

Curriculum vitae and Track Record

PERSONAL DETAILS

Name: Daniela Cesana

Date of Birth: 04/05/1979

Nationality: Italian

Unique identifier(s): <https://orcid.org/0000-0001-6366-4224> , Scopus Author ID: 14013948200

ResearcherID: AAN-4788-2020

URL for web site: <https://research.hsr.it/en/institutes/san-raffaele-teleton-institute-for-gene-therapy/safety-of-gene-therapy-and-insertional-mutagenesis/daniela-cesana.html>

EDUCATION

10/21/2010 Ph.D. in Cellular and Molecular Biology at Vita-Salute San Raffaele University, Milan, Italy, San Raffaele Telethon Institute for Gene Therapy, (SR-Tiget), IRCCS, San Raffaele Hospital, Milan, Italy, Supervisor: Luigi Naldini

2003 Master Degree in Medical Biotechnology, University of Milan, Italy, Supervisor: Prof. Paola Comi and Dr. Raffaella Chiamonte

CURRENT POSITION

2025 –Present Group Leader at the San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Program Titled: Tissue dynamics and biomarker signature discovery in human acquired and inherited disorders by cfDNA-based technologies, IRCCS, San Raffaele Hospital, Milan, Italy

PREVIOUS POSITION

2023-2024 Program Leader at the San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), IRCCS, San Raffaele Hospital, Milan, Italy

2019-2023 Project Leader at the San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Safety of Gene Therapy and Insertional Mutagenesis Unit, IRCCS San Raffaele Hospital, Milan, Italy, Supervisor: Dr. Eugenio Montini

2016- 2019 Senior Postdoctoral fellow at SR-Tiget, Safety of Gene Therapy and Insertional Mutagenesis Unit, IRCCS, San Raffaele Hospital, Milan, Italy, Supervisor: Dr. Eugenio Montini,

2010- 2016 Postdoctoral fellow at SR-Tiget, Safety of Gene Therapy and Insertional Mutagenesis Unit, IRCCS, San Raffaele Hospital, Milan, Italy, Supervisor: Dr. Eugenio Montini,

2006-2010 Ph.D. student in Cellular and Molecular Biology at SR-Tiget, Vita-Salute San Raffaele University, IRCCS, San Raffaele Hospital, Milan, Italy, Supervisor: Prof. Luigi Naldini

ACADEMIC QUALIFICATION

2023 National Scientific qualification as second-level professor for - Molecular Biology- Academic Recruitment Field 05/E and Genetics- Academic Recruitment Field 05/I

RESEARCH GRANT AND FUNDS

2024 Recipient of ERC Consolidator Grant (*ERC-2024-COG, panel LS7*), “Dissect the impact, safety and effectiveness of gene therapy at the whole organismal level by cell-free DNA signatures”, Acronym: Tales from Death, N° 101170490. Funding period 5 years, amount 2,000,000 euro. Starting date: February 2025.

2024 SR-Tiget- service agreement with European Myeloma Network (sponsored by Janssen Inc) “Longitudinal clonal tracking in circulating cells and cfDNA” Funding period 5 years, amount 1,015,000 euro (40 pts). Starting date: to be defined in 2025

2022 Recipient as Co-PI with Eugenio Montini (2022), Grant application from ELA-foundation. Project Title: “cell-free DNA as a new biomarker for metachromatic leukodystrophy”. Funding period of 2 years, 200,000 euro. Starting date: March, 2023, ongoing.

2021 SR-Tiget-service agreement with Spark Inc. “Assessment of AAV genomic integration” Funding period 6 months, amount 375,000 euro.

2018 Recipient as Co-PI with Luca Vago, Grant application from Italian Ministry of Health (GR-2018-12367860). Project Title: “Combining Patient-Derived Xenografts and Lentiviral Vector-Based Insertional Mutagenesis to Decipher Mechanisms of Leukemia Immune Evasion and Relapse”. Funding period of 3 years, 450,000 euro. Starting date: 2019, Completed.

