

Marco Demaria

Damage and Repair in Cancer Development and Cancer Treatment (DARE)

Restoring Organ Function by Means of Regenerative Medicine (REGENERATE)

Awards/Grants

- Travel Award, Montagna Symposium on the Biology of Skin2014
- Best poster award, Bay Area Aging Meeting (BAAM)2014
- Travel award, National Postdoctoral Association (NPA), Annual meeting2014
- Post-doctoral fellowship, American Italian Cancer Foundation (AICF) 2012-2014
- Travel award, Mayo Clinic, Senescence and Healthspan Conference2012
- Travel award, Nathan Shock Aging Center, Annual meeting 2011
- Graduate fellowship, Italian Minister of Health2008-2011
- Short term fellowship, Society of Cell Biology and Differentiation (ABCD)2007

Education/Scientific experience

2015-	Group leader, ERIBA/UMCG, Groningen, Netherlands
2012-2015	Post-doctoral Fellow, Buck Institute for Research on Aging, Novato CA, USA
2012-2015	Consultant, Unity/Cenexys, San Francisco CA, USA
2008-2011	PhD, Molecular Medicin, University of Torino, Italy
2007	Internship, University of Wien, Austria
2005-2007	MS, Molecular Biotechnology, University of Torino, Italy
2002-2005	BS, Biotechnology, University of Torino, Italy

Research output

Physiological hypoxia restrains the senescence-associated secretory phenotype via AMPK-mediated mTOR suppression

van Vliet, T., Varela-Eirin, M., Wang, B., Borghesan, M., Brandenburg, S. M., Franzin, R., Evangelou, K., Seelen, M., Gorgoulis, V. & Demaria, M., 6-May-2021, In: *Molecular Cell*. 81, 9, p. 2041-+ 18 p.

To breathe or not to breathe: Understanding how oxygen sensing contributes to age-related phenotypes

van Vliet, T., Casciaro, F. & Demaria, M., May-2021, In: *Ageing Research Reviews*. 67, 14 p., 101267.

Algorithmic assessment of cellular senescence in experimental and clinical specimens

Kohli, J., Wang, B., Brandenburg, S. M., Basisty, N., Evangelou, K., Varela-Eirin, M., Campisi, J., Schilling, B., Gorgoulis, V. & Demaria, M., 28-Apr-2021, (E-pub ahead of print) In: *Nature protocols*. p. 2471-1501 31 p.

The struggle of a good friend getting old: cellular senescence in viral responses and therapy

Kohli, J., Veenstra, I. & Demaria, M., 7-Apr-2021, In: *Embo Reports*. 22, 4, 14 p., e52243.

Cellular Senescence and the SenescenceAssociated Secretory Phenotype as Drivers of Skin Photoaging

Fitsiou, E., Pulido, T., Campisi, J., Alimirah, F. & Demaria, M., Apr-2021, In: *Journal of Investigative Dermatology*. 141, 4, p. 1119-1126 8 p.

Unravelling Heterogeneity of Amplified Human Amniotic Fluid Stem Cells Sub-Populations

Casciaro, F., Zia, S., Forcato, M., Zavatti, M., Beretti, F., Bertucci, E., Zattoni, A., Reschiglian, P., Alviano, F., Bonsi, L., Follo, M. Y., Demaria, M., Roda, B. & Maraldi, T., 15-Jan-2021, In: *Cells*. 10, 1

Biological functions of therapy-induced senescence in cancer

Fitsiou, E., Soto-Gamez, A. & Demaria, M., 2021, (E-pub ahead of print) In: *Seminars in cancer biology*.

Oxylipin biosynthesis reinforces cellular senescence and allows detection of senolysis

Wiley, C. D., Sharma, R., Davis, S. S., Lopez-Dominguez, J. A., Mitchell, K. P., Wiley, S., Alimirah, F., Kim, D. E., Payne, T., Rosko, A., Aimontche, E., Deshpande, S. M., Neri, F., Kuehnemann, C., Demaria, M., Ramanathan, A. & Campisi, J., 2021, (E-pub ahead of print) In: *Cell metabolism*.

