



UNIVERSITÀ DEGLI STUDI DI TORINO

CURRICULUM VITAE

GENERAL INFORMATION

CV Stefania Cannito

Nationality: Italian

Place/date of birth: Torino (Italy), 23/10/1980

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CURRENT/PAST POSITION

- July 8th 2004: Degree in Biological Sciences at the Faculty of Science MFN of the University of Turin.
- 2004-05: Research Fellow, Regione Piemonte
- 2005-09: PhD Student - University of Torino, Italy
- December 10th 2009: PhD in Experimental Pathology and Oncology, University of Torino, Italy.
- 2009-10: Research Fellow, Regione Piemonte
- 2010-11: Research Fellow, Bossolasco Foundation, University of Torino
- February 1st 2012 – April 30th 2018: post-doc research fellow, Dept. Clinical and biological Sciences, University of Torino, Italy.
- 15/06/2018-15/06/2021: researcher RTDA, Dept. Clinical and biological Sciences, University of Torino, Italy.
- Current position: researcher RTDB
- 2016-2018: ASN 2016-2018 (Competition Sector 06/A2, II Fascia) duration from 31.10.2018 to 31.10.2027.

TEACHING ACTIVITY:

- **Master's Degree in Medicine and Surgery** - General Pathology
- **Master of Science in Medical Biotechnology** – Molecular, Cell, and Genetic bases of human diseases
- **Master's degree in diagnostic techniques of the health professions** - Search 3
- **Master's degree in environmental and workplace prevention techniques** - Pathogenesis of damages

RESEARCH FUNDS

- **2014:** Fondazione Cariplo's grant "Ricerca Biomedica condotta da Giovani Ricercatori". Project "Parainflammation-driven fibrogenesis in fibrocystin-defective liver disease (CHF)", PI of Turin partner
- **2022:** Fondazione CRT's grant. Project "Oncostatina M e "signature" infiammatoria del tumore come biomarcatori prognostici del carcinoma epatocellulare correlato alla NASH".
- **2018-2022:** Local Research funds, University of Torino

SCIENTIFIC ASSOCIATIONS

- Associazione Italiana per lo Studio del Fegato (A.I.S.F).
- Società Italiana Cancerologia (SIC).
- The European Association for Cancer Research (EACR).



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RESEARCH MAIN TOPICS

- Development and progression of hepatocellular cancer and chronic hepatopathies (NAFLD and NASH), investigating specifically: a) role of oxidative stress, reactive oxygen species (ROS) and other reactive intermediates in the pathogenesis of hepatic fibrosis, with particular emphasis on modulation against phenotypic responses (proliferation, synthesis and remodelling of extracellular matrix, resistance to induction of apoptosis, chemotaxis) of liver stellate cells activated to myofibroblastic phenotype (HSC/mfs), the main pro-fibrogenic cells in experimental models and in clinical conditions of chronic hepatopathies; b) analysis of the role of hypoxia and angiogenesis in the fibrogenic progression of chronic hepatopathies, with a particular interest in the dual role of hepatic myofibroblasts (cellular elements capable of synthesizing pro-angiogenic cytokines, such as VEGF-A and Angiopoietin 1, and responding to their action); c) identification of the role of hypoxia, and related mechanisms, as a condition capable of modulating the epithelial-mesenchymal transition (EMT) and increased invasiveness in human neoplastic cell lines of various origin (HepG2, HT-29, PANC-1 and MCF-7). This line of research includes experimental studies on biopsies and/or sections obtained from cirrhotic patients carrying hepatocellular carcinoma (HCC) aimed at evaluate i) the correlations between hypoxia and induction of Serpina-B3 expression, serine-protease inhibitor over-expressed in HCC and peri-tumour cirrhotic liver and capable of inducing epithelium-mesenchymal transition in hepatic-derived neoplastic cells (HepG2, HUH7), ii) the possible prognostic significance of the correlations between hypoxia, expression of SERPIN-B3 and progression of neoplasms in HCC-carrying human cirrhotic patients, iii) the correlations between hypoxia and Oncostatin M, pleiotropic cytokine belonging to the family of hyper-expressed IL-6 in the cirrhotic liver capable of modulating hypoxia-dependent liver processes (such as progression, regeneration and angiogenesis) contributing to the progression of chronic liver hepatopathies towards the development of HCC by modulating several aspects of cancer progression: a) angiogenesis (up-regulating endothelial cell growth factor, VEGF-A), b) metastasis (promoting EMT and increased invasiveness), c) pro-tumoral inflammation (modulating phenotypical switch to M2 polarization), d) immune escape reaction (favouring immunosuppressive microenvironment). Also in this case the possible prognostic significance of this correlation with the progression of neoplasms in human cirrhotic patients carrying HCC will be evaluated.

