Curriculum Vitae

Personal information

Marc Benderitter

Work experience

Current appointment

- Deputy Director of the Health Division, Autorité de Sûreté Nucléaire et de Radioprotection, France (Since 2022)
- Coordinator of the Health Unit of the Crisis Centre of the Autorité de Sûreté Nucléaire et de Radioprotection, France (Since 2023)
- Member of the scientific council of the National network of laboratories for Biotox-Piratox-Piratome threat detection MoH-France (Since 2020)
- Member of the National "Operational coordination of Nuclear and radiological risk" MoH-France (Since 2025)

Previous employments

- Head of the Department of Radiobiology and Epidemiology, Institut de Radioprotection et de Sûreté Nucléaire, France (2014-2021). Management of a group of 54 scientists and 20 PhD students/post-docs. Strategy and R&D project management (European project, ANR-INCa-BPI France project), technical frame: Radiopathology, Radiotoxicology, Epidemiology, Biological Dosimetry, Medical countermeasures, Stem cell therapy (exposure in case of nuclear and radiological emergencies, medical exposure, environmental exposure).
- Head of the research unit in Radio-pathology and Experimental Therapy - Institut de Radioprotection et de Sûreté Nucléaire (2009-2013). Management of a group of 17 scientists and 10 PhD students /post-doc. Strategy and R&D project management, technical frame: Radiopathology, Biological Dosimetry, Medical countermeasure, Stem cell therapy (exposure in case of nuclear and radiological emergencies and medical exposure).
- Head of the research unit in Radiopathology - Institut de Radioprotection et de Sûreté Nucléaire (2002-2008). Management of a group of 8 scientists and 5 PhD/postdocs. Strategy and R&D project management, technical frame: Radiopathology, radiobiology (exposure in case of nuclear and radiological emergencies and medical exposure).

Education and training

Academic record

- French Habilitation to Coordinate Research (HDR) in Molecular Biology, Université de Versailles Saint Quentin en Yvelines-France, 1999
- PhD in Pathophysiology-Pharmacology. Université de Bourgogne, 1995

Additional information

Publications

Other relevant information (e.g., Publications): 137 publications in peer review journal, including 70 in the topic of radiological and nuclear emergency, h-index 39

1. **M Benderitter**, P Arnautou, C Bartels, D Benchetrit, L Bordea, S Buruiana, B Cessac, S Choquet, S Klymenko, K Lyzinski, JV Malfuson, Y Morel, M Mothy, S Nica, JM Philippe, R Powles1, C Smallwood, L Stenke, T Steponkus, R Tamarat, A Tanase, A Trzos, Z Kenbayeva. A European approach for acute radiation syndrome's management facing radiological and nuclear threats: A call for arms. Disaster Medicine and public Health Preparedness 2025.

2. Ancel L, Grison S, Gabillot O, Gueguen J, Svilar L, Guen BL, Gruel G, **Benderitter M**, Martin JC, Souidi M, Tamarat R, Flamant S, Benadjaoud MA. Metabolomics identifies plasma biomarkers of localized radiation injury. Sci Rep. 2025 Jan 16;15(1):2166.
3. Tamarat R, Satyamitra MM, **Benderitter M**, DiCarlo AL. Radiation-induced gastrointestinal and cutaneous injuries: understanding models, pathologies, assessments, and clinically accepted practices. Int J Radiat Biol. 2024;100(7):969-981.
4. Ancel L, Gabillot O, Szurewsky C, Granger R, Sache A, Voyer F, Gruel G, Illiano S, **Benderitter M**, Le Guen B, Souidi M, Benadjaoud MA, Flamant S. microRNA blood signature for localized radiation injury. Sci Rep. 2024 Feb 1;14(1):2681.
5. Martin JC, Pourcher T, Phan G, Guglielmi J, Crambes C, Caire-Maurisier F, Lebsir D, Cohen D, Rosique C, Jing L, Hichri M, Salleron L, Darcourt J, Souidi M, **Benderitter M**. Review of the PRIODAC project on thyroid protection from radioactive iodine by repeated iodine intake in individuals aged 12. Eur Thyroid J. 2024 Jan 1;13(1):e230139.
6. Piau O, Brunet-Manquat M, L'Homme B, Petit L, Birebent B, Linard C, Moeckes L, Zuliani T, Lapillonne H, **Benderitter M**, Douay L, Chapel A, Guyonneau-Harmand L, Jaffredo T. Generation of transgene-free

