Curriculum Vitae
Giovanni Cenci

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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

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

Appointments

Academic Appointments

Start	*End*	*Institution*	*Position*
1993	1995	Cornell University- Ithaca (NY)	Visiting Fellow (two year fellowship - Cenci Bolognetti Foundation (Rome)
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
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)

Scientific Society Activities

Year	*Title*
Since 1995	Member of Genetics Society of America (GSA)
Since 1998	Member of Italian Association of Genetics (AGI)
Since 2016	Associate Scientist-FERMI Institute for Multidisciplinary Studies (Italy)
Since 2017	Executive Member of Italian Association of Genetics (AGI)

Awards and Honors

Year	*Title*
1998	AGI Award for the best PhD Thesis
2004	Colleferro Rotary Club Award for Distinguished Contribution to Research

Funding Information

Year	*Title, Function*	*Funding Agency/Program*
2005-2007	Telomere protection and cell cycle checkpoints in Drosophila (Prot. 2005050884_002) (53k€) Role: Head of Unit	MIUR (Italian Ministry of University and Research
2007-2009	Telomere protection and checkpoint mechanisms: molecular cross-talks contributing to preserve genome integrity- (Prot. 20078TXBJY) (70k€) Role: Head of Unit and National Coordinator	MIUR (Italian Ministry of University and Research
2009-2012	The role of mitochondrial citrate transport in the maintenance of chromosome integrity (Investigator Grant IG N. 8589) (150k€) Role: Head of Unit	AIRC (Italian Association for Cancer Research)
2009-2011	Molecular Mechanisms preventing chromosome end fusions in eukaryotes (Prot. 2009ZWNBPC_002) (84k€) Role: Head of Unit	MIUR (Italian Ministry of University and Research
2012-2015	Separase has a conserved role in chromosome stability (Investigator Grant IG N. 12749) (150k€) Role: Head of Unit	AIRC (Italian Association for Cancer Research)
2013-2016	Identification of new factors required for telomere capping in Drosophila (60k€) Role: Head of Unit	Fondazione Cenci-Bolognetti-Pasteur Institute (Italy)
2014	Chromosome metabolism and cell cycle analysis by means of Thermo Scientific Multiskan GO (53k€) Role: Role: Coordinator and Head of Unit	SAPIENZA Ateneo Medie Attrezzature
2018-2020	Conserved mechanisms for the epigenetic regulation of telomere maintenance Role: Coordinator and Head of Unit (64k€)	SAPIENZA Ateneo Research Grant
2016-2018	FLYINGLOW: effects of protracted low radiation doses on Drosophila metabolism Role: Head of Unit (75k€)	FERMI Institute for Multidisciplinary Studies (Italy)
2018-2020	Role of HP1/Cbx protein ubiquitination in chromatin organization Role: Coordinator and Head of Unit (300k€)(HPUCO-PTR 24-2017)	Programmes Transversaux de Recherche (PTR), Pasteur Institute (France)
2018-2020	Functional analysis of separase-dependent lamins' regulation in AD-EDMD (50k€) Role: Coordinator and Head of Unit (N. 21566)	The French Muscular Dystrophy Association (AFM-Telethon)-France
2018-2021	Characterization of the role of Separase in the regulation of Lamins and Rad50 Role: Head of Unit (60k€)	Fondazione Cenci-Bolognetti-Pasteur Institute (Italy)

Research Activities

Keywords	*Short Description*
1. Drosophila 2. Telomeres 3. Chromosome Structure 4. Genetics 5. Cell Cycle 6. DNA Repair 7. Cell Metabolism	Our lab is interested on the comprehension of molecular mechanisms underlying the maintenance of chromosome integrity in the model organism, *Drosophila melanogaster*. The specific aims of our research deal with three major issues: a) the genetic and molecular regulation of telomere capping. In particular, we are addressing the role of ubiquitination at chromosome ends and unraveling unanticipated functions of centromeric factors in telomere homeostasis; b) the involvement of intra-cellular metabolism in the maintenance of genome stability. More specifically, we are investigating how the mitochondrial-mediated flux of metabolites controls cell proliferation and chromosome integrity; c) the biological effects of low dose radiation/low dose rate on Drosophila genome stability. In particular we are studying the genetic and molecular bases that underlie the radioadaptive response using fruit flies as an *in vivo* model. Owing the high level of protein homology between Drosophila and humans, these studies will be instrumental for the identification of new players and pathways in human chromosome stability. Our research is currently supported by Fondazione Cenci Bolognetti, FERMI Institute, Pasteur Institute (France) and The French Muscular Dystrophy Association (AFM-Telethon)-