PUBLICATIONS

H INDEX = 26

1. PMID: 34359934

[Hypoxia, Hypoxia-Inducible Factors and Liver Fibrosis.](#)

Foglia B, Novo E, Protopapa F, Maggiora M, Bocca C, Cannito S, Parola M. *Cells*. 2021 Jul 13;10(7):1764. doi: 10.3390/cells10071764. PMID: 34359934 **Free PMC article.** Review.

□ 2. PMID: 35874657

[Serpina3 as a Pro-Inflammatory Mediator in the Progression of Experimental Non-Alcoholic Fatty Liver Disease.](#)

Novo E, Cappon A, Villano G, Quarta S, Cannito S, Bocca C, Turato C, Guido M, Maggiora M, Protopapa F, Sutti S, Provera A, Ruvoletto M, Biasiolo A, Foglia B, Albano E, Pontisso P, Parola M. *Front Immunol*. 2022 Jul 8;13:910526. doi: 10.3389/fimmu.2022.910526. eCollection 2022. PMID: 35874657 **Free PMC article.**



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3. PMID: 35064579

[Oncostatin M is overexpressed in NASH-related hepatocellular carcinoma and promotes cancer cell invasiveness and angiogenesis.](#)

Di Maira G, Foglia B, Napione L, Turato C, Maggiora M, Sutti S, Novo E, Alvaro M, Autelli R, Colombatto S, Bussolino F, Carucci P, Gaia S, Rosso C, Biasiolo A, Pontisso P, Bugianesi E, Albano E, Marra F, Parola M, Cannito S. *J Pathol.* 2022 May;257(1):82-95. doi: 10.1002/path.5871. Epub 2022 Mar 7. PMID: 35064579 **Free PMC article.**

4. PMID: 28578015

[Therapeutic pro-fibrogenic signaling pathways in fibroblasts.](#)

Cannito S, Novo E, Parola M. *Adv Drug Deliv Rev.* 2017 Nov 1;121:57-84. doi: 10.1016/j.addr.2017.05.017. Epub 2017 Jun 1. PMID: 28578015 **Free article.** Review.

5. PMID: 36691794

[Inflammatory processes involved in NASH-related hepatocellular carcinoma.](#)

Cannito S, Dianzani U, Parola M, Albano E, Sutti S. *Biosci Rep.* 2023 Jan 31;43(1):BSR20221271. doi: 10.1042/BSR20221271. PMID: 36691794 **Free PMC article.** Review.

6. PMID: 19688698

[Angiogenesis and liver fibrogenesis.](#)

Valfrè di Bonzo L, Novo E, Cannito S, Busletta C, Paternostro C, Povero D, Parola M. *Histol Histopathol.* 2009 Oct;24(10):1323-41. doi: 10.14670/HH-24.1323. PMID: 19688698 **Free article.** Review.

7. PMID: 32524998

[Liver fibrogenesis: un update on established and emerging basic concepts.](#)

Novo E, Bocca C, Foglia B, Protopapa F, Maggiora M, Parola M, Cannito S. *Arch Biochem Biophys.* 2020 Aug 15;689:108445. doi: 10.1016/j.abb.2020.108445. Epub 2020 Jun 7. PMID: 32524998 **Free article.** Review.

8. PMID: 30518128

[Fibroinflammatory Liver Injuries as Preneoplastic Condition in Cholangiopathies.](#)

Cannito S, Milani C, Cappon A, Parola M, Strazzabosco M, Cadamuro M. *Int J Mol Sci.* 2018 Dec 4;19(12):3875. doi: 10.3390/ijms19123875. PMID: 30518128 **Free PMC article.** Review.