2017 Recipient as Co-PI with Andrea Calabria, Grant application from Italian Ministry of Health (GR-2016-

02363681). Project Title: “*Improving the safety and long-term efficacy of hematopoietic stem cell based Gene Therapy and optimization of the treatment protocol through in vivo characterization of the stem cell proliferation stress during the hematopoietic reconstitution*”. Funding period 3 years, 412,000 euro. Starting date: September 2018, Completed.

2015 Recipient as PI, Grant application from Italian Ministry of Health (GR-2013-02356392). Project Title: “*Investigating insertional mutagenesis as a new mechanism of HIV-1 persistence in infected host*”. Funding period 3 years, 427,000 euro. Starting date: July 2019, Completed.

SELECTED PRIZES AND AWARDS

2019 Recipient of the Excellence in Research Award for Students and Fellows at American Society for Cell and Gene Therapy (ASGCT), Washington, USA, May 2019
 2022 Meritorious Abstract Travel Award - ASGCT-Washington, DC (USA)
 2021 Meritorious Abstract Travel Award - ASGCT-Virtual
 2017 Meritorious Abstract Travel Award - ASGCT- Washington, DC (USA)
 2016 Meritorious Abstract Travel Award - ASGCT-Washington, DC (USA)
 2015 Meritorious Abstract Travel Award - ASGCT- New Orleans, LA (USA)
 2015 Outstanding Poster Presentation Award- ASGCT- New Orleans, LA (USA)
 2012 Meritorious Abstract Travel Award -ASGCT- Philadelphia, PA (USA)
 2010 Meritorious Abstract Travel Award -ASGCT-Washington, DC (USA)

OTHER SCIENTIFIC ACTIVITIES

2019 Co-Inventor of the Patent Application No. 1905244.8, UK

INVITED SPEAKER

2023 Invited Speaker at the 30th Annual Congress of the European Society of Gene and Cell Therapy, Brussels, Belgium
 2023 Invited Speaker at the 13th Stem Cell Clonality and Genome Stability Retreat-Brussels, Belgium
 2020 Invited Speaker at Ospedale San Raffaele Scientific Retreat-Milan, Italy
 2019 Invited Speaker at the 4th Italian network Acute Infection -Rome, Italy

ABSTRACT SELECTED FOR ORAL PRESENTATION

-at ESGCT, annual meeting -2017, 2015, 2014 and 2011
 -at ASGCT, annual meetings -2022, 2021, 2019, 2017, 2015, 2014, 2012, 2011
 - 8th HIV persistence during therapy, Reservoirs & Eradication Strategies workshop

BOOK AUTHORSHIP

2017 Co-Author of the following book chapter: **Cesana D.**, Volpin M., Serina Secanechia YN. and Montini E. “Safety and Efficacy of Retroviral and Lentiviral Vectors for Gene Therapy”, Springer International Publishing, 2017, ISBN: 978-3-319-53455-8
 2012 Co-Author of the following book chapter: Montini E and **Cesana D.** “Genotoxicity assay for gene therapy vectors in tumor prone Cdkn2a^{-/-} mice”, Methods Enzymol, 2012, ISSN 0076-6879

ACADEMIC SUPERVISION

M.D. students:

2015-2017 Elena Bruzzesi, co-supervised with G. Tambussi, Master degree in Medicine at Università Vita-Salute San Raffaele, Milan, Italy
 2017-2022 Elena Bruzzesi, co-supervised with Silvia Nozza, Residency in Infectious Diseases at Università Vita-Salute San Raffaele, Milan, Italy

Ph.S student:

2022-present Elena Bruzzesi, co-supervised with Silvia Nozza, Ph.S student in Molecular Medicine at Università Vita-Salute San Raffaele, Milan

Ph.D students:

2022-present Carlo Cipriani, co-supervised with Marco Masseroli, Ph.D student in Computer Science and Engineering, at Politecnico di Milano, Milan
 2022-present Francesco Gazzo, co-supervised with Marco Masseroli, Ph.D student in Computer Science and Engineering, at Politecnico di Milano, Milan

