

2019

- Lavigne J, Suissa A, Verger N, Dos Santos M, Benadjaoud M, Mille-Hamard L, Momken I, Soysouvanh F, Buard V, Guipaud O, Paget V, Tarlet G, Milliat F, François A. Lung Stereotactic Arc Therapy in Mice: Development of Radiation Pneumopathy and Influence of HIF-1 α Endothelial Deletion
Int J Radiat Oncol Biol Phys. 2019 Jun 1;104(2):279-290
- Moussa L, Demarquay C, Réthoré G, Benadjaoud MA, Siñeriz F, Pattapa G, Guicheux J, Weiss P, Barritault D, Mathieu N. Heparan Sulfate Mimetics: A New Way to Optimize Therapeutic Effects of Hydrogel-Embedded Mesenchymal Stromal Cells in Colonic Radiation-Induced Damage
Sci Rep. 2019 Jan 17;9(1):164.
- François S, Usunier B, Forgue-Lafitte ME, L'Homme B, Benderitter M, Douay L, Gorin NC, Larsen AK, Chapel A. Mesenchymal Stem Cell Administration Attenuates Colon Cancer Progression by Modulating the Immune Component within the Colorectal Tumor Microenvironment
Stem Cells Transl Med. 2019 Mar;8(3):285-300

2018

- Heinonen M, Milliat F, Benadjaoud MA, François A, Buard V, Tarlet G, d'Alché-Buc F, Guipaud O. Temporal clustering analysis of endothelial cell gene expression following exposure to a conventional radiotherapy dose fraction using Gaussian process clustering
PLoS One. 2018 Oct 3;13(10):e0204960.
- Dos Santos M, Paget V, Ben Kacem M, Tromprier F, Benadjaoud MA, François A, Guipaud O, Benderitter M, Milliat F. Importance of dosimetry protocol for cell irradiation on a low X-rays facility and consequences for the biological response
Int J Radiat Biol. 2018 Jun;94(6):597-606.
- Guipaud O, Jaillet C, Clément-Colmou K, François A, Supiot S, Milliat F. The importance of the vascular endothelial barrier in the immune-inflammatory response induced by radiotherapy
Br J Radiol. 2018 Sep;91(1089):20170762.
- Linard C, Brachet M, L'homme B, Strup-Perrot C, Busson E, Bonneau M, Lataillade JJ, Bey E, Benderitter M. Long-term effectiveness of local BM-MSCs for skeletal muscle regeneration: a proof of concept obtained on a pig model of severe radiation burn
Stem Cell Res Ther. 2018 Nov 8;9(1):299. doi: 10.1186/s13287-018-1051-6.
- Linard C, Brachet M, Strup-Perrot C, L'homme B, Busson E, Squiban C, Holler V, Bonneau M, Lataillade JJ, Bey E, Benderitter M. Autologous Bone Marrow Mesenchymal Stem Cells Improve the Quality and Stability of Vascularized Flap Surgery of Irradiated Skin in Pigs
Stem Cells Transl Med. 2018 Aug;7(8):569-582
- Milliat F, François A. [The roles of mast cells in radiation-induced damage are still an enigma]
Med Sci (Paris). 2018 Feb;34(2):145-154
- Zappa M, Doblas S, Cazals-Hatem D, Milliat F, Lavigne J, Daniel F, Jallane A, Garteiser P, Vilgrain V, Ogier-Denis E, Van Beers BE. Quantitative MRI in murine radiation-induced rectocolitis: comparison with histopathological inflammation score
NMR Biomed. 2018 Apr;31(4):e3897.