9. PMID: 36077744

[Oncostatin M: From Intracellular Signaling to Therapeutic Targets in Liver Cancer.](#)

Caligiuri A, Gitto S, Lori G, Marra F, Parola M, Cannito S, Gentilini A. *Cancers (Basel).* 2022 Aug 30;14(17):4211. doi: 10.3390/cancers14174211. PMID: 36077744 **Free PMC article.** Review.



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10. PMID: 34639123

[GPR21 Inhibition Increases Glucose-Uptake in HepG2 Cells.](#)

Kinsella GK, Cannito S, Bordano V, Stephens JC, Rosa AC, Miglio G, Guaschino V, Iannaccone V, Findlay JBC, Benetti E. *Int J Mol Sci.* 2021 Oct 5;22(19):10784. doi: 10.3390/ijms221910784. PMID: 34639123 **Free PMC article.**

11. PMID: 35883770

[Hepatic Myofibroblasts: A Heterogeneous and Redox-Modulated Cell Population in Liver Fibrogenesis.](#)

Bocca C, Protopapa F, Foglia B, Maggiore M, Cannito S, Parola M, Novo E. *Antioxidants (Basel).* 2022 Jun 28;11(7):1278. doi: 10.3390/antiox11071278. PMID: 35883770 **Free PMC article.** Review.

12. PMID: 24631571

[Cellular and molecular mechanisms in liver fibrogenesis.](#)

Novo E, Cannito S, Paternostro C, Bocca C, Miglietta A, Parola M. *Arch Biochem Biophys.* 2014 Apr 15;548:20-37. doi: 10.1016/j.abb.2014.02.015. Epub 2014 Mar 11. PMID: 24631571 **Free article.** Review.

13. PMID: 37108625

[Metabolic Reprogramming of HCC: A New Microenvironment for Immune Responses.](#)

Foglia B, Beltrà M, Sutti S, Cannito S. *Int J Mol Sci.* 2023 Apr 18;24(8):7463. doi: 10.3390/ijms24087463. PMID: 37108625 **Free PMC article.** Review.

14. PMID: 25896393

[Hepatic myofibroblasts and fibrogenic progression of chronic liver diseases.](#)

Novo E, Cannito S, Morello E, Paternostro C, Bocca C, Miglietta A, Parola M. *Histol Histopathol.* 2015 Sep;30(9):1011-32. doi: 10.14670/HH-11-623. Epub 2015 Apr 21. PMID: 25896393 **Free article.** Review.

15. PMID: 31159366

[ERK Pathway in Activated, Myofibroblast-Like, Hepatic Stellate Cells: A Critical Signaling Crossroad Sustaining Liver Fibrosis.](#)

Foglia B, Cannito S, Bocca C, Parola M, Novo E. *Int J Mol Sci.* 2019 Jun 1;20(11):2700. doi: 10.3390/ijms20112700. PMID: 31159366 **Free PMC article.** Review.

16. PMID: 27777942

[In vivo reprogramming of hepatic myofibroblasts into hepatocytes attenuates liver fibrosis: back to the future?](#)

Novo E, Cannito S, Parola M. *Stem Cell Investig.* 2016 Sep 29;3:53. doi: 10.21037/sci.2016.09.08. eCollection 2016. PMID: 27777942 **Free PMC article.** No abstract available.



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17. PMID: 23996844

[Hypoxia, hypoxia-inducible factors and fibrogenesis in chronic liver diseases.](#)

Cannito S, Paternostro C, Busletta C, Bocca C, Colombatto S, Miglietta A, Novo E, Parola M. *Histol Histopathol.* 2014 Jan;29(1):33-44. doi: 10.14670/HH-29.33. Epub 2013 Sep 2. PMID: 23996844 **Free article.** Review.