ARDD 2020: from aging mechanisms to interventions

Mkrtychyan, G. V., Abdelmohsen, K., Andreux, P., Bagdonaite, I., Barzilai, N., Brunak, S., Cabreiro, F., de Cabo, R., Campisi, J., Cuervo, A. M., Demaria, M., Ewald, C. Y., Fang, E. F., Faragher, R., Ferrucci, L., Freund, A., Silva-Garcia, C. G., Georgievskaya, A., Gladyshev, V. N., Glass, D. J. & 46 others, Gorbunova, V., de Grey, A., He, W-W., Hoeijmakers, J., Hoffmann, E., Horvath, S., Houtkooper, R. H., Jensen, M. K., Jensen, M. B., Kane, A., Kassem, M., de Keizer, P., Kennedy, B., Karsenty, G., Lamming, D. W., Lee, K-F., MacAulay, N., Mamoshina, P., Mellon, J., Molenaars, M., Moskalev, A., Mund, A., Niedernhofer, L., Osborne, B., Pak, H. H., Parkhitko, A., Raimundo, N., Rando, T. A., Rasmussen, L. J., Reis, C., Riedel, C. G., Franco-Romero, A., Schumacher, B., Sinclair, D. A., Suh, Y., Taub, P. R., Toiber, D., Treebak, J. T., Valenzano, D. R., Verdin, E., Vijg, J., Young, S., Zhang, L., Bakula, D., Zhavoronkov, A. & Scheibye-Knudsen, M., 31-Dec-2020, In: *Aging*. 12, 24, p. 24486-24503 18 p.

Cellular senescence contributes to radiation-induced hyposalivation by affecting the stem/progenitor cell niche

Peng, X., Wu, Y., Brouwer, U., van Vliet, T., Wang, B., Demaria, M., Barazzuol, L. & Coppes, R. P., 14-Oct-2020, In: *Cell death & disease*. 11, 10, 11 p., 854.

A Senescence-Centric View of Aging: Implications for Longevity and Disease

Borghesan, M., Hoogaars, W. M. H., Varela-Eirin, M., Talma, N. & Demaria, M., Oct-2020, In: *Trends in Cell Biology*. 30, 10, p. 777-791 15 p.

Cellular senescence as a potential mediator of COVID-19 severity in the elderly

Nehme, J., Borghesan, M., Mackedenski, S., Bird, T. G. & Demaria, M., Oct-2020, In: *Aging Cell*. 19, 10, 14 p., e13237.

Prolonged hypoxia delays aging and preserves functionality of human amniotic fluid stem cells

Casciaro, F., Borghesan, M., Beretti, F., Zavatti, M., Bertucci, E., Follo, M. Y., Maraldi, T. & Demaria, M., Oct-2020, In: *Mechanisms of Ageing and Development*. 191, 10, 12 p., 111328.

Senescent Cells in Cancer Therapy: Friends or Foes?

Wang, B., Kohli, J. & Demaria, M., Oct-2020, In: *Trends in cancer*. 6, 10, p. 838-857 20 p.

Cellular senescence promotes skin carcinogenesis through p38MAPK and p44/p42MAPK signaling

Alimirah, F., Pulido, T., Valdovinos, A., Alptekin, S., Chang, E., Jones, E., Diaz, D. A., Flores, J., Velarde, M. C., Demaria, M., Davalos, A. R., Wiley, C. D., Limbad, C., Desprez, P-Y. & Campisi, J., Sep-2020, In: *Cancer Research*. 80, 7, p. 3606-3619 14 p.

Cellular senescence impairs the reversibility of pulmonary arterial hypertension

van der Feen, D. E., Bossers, G. P. L., Hagdorn, Q. A. J., Moonen, J-R., Kurakula, K., Szulcek, R., Chappell, J., Vallania, F., Donato, M., Kok, K., Kohli, J. S., Petersen, A. H., van Leusden, T., Demaria, M., Goumans, M-J. T. H., De Boer, R. A., Khatri, P., Rabinovitch, M., Berger, R. M. F. & Bartelds, B., 29-Jul-2020, In: *Science Translational Medicine*. 12, 554, 14 p., 4974.

Early ageing after cytotoxic treatment for testicular cancer and cellular senescence: Time to act

Lubberts, S., Meijer, C., Demaria, M. & Gietema, J. A., Jul-2020, In: *Critical Reviews in Oncology/Hematology*. 151, 8 p., 102963.