2017

- Lavigne J, Soysouvanh F, Buard V, Tarlet G, Guipaud O, Paget V, Milliat F, François A. Conditional Plasminogen Activator Inhibitor Type 1 Deletion in the Endothelial Compartment Has No Beneficial Effect on Radiation-Induced Whole-Lung Damage in Mice. *Int J Radiat Oncol Biol Phys.* 2017 Jul 11. 2017 Nov 15;99(4):972-982
- Toullec A, Buard V, Rannou E, Tarlet G, Guipaud O, Robine S, Iruela-Arispe M. L, François A, Milliat F. HIF-1 α Deletion in the Endothelium, but Not in the Epithelium, Protects From Radiation-Induced Enteritis. *Cellular and Molecular Gastroenterology and Hepatology* 2017 Aug 16;5(1):15-30.
- Van de putte D, Demarquay C, Van Daele E, Moussa L, Vanhove C, Benderitter M, Ceelen W, Pattyn P, Mathieu N. Adipose-derived mesenchymal stromal cells improve the healing of colonic anastomoses following high dose of irradiation through anti-inflammatory and angiogenic processes. *Cell Transplantation* 2017 Dec;26(12):1919-1930
- François S, Eder V, Belmokhtar K, Machel MC, Douay L, Gorin NC, Benderitter M, Alain A. Synergistic effect of human Bone Morphogenetic Protein-2 and Mesenchymal Stromal Cells on chronic wounds through hypoxia-inducible factor-1 α induction. *Sci Rep.* 2017 Jun 27;7(1):4272

- Moussa L, Pattappa G, Doix B, Benselama SL, Demarquay C, Benderitter M, Sémont A, Tamarat R, Guicheux J, Weiss P, Réthoré G, Mathieu N. A biomaterial-assisted mesenchymal stromal cell therapy alleviates colonic radiation-induced damage. *Biomaterials*. 2017 Jan;115:40-52. doi: 10.1016/j.biomaterials.2016.11.017.
- Jaillet C, Morelle W, Slomianny MC, Paget V, Tarlet G, Buard V, Selbonne S, Caffin F, Rannou E, Martinez P, François A, Foulquier F, Allain F, Milliat F, Guipaud O. Radiation-induced changes in the glycome of endothelial cells with functional consequences. *Sci Rep*. 2017 Jul 13;7(1):5290. doi: 10.1038/s41598-017-05563-y.
- Mintet E, Lavigne J, Paget V, Tarlet G, Buard V, Guipaud O, Sabourin JC, Iruela-Arispe ML, Milliat F, François A. Endothelial Hey2 deletion reduces endothelial-to-mesenchymal transition and mitigates radiation proctitis in mice. *Sci Rep*. 2017 Jul 10;7(1):4933. doi: 10.1038/s41598-017-05389-8.
- Wu Q, Allouch A, Paoletti A, Leteur C, Mirjolet C, Martins I, Voisin L, Law F, Dakhli H, Mintet E, Thoreau M, Muradova Z, Gauthier M, Caron O, Milliat F, Ojcius DM, Rosselli F, Solary E, Modjtahedi N, Deutsch E, Perfettini JL. NOX2-dependent ATM kinase activation dictates pro-inflammatory macrophage phenotype and improves effectiveness to radiation therapy. *Cell Death Differ*. 2017 Sep;24(9):1632-1644. doi: 10.1038/cdd.2017.91.
- Loinard C, Vilar J, Milliat F, Lévy B, Benderitter M. Monocytes/Macrophages Mobilization Orchestrate Neovascularization after Localized Colorectal Irradiation. *Radiat Res*. 2017 May;187(5):549-561. doi: 10.1667/RR14398.1.

2016

- Moussa L, Usunier B, Demarquay C, Benderitter M, Tamarat R, Sémont A, Mathieu N. Bowel Radiation Injury: Complexity of the Pathophysiology and Promises of Cell and Tissue Engineering. *Cell Transplant*. 2016 Oct;25(10):1723-1746. doi: 10.3727/096368916X691664
- Linard C, Strup-Perrot C, Lacave-Lapalun JV, Benderitter M. Flagellin preconditioning enhances the efficacy of mesenchymal stem cells in an irradiation-induced proctitis model. *J Leukoc Biol*. 2016 Sep;100(3):569-80. doi: 10.1189/jlb.3A0915-393R.