Peer Review Activities

Journals	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, Cells, Cancer Letters
Review Editor	Frontiers in Genetics, Cells, Journal of Genetics and Genomic Research, Open Journal of Genetics
Funding Agencies	MIUR, The Wellcome Trust

2013 Lead Guest Editor for "Special Issue on Telomere Functions in Cell Division" in BioMed Research International.

Academic Activities

2008-2012 Scientific Board Member: PhD School in Experimental Medicine (University of L'Aquila)
2013-to date Scientific Board member: PhD School in Life Science (Sapienza University of Rome, Pasteur Institute)
2019-to date Vice President: Genetics and Molecular Biology Master Degree (Italian and English), Sapienza University of Rome
2019-to date Committee Member for Student Orientation, Faculty of Science, Sapienza University of Rome
2016-to date Study Advisor for Biological Sciences Degree, Sapienza University of Rome

Activities of Public Engagement

Since 2016 G. Cenci has been engaged at several local activities of science divulgation (*http://bbcd.bio.uniroma1.it/bbcd/attivit-di-educazione-e-divulgazione-scientifica*)

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)

Invited Lectures (selected)

2019 FISV Day (Rome)
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)

Narrative Biosketch

(*major scientific accomplishments, how they helped advance the scientific knowledge and impacted most on the field*)

In the first few years of his scientific career, G. Cenci worked on the cytological characterization of male meiosis in Drosophila melanogaster. He developed a series of cytological procedures that allowed for the first time a fine characterization of all stages of Drosophila spermatogenesis. The detailed description of this biological process (Cenci et al., J Cell Science, 1994) has represented since then a point of reference for other scientists working on Drosophila male meiotic divisions as indicated by the high level of citations of the paper (140).

In 1997 G. Cenci and coworkers identified the first gene of *Drosophila* (and of any other organism) required to prevent fusions between telomeres (Cenci et al., Genes & Development. 1997). He then isolated several additional mutants with telomeric fusions and identified at the molecular level eight genes required for telomere protection. The analysis of the proteins encoded by these genes led to the identification of a multi-protein complex, dubbed terminin, that specifically associates with *Drosophila* chromosome ends. Based on these studies, G. Cenci and coworkers proposed that terminin is the functional analogue of shelterin, the multi-protein complex that protect human telomeres. They also showed that most *Drosophila* non-terminin proteins required for telomere protection have human counterparts involved in telomere maintenance. These results show the potential of *Drosophila* as a model system for the study of human telomeres, which are currently object of intense investigations because of their involvement in the aging and cancer processes (Cenci et al., Nature Cell Biology, 2003; Ciapponi et al., Current Biology, 2004; Raffa et al., Molecular Cell, 2005; Musarò et al., Nature Genetics, 2008; Raffa et al., PNAS, 2009; Raffa et al., Genes & Development, 2010; Burgio et al., J Cell Science, 2011: Cenci et al., PLoS Genetics, 2015; Burla et al., PLoS Genetics, 2015; Cipressa et al., Nat Communication, 2016; Cicconi are al., Nucleic Acid Research, 2017).

In 2008 G. Cenci and coworkers cloned the Drosophila ortholog of the human mitochondrial citrate carrier SLC25A1 (Carrisi et al., Journal of Biochemistry, 2008*)* and in 2009 revealed that the impairment of citrate efflux from mitochondria due to loss of the citrate carrier led to chromosome breakage in both Drosophila and human cells (Morciano et al., Human Molecular Genetics, 2008). This study revealed for the first time an intriguing link between intermediary metabolism and epigenetic control of genome stability. Successively, G. Cenci and coworkers found that this links also involved the ACL citrate lyase enzyme, which transforms citrate into Acetyl-CoA (Morciano et al., Frontiers in Physiology, 2019). As alterations in citrate metabolism in mammals have several pathophysiological consequences and can lead to cancer, the results of this research using Drosophila as a model organism, are still providing new insights on the correlation between changes in citrate-related metabolism and genome instability during malignant transformation.

More recently G. Cenci has studied the effects of environmental radiation on Drosophila melanogaster growth and development providing the first evidence that a deprivation of natural radiation (such as that found in Gran Sasso underground laboratory) affects life span, fertility and DNA damage repair in a complex eukaryotic model organism (Morciano et al., J Cell Physiology, 2017; Morciano et al., Radiation Research, 2018). This finding has important implications in the radiation protection field as it represents a significant deviation from a predicted dose-response

linear correlation on which the cancer risk extrapolation has been based on.

