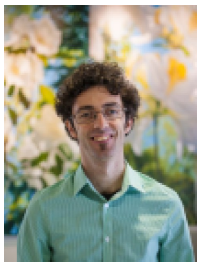
Marco Demaria
Molecular Oncology (MO)
Senescence, Stem Cells, and Inflammation (SSI)



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

Effects of nutritional interventions on biomarkers of cellular senescence in humans: A systematic review
Lin, Y., Altulea, A. & Demaria, M., Oct-2026, In: Ageing Research Reviews. 121, 18 p., 103224.

Disruption of CDK4/6-RARα-NF-κB axis attenuates senescence-associated inflammation and improves function during aging and following chemotherapy
Wang, B., Piccolantonio, A., Altulea, A., Huang, M., Joshi, T., Pagliarin, F., Di Palma, M., Lin, Y., Mackedenski, S., Ustyantsev, K., Jager, C., Berezikov, E. & Demaria, M., Sept-2026, In: Nature Aging. 6, p. 1814-1828 32 p.

SenFlag gene signature identifies senescent cells in mouse and human tissues through a conserved core transcriptional program
Altulea, A., Mackedenski, S., Nehme, J. & Demaria, M., 3-Aug-2026, In: EMBO Journal. 45, 15, p. 5580-5606 27 p.

Misha Blagosklonny: a life of ideas
Gems, D. & Demaria, M., Aug-2026, In: Aging. 18, p. 934-939 6 p.

Response to: Limitations of the p16-3MR mouse model for detecting and eliminating senescent cells
Wang, B., Nehme, J. & Demaria, M., 10-Jul-2026, In: Embo Reports. 27, 13, p. 3535-3537 3 p.

CDK4/6 Inhibitor-Induced Senescence in Cancer: Mechanisms and Therapeutic Implications
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Dual role of MIF in aging and cellular senescence
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Public health in the age of longevity interventions: from prevention to system-wide resilience
Mierau, J. & Demaria, M., 18-May-2026, In: Aging. 18, 1, p. 572-574 3 p.

The Role of CaV3.2 T-type calcium channels in normal hearing and acquired hearing loss
Pardawala, Z., Persic, D., Rajda, K., Gheorghe, T., Demaria, M. & Pyott, S. J., May-2026, In: Cell calcium. 135, 13 p., 103138.

Toward actionable interventions in human aging (12th ARDD meeting, 2025)
Dekan, A., Lore, S., Yoon, Y. E., Sjöholm, A., Tyshkovskiy, A., Terskikh, A., Cuervo, A. M., Georgievskaya, A., Heinz, A., Seluanov, A., Adams, A., Tsai, A. P., Murray, A., Brunet, A., Harten, A. M. V., Spier, A., Shenhar, B., Pedersen, B. K., Clasen, B. & Schumacher, B. & 85 others, Kennedy, B. K., Suetta, C., Volbracht, C., Kuppe, C., Cookson, C., Ewald, C. Y., Banila, C., Cai, D., Valenzano, D. R., Lamming, D. W., Rudnic, E., Samra, E. B., Teeling, E., Verdin, E., Fang, E. F., Fagagna, F. D. D., Galkin, F., Zmudze, G., Jasper, H., Jang, I. H., Han, J.-D. J., Justice, J., Hoeijmakers, J. H. J., Ramos, J. M. P., Lemaitre, J.-M., Aerssens, J., Betts-LaCroix, J., Newman, J. C., Belmonte, J. C. I., Kawamura, K., Schaal, K. M., Egerton, K., Abdelmohsen, K., Fortney, K., Hartenstein, L., Niedernhofer, L., Katsimpardi, L., Melton, L., Knudsen, L. B., Ferrucci, L., Sylow, L., Demaria, M., Schafer, M. J., Guasch-Ferré, M., Borch-Jensen, M., Kholin, M., Antonov, M., Levitt, M., Deleidi, M., Merad, M., Meldal, M., Topors, M., Venkatesan, M., LeBrasseur, N. K., Anzinger, N., Fedichev, P., Kohlhaas, P., Mullen, P. J., Singhal, P., Cabo, R. D., Houtkooper, R. H., Montgomery, R., Smith, R., Rosenzweig-Lipson, S., Jakimov, S., Horvath, S., Austad, S., Rando, T. A., White, T., Zuber, T., Rozmaric, T., Wyss-Coray, T., Tammela, T., Gladyshev, V. N., Sinatti, V. V. C., Wang, W., Harborne, W., Liu, X., Wang, X. L., Suh, Y., Lee, Y., Koch, Z., Zhavoronkov, A., Scheibye-Knudsen, M. & Bakula, D., 6-Apr-2026, In: Aging. 18, 1, p. 282-302 21 p.