ORGANIZATION OF SCIENTIFIC MEETINGS

01/2024 Scientific organizer, lecturer, and tutor for the “European Society of Gene and Cell Therapy Academy on Lentiviral Vector”, 13/15 participants, international meeting for PhD students working in the Gene Therapy field, Milan, Italy. Meeting is planned for 30 Jan - 1 Feb 2024

INSTITUTIONAL RESPONSIBILITIES

2017–present Graduate Student Advisor/Examiner, University Vita-Salute San Raffaele, Milan, Italy

REVIEWING ACTIVITIES

2020-present Journal reviewer: Molecular Therapy, Journal of Virology, Plos one, Human Gene Therapy

2023-present Abstract Reviewer: American Society for Cell and Gene Therapy Annual

MEMBERSHIP OF SCIENTIFIC SOCIETIES

2006-present Associate Member, American Society of Gene and Cell Therapy (ASGCT)

2006-present Associate Member, European Society of Gene and Cell Therapy (ESGCT)

2022 Associate member, International Society for Stem Cell Research

PEER RECOGNITION

I have published 33 peer-reviewed articles, h-index: 21; citations by >2012 documents: 8 as main author (first/last, co-corresponding), 6 as major contributors (second authorship) and 17 as co-author:

1. Calabria A, Spinozzi G, Cesana D, Buscaroli E, Benedicenti F, Pais G, Gazzo F, Scala S, Lidonnici MR, Scaramuzza S, Albertini A, Esposito S, Tucci F, Canarutto D, Omrani M, De Mattia F, Dionisio F, Giannelli S, Markt S, Fumagalli F, Calbi V, Cenciarelli S, Ferrua F, Gentner B, Caravagna G, Ciceri F, Naldini L, Ferrari G, Aiuti A, Montini E.

“Long-term lineage commitment in haematopoietic stem cell gene therapy”

2024, Nature. 2024 Dec;636(8041):162-171. doi: 10.1038/s41586-024-08250-x. PMID: 39442556

2. Cesana D., Cicalese MP, Migliavacca M.*, Caruso R., Calabria A., Barzaghi F., Dionisio F., Giannelli S., Spinozzi G., Benedicenti F, Rudilosso L., Ciolfi A., Bruselles A., Pizzi S., Casiraghi M., Fossati C., Zancan S., Gabaldo M., Tucci F., Strocchio L., Bernardo M.E., Vinti L., Ferrua F., Calbi V., Gallo V., Carlucci F., Guerra A., Richardson A., Kudari M., Jones R., Cancrini C., Ciceri F., Naldini L., Tartaglia M., Montini E., Locatelli F. and Aiuti A.

“A case of T-cell acute lymphoblastic leukemia in retroviral gene therapy for ADA-SCID”

2024, Nature Communication, 2024 Apr 30;15(1):3662. doi: 10.1038/s41467-024-47866-5

3. Migliavacca M, Barzaghi F, Fossati C, Rancoita PMV, Gabaldo M, Dionisio F, Giannelli S, Salerio FA, Ferrua F, Tucci F, Calbi V, Gallo V, Recupero S, Consiglieri G, Pajno R, Sambuco M, Priolo A, Ferri C, Garella V, Monti I, Silvani P, Darin S, Casiraghi M, Corti A, Zancan S, Levi M, Cesana D, Carlucci F, Pituch-Noworolska A, AbdElaziz D, Baumann U, Finocchi A, Cancrini C, Ladogana S, Meinhardt A, Meyts I, Montin D, Notarangelo LD, Porta F, Pasquet M, Speckmann C, Stepensky P, Tommasini A, Rabusin M, Karakas Z, Galicchio M, Leonardi L, Duse M, Guner SN, Di Serio C, Ciceri F, Bernardo ME, Aiuti A, Cicalese MP.

“Long-term and real-world safety and efficacy of retroviral gene therapy for adenosine deaminase deficiency”.