hematopoietic stem cells from human induced pluripotent stem cells. Cell Stem Cell. 2023 Dec 7;30(12):1610-1623.e7.
7. Ribault A, Benadjaoud MA, Squiban C, Arnaud L, Judicone C, Leroyer AS, Rousseau A, Huet C, Guha C, **Benderitter M**, Lacroix R, Flamant S, Chen EI, Simon JM, Tamarat R. Circulating microvesicles correlate with radiation proctitis complication after radiotherapy. Sci Rep. 2023 Feb 4;13(1):2033.
8. Loinard C, Ribault A, Lhomme B, **Benderitter M**, Flamant S, Paul S, Dubois V, Lai RC, Lim SK, Tamarat R. HuMSC-EV induce monocyte/macrophage mobilization to orchestrate neovascularization in wound healing process following radiation injury. Cell Death Discov. 2023 Feb 1;9(1):38.
9. Gaouaoui-Azouaou H, L'Homme B, Benadjaoud MA, Sache-Aloui A, Granger R, Voyer F, Lestaevel P, Gruel G, Caire-Maurisier F, Crambes C, Dare-Doyen S, **Benderitter M**, Souidi M. Protection and safety of a repeated dosage of KI for iodine thyroid blocking during pregnancy. J Radiol Prot. 2022
10. **Benderitter M**, Herrera-Reyes E, Gigov Y, Souleau B, Huet C, Trompier F, Fagot T, Grégoire E, Malfuson JV, Konopacki-Potet J, Buglova E, Lataillade JJ, Tamarat R, Gourmelon P, de Revel T. Hematopoietic Recovery using Multi-Cytokine Therapy in 8 Patients Presenting Radiation-Induced Myelosuppression after Radiological Accidents. Radiat Res. 2021 Dec 1;196(6):668-679.
11. Bensemmane L, Squiban C, Demarquay C, Mathieu N, **Benderitter M**, Le Guen B, Milliat F, Linard C. The stromal vascular fraction mitigates
12. Brunchukov V, Astrelina T, Usupzhanova D, Rastorgueva A, Kobzeva I, Nikitina V, Lishchuk S, Dubova E, Pavlov K, Brumberg V, **Benderitter M**, Samoylov A. Evaluation of the Effectiveness of Mesenchymal Stem Cells of the Placenta and Their Conditioned Medium in Local Radiation Injuries. Cells. 2020 Nov 29;9(12):2558.
13. Lebsir D, Cantabella E, Cohen D, Sache A, Ebrahimian T, Kereselidze D, Amine Benadjaoud M, Maurisier FC, Guigon P, René Jourdain J, **Benderitter M**, Lestaevel P, Souidi M. Effect of repetitive potassium iodide on thyroid and cardiovascular functions in elderly rats. Biochem Biophys Rep. 2020 Sep 30;24:100816.
14. Accarie A, l'Homme B, Benadjaoud MA, Lim SK, Guha C, **Benderitter M**, Tamarat R, Sémont A. Extracellular vesicles derived from mesenchymal stromal cells mitigate intestinal toxicity in a mouse model of acute radiation syndrome. Stem Cell Res Ther. 2020 Aug 27;11(1):371.
15. Cohen DPA, Benadjaoud MA, Lestaevel P, Lebsir D, **Benderitter M**, Souidi M. Effects of repetitive Iodine thyroid blocking on the foetal brain and thyroid in rats: a systems biology approach. Sci Rep. 2020 Jul 2;10(1):10839.
16. Rosique C, Lebsir D, Benatia S, Guigon P, Caire-Maurisier F, **Benderitter M**, Souidi M, Martin JC. Metabolomics evaluation of repeated administration of potassium iodide on adult male rats. Arch Toxicol. 2020 Mar;94(3):803-812.
17. Tamarat R, **Benderitter M**. The Medical Follow-up of the Radiological Accident: Épinal 2006. Radiat Res. 2019 Sep;192(3):251-257.
18. Rosique C, Lebsir D, Lestaevel P, Benatia S, Guigon P, Caire-Maurisier F, **Benderitter M**, Bennouna D, Souidi M, Martin JC. Assessment of the effects of repeated doses of potassium iodide intake during pregnancy on male and female rat offspring using metabolomics and lipidomics. J Toxicol Environ Health A. 2019;82(10):603-615.
19. Cohen DPA, Lebsir D, **Benderitter M**, Souidi M. A systems biology approach to propose a new mechanism of regulation of repetitive prophylaxis of stable iodide on sodium/iodide symporter (NIS). Biochimie. 2019 Jul;162:208-215.
20. Lebsir D, Guemri J, Kereselidze D, Grison S, **Benderitter M**, Pech A, Cohen D, Benadjaoud MA, Lestaevel P, Souidi M. Repeated potassium iodide exposure during pregnancy impairs progeny's brain development. Neuroscience. 2019 May 15;406:606-616.