Summary of G. Cenci Scientific Details (Scopus)

Articles in Journals	51
Articles in Books	2
Total Citations	1407
***h*-Index**	18

Giovanni Cenci has met all three required conditions (according to the ASN rules) for accessing to the habilitation as a National Committee Member in Genetics

Teaching Experience

Year	*Institution*	*Lecture/Course*
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**) Human Molecular Genetics **(3 cfu**); Fundamental Genomics **(3 cfu**); Techniques of Molecular Genetics **(3 cfu**)-FACULTY OF BIOTECHNOLOGY
2013-to date	SAPIENZA University of Rome (IT)	Genetics- FACULTY OF PHARMACY AND MEDICINE **(6 cfu)**AND FACULTY OF MATHEMATIC, PHYSIC AND NATURAL SCIENCES **(6 cfu)**
2016-to date	SAPIENZA University of Rome (IT)	Methods in Human Genetics- FACULTY OF MATHEMATIC, PHYSIC AND NATURAL SCIENCES **(6 cfu)**

1cfu= 8 hrs frontal teaching
G. Cenci teaching activity has an approval rating higher than the average ratings of similar courses of the Faculty, as indicated by the 2019 Sapienza Student Course Evaluation Questionnaires (OPIS)

Publications (Full List, since 1994)

Articles in Journals (with Journal 5 year IFs)

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 Drosophila melanogaster spermatogenesis, *J Cell Sci* 107:3521-34. **(5yIF: 5.2)**
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 Drosophila ubiquitin-conjugating enzyme required for proper telomere behavior, *Genes Dev* 11:863-75. **(5yIF: 18.05)**
3. Siriaco, G. M., **Cenci, G**., Haoudi, A., Champion, L. E., Zhou, C., Gatti, M., and Mason, J. M., 2002, Telomere elongation (Tel), a new mutation in Drosophila melanogaster that produces long telomeres, *Genetics* 160:235-45. **(5yIF: 4.34)**
4. Somma, M. P., Fasulo, B., **Cenci, G.**, Cundari, E., and Gatti, M., 2002, Molecular dissection of cytokinesis by RNA interference in Drosophila cultured cells, *Mol Biol Cell* 13:2448-60. **(5yIF: 4.884)**