2024, Nat Medicine, Feb;30(2):488-497. doi: 10.1038/s41591-023-02789-4. PMID: 38355973

4. Merelli I., Beretta S., **Cesana D.**, Gennari A., Benedicenti F., Spinozzi G., Cesini D., Montini E., Daniele D'Agostino D., Calabria A.

“InCliniGene enables high-throughput and comprehensive in vivo clonal tracking toward clinical genomics data integration”

2023, Database (Oxford), Nov 2:2023: baad069, doi: 10.1093/database/baad069.

5. Calabria A., Cipriani C, Spinozzi G., Pouzolles M., Esposito S., Benedicenti F., Taylor N., Zimmermann V.S., Montini E., **Cesana D.**

“Intrathymic AAV delivery results in therapeutic site-specific integration at TCR loci”

2023, Blood, 141(19), pp. 2316–2329, doi: 10.1182/blood.2022017378

Commentary by Weijie Li in Blood

6. Pais G, Spinozzi G*, **Cesana D***, Benedicenti F, Albertini A, Bernardo ME, Gentner B, Montini E, Calabria A. **equal contribution*

“ISAnalytics enables longitudinal and high-throughput clonal tracking studies in Hematopoietic Stem Cell Gene Therapy applications”.

Briefings in Bioinformatics, 2023, 24(1), doi:10.1093/bib/bbac551

7. Ferrari S*, Jacob A*, **Cesana D***, Laugel M, Beretta S., Varesi A, Canarutto D, Albano L, Conti A., Calabria A., Vavassori V, Cipriani C., Castiello M.C., Unali G., Esposito S., Brombin C, Cugnata F., Adjali O., Ayuso E., Merelli I., Villa A., Di Micco R., Kajaste-Rudnitski A, Montini E, Penaud-Budloo M., Luigi Naldini. **equal contribution*
"Choice of Template Delivery Mitigates the Genotoxic Risk and Adverse Impact of Editing in Human Hematopoietic Stem Cells".
2022, Cell Stem Cells, Oct 6;29(10):1428-1444.e9. doi: 10.1016/j.stem.2022.09.001
8. Wagner S., Baldow C., Calabria A, Rudilosso L., Gallina P., Montini E., **Cesana D.**, Glauche I.
"Clonal reconstruction from co-occurrence of vector integration sites allows accurate quantification of expanding clones in vivo"
2022, Nature Communications, 13(1), 3712, doi: 10.1038/s41467-022-31292-6.
9. Asselta R, Paraboschi EM, Stravalaci M, Invernizzi P, Bonfanti P, Biondi A, Pagani I, Pedotti M, Doni A, Scavello F, Mapelli SN, Sironi M, Perucchini C, Varani L, Matkovic M, Cavalli A, **Cesana D**, Gallina P, Pedemonte N, Capurro V, Clementi N, Mancini N, Bayarri-Olmos R, Garred P, Rappuoli R, Duga S, Bottazzi B, Uguccioni M, Vicenzi E, Mantovani A, Garlanda C.
Reply to: "Hultström et al., Genetic determinants of mannose-binding lectin activity predispose to thromboembolic complications in critical COVID-19. Mannose-binding lectin genetics in COVID-19."
2022, Nat Immunol., Jun;23(6):865-867. doi: 10.1038/s41590-022-01228-9.
10. Stravalaci M., Pagani I., Paraboschi E.M, Pedotti M., Doni A., Scavello F., Mapelli S.N., Sironi M., Varani L., Matkovic M., Cavalli A., **Cesana D.**, Gallina P., Pedemonte N., Capurro V., Clementi N., Mancini N., Invernizzi P., Bayarri-Olmos R., Garred P., Rappuoli R., Duga S., Bottazzi B., Uguccioni M., Asselta R., Vicenzi E., Mantovani A., Garlanda C.
