see attached documents)

IIIB -Scientific Appointments

<i>Start</i>	<i>End</i>	<i>Institution</i>	<i>Position</i>
2016	2019	FERMI Institute for Multidisciplinary Studies (Italy)	Associate Scientist
2013	to date	Fondazione Cenci-Bolognetti-Pasteur Institute (Italy)	Associate Scientist
2020	to date	Italy Space Agency (ASI)	Member of the National Thematic Group on Radiation
2021	to date	SAPIENZA Università di Roma	Supervisor of Radiation and Microgravity Facility (RaRity)
2021	to date	SAPIENZA Università di Roma	Member of the Sapienza Thematic Group on FLASH-RT Effects

III C- Other Appointments

<i>Start</i>	<i>End</i>	<i>Institution</i>	<i>Position</i>
2008	2012	University of L'Aquila	Scientific Board Member: PhD School in Experimental Medicine
2013	to date	SAPIENZA Università di Roma	Scientific Board member: PhD School in Life Science
2016	to date	SAPIENZA Università di Roma	Students Advisor for Biological Sciences Bachelor's Degree
2018	to date	SAPIENZA Università di Roma	Member of Quality Assurance, Biotechnology Degree
2019	to date	SAPIENZA Università di Roma	Vice President: Genetics and Molecular Biology Master Degree
2019	to date	SAPIENZA Università di Roma	Member of Faculty of Science Commission for Students Orientation

Part IV – Teaching experience

<i>Year</i>	<i>Institution</i>	<i>Lecture/Course</i>
2000-2001	University of Salento, Lecce (Italy)	Genetics (6 cfu) - FACULTY OF ENVIRONMENTAL SCIENCES
2001-2004	University of Salento, Lecce (Italy)	Advanced Genetics- FACULTY OF SCIENCES (9 cfu)
2004-2007	University of Salento, Lecce (Italy)	Advanced Genetics (9 cfu); Techniques of Genetic Analysis (3 cfu); Evolutionary Genetics (3 cfu) - FACULTY OF SCIENCES
2007-2010	University of L'Aquila, L'Aquila (Italy)	Cytogenetics; FACULTY OF SCIENCES; FACULTY OF BIOTECHNOLOGY
2009-2013	University of L'Aquila, L'Aquila (IT)	Introduction to Human Genetics (3 cfu) -FACULTY OF BIOTECHNOLOGY
2009-2013	University of L'Aquila, L'Aquila (IT)	Techniques of Molecular Genetics (3 cfu)-FACULTY OF BIOTECHNOLOGY
2009-2013	University of L'Aquila, L'Aquila (IT)	Human Molecular Genetics (3 cfu) FACULTY OF BIOTECHNOLOGY
2009-2013	University of L'Aquila, L'Aquila (IT)	Fundamental Genomics (3 cfu) FACULTY OF BIOTECHNOLOGY
2013-to	SAPIENZA University of Rome (IT)	Fundamental Genetics FACULTY OF

date		MATHEMATIC, PHYSIC AND NATURAL SCIENCES (6 cfu)
2013-to date	SAPIENZA University of Rome (IT)	Fundamental Genetics- FACULTY OF PHARMACY AND MEDICINE (6 cfu)
2016-to date	SAPIENZA University of Rome (IT)	Methods in Human Genetics- FACULTY OF MATHEMATIC, PHYSIC AND NATURAL SCIENCES (6 cfu)

G. Cenci teaching activity has an approval rating higher than the average rating of similar courses of the Faculty, as indicated by the 2019 Sapienza Student Course Evaluation Questionnaires (OPIS) (see attached documents)

Part V - Society memberships, Awards and Honors

Year	Title
1993	2-years Fellowship Award for Research Abroad (Pasteur Institute, Cenci Bolognetti Foundation (Rome))
2007	EMBO-Short Term Fellowship Award
Since 1995	Member of Genetics Society of America (GSA)
Since 1998	Member of Italian Association of Genetics (AGI)
Since 2017	Executive Board Member of Italian Association of Genetics (AGI)
1998	AGI Award for the best PhD Thesis
2004	Colleferro Rotary Club Award for Distinguished Contribution to Research
1992	National Habilitation as a Professional Biologist