Link between increased cellular senescence and extracellular matrix changes in COPD

Woldhuis, R. R., de Vries, M., Timens, W., van den Berge, M., Demaria, M., Oliver, B. G. G., Heijink, I. H. & Brandsma, C-A., Jul-2020, In: *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 319, 1, p. L48-L60 13 p.

A bispecific inhibitor of the EGFR/ADAM17 axis decreases cell proliferation and migration of EGFR-dependent cancer cells

Soto-Gamez, A., Chen, D., Nabuurs, A. G. E., Quax, W. J., Demaria, M. & Boersma, Y. L., Feb-2020, In: *Cancers*. 12, 2, 14 p., 411.

SILAC Analysis Reveals Increased Secretion of Hemostasis-Related Factors by Senescent Cells

Wiley, C. D., Liu, S., Limbad, C., Zawadzka, A. M., Beck, J., Demaria, M., Artwood, R., Alimirah, F., Lopez-Dominguez, J-A., Kuehnemann, C., Danielson, S. R., Basisty, N., Kasler, H. G., Oron, T. R., Desprez, P-Y., Mooney, S. D., Gibson, B. W., Schilling, B., Campisi, J. & Kapahi, P., 24-Sep-2019, In: *Cell reports*. 28, 13, p. 3329-3337.e5

Restored immune cell functions upon clearance of senescence in the irradiated splenic environment

Palacio, L., Goyer, M-L., Maggiorani, D., Espinosa, A., Villeneuve, N., Bourbonnais, S., Moquin-Beaudry, G., Le, O., Demaria, M., Davalos, A. R., Decaluwe, H. & Beauséjour, C., Aug-2019, In: *Aging Cell*. 18, 4, 11 p., 12971.

Regulation of Survival Networks in Senescent Cells: From Mechanisms to Interventions

Soto-Gamez, A., Quax, W. J. & Demaria, M., 12-Jul-2019, In: *Journal of Molecular Biology*. 431, 15, p. 2629-2643 15 p.

Targeting senescent cells alleviates obesity-induced metabolic dysfunction

Palmer, A. K., Xu, M., Zhu, Y., Pirtskhalava, T., Weivoda, M. M., Hachfeld, C. M., Prata, L. G., van Dijk, T. H., Verkade, E., Casaclang-Verzosa, G., Johnson, K. O., Cubro, H., Doornebal, E. J., Ogrodnik, M., Jurk, D., Jensen, M. D., Chini, E. N., Miller, J. D., Matveyenko, A., Stout, M. B. & 13 others, Schafer, M. J., White, T. A., Hickson, L. J., Demaria, M., Garovic, V., Grande, J., Arriaga, E. A., Kuipers, F., von Zglinicki, T., LeBrasseur, N. K., Campisi, J., Tchkonja, T. & Kirkland, J. L., Jun-2019, In: *Aging Cell*. 18, 3, 15 p., 12950.

Cellular Senescence: Aging, Cancer, and Injury

Calcinotto, A., Kohli, J., Zagato, E., Pellegrini, L., Demaria, M. & Alimonti, A., Apr-2019, In: *Physiological reviews*. 99, 2, p. 1047-1078 32 p.

Identification of stable senescence-associated reference genes

Hernandez-Segura, A., Rubingh, R. & Demaria, M., Apr-2019, In: *Aging Cell*. 18, 2, 6 p., 12911.

Systemic clearance of p16INK4a -positive senescent cells mitigates age-associated intervertebral disc degeneration

Patil, P., Dong, Q., Wang, D., Chang, J., Wiley, C., Demaria, M., Lee, J., Kang, J., Niedernhofer, L. J., Robbins, P. D., Sowa, G., Campisi, J., Zhou, D. & Vo, N., 21-Mar-2019, (E-pub ahead of print) In: *Aging Cell*. 18, 3, 11 p., e12927.

Cellular Senescence: Defining a Path Forward

Gorgoulis, V., Adams, P. D., Alimonti, A., Bennett, D. C., Bischof, O., Bishop, C., Campisi, J., Collado, M., Evangelou, K., Ferbeyre, G., Gil, J., Hara, E., Krizhanovsky, V., Jurk, D., Maier, A. B., Narita, M., Niedernhofer, L., Passos, J. F., Robbins, P. D., Schmitt, C. A. & 6 others, Sedivy, J., Vougas, K., von Zglinicki, T., Zhou, D., Serrano, M. & Demaria, M., 2019, In: *Cell*. 179, 4, p. 813-827 15 p.