"Recognition and inhibition of SARS-CoV-2 by humoral innate immunity pattern recognition molecules"
2022, Nat Immunol. 2022 Feb;23(2):275-286. doi: 10.1038/s41590-021-01114-w. PMID: 35102342
11. Del Core L., **Cesana D.**, Gallina P., Secanechia Y. N., Rudilosso L., Montini E., Wit E. J. C., Calabria A., and Grzegorzczak M. A.
"Normalization of clonal diversity in Gene Therapy studies using shape constrained splines"
2022, Scientific Reports 12(1),3836. doi: 10.1038/s41598-022-05837-0. PMID: 35264585
12. Gentner B, Tucci F, Galimberti S, Fumagalli F, De Pellegrin M, Silvani P, Camesasca C, Pontesilli S, Darin S, Ciotti F, Sarzana M, Consiglieri G, Filisetti C, Forni G, Passerini L, Tomasoni D, **Cesana D**, Calabria A, Spinozzi G, Cicalese M, Calbi V, Migliavacca M, Barzaghi F, Ferrua F, Gallo V, Miglietta S, Zonari E, Cheruku P, Forni C, Facchini M, Corti A, Gabaldo M, Zancan S, Gasperini S, Rovelli A, Boelens JJ, Jones SA, Wynn R, Baldoli C, Montini E, Gregori S, Ciceri F, Valsecchi MG, la Marca G, Parini R, Naldini L, Aiuti A, Bernardo ME.
"Hematopoietic Stem- and Progenitor-Cell Gene Therapy for Hurler Syndrome"
2021, N Engl J Med, Nov;18;385(21):1929-1940. doi: 10.1056/NEJMoa2106596. PMID: 34788506
13. **Cesana D**, Calabria A, Rudilosso L, Gallina P, Benedicenti F, Spinozzi G, Schirotti G, Magnani A, Acquati S, Fumagalli F, Calbi V, Witzel M, Bushman FD, Cantore A, Genovese P, Klein C, Fischer A, Cavazzana M, Six E, Aiuti A, Naldini L, Montini E.
"Retrieval of vector integration sites from cell-free DNA".
2021, Nat Med, Aug;27(8):1458-1470. doi: 10.1038/s41591-021-01389-4. PMID: 34140705
14. Biavasco R, Molteni R, Stefanoni D, Nemkov T, Domínguez-Andrés J, Arts RJ, Merelli I, Mazza D, Zambrano S, Panigada M, Cantoni E, Tengesda IW, Maksud P, Piras F, **Cesana D**, Cassina L, Distefano G, Loffreda G, Gnani D, De Luca G, Tomelleri A, Campochiaro C, Joosten LAB, Dinarello CA, Kajaste-Rudnitski A, Haroche J, Cardaci S, Cenci S, Dagna L, Doglioni C, Ferrarini M, Ferrero E, Boletta A, D'Alessandro A, Montini E, Netea MG, Cavalli G.
"Oncogene-induced maladaptive activation of trained immunity in the pathogenesis and treatment of Erdheim-Chester disease".
2021, Blood, Jun 2;blood.2020009594. doi: 10.1182/blood.2020009594. PMID: 34077954
15. Biavasco R, Lettera E, Giannetti K, Gilioli D, Beretta S, Conti A, Scala S, **Cesana D**, Gallina P, Norelli M, Basso-Ricci L, Bondanza A, Cavalli G, Ponzoni M, Dagna L, Doglioni C, Aiuti A, Merelli I, Di Micco R, Montini E.
"Oncogene-induced senescence in hematopoietic progenitors features myeloid restricted hematopoiesis, chronic inflammation and histiocytosis".
2021, Nat Commun. Jul 27;12(1):4559. doi: 10.1038/s41467-021-24876-1.PMID: 34315896