21. 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.
22. 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.
23. Holler V, Buard V, Roque T, Squiban C, **Benderitter M**, Flamant S, Tamarat R. Early and Late Protective Effect of Bone Marrow Mononuclear Cell Transplantation on Radiation-Induced Vascular Dysfunction and Skin Lesions. Cell Transplant. 2019 Jan;28(1):116-128.
24. **Benderitter M**, Pourcher T, Martin JC, Darcourt J, Guigon P, Caire-Maurisier F, Pech A, Lebsir D, Rosique C, Guglielmi J, Rebière F, Tack K, Phan G, Lestaevel P, Souidi M, Jourdain JR. Do multiple administrations of stable iodine protect population chronically exposed to radioactive iodine : What is PRIODAC research program teaching us? Radiat Prot Dosimetry. 2018 Dec 1;182(1):67-79.
25. 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.
26. François S, Eder V, Belmokhtar K, Machet MC, Douay L, Gorin NC, **Benderitter M**, Chapel A. Author Correction: Synergistic effect of human Bone Morphogenic Protein-2 and Mesenchymal Stromal Cells on chronic wounds through hypoxia- inducible factor-1 α induction. Sci Rep. 2018 Apr 11;8(1):6050. doi: 10.1038/s41598-018-23594-x. Erratum for: Sci Rep. 2017 Jun 27;7(1):4272.
27. Lebsir D, Manens L, Grison S, Lestaevel P, Ebrahimian T, Suhard D, Phan G, Dublineau I, Tack K, **Benderitter M**, Pech A, Jourdain JR, Souidi M. Effects of repeated potassium iodide administration on genes involved in synthesis and secretion of thyroid hormone in adult male rat. Mol Cell Endocrinol. 2018 Oct 15;474:119-126. doi: 10.1016/j.mce.2018.02.017. Epub 2018 Feb 26.
28. François S, Eder V, Belmokhtar K, Machet MC, Douay L, Gorin NC, **Benderitter M**, Chapel A. Synergistic effect of human Bone Morphogenic Protein-2 and Mesenchymal Stromal Cells on chronic wounds through hypoxia-inducible factor-1 α induction. Sci Rep. 2017 Jun 27;7(1):4272.
29. DiCarlo AL, Tamarat R, Rios CI, **Benderitter M**, Czarniecki CW, Allio TC, Macchiarini F, Maidment BW, Jourdain JR. Cellular Therapies for Treatment of Radiation Injury: Report from a NIH/NIAID and IRSN Workshop. Radiat Res. 2017 Aug;188(2):e54-e75.
30. Reyes EH, Baciu F, **Benderitter M**, Lataillade JJ, Bey E, Trompier F, Tamarat R. Medical Response to Radiological Accidents in Latin America and International Assistance. Radiat Res. 2016 Apr;185(4):359-65.
31. 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.
32. Foubert P, Squiban C, Holler V, Buard V, Dean C, Levy BI, **Benderitter M**, Silvestre JS, Tobelem G, Tamarat R. Strategies to Enhance the Efficiency of Endothelial Progenitor Cell Therapy by Ephrin B2 Pretreatment and Coadministration with Smooth Muscle Progenitor Cells on Vascular Function During the Wound-Healing Process in Irradiated or Nonirradiated Condition. Cell Transplant. 2015;24(7):1343-6
33. EPR retrospective dosimetry with fingernails: report on first application cases. Trompier F, Queinnec F, Bey E, De Revel T, Lataillade JJ, Clairand I, **Benderitter M**, Bottollier-Depois JF.
34. Long-Term Quantitative Biodistribution and Side Effects of Human Mesenchymal Stem Cells (hMSCs) Engraftment in NOD/SCID Mice following Irradiation. François S, Usunier B, Douay L, **Benderitter M**, Chapel A. Stem Cells Int. 2014; 2014:939275.
35. Flagellin or lipopolysaccharide treatment modified macrophage populations after colorectal radiation of rats. LacavéLapaLun JV, **Benderitter M**, Linard C. J PharmacoL Exp Ther. 2013 JuL; 346(1):75-85.
36. Inflammation and immunity in radiation damage to the gut mucosa. François A, MiLLiat F, Guipaud O, **Benderitter M**. Biomed Res Int. 2013; 2013:123241.
37. Use of mesenchymaL stem ceLLs (MSC) in chronic infLammatory fistuLizing and fibrotic diseases: a