Advancing senescence translation through the Senotherapeutics Biomarker Consortium
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Integrative Omics Reveal Female-Specific Benefits of p16+ Cell Clearance in Aging Mice.
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Longevity clinics: between promise and peril
Demaria, M., 31-Oct-2025, In: Aging. 17, 10, p. 2452-2454 3 p.

Cancer treatments accelerate ageing
Demaria, M., Oct-2025, In: Nature reviews cancer. 25, p. 751–752 2 p.

Short-Term Severe Energy Restriction Promotes Molecular Health and Reverses Aging Signatures in Adults With Prediabetes in the PREVIEW Study
Cagigas, M. L., Masedunskas, A., Lin, Y., Emery-Corbin, S. J., Yousef, J. M., Dagley, L. F., Olechnowicz, S., Bowden, R., Hayward, R., Low, G., Muirhead, R., Brand-Miller, J., Fogeltholm, M., Raben, A., Demaria, M., Fuller, S. J. & Fontana, L., Aug-2025, In: Aging Cell. 24, 8, 19 p., e70123.

Rethinking healthcare through aging biology
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Pharmacological CDK4/6 inhibition promotes vulnerability to lysosomotropic agents in breast cancer
Nehme, J., Maassen, S., Bravaccini, S., Zanoni, M., Gianni, C., De Giorgi, U., Soto-Gamez, A., Altulea, A., Gheorghe, T., Wang, B. & Demaria, M., Apr-2025, In: The EMBO Journal. 44, p. 1921 - 1942 22 p.

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The senescence-associated secretory phenotype and its physiological and pathological implications
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Guidelines for minimal information on cellular senescence experimentation in vivo
Ogrodnik, M., Carlos Acosta, J., Adams, P. D., d'Adda di Fagagna, F., Baker, D. J., Bishop, C. L., Chandra, T., Collado, M., Gil, J., Gorgoulis, V., Gruber, F., Hara, E., Jansen-Dürr, P., Jurk, D., Khosla, S., Kirkland, J. L., Krizhanovsky, V., Minamino, T., Niedernhofer, L. J. & Passos, J. F. & 12 others, Ring, N. A. R., Redl, H., Robbins, P. D., Rodier, F., Scharffetter-Kochanek, K., Sedivy, J. M., Sikora, E., Witwer, K., von Zglinicki, T., Yun, M. H., Grillari, J. & Demaria, M., 8-Aug-2024, In: Cell. 187, 16, p. 4150-4175 26 p.

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One-step rapid tracking and isolation of senescent cells in cellular systems, tissues, or animal models via GLF16
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On the past, present and future of senotherapeutics
Quarta, M. & Demaria, M., 3-Feb-2024, In: npj aging. 10, 2 p., 11.

Cellular senescence in brain aging and neurodegeneration
Melo Dos Santos, L. S., Trombetta-Lima, M., Eggen, B. & Demaria, M., Jan-2024, In: Ageing Research Reviews. 93, 12 p. , 102141.

Change in telomere length and cardiovascular risk factors in testicular cancer survivors
Volders, E. L. D., Meijer, C., Steeneken, L. S., Lubberts, S., Zwart, N., van Roon, A. M., Lefrandt, J. D., de Jong, I. J., Demaria, M., Nuver, J. & Gietema, J. A., Jan-2024, In: Urologic Oncology: Seminars and Original Investigations. 42, 1, p. 24.e1-24.e8 8 p.

Mesenchymal stem cell-derived HGF attenuates radiation-induced senescence in salivary glands via compensatory proliferation
Soto-Gamez, A. A., van Es, M., Hageman, E., Serna-Salas, S. A., Moshage, H., Demaria, M., Pringle, S. & Coppes, R. P. , Jan-2024, In: Radiotherapy and Oncology. 190, 109984.

In-vivo screening implicates endoribonuclease Regnase-1 in modulating senescence-associated lysosomal changes
Venz, R., Goyala, A., Soto-Gamez, A., Yenice, T., Demaria, M. & Ewald, C. Y., 2024, In: GeroScience. 46, p. 1499–1514 16 p.

Circulating monocytes expressing senescence-associated features are enriched in COVID-19 patients with severe disease
Lin, Y., Postma, D. F., Steeneken, L. S., Melo Dos Santos, L. S., Kirkland, J. L., Espindola-Netto, J. M., Tchkonia, T., Borghesan, M., Bouma, H. R. & Demaria, M., Dec-2023, In: Aging Cell. 22, 12, 5 p., e14011.