18. PMID: 20552556

[Liver fibrosis: a dynamic and potentially reversible process.](#)

Povero D, Busletta C, Novo E, di Bonzo LV, Cannito S, Paternostro C, Parola M. *Histol Histopathol.* 2010 Aug;25(8):1075-91. doi: 10.14670/HH-25.1075. PMID: 20552556 **Free article.** Review.
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19. PMID: 19782946

[Hepatic myofibroblasts: a heterogeneous population of multifunctional cells in liver fibrogenesis.](#)

Novo E, di Bonzo LV, Cannito S, Colombatto S, Parola M. *Int J Biochem Cell Biol.* 2009 Nov;41(11):2089-93. doi: 10.1016/j.biocel.2009.03.010. Epub 2009 Mar 31. PMID: 19782946 **Free article.** Review.

20. PMID: 35537492

[G protein-coupled receptor 21 in macrophages: An in vitro study.](#)

Bordano V, Kinsella GK, Cannito S, Dianzani C, Gigliotti CL, Stephens JC, Monge C, Bocca C, Rosa AC, Miglio G, Dianzani U, Findlay JBC, Benetti E. *Eur J Pharmacol.* 2022 Jul 5;926:175018. doi: 10.1016/j.ejphar.2022.175018. Epub 2022 May 7. PMID: 35537492 **Free article.**

21. PMID: 20527027

[SERPINB3 induces epithelial-mesenchymal transition.](#)

Quarta S, Vidalino L, Turato C, Ruvoletto M, Calabrese F, Valente M, Cannito S, Fassina G, Parola M, Gatta A, Pontisso P. *J Pathol.* 2010 Jul;221(3):343-56. doi: 10.1002/path.2708. PMID: 20527027

22. PMID: 19903090

[Epithelial-mesenchymal transition: from molecular mechanisms, redox regulation to implications in human health and disease.](#)

Cannito S, Novo E, di Bonzo LV, Busletta C, Colombatto S, Parola M. *Antioxid Redox Signal.* 2010 Jun 15;12(12):1383-430. doi: 10.1089/ars.2009.2737. PMID: 19903090 Review.

23. PMID: 34655812

[Hepatocyte-Specific Deletion of HIF2 \$\alpha\$ Prevents NASH-Related Liver Carcinogenesis by Decreasing Cancer Cell Proliferation.](#)

Foglia B, Sutti S, Cannito S, Rosso C, Maggiore M, Autelli R, Novo E, Bocca C, Villano G, Ramavath NN, Younes R, Tusa I, Rovida E, Pontisso P, Bugianesi E, Albano E, Parola M. *Cell Mol Gastroenterol*



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Hepatol. 2022;13(2):459-482. doi: 10.1016/j.jcmgh.2021.10.002. Epub 2021 Oct 14. PMID: 34655812 **Free PMC article.**

24. PMID: 28935635

[Serp1b3 is overexpressed in the liver in presence of iron overload.](#)

Turato C, Kent P, Sebastiani G, Cannito S, Morello E, Terrin L, Biasiolo A, Simonato D, Parola M, Pantopoulos K, Pontisso P. *J Investig Med.* 2018 Jan;66(1):32-38. doi: 10.1136/jim-2017-000473. Epub 2017 Sep 20. PMID: 28935635 **Free article.**

25. PMID: 28611447

[Serp1b3 Promotes Pro-fibrogenic Responses in Activated Hepatic Stellate Cells.](#)

Novo E, Villano G, Turato C, Cannito S, Paternostro C, Busletta C, Biasiolo A, Quarta S, Morello E, Bocca C, Miglietta A, David E, Sutti S, Plebani M, Albano E, Parola M, Pontisso P. *Sci Rep.* 2017 Jun 13;7(1):3420. doi: 10.1038/s41598-017-03744-3. PMID: 28611447 **Free PMC article.**

26. PMID: 26634820

[Serp1b3 and Yap Interplay Increases Myc Oncogenic Activity.](#)

Turato C, Cannito S, Simonato D, Villano G, Morello E, Terrin L, Quarta S, Biasiolo A, Ruvoletto M, Martini A, Fasolato S, Zanus G, Cillo U, Gatta A, Parola M, Pontisso P. *Sci Rep.* 2015 Dec 4;5:17701. doi: 10.1038/srep17701. PMID: 26634820 **Free PMC article.**