comprehensive review. VoswinkeL J, Francois S, Simon JM, **Benderitter M**, Gorin NC, Mohty M, FouiLLard L, ChapeL Â. CLin Rev ÂLLergy ImmunoL. 2013 Oct; 45(2):180-92.
38. Protective effect of geranyLgeranyLacetone against radiation-induced deLayed effects on human keratinocytes. Isoir M, Roque T, Squiban C, MiLLiat F, Mondon P, Mas-ChamberLin C, **Benderitter M**, Guipaud O, Tamarat R. Radiat Res. 2013 Feb;179(2):232-42.
39. Alteration of the serum N-glycome of mice locally exposed to high doses of ionizing radiation. Chaze T, Slomianny MC, Milliat F, Tarlet G, Lefebvre-Darroman T, Gourmelon P, Bey E, **Benderitter M**, Michalski JC, Guipaud O. Mol Cell Proteomics. 2013 Feb;12(2):283-301.
40. Stem cell therapy: from bench to bedside. Tamarat R, Lataillade JJ, Bey E, Gourmelon P, **Benderitter M**. Radiat Prot Dosimetry. 2012 Oct; 151(4):633-9.
41. Abdominal γ-radiation induces an accumulation of function-impaired regulatory T cells in the small intestine. Billiard F, Buard V, **Benderitter M**, Linard C. Int J Radiat Oncol Biol Phys. 2011 Jul 1;80(3):869-76.
42. Noninvasive radiation burn diagnosis using speckle phenomenon with a fractal approach to processing. Carvalho O, **Benderitter M**, Roy L. J Biomed Opt. 2010 Mar-Apr; 15(2):027013.
43. New emerging concepts in the medical management of local radiation injury. **Benderitter M**, Gourmelon P, Bey E, Chapel A, Clairand I, Prat M, Lataillade JJ. Health Phys. 2010 Jun; 98(6):851-7.
44. European consensus on the medical management of acute radiation syndrome and analysis of the radiation accidents in Belgium and Senegal. Gourmelon P, **Benderitter M**, Bertho JM, Huet C, Gorin NC, De Revel P. Health Phys. 2010 Jun;98(6):825-32.
45. Emerging therapy for improving wound repair of severe radiation burns using local bone marrow-derived stem cell administrations. Bey E, Prat M, Duhamel P, **Benderitter M**, Brachet M, Trompier F, Battaglini P, Ernou I, Boutin L, Gourven M, Tissedre F, Créa S, Mansour CA, de Revel T, Carsin H, Gourmelon P, Lataillade JJ. Wound Repair Regen. 2010 Jan-Feb; 18(1):50-8.
46. Protein biomarkers for radiation exposure: towards a proteomic approach as a new investigation tool. Guipaud O, **Benderitter M**. Ann Ist Super Sanita. 2009; 45(3):278-86.
47. Initial evaluation and follow-up of acute radiation syndrome in two patients from the Dakar accident. Bertho JM, Roy L, Souidi M, **Benderitter M**, Bey E, Racine R, Fagot T, Gourmelon P. Biomarkers. 2009 Mar; 14(2):94-102.
48. Pravastatin limits radiation-induced vascular dysfunction in the skin. Holler V, Buard V, Gaugler MH, Guipaud O, Baudelin C, Sache A, Perez Mdel R, Squiban C, Tamarat R, Milliat F, **Benderitter M**. J Invest Dermatol. 2009 May; 129(5):1280-91.
49. Cell therapy based on adipose tissue-derived stromal cells promotes physiological and pathological wound healing. Ebrahimian TG, Pouzoulet F, Squiban C, Buard V, André M, Cousin B, Gourmelon P, **Benderitter M**, Casteilla L, Tamarat R. Arterioscler Thromb Vasc Biol. 2009 Apr;29(4):503-10.
50. New biological indicators to evaluate and monitor radiation-induced damage: an accident case report. Bertho JM, Roy L, Souidi M, **Benderitter M**, Gueguen Y, Lataillade JJ, Prat M, Fagot T, De Revel T, Gourmelon P. Radiat Res. 2008 May;169(5):543-50.
51. Time-course analysis of mouse serum proteome changes following exposure of the skin to ionizing radiation. Guipaud O, Holler V, Buard V, Tarlet G, Royer N, Vinh J, **Benderitter M**. Proteomics. 2007 Nov; 7(21):3992-4002.
52. Statistical speckle study to characterize scattering media: use of two complementary approaches. Carvalho O, Clairac **Benderitter M**, Roy L. Opt Express. 2007 Oct 17; 15(21):13817-31.
53. Intestinal epithelial cell dysfunction is mediated by an endothelial-specific radiation-induced bystander effect. Gaugler MH, Neunlist M, Bonnaud S, Aubert P, **Benderitter M**, Paris F. Radiat Res. 2007 Feb;167(2):185-93.