A fluorophore-conjugated reagent enabling rapid detection, isolation and live tracking of senescent cells
Magkouta, S., Veroutis, D., Pousias, A., Papaspyropoulos, A., Pippa, N., Lougiakis, N., Kambas, K., Lagopati, N., Polyzou, A., Georgiou, M., Chountoulesi, M., Pispas, S., Foutadakis, S., Pouli, N., Marakos, P., Kotsinas, A., Verginis, P., Valakos, D., Mizi, A. & Papantonis, A. & 10 others, Vatsellas, G., Galanos, P., Bartek, J., Petty, R., Serrano, M., Thanos, D., Roussos, C., Demaria, M., Evangelou, K. & Gorgoulis, V. G., 5-Oct-2023, In: Molecular Cell. 83, 19, p. 3558-3573.e7 23 p.

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Papaspyropoulos, A., Hazapis, O., Altulea, A., Polyzou, A., Verginis, P., Evangelou, K., Fousteri, M., Papantonis, A., Demaria, M. & Gorgoulis, V., Sept-2023, In: Aging Cell. 22, 9, 21 p., e13893.

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Linders, A. N., Dias, I. B., Ovchinnikova, E. S., Vermeer, M. C. S. C., Hoes, M. F., Markousis Mavrogenis, G., Deiman, F. E., Arevalo Gomez, K. F., Bliley, J. M., Nehme, J., Vink, A., Gietema, J., de Boer, R. A., Westenbrink, D., Sillje, H. H. W., Hilfiker-Kleiner, D., van Laake, L. W., Feinberg, A. W., Demaria, M. & Bomer, N. & 1 others, van der Meer, P., Jun-2023, In: Jacc: cardiooncology. 5, 3, p. 298-315 18 p.

The effects of macronutrients metabolism on cellular and organismal aging
Nehme, J., Altulea, A., Gheorghe, T. & Demaria, M., Jun-2023, In: Biomedical Journal. 46, 3, 12 p., 100585.

High dietary protein and fat contents exacerbate hepatic senescence and SASP in mice
Nehme, J., Yang, D., Altulea, A., Varela-Eirin, M., Wang, L., Hu, S., Wu, Y., Togo, J., Niu, C., Speakman, J. R. & Demaria, M., Mar-2023, In: The FEBS Journal. 290, 5, p. 1340-1347 8 p.

Long-term intensive endurance exercise training is associated to reduced markers of cellular senescence in the colon mucosa of older adults
Demaria, M., Bertozzi, B., Veronese, N., Spelta, F., Cava, E., Tosti, V., Piccio, L., Early, D. S. & Fontana, L., 27-Feb-2023 , In: npj aging. 9, 5 p., 3.

Cellular senescence and cardiovascular diseases: Moving to the "heart" of the problem
Evangelou, K., Vasileiou, P. V. S., Papaspyropoulos, A., Hazapis, O., Petty, R., Demaria, M. & Gorgoulis, V. G., Jan-2023 , In: Physiological reviews. 103, 1, p. 609-647 39 p.

Targeting anti-apoptotic pathways eliminates senescent melanocytes and leads to nevi regression
Kohli, J., Ge, C., Fitsiou, E., Doepner, M., Brandenburg, S. M., Faller, W. J., Ridky, T. W. & Demaria, M., Dec-2022, In: Nature Communications. 13, 12 p., 7923.

Senescence and cancer: role and therapeutic opportunities
Schmitt, C. A., Wang, B. & Demaria, M., Oct-2022, In: Nature Reviews Clinical Oncology. 19, 10, p. 619–636

Prognostic implications of cellular senescence in resected non-small cell lung cancer
Domen, A., Deben, C., De Pauw, I., Hermans, C., Lambrechts, H., Verswyvel, J., Siozopoulou, V., Pauwels, P., Demaria, M., van de Wiel, M., Janssens, A., Hendriks, J. M. H., Van Schil, P., Vermorken, J. B., Vandamme, T., Prenen, H., Peeters, M., Lardon, F. & Wouters, A., Aug-2022, In: Translational lung cancer research. 11, 8, p. 1526-1539 14 p.

Simple Detection of Unstained Live Senescent Cells with Imaging Flow Cytometry
Malavolta, M., Giacconi, R., Piacenza, F., Strizzi, S., Cardelli, M., Bigossi, G., Marcozzi, S., Tiano, L., Marcheggiani, F., Matacchione, G., Giuliani, A., Olivieri, F., Crivellari, I., Beltrami, A. P., Serra, A., Demaria, M. & Provinciali, M., Aug-2022, In: Cells. 11, 16, 20 p., 2506.

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