27. PMID: 25544768

[Hypoxia up-regulates SERP1B3 through HIF-2 \$\alpha\$ in human liver cancer cells.](#)

Cannito S, Turato C, Paternostro C, Biasiolo A, Colombatto S, Cambieri I, Quarta S, Novo E, Morello E, Villano G, Fasolato S, Musso T, David E, Tusa I, Rovida E, Autelli R, Smedile A, Cillo U, Pontisso P, Parola M. *Oncotarget.* 2015 Feb 10;6(4):2206-21. doi: 10.18632/oncotarget.2943. PMID: 25544768 **Free PMC article.**

28. PMID: 35164326

[Hyaluronated and PEGylated Liposomes as a Potential Drug-Delivery Strategy to Specifically Target Liver Cancer and Inflammatory Cells.](#)

Cannito S, Bincoletto V, Turato C, Pontisso P, Scupoli MT, Ailuno G, Andreana I, Stella B, Arpicco S, Bocca C. *Molecules.* 2022 Feb 4;27(3):1062. doi: 10.3390/molecules27031062. PMID: 35164326 **Free PMC article.**

29. PMID: 31861914

[Oncostatin M, A Profibrogenic Mediator Overexpressed in Non-Alcoholic Fatty Liver Disease, Stimulates Migration of Hepatic Myofibroblasts.](#)

Foglia B, Sutti S, Pedicini D, Cannito S, Bocca C, Maggiora M, Bevacqua MR, Rosso C, Bugianesi E, Albano E, Novo E, Parola M. *Cells.* 2019 Dec 20;9(1):28. doi: 10.3390/cells9010028. PMID: 31861914 **Free PMC article.**



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□ 30. PMID: 30094463

[Fifteenth Meeting of the Network Italiano per la Bioterapia dei Tumori \(NIBIT\) on Cancer Bio-Immunotherapy, Siena, Italy, October 5-7, 2017.](#)

Maio M, Lofiego MF, Fazio C, Cannito S, Chiarucci C, Giacobini G, Valente M, Tunic P, Covre A, Russo V. *Cancer Immunol Immunother.* 2019 Jan;68(1):151-158. doi: 10.1007/s00262-018-2222-0. Epub 2018 Aug 9. PMID: 30094463 No abstract available.

□ 31. PMID: 29266399

[Hypoxia-inducible factor 2 \$\alpha\$ drives nonalcoholic fatty liver progression by triggering hepatocyte release of histidine-rich glycoprotein.](#)

Morello E, Sutti S, Foglia B, Novo E, Cannito S, Bocca C, Rajskey M, Bruzzi S, Abate ML, Rosso C, Bozzola C, David E, Bugianesi E, Albano E, Parola M. *Hepatology.* 2018 Jun;67(6):2196-2214. doi: 10.1002/hep.29754. Epub 2018 Apr 19. PMID: 29266399 **Free article.**

□ 32. PMID: 28954213

[Effects of the rare elements lanthanum and cerium on the growth of colorectal and hepatic cancer cell lines.](#)

Benedetto A, Bocca C, Brizio P, Cannito S, Abete MC, Squadrone S. *Toxicol In Vitro.* 2018 Feb;46:9-18. doi: 10.1016/j.tiv.2017.09.024. Epub 2017 Sep 24. PMID: 28954213 **Free article.**

□ 33. PMID: 19800873

[CLA reduces breast cancer cell growth and invasion through ER \$\alpha\$ and PI3K/Akt pathways.](#)

Bocca C, Bozzo F, Cannito S, Colombatto S, Miglietta A. *Chem Biol Interact.* 2010 Jan 5;183(1):187-93. doi: 10.1016/j.cbi.2009.09.022. PMID: 19800873 **Free article.**

□ 34. PMID: 25183205

[The mitogen-activated protein kinase ERK5 regulates the development and growth of hepatocellular carcinoma.](#)

Rovida E, Di Maira G, Tusa I, Cannito S, Paternostro C, Navari N, Vivoli E, Deng X, Gray NS, Esparís-Ogando A, David E, Pandiella A, Dello Sbarba P, Parola M, Marra F. *Gut.* 2015 Sep;64(9):1454-65. doi: 10.1136/gutjnl-2014-306761. Epub 2014 Sep 2. PMID: 25183205 **Free article.**