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title, Function	Program	Grant Value
2005-2007	Telomere protection and cell cycle checkpoints in Drosophila (Prot. 2005050884_002) Role: PI	MIUR (Italian Ministry of University and Research)	53k€
2007-2009	Telomere protection and checkpoint mechanisms: molecular cross-talks contributing to preserve genome integrity- (Prot. 20078TXBJY) Role: PI and National Coordinator	MIUR (Italian Ministry of University and Research)	70k€
2009-2012	The role of mitochondrial citrate transport in the maintenance of chromosome integrity (Investigator Grant IG N. 8589) Role: PI	AIRC (Italian Association for Cancer Research)	150k€
2009-2011	Molecular Mechanisms preventing chromosome end fusions in eukaryotes (Prot. 2009ZWNBPC_002) Role: PI	MIUR (Italian Ministry of University and Research)	84k€
2012-2015	Separase has a conserved role in chromosome stability (Investigator Grant IG N. 12749)	AIRC (Italian Association for Cancer Research)	150k€

	Role: PI		
2013-2016	Identification of new factors required for telomere capping in <i>Drosophila</i> Role: PI	Fondazione Cenci-Bolognetti-Pasteur Institute (Italy)	60k€
2014-2015	Chromosome metabolism and cell cycle analysis by means of Thermo Scientific Multiskan GO Role: PI and Coordinator	SAPIENZA Medium-Sized Equipment Grant	53k€
2018-2020	Conserved mechanisms for the epigenetic regulation of telomere maintenance. Role: PI and Coordinator	SAPIENZA Ateneo Advanced Research Grant	64k€
2016-2018	FLYINGLOW: effects of protracted low radiation doses on <i>Drosophila</i> metabolism Role: I	FERMI Institute for Multidisciplinary Studies (Italy)	75k€
2018-2020	Role of HP1/Cbx protein ubiquitination in chromatin organization (HPUCO-PTR 24-2017) Role: PI and International Coordinator	Programmes Transversaux de Recherche (PTR), Pasteur Institute (France)	300k€
2018-2020	Functional analysis of separase-dependent lamins' regulation in AD-EDMD Role: PI and International Coordinator (N. 21566)	The French Muscular Dystrophy Association (AFM-Telethon)-France	100k€
2018-2021	Characterization of the role of Separase in the regulation of Lamins and Rad50 Role PI	Fondazione Cenci-Bolognetti-Pasteur Institute (Italy)	60k€
2020-2021	RARITY (RAdition and microgRavITY): a new platform to address the biological effects of ionizing radiation coupled to reduced gravity Role: PI and Coordinator	SAPIENZA Medium-Sized Equipment Grant	60k€

Part VII – Research Activities

Keywords	Short Description
1. <i>Drosophila</i> 2. Telomeres 3. Chromosome Structure 4. Genetics 5. Cell Cycle 6. DNA Repair 7. Cell Metabolism	<p>1. Genetic and molecular regulation of telomere capping. G. Cenci has focused most of his research activity on the identification of proteins required for <i>Drosophila</i> telomere protection. His work has contributed to i) the description of <i>Drosophila</i> telomeres as epigenetically determined structures, ii) the identification of a multi-protein complex, dubbed terminin, which specifically associates with <i>Drosophila</i> chromosome ends; iii) the characterization of non-terminin proteins required for telomere protection that have human counterparts involved in telomere maintenance. These findings unveil the potential of <i>Drosophila</i> as a model system for the study of human telomeres, which are currently object of intense investigations due to their involvement in aging and cancer processes</p> <p>2. Intra-cellular metabolism and genome stability. In 2009 G. Cenci group revealed that the impairment of citrate efflux from mitochondria, due to loss of the mitochondrial citrate carrier, led to chromosome breakage in both <i>Drosophila</i> and human cells. This study highlighted for the first time a link between intermediary metabolism and control of genome stability. G. Cenci research activity is now focusing on the characterization of additional</p>

conserved mitochondrial factors involved in this link.