5. **Cenci, G**., Siriaco, G., Raffa, G. D., Kellum, R., and Gatti, M., 2003, The Drosophila HOAP protein is required for telomere capping, *Nat Cell Biol* 5: 82-4*. **(5yIF: 19.279)**
6. **Cenci G,** Belloni G, Dimitri P. 2003a. 1(2)41Aa, a heterochromatic gene of Drosophila melanogaster, is required for mitotic and meiotic chromosome condensation. *Genetical Research* **81**: 15-24. **(5yIF: 1.747)**
7. **Cenci G**, Siriaco, G., and Gatti, M., 2003. The role of HeT-A and TART retrotransposons i*n* Drosophila telomere capping. *Genetica* 117: 311-318 **(5yIF: 1.4)**
8. Dimitri P, Corradini N, Rossi F, Verni F, **Cenci G**, Belloni G, Zhimulev IF, Koryakov DE. 2003. Vital genes in the heterochromatin of chromosomes 2 and 3 of Drosophila melanogaster. *Genetica* 117: 209-215**. (5yIF: 1.4)**
9. Somma, M. P., Fasulo, B., Siriaco, G., and **Cenci, G.** 2003. Chromosome condensation defects in *barren* RNA-interfere*d Drosophila* cells. *Genetics.* 165: 1607-1611 **(5yIF: 4.34)**
10. Ciapponi, L., **Cenci G.,** Ducau, J., Flores, C., Johnson-Schlitz, D., Gorski, MM., Engels, WR., Gatti, M. 2004 The Drosophila Mre11/Rad50 complex is required to prevent both telomeric fusion and chromosome breakage. *Curr Biol*. 10:1360-1366*. **(5yIF: 9.771)**
11. **Cenci G**, Ciapponi L, Gatti M. 2005. The mechanism of telomere protection: a comparison between Drosophila and humans. *Chromosoma*.114: 135-45. **(5yIF: 4.502)**
12. Raffa GD, **Cenci G**, Siriaco G, Goldberg ML, Gatti M. 2005. The putative Drosophila transcription factor woc is required to prevent telomeric fusions. *Mol Cell*. 20:821-31* **(5yIF: 14.014)**
13. Ciapponi L, **Cenci G,** Gatti M. 2006 The Drosophila Nbs protein functions in multiple pathways for the maintenance of genome stability. *Genetics*. 173:1447-54. **(5yIF: 4.34)**
14. Shaffer CD, **Cenci G,** Thompson B, Stephens GE, Slawson EE, Adu-Wusu K, Gatti M, Elgin SC. 2006. The large isoform of Drosophila melanogaster heterochromatin protein 2 plays a critical role in gene silencing and chromosome structure. *Genetics* 174: 1189-1204 **(5yIF: 4.34)**
15. Carrisi C, Madeo M, Morciano P, Dolce V, **Cenci G**, Cappello AR, Mazzeo G, Iacopetta D, Capobianco L. 2008. Identification of the Drosophila melanogaster mitochondrial citrate carrier: bacterial expression, reconstitution, functional characterization and developmental distribution. *Journal of Biochemistry* 144: 389-392**. (5yIF: 2.577)**
16. Musarò M, Ciapponi L, Fasulo B, Gatti M, **Cenci G**· 2008. Unprotected Drosophila melanogaster telomeres activate the spindle assembly checkpoint. *Nat Genet*. 40:362-6 **(5yIF: 31.616)**
17. Ciapponi L**, **Cenci G**. 2008. Telomere capping and cellular checkpoints: clues from fruit flies. *Cytogenetic and Genome Research* 122: 365-373**. (5yIF: 1.561)**
18. Somma P, Ceprani F, Bucciarelli E, Naim V, De Arcangelis V, Piergentili R, Palena A, Ciapponi L, Giansanti MG, Pellacani C, Petrucci R, **Cenci G**, Vernì F, Fasulo B, Goldberg ML, Di Cunto F, Gatti M. 2008. Identification of Drosophila mitotic genes by combining co-expression analysis and RNA interference*. PLos Genetics*, 4 Issue 7 | e1000126 **(5yIF: 6.4)**
19. Raffa GD, Siriaco G, Cugusi S, Ciapponi L, **Cenci G**, Wojcik E, Gatti M. 2009. The Drosophila modigliani (moi) gene encodes a HOAP-interacting protein required for telomere protection. *Proc Natl Acad Sci USA*.106: 2271-6. **(5yIF: 9.674)**
20. **Cenci G§.** 2009. Drosophila cell cycle under arrest: uncapped telomeres plead guilty. *Cell Cycle* 8:990-5 **(5yIF: 4.37)**
21. 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. *Hum Mol Genet*. 18:4180-8. **(5yIF: 7.601)**
22. Raffa GD, Raimondo D, Sorino C, Cugusi S, **Cenci G**, Cacchione S, Gatti M, Ciapponi L. 2010. Verrocchio, a Drosophila OB-fold containing protein, is a component of the terminin telomere-capping complex. *Genes Dev,* 24: 1596-1601 **(5yIF: 9.65)**
23. Mottier-Pavie V., **Cenci G**., Vernì F., Gatti M., Bonaccorsi S. 2010. Phenotypic analysis of *misato* function reveals roles of noncentrosomal microtubules in Drosophila spindle formation *J Cell Sci*, 124: 706-717. **(5yIF: 4.7)**
24. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2011. Immunostaining of Drosophila testes. *Cold Spring Harb Protoc*. 2011 Oct 1; (10): 1273-5. doi: 10.1101/.
25. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2011. Methanol-acetone fixation of Drosophila testes. *Cold Spring Harb Protoc* 2011 Oct 1; (10): 1270-2. doi: 10.1101/
26. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2011. *Cold Spring Harb Protoc*. Preparation of meiotic chromosomes from larval and pupal Drosophila testes. Mar 1; 2011(3): doi: 10.1101/

27. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2011 Preparation of meiotic chromosomes from adult Drosophila testes. *Cold Spring Harb Protoc*. Mar 1; 2011(3): doi: 10.1101/
28. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2011. Preparation of live testis squashes in Drosophila. *Cold Spring Harb Protoc*. Mar 1; (3). doi: 10.1101/
29. Burgio G., Cipressa F., Ingrassia AM, **Cenci G**. **, Corona D**. 2011 The Histone De-acetylase Rpd3 Regulates Heterochromatin Structure of Drosophila Telomeres *J Cell Sci*, 124: 2041-8 **(5yIF: 4.7)**
30. Raffa GD, Ciapponi L, **Cenci G**, Gatti M. 2011. Terminin: a protein complex that mediates epigenetic maintenance of Drosophila telomeres. *Nucleus* **2**: 383-391. **(5yIF: 3,132)**
31. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2012. F-actin staining of Drosophila testes. *Cold Spring Harb Protoc*. 2012 Jan 1; (1): 105-6. doi: 10.1101/
32. Bonaccorsi S, Giansanti MG, **Cenci** G, Gatti M. 2012. Paraformaldehyde fixation of Drosophila testes. *Cold Spring Harb Protoc*. 2012 Jan 1; (1): 102-4. doi: 10.1101/
33. Raffa GD, **Cenci G,** Ciapponi L, Gatti M. 2013. Organization and maintenance of *Drosophila* telomeres: the roles of terminin and non-terminin proteins. *Tsitologiia*. 55:204-8.
34. Cipressa F, **Cenci G.**§ 2013. DNA damage response, checkpoint activation and dysfunctional telomeres: face-to-face between mammalian cells and Drosophila *Tsitologiia*. 55:211-7
35. Raffa GD, **Cenci G**, Ciapponi L, Gatti M. 2013. Organization and Evolution of Drosophila Terminin: Similarities and Differences between Drosophila and Human Telomeres. *Front Oncol*. 2013 May 10; 3:112. doi: 10.3389/fonc.2013.00112. **(5yIF: 4.137)**
36. Morciano P, Zhang Y, **Cenci G**, Rong YS. 2013. A Hypomorphic Mutation Reveals a Stringent Requirement for the ATM Checkpoint Protein in Telomere Protection During Early Cell Division in Drosophila. *G3 (Bethesda)*. Apr 19. doi:pii: g3.113.006312v1. 10.1534/g3.113.006312 **(5yIF: 3,198)**
37. Cipressa F., Romano S., Centonze S., zur Lage P., Vernì F, Dimitri P., Gatti M, **Cenci G.**§ 2013. Effete, a Drosophila Chromatin-Associated Ubiquitin Conjugating Eznyme that affects Telomeric and Heterochromatic Position Effect. *Genetics*. 195:147-58. **(5yIF: 4.337)**
38. Cipressa F., **Cenci G**§ 2013. Effete, an E2 ubiquitin-conjugating enzyme with multiple roles in Drosophila development and chromatin organization. *Fly* 2; 7(4). **(5yIF: 1.501)**
39. Cipressa F. **, Di Giorgio ML, **Cenci G**. 2014. A simple approach for multicolor immunofluorescence staining in different Drosophila cell types. *J Cell Phys* (6): 683-7. **(5yIF: 4.101)**
40. Messina G, Damia E, Fanti L, Atterrato MT, Celauro E, Mariotti FR, Accardo MC, Walther M, Vernì F, Picchioni D, Moschetti R, Caizzi R, Piacentini L, **Cenci** G, Giordano E, Dimitri P. 2014. Yeti, a Drosophila melanogaster essential gene, encodes a protein required for chromatin organization. *J Cell Sci*, 127:2577-88 **(5yIF: 5.807)**
41. Vernì F., **Cenci G**** 2015. The Drosophila histone variant H2A.V works in concert with HP1 to promote kinetochore-driven microtubule formation. *Cell Cycle* 14(4): 577-88. doi: 10.4161/15384101.2014.991176. **(5yIF: 4.825)**
42. **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 **(5yIF: 8.13)**
43. 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, Saggio I. 2015. AKTIP/Ft1, a new shelterin-interacting factor required for telomere maintenance. *PLOS Genetics* 11(6): e1005167 **(5yIF: 8.13)**
44. 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 **(5yIF: 11,410)**
45. Cicconi A, Micheli E, Vernì 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. **(5yIF: 10.09)**
46. 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 **(5yIF: 4.101)**

47. 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 **(5yIF: 4.174)**

48. 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. **(5yIF: 2.75)**

49. 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, **(5yIF: 3.21)**

50 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 Cell Death and Disease* 10:951. doi: 10.1038/s41419-019-2185-x. (IF: 5.95) **(5yIF: 5.735)**

51 Di Giorgio ML, Morciano P, Bucciarelli E, Porrazzo A, Cipressa F, Saraniero S, Manzi D, Rong YS, **Cenci G.** The *Drosophila* Citrate Lyase Is Required for Cell Division during Spermatogenesis. *Cells*. 2020;9(1). pii: E206. doi: 10.3390/cells9010206 (**IF: 5.65)**

* Co-First Author
**Co-Corresponding Author