54. Imbalance of the antioxidant network of mouse small intestinal mucosa after radiation exposure. Haton C, François A, Vandamme M, Wysocki J, Griffiths NM, **Benderitter M**. Radiat Res. 2007 Apr;167(4):445-53.
55. Collapse of skin antioxidant status during the subacute period of cutaneous radiation syndrome: a case report. **Benderitter M**, Isoir M, Buard V, Durand V, Linard C, Vozenin-Brotons MC, Steffanazi J, Carsin H, Gourmelon P. Radiat Res. 2007 Jan;167(1):43-50.
56. Caffeic acid phenethyl ester modifies the Th1/Th2 balance in ileal mucosa after gamma-irradiation in the rat by modulating the cytokine pattern. Grémy O, **Benderitter M**, Linard C. World J Gastroenterol. 2006 Aug 21; 12(31):4996- 5004.
57. Human keratinocyte radiosensitivity is linked to redox modulation. Isoir M, Buard V, Gasser P, Voisin P, Lati E, **Benderitter M**. J Dermatol Sci. 2006 Jan;41(1):55-65. -Acute ileal inflammatory cytokine response induced by irradiation is modulated by subdiaphragmatic vagotomy. Linard Marquette C, Clarençon D, Galonnier M, Mathieu J, Pennequin A, **Benderitter M**, Gourmelon P. J Neuroimmunol. 2005 Nov;168(1-2):83-95.
58. Maintenance of differentiation capacity of HT-29 cells after radiation exposure. Haton C, Lebrun F, **Benderitter M**, Griffiths NM. Int J Radiat Biol. 2005 Mar; 81(3):211-20.
59. Biochemical approach to prediction of multiple organ dysfunction syndrome. Roy L, Bertho JM, Souidi M, Vozenin MC, Voisin P, **Benderitter M**. BJR Suppl. 2005; 27:146-51.
60. Pravastatin limits endothelial activation after irradiation and decreases the resulting inflammatory and thrombotic responses. Gaugler MH, Vereycken-Holler V, Squiban C, Vandamme M, Vozenin-Brotons MC, **Benderitter M**. Radiat Res. 2005 May;163(5):479-87.
61. Why can't we find a better biological indicator of dose? Voisin P, Roy L, **Benderitter M**. Radiat Prot Dosimetry. 2004; 112(4):465-9.
62. PCC-FISH in skin fibroblasts for local dose assessment: biodosimetric analysis of a victim of the Georgian radiological accident. Pouget JP, Laurent C, Delbos M, **Benderitter M**, Clairand I, Trompier F, Stéphanazzi J, Carsin H, Lambert F, Voisin P, Gourmelon P. Radiat Res. 2004 Oct;162(4):365-76.
63. The ceLL membrane as a biosensor of oxidative stress induced by radiation exposure: a muLtiparameter investigation. **Benderitter M**, Vincent-Genod L, Pouget JP, Voisin P. Radiat Res. 2003 Âpr;159(4):471-83.
64. CLearance of radiation-induced apoptotic Lymphocytes: ex vivo studies and an in vitro co-cuLture modeL. **Benderitter M**, Durand V, Caux C, Voisin P. Radiat Res. 2002 Oct;158(4):464-74.
65. PotentiaL roLe of the membrane in the deveLopment of intestinaL ceLLuLar damage after whoLe-body gamma irradiation of the rat. Lebrun F, **Benderitter M**, Berroud Â, Voisin P, Griffiths NM. Can J PhysioL PharmacoL. 2002 JuL; 80(7):686-93.
66. Micro-organisation of the membrane after radiation-induced apoptosis: a fLow cytometry study. Vincent-Genod L, **Benderitter M**, Voisin P. Radiat Environ Biophys. 2001 Sep; 40(3):213-9.
67. The cytogenetic dosimetry of recent accidentaL overexposure. Voisin P, **Benderitter M**, CLaraz M, Chambrette V, Sorokine-Durm I, DeLbos M, Durand V, Leroy Â, PaiLLoLe N. CeLL MoL BioL (Noisy-Le-grand). 2001 May; 47(3):557-64.
68. Radio-induced structuraL membrane modifications: a potentiaL bioindicator of ionizing radiation exposure? **Benderitter M**, Vincent-Genod L, Berroud Â, MuLLer S, Donner M, Voisin P. Int J Radiat BioL. 1999 Âug;75(8):1043-53.
69. SimuLtaneous anaLysis of radio-induced membrane aLteration and ceLL viabiLity by fLow cytometry. **Benderitter M**, Vincent-Genod L, Berroud Â, Voisin P. Cytometry. 2000 Feb 1; 39(2):151-7.
70. BiochemicaL indicators of whoLe-body gamma-radiation effects in the pig. Donnadieu-CLaraz M, **Benderitter M**, Joubert C, Voisin P. Int J Radiat BioL. 1999 Feb;75(2):165-74.