3. The biological effects of low dose radiation/low dose rate on genome stability. G. Cenci laboratory is exploiting *Drosophila* as a model organism to assess the biological effects of exposure to background radiation that deviate from natural background radiations on a complex organism

Part VIII – Summary of Scientific Achievements

<i>Product Type</i>	<i>Number</i>	<i>Data Base</i>	<i>Start</i>
Articles in Journals	58	Scopus	1994
Preprint	1		
Articles in Books	2		1994

Total Impact Factor	319,924
Total Citations	1566
<i>H-Index</i>	19
Normalized <i>H-Index</i> (<i>Hc-Index</i>)	13

Part IX. Editorial Activities

<i>Peer Review for Journals</i>	Journal of Cell Science, Nature Genetics, Chromosoma, Genetics, Mechanisms of Aging and Development, Frontiers in Genetics, Journal of Cellular Physiology, Developmental Dynamics, RNA Biology, Insect Biochemistry and Molecular Biology, Fly, PLoS Genetics, Cancer Letters, Elife, Cells
<i>Associate Editor</i>	Frontiers in Genetics, Frontiers in Cell and Developmental Biology, Cells, Journal of Genetics and Genomic Research, Open Journal of Genetics
<i>Peer Review for Funding Agencies</i>	MUR, The Wellcome Trust
<i>Lead Guest Editor</i>	Telomere Functions in Cell Division (BioMed Research International) The Genetic and Epigenetic Bases of Cellular Response to Ionizing Radiation (Frontiers in Genetics, Frontiers in Cell and Developmental Biology)

Part X. Third Mission Activities

Since 2016 G. Cenci has been engaged on several science divulgation events and orientation for high School students towards University

- 2016 Maneggiare il DNA da organismi di laboratorio: Conferenza/Dimostrazione Pratica alla "Notte Europea dei Ricercatori"- Scienza in Piazza. Gorga, RM.
- 2017 : "La rivoluzione Genetica nelle Scienze della Vita". Lecture for High School Students. Settimana di diffusione della Cultura Scientifica e Tecnologica. Colleferro, RM.
- 2017 SCIENTIFICA-MENTE: DALLA RICERCA ALLE COMPETENZE PER LA VITA: Lecture for High School Students in the framework of PON a. I.I.S."G. Marconi". Colleferro, RM.
- 2019 Epigenetica. Lecture. Settimana di diffusione della Cultura Scientifica e Tecnologica. Colleferro, RM
- 2019 Progetto Formativo "PON ORIENTAMENTO" Titolo: "Scientific Orienta Lab: con la matematica e le scienze mettiamo in gioco il nostro futuro" Codice progetto: 10.1.6A-FSEPON-LA-2018-126. Lectures and Laboratory Activity for High School Students
- 2020 Science Together, European Night of Researchers (ERN): Video "Scientists' Stories"

<https://youtu.be/p4OqGfeSt3U>

<https://www.facebook.com/scienzainsieme/videos/giovanni-cenci-storie-di-ricercatori-scienzainsieme/704085716894726/>:

- 2020 Science Together, European Night of Researchers (ERN): Lecture for High School Students: “Epigenetics, how our life influences our genes”
- 2021 Science Together, European Night of Researchers (ERN): Street Lab activities. *Drosophila* as a model for human diseases (24-25 September 2021; Testaccio (RM))
- 2021 Porte Aperte Sapienza-BiologicaMente. Looking at *Drosophila*. Lab activities for High School Students (July 21, 2021)
- 2021 Coordinator for the Piano Laure Scientifiche (PLS) project: “*Genotype-Phenotype Correlation in Drosophila melanogaster*”. Section of Genetics. Department of Biology and Biotechnology, SAPIENZA Università di Roma
- Since 2019 Co-Organization, on behalf of “C. Darwin” Department, of Sapienza University Orientation Events for High School Students (*Progetto Ponte; Il Salone dello Studente; Porte Aperte*)