Caloric restriction and cellular senescence

Fontana, L., Nehme, J. & Demaria, M., Dec-2018, In: *Mechanisms of Ageing and Development*. 176, p. 19-23 5 p.

Biomarkers for cellular senescence

Demaria, M., 13-Sep-2018, Patent No. WO2018164580, Priority date 9-Mar-2017

Cellular senescence drives skin carcinogenesis

Alimirah, F., Valdovinos, A., Chang, E., Alptekin, S., Pulido, T., Jones, E., Limbad, C., Arde, M. V., Demaria, M., Davalos, A. & Campisi, J., Jul-2018, In: *Cancer Research*. 78, 13, 2 p.

Induction and Validation of Cellular Senescence in Primary Human Cells

Hernandez-Segura, A., Brandenburg, S. & Demaria, M., 20-Jun-2018, In: *Journal of visualized experiments : JoVE*. 136, 10 p., 57782.

Hallmarks of Cellular Senescence

Hernandez-Segura, A., Nehme, J. & Demaria, M., Jun-2018, In: *Trends in Cell Biology*. 28, 6, p. 436-453 18 p.

The effects of graded caloric restriction: XII. Comparison of mouse to human impact on cellular senescence in the colon

Fontana, L., Mitchell, S. E., Wang, B., Tosti, V., van Vliet, T., Veronese, N., Bertozzi, B., Early, D. S., Maissan, P., Speakman, J. R. & Demaria, M., Jun-2018, In: *Aging Cell*. 17, 3, 5 p., e12746.

Gene therapy for p16-overexpressing cells

Demaria, M., 19-Apr-2018, In: *Aging*. 10, 4, p. 518-519 2 p.

Cellular Senescence Is Induced by the Environmental Neurotoxin Paraquat and Contributes to Neuropathology Linked to Parkinson's Disease

Chinta, S. J., Woods, G., Demaria, M., Rane, A., Zou, Y., McQuade, A., Rajagopalan, S., Limbad, C., Madden, D. T., Campisi, J. & Andersen, J. K., 23-Jan-2018, In: *Cell reports*. 22, 4, p. 930-940 11 p.

A novel suicide gene therapy for the treatment of p16-overexpressing tumors

Kohli, J., Campisi, J. & Demaria, M., Jan-2018, In: *Oncotarget*. 9, 7, p. 7274-7281 8 p.

Unmasking Transcriptional Heterogeneity in Senescent Cells

Hernandez-Segura, A., de Jong, T. V., Melov, S., Guryev, V., Campisi, J. & Demaria, M., 11-Sep-2017, In: *Current Biology*. 27, 17, p. 2652-2660.e4 13 p.

Local clearance of senescent cells attenuates the development of post-traumatic osteoarthritis and creates a pro-regenerative environment

Jeon, O. H., Kim, C., Laberge, R-M., Demaria, M., Rathod, S., Vasserot, A. P., Chung, J. W., Kim, D. H., Poon, Y., David, N., Baker, D. J., van Deursen, J. M., Campisi, J. & Elisseeff, J. H., Jun-2017, In: *Nature Medicine*. 23, 6, p. 775-781 9 p.

Therapeutic interventions for aging: The case of cellular senescence

Soto-Gamez, A. & Demaria, M., May-2017, In: *Drug Discovery Today*. 22, 5, p. 786-795 10 p.

Animal models for cancer and uses thereof

Campisi, J., van Deursen, J. M. A., Kirkland, J. L., Tchkonja, T., Baker, D. J. & Demaria, M., 16-Feb-2017, Patent No. US20170042129, Priority date 23-Aug-2012

Animal models of age-related disorders and age-sensitive traits associated with senescence-inducing stimuli and uses thereof

van Deursen, J. M. A., Baker, D. J., Kirkland, J. L., Tchkonja, T., Campisi, J., Demaria, M. & Laberge, R-M., 2-Feb-2017, Patent No. US2017027139, Priority date 23-Aug-2012

Cellular Senescence Promotes Adverse Effects of Chemotherapy and Cancer Relapse

Demaria, M., O'Leary, M. N., Chang, J., Shao, L., Liu, S., Alimirah, F., Koenig, K., Le, C., Mitin, N., Deal, A. M., Alston, S., Academia, E. C., Kilmarx, S., Valdovinos, A., Wang, B., de Bruin, A., Kennedy, B. K., Melov, S., Zhou, D., Sharpless, N. E. & 2 others, Muss, H. & Campisi, J., Feb-2017, In: *Cancer discovery*. 7, 2, p. 165-176 12 p.