2015

- Rannou E, François A, Toullec A, Guipaud O, Buard V, Tarlet G, Mintet E, Jaillet C, Iruela-Arispe ML, Benderitter M, Sabourin JC, Milliat F. In vivo evidence for an endothelium-dependent mechanism in radiation-induced normal tissue injury. *Sci Rep*. 2015 Oct 29;5:15738. doi: 10.1038/srep15738.
- Mintet E, Rannou E, Buard V, West G, Guipaud O, Tarlet G, Sabourin JC, Benderitter M, Fiocchi C, Milliat F, François A. Identification of Endothelial-to-Mesenchymal Transition as a Potential Participant in Radiation Proctitis. *Am J Pathol*. 2015 Sep;185(9):2550-62. doi: 10.1016/j.ajpath.2015.04.028.
- Durand C, Pezet S, Eutamène H, Demarquay C, Mathieu N, Moussa L, Daudin R, Holler V, Sabourin JC, Milliat F, François A, Theodorou V, Tamarat R, Benderitter M, Sémont A. Persistent visceral allodynia in rats exposed to colorectal irradiation is reversed by mesenchymal stromal cell treatment. *Pain*. 2015 Aug;156(8):1465-76. doi: 10.1097/
- Blirando K, Mintet E, Buard V, Sabourin JC, Benderitter M, Milliat F, François A. Osteopontin knockout does not influence the severity of rectal damage in a preclinical model of radiation proctitis in mice. *Dig Dis Sci*. 2015 Jun;60(6):1633-44. doi: 10.1007/s10620-014-3520-9.
- Heinonen M, Guipaud O, Milliat F, Buard V, Micheau B, Tarlet G, Benderitter M, Zehraoui F, d'Alché-Buc F. Detecting time periods of differential gene expression using Gaussian processes: an application to endothelial cells exposed to radiotherapy dose fraction. *Bioinformatics*. 2015 Mar 1;31(5):728-35. doi: 10.1093/bioinformatics/btu699.
- Bléry P, Espitalier F, Hays A, Crauste E, Demarquay C, Pilet P, Sourice S, Guicheux J, Malard O, Benderitter M, Weiss P, Mathieu N. Development of mandibular osteoradionecrosis in rats: Importance of dental extraction. *J Craniomaxillofac Surg*. 2015 Nov;43(9):1829-36. doi: 10.1016/j.jcms.2015.08.016.
- Bessout R, Demarquay C, Moussa L, René A, Doix B, Benderitter M, Sémont A, Mathieu N. TH17 predominant T-cell responses in radiation-induced bowel disease are modulated by treatment with adipose-derived mesenchymal stromal cells. *J Pathol*. 2015 Dec;237(4):435-46. doi: 10.1002/path.4590.
- Linard C, Tissedre F, Busson E, Holler V, Leclerc T, Strup-Perrot C, Couty L, L'homme B, Benderitter M, Lafont A, Lataillade JJ, Coulomb B. Therapeutic potential of gingival fibroblasts for cutaneous radiation syndrome: comparison to bone marrow-mesenchymal stem cell grafts. *Stem Cells Dev*. 2015 May 15;24(10):1182-93. doi: 10.1089/scd.2014.0486.
- François S, Usunier B, Douay L, Benderitter M, Chapel A. Long-Term Quantitative Biodistribution and Side Effects of Human Mesenchymal Stem Cells (hMSCs) Engraftment in NOD/SCID Mice following Irradiation. *Stem Cells Int*. 2014;2014:939275. doi: 10.1155/2014/939275. Epub 2014 Feb 11.

2014

- Lacave-Lapalun JV, Benderitter M, Linard C. Flagellin and LPS each restores rat lymphocyte populations after colorectal irradiation. *J Leukoc Biol*. 2014 Jun;95(6):931-40. doi: 10.1189/jlb.0413209.
- Bessout R, Sémont A, Demarquay C, Charcosset A, Benderitter M, Mathieu N. Mesenchymal stem cell therapy induces glucocorticoid synthesis in colonic mucosa and suppresses radiation-activated T cells: new insights into MSC immunomodulation. *Mucosal Immunol*. 2014 May;7(3):656-69. doi: 10.1038/mi.2013.85.