16. Pouzolles M, Machado A, Guilbaud M, Irla M, Gailhac S, Barennes P, **Cesana D**, Calabria A, Benedicenti F, Sergé A, Raman I, Li QZ, Montini E, Klatzmann D, Adjali O, Taylor N, Zimmermann VS.
"Intrathymic adeno-associated virus gene transfer rapidly restores thymic function and long-term persistence of gene-corrected T cells."
2020, J Allergy Clin Immunol Feb; 145(2):679-697, doi:10.1016/j.jaci.2019.08.029.
17. Milani M, Annoni A, Moalli F, Liu T, **Cesana D**, Calabria A, Bartolaccini S, Biffi M, Russo F, Visigalli I, Raimondi A, Patarroyo-White S, Drager D, Cristofori P, Ayuso E, Montini E, Peters R, Iannaccone M, Cantore A, Naldini L.
"Phagocytosis-shielded lentiviral vectors improve liver gene therapy in nonhuman primates".
2019, Science Translational Medicine. May 22; 11 (493), doi: 10.1126/scitranslmed.aav7325
18. Alfano M, Ferrarese R, Locatelli I, Ventimiglia E, Ippolito S, Gallina P, **Cesana D**, Canducci F, Pagiardini L, Viganò P, Clementi M, Nebuloni M, Montorsi F, Salonia A.
"Testicular microbiome in azoospermic men-first evidence of the impact of an altered microenvironment".
2018, Human Reproduction. Jul 1; 33 (7) 1212-1217, doi:10.1093/humrep/dey116.
19. **Cesana D[§]**, Santoni de Sio FR, Rudilosso L, Gallina P, Calabria A, Beretta S, Merelli I, Bruzzesi E, Passerini L, Nozza S, Vicenzi E, Poli G, Gregori S, Tambussi G, Montini E*. **§co-corresponding Author**
"HIV-1-mediated insertional activation of STAT5B and BACH2 trigger viral reservoir in T regulatory cells".
2017, Nature Communications. Sep 8; 8(1):498, doi: 10.1038/s41467-017-00609-1.
20. Scholz SJ, Fronza R, Bartholomä CC, **Cesana D**, Montini E, von Kalle C, Gil-Farina I, Schmidt M.
"Lentiviral Vector Promoter is Decisive for Aberrant Transcript Formation".
2017, Human Gene Therapy. Oct; 28(10): 875-885, doi: 10.1089/hum.2017.162
21. Petrillo C, **Cesana D**, Piras F, Bartolaccini S, Naldini L, Montini E, Kajaste-Rudnitski A.
"Cyclosporine A and rapamycin relieve distinct lentiviral restriction blocks in hematopoietic stem and progenitor cells".
2015, Molecular Therapy. Feb; 23(2):352-62, doi:10.1038/mt.2014.193.
22. Calabria A, Leo S, Benedicenti F, **Cesana D**, Spinozzi G, Orsini M, Merella S, Stupka E, Zanetti G, Montini E.
"VISPA: a computational pipeline for the identification and analysis of genomic vector integration sites".
2014, Genome Medicine. 2014 Sep 3; 6(9):67, doi:10.1186/s13073-014-0067-5.
23. **Cesana D**, Ranzani M, Volpin M, Bartholomä C, Duros C, Artus A, Merella S, Benedicenti F, Sergi L, Sanvito F, Brombin C, Nonis A, Di Serio C, Doglioni C, von Kalle C, Schmidt M, Cohen-Haguenauer O, Naldini L and Montini E.
"Uncovering and dissecting the genotoxicity of self-inactivating lentiviral vectors in vivo".
2014, Molecular Therapy. Apr; 22(4): 774-785, doi:10.1038/mt.2014.3.
24. Catucci M, Zanoni I, Draghici E, Bosticardo M, Castiello MC, Venturini M, **Cesana D**, Montini E, Ponzoni M, Granucci F, Villa A.
"Wiskott-Aldrich syndrome protein deficiency in natural killer and dendritic cells affects antitumor immunity".
2014, European Journal of Immunology. Apr; 44(4):1039-45, doi: 10.1002/eji.201343935
25. Ranzani M, **Cesana D**, Bartholomä C, Sanvito F, Pala M, Benedicenti F, Gallina P, Sergi L, Merella S, Bulfone A, Doglioni C, von Kalle C, Kim Y J, Schmidt M, Tonon G, Naldini L, Montini E.
"Lentiviral vector-based insertional mutagenesis identifies genes associated with liver cancer".
2013, Nature Methods. Feb; 10(2):155-61, doi:10.1038/nmeth.2331.
26. **Cesana D***, Sgualdino J*, Rudilosso L, Merella S, Naldini L, Montini E.
*"Whole transcriptome characterization of aberrant splicing events induced by lentiviral vector integrations". *equal contribution*
2012, The Journal of Clinical Investigation. May 1; 122(5):1667-76, doi.org/10.1172/JCI62189.
Commentary by Didier Trono in The Journal of Clinical Investigation
27. Lombardo A, **Cesana D**, Genovese P, Di Stefano B, Provasi E, Colombo DF, Neri M, Magnani Z, Cantore A, Lo Riso P, Damo M, Pello OM, Holmes MC, Gregory PD, Gritti A, Broccoli V, Bonini C, Naldini L.