Compositions and methods for treating senescence-associated diseases and disorders.

Laberge, R-M., Campisi, J., Davalos, A., Lopez-Dominguez, J. A., Demaria, M., David, N., Vasserot, A. P., Baker, D. J., Childs, B. G., Kirkland, J. L., Tchkonja, T., van Deursen, J. M. A. & Zhu, Y., 12-Jan-2017, Patent No. WO2017008060, Priority date 8-Jul-2015

Cellular Senescence and Tumor Promotion

Demaria, M., 2017, *Geriatric Oncology*. Extermann, M. (ed.). Springer, p. 1-15 15 p.

Senescent cells: New target for an old treatment?

Demaria, M., 2017, In: *Molecular & Cellular Oncology*. 4, 3, 2 p., e1299666.

Cellular senescence induced by paraquat drives neuropathology associated with Parkinson's disease

Chinta, S. J., Woods, G., Demaria, M., Campisi, J. & Andersen, J. K., 21-Jun-2016, In: *Movement Disorders*. 31, p. S252-S252 1 p., 776.

Cellular senescence and tumor promotion: Is aging the key?

Loaiza, N. & Demaria, M., Apr-2016, In: *Biochimica et biophysica acta-Reviews on cancer*. 1865, 2, p. 155-167 13 p.

Clearance of senescent cells by ABT263 rejuvenates aged hematopoietic stem cells in mice

Chang, J., Wang, Y., Shao, L., Laberge, R-M., Demaria, M., Campisi, J., Janakiraman, K., Sharpless, N. E., Ding, S., Feng, W., Luo, Y., Wang, X., Aykin-Burns, N., Krager, K., Ponnappan, U., Hauer-Jensen, M., Meng, A. & Zhou, D., 2016, In: Nature Medicine. 22, p. 78-83 6 p.

Targeting Senescent Cells: Possible Implications for Delaying Skin Aging: A Mini-Review

Velarde, M. C. & Demaria, M., 2016, In: Gerontology. 62, 5, p. 513-518 6 p.

Simvastatin suppresses breast cancer cell proliferation induced by senescent cells

Liu, S., Uppal, H., Demaria, M., Desprez, P-Y., Campisi, J. & Kapahi, P., 14-Dec-2015, In: Scientific Reports. 5, 11 p., 17895.

The DNA damage response induces inflammation and senescence by inhibiting autophagy of GATA4

Kang, C., Xu, Q., Martin, T. D., Li, M. Z., Demaria, M., Aron, L., Lu, T., Yankner, B. A., Campisi, J. & Elledge, S. J., 25-Sep-2015, In: Science. 349, 6255, p. aaa5612

Pleiotropic age-dependent effects of mitochondrial dysfunction on epidermal stem cells

Velarde, M. C., Demaria, M., Melov, S. & Campisi, J., 18-Aug-2015, In: Proceedings of the National Academy of Sciences of the United States of America. 112, 33, p. 10407-12 6 p.

Cellular senescence and the aging brain

Chinta, S. J., Woods, G., Rane, A., Demaria, M., Campisi, J. & Andersen, J. K., Aug-2015, In: Experimental Gerontology. 68, p. 3-7 5 p.

MTOR regulates the pro-tumorigenic senescence-associated secretory phenotype by promoting IL1A translation

Laberge, R-M., Orjalo, A. V., Patil, C. K., Freund, A., Zhou, L., Curran, S. C., Davalos, A. R., Wilson-Edell, K. A., Liu, S., Limbad, C., Demaria, M., Li, P., Hubbard, G. B., Ikeno, Y., Javors, M., Desprez, P-Y., Benz, C. C., Kapahi, P., Nelson, P. S. & Campisi, J., Aug-2015, In: Nature Cell Biology. 17, 8, p. 1049-61 13 p.