Part XI. Organization of Conferences

- 2014 Italian Conference of *Drosophila* Genetics (Anagni, FR-Italy)
- 2018 Course in Molecular Cytogenetics and Cytogenomics-School of Genetics, AGI (Cortona, AR-Italy)

Part XII. Invited Lectures (selected)

- 2021 University of Udine (Udine), Italy
- 2019 FISV Day (Rome)
- 2018 INSERM, (Fontenay-aux-Roses) France
- 2017 Pasteur Institute, Paris
- 2015 Chromosome Conference (Novosibirsk)
- 2014 FISV Conference (Pisa, IT)
- 2012 Temple University (Philadelphia, PA)
- 2012 Chromosome Conference (Novosibirsk)
- 2010 Cancer Research, London(UK)
- 2007 Cornell University (Ithaca, NY)

Part XII– Selected Publications (up to 16)

List of the 16 publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release

	<i>Authors, Title, Journal, press/media release</i>	<i>Cited by</i>	<i>IF</i>
1.	Cenci, G. , Bonaccorsi, S., Pisano, C., Verni, F., and Gatti, M., 1994, Chromatin and microtubule organization during premeiotic, meiotic and early postmeiotic stages of <i>Drosophila melanogaster</i> spermatogenesis, <i>J Cell Sci</i> 107:3521-34	149	IF 1994 4.336
2.	Cenci, G. , Rawson, R. B., Belloni, G., Castrillon, D. H., Tudor, M., Petrucci, R., Goldberg, M. L., Wasserman, S. A., and Gatti, M., 1997, UbcD1, a <i>Drosophila</i> ubiquitin-conjugating enzyme required for proper telomere behavior, <i>Genes Dev</i> 11:863-75. <i>Comment in Science. 1997 (275):1441-3.</i> <i>Comment in Trends in Cell Biology 1997 (7): 269</i>	113	IF 1997 18.868
3.	Somma, M. P., Fasulo, B., Cenci, G. , Cundari, E., and Gatti, M., 2002, Molecular dissection of cytokinesis by RNA interference in <i>Drosophila</i> cultured cells, <i>Mol Biol Cell</i> 13:2448-60.	196	IF 2002 7.599
4.	Cenci, G. , Siriaco, G., Raffa, G. D., Kellum, R., and Gatti, M., 2003, The <i>Drosophila</i> HOAP protein is required for telomere capping, <i>Nat Cell Biol</i> 5: 82-4. <i>Press release in national news papers (La Repubblica, Il Corriere della Sera)</i> <i>Interview in national TV networks (RAI3 News, Leonardo News)</i>	129	IF 2003 20.268
5.	Somma, M. P., Fasulo, B., Siriaco, G., and Cenci, G. 2003. Chromosome condensation defects in <i>barren</i> RNA-interfered <i>Drosophila</i> cells. <i>Genetics</i> . 165: 1607-1611	20	IF 2003 4.276
6.	Ciapponi, L., Cenci G* , Ducau, J., Flores, C., Johnson-Schlitz, D., Gorski, MM., Engels, WR., Gatti, M. 2004 The <i>Drosophila</i> Mre11/Rad50 complex is required to prevent both telomeric fusion and chromosome breakage. <i>Curr Biol</i> . 10:1360-1366.	94	IF 2004 11.901
7.	Cenci G , Ciapponi L, Gatti M. 2005. The mechanism of telomere protection: a comparison between <i>Drosophila</i> and humans. <i>Chromosoma</i> .114: 135-45.	77	IF 2005 3.340
8.	Raffa GD, Cenci G* , Siriaco G, Goldberg ML, Gatti M. 2005. The putative <i>Drosophila</i> transcription factor woc is required to prevent telomeric fusions. <i>Mol Cell</i> . 20:821-31	51	IF 2005 14.971
9.	Musarò M, Ciapponi L, Fasulo B, Gatti M, Cenci G : 2008. Unprotected <i>Drosophila melanogaster</i> telomeres activate the spindle assembly checkpoint. <i>Nat Genet</i> . 40:362-6 <i>Press release in national newspapers (Il Centro, Il Tempo)</i> <i>Interview in major national TV networks (RAI3 News)</i>	34	IF 2008 30.259
10.	Morciano P, Carrisi C, Capobianco L, Mannini L, Burgio G, Cestra G, De Benedetto GE, Corona DF, Musio A, Cenci G . 2009. A conserved role for the mitochondrial citrate transporter Sea/SLC25A1 in the maintenance of chromosome integrity. <i>Hum Mol Genet</i> . 18:4180-8.	40	IF 2009 7.386
11.	Burgio G., Cipressa F., Ingrassia AM, Cenci G. ** , Corona D. 2011 The Histone De-acetylase Rpd3 Regulates Heterochromatin Structure of <i>Drosophila</i> Telomeres <i>J Cell Sci</i> , 124: 2041-8	14	IF 2011 6.111
12.	Cipressa F., Romano S., Centonze S., zur Lage P., Verni F, Dimitri P., Gatti M, Cenci G . 2013. Effete, a <i>Drosophila</i> Chromatin-Associated Ubiquitin Conjugating Enzyme that affects Telomeric and Heterochromatic	10	IF 2014 4.866