□ 35. PMID: 31817100

[SerpB3 Differently Up-Regulates Hypoxia Inducible Factors -1 \$\alpha\$ and -2 \$\alpha\$ in Hepatocellular Carcinoma: Mechanisms Revealing Novel Potential Therapeutic Targets.](#)

Cannito S, Foglia B, Villano G, Turato C, Delgado TC, Morello E, Pin F, Novo E, Napione L, Quarta S, Ruvoletto M, Fasolato S, Zanus G, Colombatto S, Lopitz-Otsoa F, Fernández-Ramos D, Bussolino F, Sutti S, Albano E, Martínez-Chantar ML, Pontisso P, Parola M. *Cancers (Basel).* 2019 Dec 4;11(12):1933. doi: 10.3390/cancers11121933. PMID: 31817100 **Free PMC article.**



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36. PMID: 18791199

[Redox mechanisms switch on hypoxia-dependent epithelial-mesenchymal transition in cancer cells.](#)

Cannito S, Novo E, Compagnone A, Valfrè di Bonzo L, Busletta C, Zamara E, Paternostro C, Povero D, Bandino A, Bozzo F, Cravanzola C, Bravoco V, Colombatto S, Parola M. *Carcinogenesis*. 2008 Dec;29(12):2267-78. doi: 10.1093/carcin/bgn216. Epub 2008 Sep 12. PMID: 18791199

37. PMID: 18343708

[Beta-catenin triggers nuclear factor kappaB-dependent up-regulation of hepatocyte inducible nitric oxide synthase.](#)

Bandino A, Compagnone A, Bravoco V, Cravanzola C, Lomartire A, Rossetto C, Novo E, Cannito S, Valfrè di Bonzo L, Zamara E, Autelli R, Parola M, Colombatto S. *Int J Biochem Cell Biol*. 2008;40(9):1861-71. doi: 10.1016/j.biocel.2008.01.029. Epub 2008 Feb 7. PMID: 18343708

38. PMID: 29408139

[Hyaluronated mesoporous silica nanoparticles for active targeting: influence of conjugation method and hyaluronic acid molecular weight on the nanovector properties.](#)

Ricci V, Zonari D, Cannito S, Marengo A, Scupoli MT, Malatesta M, Carton F, Boschi F, Berlier G, Arpicco S. *J Colloid Interface Sci*. 2018 Apr 15;516:484-497. doi: 10.1016/j.jcis.2018.01.072. Epub 2018 Jan 31. PMID: 29408139 **Free article.**

39. PMID: 17525262

[Proangiogenic cytokines as hypoxia-dependent factors stimulating migration of human hepatic stellate cells.](#)

Novo E, Cannito S, Zamara E, Valfrè di Bonzo L, Caligiuri A, Cravanzola C, Compagnone A, Colombatto S, Marra F, Pinzani M, Parola M. *Am J Pathol*. 2007 Jun;170(6):1942-53. doi: 10.2353/ajpath.2007.060887. PMID: 17525262 **Free PMC article.**

40. PMID: 28249038

[Microvesicles released from fat-laden cells promote activation of hepatocellular NLRP3 inflammasome: A pro-inflammatory link between lipotoxicity and non-alcoholic steatohepatitis.](#)

Cannito S, Morello E, Bocca C, Foglia B, Benetti E, Novo E, Chiazza F, Rogazzo M, Fantozzi R, Povero D, Sutti S, Bugianesi E, Feldstein AE, Albano E, Collino M, Parola M. *PLoS One*. 2017 Mar 1;12(3):e0172575. doi: 10.1371/journal.pone.0172575. eCollection 2017. PMID: 28249038 **Free PMC article.**

41. PMID: 21959987

[The biphasic nature of hypoxia-induced directional migration of activated human hepatic stellate cells.](#)