Projects

In charge of three main research program of the ASNR in radiation protection

- R&D for Santé - Environment (approximativly 70 researchers)
- R&D for medical and sanitary response to NR crisis (approximaticly 70 researchers)

- R&D for optimized and secure use of ionizing radiation if the medical field (approximatively 70 researchers)

Memberships

International activities

- Head of the IAEA capacity building centre (CBC) for medical preparedness and response to radiological and nuclear emergencies
- Head of the WHO Collaborating Center for Radiation protection including activities in medical preparedness and response to radiological and nuclear emergencies.
- Member of the GHSI RadNuc Working group of the G7/Global Health Security Initiative.
- Head/member of medical assistance missions (Peru, Chile, Brazil, Ecuador, Venezuela, Thailand, Romania, Georgia, South Africa) under the umbrella of the international assistance convention for radiological overexposed patient.
- Contribute to the drafting of IAEA and WHO recommendation for medical EPR.

- Member of the EBMT-NAC, European Blood and Marrow Transplantation Society – Nuclear accident Committee

Other Relevant Information

Part of my professional activities are focused on capacity building, elaboration of doctrine for medical preparedness of radiological and nuclear emergencies and operational experience in the field of medical response to radiological and nuclear emergencies, including CBRN-E threats. I am head of the IAEA capacity building center (CBC) for medical preparedness and response to radiological and nuclear emergencies and head of the WHO Collaborating Center for Radiation protection including activities in medical preparedness and response to radiological and nuclear emergencies. I'm also a member of the GHSI RadNuc Working group of the G7/Global Health Security Initiative. As an expert for the IAEA and WHO, I was head/member of medical assistance missions (Chili-2011, Bulgaria-2011, Peru-2012, Peru-2014, South Africa-2018, Peru-2018, Georgia-2019, Thailand 2021, Peru-2022) implemented under the umbrella of the international assistance convention for radiological overexposed patient.

This unique perspective on medical response to radiological and nuclear emergency, the national and European network I developed during these last two decades, are nice opportunities to develop science-based approach of medical response to radiological and nuclear crisis management. As the Deputy Director of the Health Division (250 collaborators) in charge of R&D activities, I was entrusted with the management of a full research program dedicated to implementing innovative technologies and methodologies for radiological detection, triage of victims, diagnosis and prognosis of patients and the development of new strategies for the medical management of irradiated/contaminated and wounded patients. We develop intersectoral approach with academics, clinicians, industrials and agencies/authorities. Regular national exercises involving the crisis center of the ASNR and the main health counterparts (on field and at the hospital) are an opportunity testing the resilience of the response and the operational integration of new tools, technologies and medical strategies.