Cell Autonomous and Non-Autonomous Effects of Senescent Cells in the Skin

Demaria, M., Desprez, P. Y., Campisi, J. & Velarde, M. C., Jul-2015, In: Journal of Investigative Dermatology. 135, 7, p. 1722-6 5 p.

p53 and rapamycin are additive

Christy, B., Demaria, M., Campisi, J., Huang, J., Jones, D., Dodds, S. G., Williams, C., Hubbard, G., Livi, C. B., Gao, X., Weintraub, S., Curiel, T., Sharp, Z. D. & Hasty, P., 30-Jun-2015, In: Oncotarget. 6, 18, p. 15802-13 12 p.

Of flies, mice, and men: evolutionarily conserved tissue damage responses and aging

Neves, J., Demaria, M., Campisi, J. & Jasper, H., 12-Jan-2015, In: Developmental Cell. 32, 1, p. 9-18 10 p.

An essential role for senescent cells in optimal wound healing through secretion of PDGF-AA

Demaria, M., Ohtani, N., Youssef, S. A., Rodier, F., Toussaint, W., Mitchell, J. R., Laberge, R-M., Vijg, J., Van Steeg, H., Dollé, M. E. T., Hoeijmakers, J. H. J., de Bruin, A., Hara, E. & Campisi, J., 22-Dec-2014, In: Developmental Cell. 31, 6, p. 722-733 12 p.

STAT3 and metabolism: how many ways to use a single molecule?

Demaria, M., Camporeale, A. & Poli, V., 1-Nov-2014, In: International Journal of Cancer. 135, 9, p. 1997-2003 7 p.

CELLULAR SENESCENCE AND BRAIN AGING

Chinta, S. J., Wood, G., Lieu, C., Rane, A., DeMaria, M., Campisi, J. & Andersen, J. K., Nov-2014, In: Free Radical Biology and Medicine. 76, 1, p. S3-S3 1 p.

STAT3 Activities and Energy Metabolism: Dangerous Liaisons

Camporeale, A., Demaria, M., Monteleone, E., Giorgi, C., Wieckowski, M. R., Pinton, P. & Poli, V., 2014, In: *Cancers*. 6, 3, p. 1579-96 18 p.

Environmental stress, ageing and glial cell senescence: a novel mechanistic link to Parkinson's disease?

Chinta, S. J., Lieu, C. A., Demaria, M., Laberge, R-M., Campisi, J. & Andersen, J. K., 2013, In: *Journal of Internal Medicine*. 273, 5, p. 429-36 8 p.

Mitochondrial DNA damage induces apoptosis in senescent cells

Laberge, R-M., Adler, D., DeMaria, M., Mechtouf, N., Teachenor, R., Cardin, G. B., Desprez, P-Y., Campisi, J. & Rodier, F., 2013, In: *Cell death & disease*. 4, 8 p., e727.

Senescent cells and their secretory phenotype as targets for cancer therapy

Velarde, M. C., Demaria, M. & Campisi, J., 2013, In: *Interdisciplinary Topics in Gerontology*. 38, p. 17-27 11 p.

Glucocorticoids suppress selected components of the senescence-associated secretory phenotype

Laberge, R-M., Zhou, L., Sarantos, M. R., Rodier, F., Freund, A., de Keizer, P. L. J., Liu, S., Demaria, M., Cong, Y-S., Kapahi, P., Desprez, P-Y., Hughes, R. E. & Campisi, J., Aug-2012, In: *Aging Cell*. 11, 4, p. 569-78 10 p.

Matters of life and breath: A role for hypoxia in determining cell state

Demaria, M. & Campisi, J., Aug-2012, In: *Aging*. 4, 8, p. 523-524 2 p.

STAT3 can serve as a hit in the process of malignant transformation of primary cells

Demaria, M., Misale, S., Giorgi, C., Miano, V., Camporeale, A., Campisi, J., Pinton, P. & Poli, V., Aug-2012, In: *Cell death and differentiation*. 19, 8, p. 1390-7 8 p.

PKM2, STAT3 and HIF-1 α : The Warburg's vicious circle

Demaria, M. & Poli, V., 1-Jul-2012, In: *JAK-STAT*. 1, 3, p. 194-6 3 p.

From tissue invasion to glucose metabolism: the many aspects of signal transducer and activator of transcription 3 pro-oncogenic activities

Pensa, S., Demaria, M., Avalle, L., Barbieri, I., Camporeale, A. & Poli, V., Jun-2012, In: *Hormone Molecular Biology and Clinical Investigation*. 10, 1, p. 217-25 9 p.