- Position Effect. *Genetics*. 195:147-58.
13. **Cenci G**, Ciapponi L, Marzullo M, Raffa GD, Morciano P, Raimondo D, Burla R, Saggio I, Gatti G. 2015. The analysis of *pendolino* (*peo*) mutants reveals differences in the fusigenic potential among *Drosophila* telomeres. *PLOS Genetics* 11(6): e1005260 14 IF 2014 6.661
 14. Cipressa F, Morciano P, Bosso S, Mannini L, Galati A, Raffa GD, Cacchione S, Musio A, **Cenci G** (2016). A role for Separase in telomere protection. *Nat Comm*, 7:10405 doi: 10.1038/ncomms10405) 15 IF 2016 12.124
Press release <http://www.istitutopasteur.it/wp-content/uploads/telomeri-cenci.pdf>
https://twitter.com/AIRC_it/status/695615415871995904
 15. Morciano P, Iorio R, Iovino D, Cipressa F, Esposito G, Porrazzo A, Satta L, Alesse E, Tabocchini MA, **Cenci G**. (2017) Effects of reduced natural background radiation on *Drosophila melanogaster* growth and development as revealed by the FLYINGLOW program. *J Cell Physiol*. doi: 10.1002/jcp.25889 14 IF 2018 4.522
 - 16 Bosso G, Cipressa F, Moroni ML, Pennisi R, Albanesi J, Brandi V, Cugusi S, Renda F, Ciapponi L, Polticelli F, Antoccia A, di Masi A., **Cenci G** (2019). NBS1 interacts with HP1 to ensure genome integrity. *Cell Death and Disease* 10:951 5 IF 2019 6.304

* Co-First Author

**Co-Corresponding Author

Part XIII. Publications in the last 5 years (since January 1, 2016)