Novo E, Povero D, Busletta C, Paternostro C, di Bonzo LV, Cannito S, Compagnone A, Bandino A, Marra F, Colombatto S, David E, Pinzani M, Parola M. *J Pathol*. 2012 Mar;226(4):588-97. doi: 10.1002/path.3005. Epub 2011 Dec 5. PMID: 21959987 **Free article.**



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42. PMID: 21882253

[Celecoxib inactivates epithelial-mesenchymal transition stimulated by hypoxia and/or epidermal growth factor in colon cancer cells.](#)

Bocca C, Bozzo F, Cannito S, Parola M, Miglietta A. *Mol Carcinog.* 2012 Oct;51(10):783-95. doi: 10.1002/mc.20846. Epub 2011 Aug 31. PMID: 21882253 **Free article.**

43. PMID: 24325753

[Expression of Cox-2 in human breast cancer cells as a critical determinant of epithelial-to-mesenchymal transition and invasiveness.](#)

Bocca C, Ievolella M, Autelli R, Motta M, Mosso L, Torchio B, Bozzo F, Cannito S, Paternostro C, Colombatto S, Parola M, Miglietta A. *Expert Opin Ther Targets.* 2014 Feb;18(2):121-35. doi: 10.1517/14728222.2014.860447. Epub 2013 Dec 11. PMID: 24325753 **Free article.**

44. PMID: 21563276

[Dissection of the biphasic nature of hypoxia-induced motogenic action in bone marrow-derived human mesenchymal stem cells.](#)

Busletta C, Novo E, Valfrè Di Bonzo L, Povero D, Paternostro C, Ievolella M, Mareschi K, Ferrero I, Cannito S, Compagnone A, Bandino A, Colombatto S, Fagioli F, Parola M. *Stem Cells.* 2011 Jun;29(6):952-63. doi: 10.1002/stem.642. PMID: 21563276 **Free article.**

45. PMID: 21145826

[Intracellular reactive oxygen species are required for directional migration of resident and bone marrow-derived hepatic pro-fibrogenic cells.](#)

Novo E, Busletta C, Bonzo LV, Povero D, Paternostro C, Mareschi K, Ferrero I, David E, Bertolani C, Caligiuri A, Cannito S, Tamagno E, Compagnone A, Colombatto S, Marra F, Fagioli F, Pinzani M, Parola M. *J Hepatol.* 2011 May;54(5):964-74. doi: 10.1016/j.jhep.2010.09.022. Epub 2010 Oct 31. PMID: 21145826 **Free article.**

46. PMID: 17639088

[Human mesenchymal stem cells as a two-edged sword in hepatic regenerative medicine: engraftment and hepatocyte differentiation versus profibrogenic potential.](#)

di Bonzo LV, Ferrero I, Cravanzola C, Mareschi K, Rustichell D, Novo E, Sanavio F, Cannito S, Zamara E, Bertero M, Davit A, Francica S, Novelli F, Colombatto S, Fagioli F, Parola M. *Gut.* 2008 Feb;57(2):223-31. doi: 10.1136/gut.2006.111617. Epub 2007 Jul 16. PMID: 17639088

47. PMID: 16423888

[Overexpression of Bcl-2 by activated human hepatic stellate cells: resistance to apoptosis as a mechanism of progressive hepatic fibrogenesis in humans.](#)

Novo E, Marra F, Zamara E, Valfrè di Bonzo L, Monitillo L, Cannito S, Petrai I, Mazzocca A, Bonacchi A, De Franco RS, Colombatto S, Autelli R, Pinzani M, Parola M. *Gut.* 2006 Aug;55(8):1174-82. doi: 10.1136/gut.2005.082701. Epub 2006 Jan 19. PMID: 16423888 **Free PMC article.**



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□ 48. PMID: 16041064

[Dose dependent and divergent effects of superoxide anion on cell death, proliferation, and migration of activated human hepatic stellate cells.](#)

Novo E, Marra F, Zamara E, Valfrè di Bonzo L, Caligiuri A, Cannito S, Antonaci C, Colombatto S, Pinzani M, Parola M. *Gut*. 2006 Jan;55(1):90-7. doi: 10.1136/gut.2005.069633. Epub 2005 Jul 24. PMID: 16041064 **Free PMC article.**