Lamin B1 loss is a senescence-associated biomarker

Freund, A., Laberge, R-M., Demaria, M. & Campisi, J., Jun-2012, In: *Molecular Biology of the Cell*. 23, 11, p. 2066-2075 10 p.

Hypoxia-inducible factor-1 and neuroglobin expression

Haines, B., Demaria, M., Mao, X., Xie, L., Campisi, J., Jin, K. & Greenberg, D. A., 18-Apr-2012, In: *Neuroscience Letters*. 514, 2, p. 137-40 4 p.

Pro-malignant properties of STAT3 during chronic inflammation

Demaria, M. & Poli, V., Apr-2012, In: *Oncotarget*. 3, 4, p. 359-60 2 p.

A mouse model for spatial and temporal expression of HGF in the heart

Riess, I., Sala, V., Leo, C., Demaria, M., Gatti, S., Gallo, S., Fitou, A., Boero, O., Levi, R., Cuccovillo, I., Molla, F., De Angelis, N., Staszewsky, L., Latini, R. & Crepaldi, T., Dec-2011, In: *Transgenic Research*. 20, 6, p. 1203-16 14 p.

From the nucleus to the mitochondria and back: the odyssey of a multitask STAT3

Demaria, M. & Poli, V., 2011, In: *Cell Cycle*. 10, 19, p. 3221-2 2 p.

A STAT3-mediated metabolic switch is involved in tumour transformation and STAT3 addiction

Demaria, M., Giorgi, C., Lebedzinska, M., Esposito, G., D'Angeli, L., Bartoli, A., Gough, D. J., Turkson, J., Levy, D. E., Watson, C. J., Wieckowski, M. R., Provero, P., Pinton, P. & Poli, V., Nov-2010, In: *Aging*. 2, 11, p. 823-842 20 p.

Constitutively active Stat3 enhances neu-mediated migration and metastasis in mammary tumors via upregulation of Cten
Barbieri, I., Pensa, S., Pannellini, T., Quaglino, E., Maritano, D., Demaria, M., Voster, A., Turkson, J., Cavallo, F., Watson, C. J., Provero, P., Musiani, P. & Poli, V., 2010, In: Cancer Research. 70, 6, p. 2558-67 10 p.

Selected international meetings

- Montagna Symposium on Biology of the Skin. Gleneden Beach, USA. 9-13 October 2014: Poster Session
- Bay Area Aging Meeting (BAAM). UC Berkeley; Berkeley USA, 25 May 2014: Poster session
- The science of staying younger longer. QB3 Symposium; San Francisco, USA. 25 October 2013: Poster Session
- Gordon Conference on Biology of Aging. Il Ciocco; Barga, Italy. 11-16 August 2013: Poster Session
- Bay Area Aging Meeting (BAAM). Buck Institute; Novato, USA. 25 November 2012: Oral Presentation
- Senescence and healthspan. Third Annual Robert and Arlene Kogod Center on Aging Conference. Mayo Clinic; Rochester, USA. 8-10 November 2012: Poster Session
- Inflammation in Aging and Aging-Related disease. Nathan Shock Aging Center 2011 Conference on Aging; Bandera, USA. 13-16 October 2011: Oral Presentation
- FEBS. 36th FEBS Congress. Turin, Italy. 25-30 June 2011: Oral Presentation
- Society of Cellular Biology and Differentiation (ABCD). Annual Congress ABCD; Naples, Italy. 6-9 June 2009: Oral Presentation
- Italian Federation for Life Sciences (FISV). XII Annual Congress FISV; Riva del Garda, Italy. 24-27 September 2008: Poster Session
- Metabolism and Cancer. Symposium CIG; University of Lausanne; Lausanne, Switzerland. 6-9 June 2008: Poster session
- Jak-Stat Signalling symposium. University of Medicine; Wien, Austria. 25 September 2007: Oral Presentation
- Stats Stories. European Workshop; Paris, France. 7-8 June 2007: Poster Session
- Keystone. Keystone Symposium on "Jaks, Stats and Immunity"; Steamboat Springs USA, 5-10 January 2007: Poster Session
- Italian Federation for Life Sciences (FISV). X Annual Congress FISV; Riva del garda, Italy. 28 September-1 October 2006: Oral Presentation