1. Cipressa F, Morciano P, Bosso S, Mannini L, Galati A, Raffa GD, Cacchione S, Musio A, **Cenci G** (2016). A role for Separase in telomere protection. *Nat Comm*, 7:10405 doi: 10.1038/ncomms10405)
2. Cicconi A, Micheli E, Verni F, Jackson A, Gradilla A, Cipressa F, Raimondo D Bosso G, Wakefield J, Ciapponi L, **Cenci G**, Gatti M, Cacchione S, Raffa G. (2017) The Drosophila telomere-capping protein Verrocchio binds single-stranded DNA and protects telomeres from DNA damage response. *Nucleic Acids Res.* 2017 45:3068-3085. doi: 10.1093/nar/gkw1244.
3. Morciano P, Iorio R, Iovino D, Cipressa F, Esposito G, Porrazzo A, Satta L, Alesse E, Tabocchini MA, **Cenci G**. (2017) Effects of reduced natural background radiation on Drosophila melanogaster growth and development as revealed by the FLYINGLOW program. *J Cell Physiol.* doi: 10.1002/jcp.25889
4. Graziadio L, Palumbo V, Cipressa F, Williams BC, **Cenci G**, Gatti M, Goldberg ML, Bonaccorsi S. (2018) Phenotypic characterization of diamond (dind), a Drosophila gene required for multiple aspects of cell division. *Chromosoma.* 4: 489-504
5. Morciano P, Cipressa F, Porrazzo A, Esposito G, Tabocchini MA, **Cenci G**. (2018) Fruit Flies Provide New Insights in Low-Radiation Background Biology at the INFN Underground Gran Sasso National Laboratory (LNGS). *Radiat Res.* 190:217-225.
6. Morciano, P, Di Giorgio ML, Porrazzo A, Licursi V, Negri R, Rong Y, **Cenci G**. (2019) Depletion of ATP-Citrate Lyase (ATPCL) Affects Chromosome Integrity Without Altering Histone Acetylation in Drosophila Mitotic Cells. *Front Physiol* **10**: 383,
7. Bosso G, Cipressa F, Moroni ML, Pennisi R, Albanesi J, Brandi V, Cugusi S, Renda F, Ciapponi L, Polticelli F, Antoccia A, di Masi A., **Cenci G** (2019). NBS1 interacts with HP1 to ensure genome integrity. *Cell Death and Disease* 10:951
8. Di Giorgio ML, Morciano P, Bucciarelli E, Porrazzo A, Cipressa F, Saraniero S, Manzi D, Rong YS, **Cenci G**. (2020) The *Drosophila* Citrate Lyase Is Required for Cell Division during Spermatogenesis. *Cells.* 9. pii: E206.
9. Maccallini P., Bavasso F., Scatolini L, Bucciarelli E, Noviello G, Lisi V, Palumbo V, D'Angeli S, Cacchione S, **Cenci G**, Ciapponi L, Wakefield J, Gatti M, Raffa GD (2020) Intimate functional interactions between TGS1 and the Smn complex revealed by an analysis of the Drosophila eye development. *PLoS Genet.* 2020 May 26;16(5):e1008815. doi: 10.1371/journal.pgen.1008815
10. Cacchione S, **Cenci G**^{**}, Raffa GD (2020). Silence at the end: how Drosophila regulates expression and transposition of telomeric retroelements. *Journal of Molecular Biology.* 432(15):4305-4321. doi: 10.1016/j.jmb.2020.06.004
11. Mullani N. Porozhan Y, Mangelinck A, Rachez C, Costallant M, Batschè E, Goodhardt M, **Cenci G**., Mann C, Muchardt C (2021). Reduced RNA turnover as a driver of cellular senescence. *Life Sci Alliance* 2021 Jan 14;4(3):e202000809. doi: 10.26508/lsa.202000809.
12. Morciano P., Di Giorgio ML, Tullo L, Cenci G. (2021). The Organization of the Golgi Structures during Drosophila Male Meiosis Requires the Citrate Lyase ATPCL. *Int J Mol Sci.* 22(11):5745. doi: 10.3390/ijms22115745.
13. Porrazzo A., Cipressa F., De Gregorio A., De Pittà C., Sales GMorciano., P., Esposito G., Tabocchini M.A, **Cenci G**. (2021). Low dose/dose rate γ irradiation protects *Drosophila melanogaster* chromosomes from double strand breaks and telomere fusions by modulating the expression of *Loquacious*. bioRxiv 2021.07.23.453515; doi: <https://doi.org/10.1101/2021.07.23.453515>

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