2013

- Francois S, Mouiseddine M, Allenet-Lepage B, Voswinkel J, Douay L, Benderitter M, Chapel A. Human mesenchymal stem cells provide protection against radiation-induced liver injury by antioxidative process, vasculature protection, hepatocyte differentiation, and trophic effects. *Biomed Res Int.* 2013;2013:151679. doi: 10.1155/2013/151679.
- Chapel A, Francois S, Douay L, Benderitter M, Voswinkel J. New insights for pelvic radiation disease treatment: Multipotent stromal cell is a promise mainstay treatment for the restoration of abdominopelvic severe chronic damages induced by radiotherapy. *World J Stem Cells.* 2013 Oct 26;5(4):106-11.
- Sémont A, Demarquay C, Bessout R, Durand C, Benderitter M, Mathieu N. Mesenchymal stem cell therapy stimulates endogenous host progenitor cells to improve colonic epithelial regeneration. *PLoS One.* 2013 Jul 29;8(7):e70170. doi: 10.1371/journal.pone.0070170.
- Chaze T, Hornez L, Chambon C, Haddad I, Vinh J, Peyrat JP, Benderitter M, Guipaud O. Serum Proteome Analysis for Profiling Predictive Protein Markers Associated with the Severity of Skin Lesions Induced by Ionizing Radiation. *Proteomes.* 2013 Jul 10;1(2):40-69. doi: 10.3390/proteomes1020040.
- François A, Milliat F, Guipaud O, Benderitter M. Inflammation and immunity in radiation damage to the gut mucosa. *Biomed Res Int.* 2013;2013:123241. doi: 10.1155/2013/123241.
- Lacavé-Lapalun JV, Benderitter M, Linard C. Flagellin or lipopolysaccharide treatment modified macrophage populations after colorectal radiation of rats. *J Pharmacol Exp Ther.* 2013 Jul;346(1):75-85. doi: 10.1124/jpet.113.204040
- Chaze T, Slomianny MC, Milliat F, Tarlet G, Lefebvre-Darroman T, Gourmelon P, Bey E, Benderitter M, Michalski JC, Guipaud O. Alteration of the serum N-glycome of mice locally exposed to high doses of ionizing radiation. *Mol Cell Proteomics.* 2013 Feb;12(2):283-301. doi: 10.1074/mcp.M111.014639.

2012

- Blirando K, Hneino M, Martelly I, Benderitter M, Milliat F, François A. Mast cells and ionizing radiation induce a synergistic expression of inflammatory genes in endothelial cells by a mechanism involving p38 α MAP kinase and (p65) NF- κ B activation. *Radiat Res.* 2012 Dec;178(6):556-67. doi: 10.1667/RR3058.1.
- Hneino M, Blirando K, Buard V, Tarlet G, Benderitter M, Hoodless P, François A, Milliat F. The TG-interacting factor TGIF1 regulates stress-induced proinflammatory phenotype of endothelial cells. *J Biol Chem.* 2012 Nov 9;287(46):38913-21. doi: 10.1074/jbc.M112.388389.
- Ebrahimian TG, Squiban C, Roque T, Lugo-Martinez H, Hneino M, Buard V, Gourmelon P, Benderitter M, Milliat F, Tamarat R. Plasminogen activator inhibitor-1 controls bone marrow-derived cells therapeutic effect through MMP9 signaling: role in physiological and pathological wound healing. *Stem Cells.* 2012 Jul;30(7):1436-46. doi: 10.1002/stem.1126.
- Hneino M, François A, Buard V, Tarlet G, Abderrahmani R, Blirando K, Hoodless PA, Benderitter M, Milliat F. The TGF- β /Smad repressor TG-interacting factor 1 (TGIF1) plays a role in radiation-induced intestinal injury independently of a Smad signaling pathway. *PLoS One.* 2012;7(5):e35672. doi: 10.1371/journal.pone.0035672.
- Abderrahmani R, François A, Buard V, Tarlet G, Blirando K, Hneino M, Vaurijoux A, Benderitter M, Sabourin JC, Milliat F. PAI-1-dependent endothelial cell death determines severity of radiation-induced intestinal injury. *PLoS One.* 2012;7(4):e35740. doi: 10.1371/journal.pone.0035740.
- Linard C, Billiard F, Benderitter M. Intestinal irradiation and fibrosis in a Th1-deficient environment. *Int J Radiat Oncol Biol Phys.* 2012 Sep 1;84(1):266-73. doi: 10.1016/j.ijrobp.2011.11.027.

2011

- Blirando K *et al.* 2011. Mast Cells Are an Essential Component of Human Radiation Proctitis and Contribute to Experimental Colorectal Damage in Mice. *American Journal of Pathology*, 178(2):640-51