"Site-specific integration and tailoring of cassette design for sustainable gene transfer".

2011, Nature Methods. Aug 21; 8(10):861-9, doi:10.1038/nmeth.1674.

28. Biffi A, Bartolomä CC, **Cesana D**, Cartier N, Aubourg P, Ranzani M, Cesani M, Benedicenti F, Plati T, Rubagotti E, Merella S, Capotondo A, Squaldino J, Zanetti G, von Kalle C, Schmidt M, Naldini L, Montini E.

"Lentiviral-vector common integration sites in preclinical models and a clinical trial reflect a benign integration bias and not oncogenic selection".

2011, Blood. May 19; 117(20):5332-9, doi:10.1182/blood-2010-09-306761.

29. Bartholomae CC, Arens A, Balaggan KS, Yáñez-Muñoz RJ, Montini E, Howe SJ, Paruzynski A, Korn B, Appelt JU, Macneil A, **Cesana D**, Abel U, Glimm H, Naldini L, Ali RR, Thrasher AJ, von Kalle C, Schmidt M.

"Lentiviral vector integration profiles differ in rodent postmitotic tissues".

2011, Molecular Therapy, Apr; 19(4):703-10, doi:10.1038/mt.2011.19.

30. Gabriel R, Eckenberg R, Paruzynski A, Bartholomae CC, Nowrouzi A, Arens A, Howe SJ, Recchia A, Cattoglio C, Wang W, Faber K, Schwarzwaelder K, Kirsten R, Deichmann A, Ball CR, Balaggan KS, Yáñez-Muñoz RJ, Ali RR, Gaspar HB, Biasco L, Aiuti A, **Cesana D**, Montini E, Naldini L, Cohen-Haguenauer O, Mavilio F, Thrasher AJ, Glimm H, von Kalle C, Saurin W, Schmidt M.

"Comprehensive Genomic Access to Vector Integration in Clinical Gene Therapy".

2009, Nature Medicine. Dec; 15(12):1431-6, doi:10.1038/nm.2057.

31. Montini, E*, **Cesana, D*** Schmidt, M, Sanvito, F, Bartholomae, C, Ranzani, M, Benedicenti, F, Sergi Sergi, L, Ambrosi, A, Ponzoni, M, Doglioni, C, Di Serio, C, von Kalle, C and Naldini, L.

*"The Genotoxic Potential of Retroviral Vectors is Strongly Modulated by Vector Design and Integration Site Selection". *equal contribution.*

2009, The Journal of Clinical Investigation. Apr; 119(4):964-75, doi:10.1172/JCI37630.

32. Calzavara E, Chiamonte R, **Cesana D**, Basile A, Sherbet GV, Comi P.

"Reciprocal regulation of Notch and PI3K/Akt signalling in T-ALL cells in vitro".

2008, Journal of Cell Biochemistry. Apr 1; 103(5):1405-12, doi:10.1002/jcb.21527.

33. Montini E, **Cesana D**, Schmidt M, Sanvito F, Ponzoni M, Sergi Sergi L, Benedicenti L, Bartholomae C, Ambrosi A, Di Serio C, Doglioni C, von Kalle K, and Naldini L.

"Hematopoietic stem cell gene transfer in a tumor-prone mouse model uncovers low genotoxicity of lentiviral vector integration"

2006, Nature Biotechnology. Jun; 24(6):687-96, doi:10.1038/nbt1216.