

Pr. Béatrice Fervers, MD, PhD, Professeur associé

Centre Léon Bérard

Née le 2 juillet 1963

28 rue Laënnec, 69373 LYON cedex 08

Nationalités allemande et française

+33(0)4.78.78.28.01 /+33.(0)6.24.72.38.81

Mariée, deux enfants

beatrice.fervers@lyon.unicancer.fr

N°RPPS 10003064317 - N° FINESS 690783220

Titres et diplômes

Habilitation à diriger des recherches (HDR), Université Lyon 1 (2011)

Doctorat de l'Université Lyon 1; mention « très honorable avec félicitations du jury » (2008)

Qualification de médecin spécialiste en Oncologie médicale (1995)

Docteur en Médecine, Faculté de Médecine, Université Heinrich Heine, Düsseldorf, Allemagne (1989)

Fonctions actuelles

Chef de Département Prévention Cancer Environnement, Centre Léon Bérard, Lyon

- Coordination des pratiques cliniques préventives
 - Prise en charge nutrition et activité physique
 - Consultation cancers professionnels
 - Parcours de santé au cours du cancer (PASCA)

- Coordination du développement du futur Centre de Prévention, Centre Léon Bérard, Lyon

Praticien spécialiste des Centres de Lutte Contre le Cancer, Centre Léon Bérard, Lyon (depuis 1999)

Professeur associé, UFR de médecine, Université Claude Bernard Lyon 1 (depuis 2012)

Directrice adjointe de l'UA 08 INSERM Radiations, Défense, Santé et Environnement (depuis 2019)

Situations professionnelles antérieures

Directrice adjointe du programme « Standards, Options et Recommandations » (SOR) de la FNCLCC :

Direction scientifique du programme SOR ; Membre du Comité de Direction de la FNCLCC (1999–2008)

Membre de l'Equipe « Signalisation des hormones stéroïdes et cancer du sein », Centre de Recherche de Cancérologie de Lyon, UMR INSERM 1052-CNRS 5286

Médecin coordonnateur du programme SOR, FNCLCC, Paris (1996-1999)

Résident étranger (1992 – 1994), Médecin contractuel, Centre Léon Bérard, Lyon (1994-1996)

Arzt im Praktikum, Oncologie médicale, Hôpital Bergisch Land, Wuppertal, Allemagne (1990-1992)

Autres fonctions et responsabilités

Membre du Comité éthique (Institutional Ethics committee) du Centre International de la Recherche sur le Cancer, Lyon (CIRC) (depuis 2010) ; Past-President (2014-2018).

Membre du Comité de Pilotage Scientifique du Cancéropôle Lyon Auvergne Rhône-Alpes, CLARA (depuis 2011),

Coordinatrice axe Prévention et innovations sociales ; Responsable thématique « Environnement et Cancer »

Représentation du Cancéropôle dans le Consortium Européen « Cancer Prevention Europe », coordonné par le CIRC

Membre Comité de Pilotage de l'Institut Universitaire de Prévention (PRESAGE) de l'Université de Lyon (depuis 2018)

Membre du Conseil Scientifique, Ecole Doctorale Interdisciplinaire Sciences-Santé (EDISS), UCBLyon 1 (depuis 2014)

Membre Conseil Scientifique chargé du suivi des études Riverains de cultures, pesticides et cancer de Santé publique France (depuis 2017)

Membre du Comité d'Appui Thématique de Surveillance des cancers dans les Bouches-du-Rhône : Observatoire Revela13, Santé Publique France (depuis 2020)

Comité Scientifique Eurêka Confluence, Urbanisme favorable à la santé (depuis 2018)

Section-Editor, 'Occupational Safety and Health' International Journal of Environmental Research and Public Health (depuis 2017)

Membre Commission Cancer et environnement de la Ligue nationale contre le cancer (depuis 2018)

Membre Comité scientifique « Santé publique et environnement » Fondation de France (depuis 2019)

Membre de l'ERA NET ENVHEALTH (FP7) (depuis 2011)

Member of the National Nutrition Cancer Research Network (NACRe)

External advisor, NHS evidence, National Institute for Health and Clinical excellence (NICE), National Health Service (NHS), Grande Bretagne

Membre de l'American Society of Clinical Oncology (ASCO)

Autres missions/Missions passées :

Chaire d'excellence « Environnement, Nutrition et Cancer » du Cancéropôle CLARA et Merck Serono (2010-2017)

Membre Expertise collective Inserm « Activité physique - Prévention et traitement des maladies chroniques » (2015-2019)

Member of the working group "Attributable Causes of Cancer in France", IARC (2015-2018)

Membre International Advisory Board, LIFEPAATH Life-course biological pathways underlying social differences in healthy ageing, H2020-PHC-2014 (2015-2019)

Collaboration depuis 1995 avec des équipes québécoises et canadiennes sur les méthodes des recommandations et le transfert des données scientifiques en pratique clinique. (Pr. George Browman, Program in Evidence-based Care, Cancer Care Ontario; McMaster University, Hamilton; Pr. Jean Latreille, Université de Sherbrooke ; Pr. Alberto Cambrosio, Université McGill, Montreal).

Expert appels à projet : Inca, Ligue, PREPS, ANSES, PHRC

Expert évaluateur auprès de la Commission Européenne, DG Recherche dans le domaine Santé, Thème 3.1-1 « Better understanding of dissemination and implementation strategies » (7e PCRD) (2009/2010)

Publications

146 publications indexes Pubmed <https://www.ncbi.nlm.nih.gov/pubmed/?term=fervers+b;>

Index h 33; Indice i10: 83; SIGAPS 1470 ; 2015-2020: 565

1. Amadou A, Praud D, Coudon T, Danjou AMN, Faure E, Leffondré K, Le Romancer M, Severi G, Salizzoni P, Mancini FR, **Fervers B**. Chronic long-term exposure to cadmium air pollution and breast cancer risk in the French E3N cohort. *Int J Cancer*. 2020 Jan 15;146(2):341-351. doi: 10.1002/ijc.32257. Epub 2019 Apr 1. PubMed PMID: 30851122.
2. Amadou A, Praud D, Coudon T, Leffondré K, Leveque E, Bessagnet B, Couvidat F, Danjou A, Faure E, Gulliver J, Severi G, Salizzoni P, Mancini FR, and **Fervers B**. Chronic long-term exposure to seven ambient air pollution and breast cancer risk: study protocol of Xenair Project. *2020 JMIR Res Protoc*. 2020 Sep 15;9(9):e15167. doi: 10.2196/15167
3. Claeys L, Romano C, De Ruyck K, Wilson H, **Fervers B**, Korenjak M, Zavadil J, Gunter MJ, De Saeger S, De Boevre M, Huybrechts I. Mycotoxin exposure and human cancer risk: A systematic review of epidemiological studies. *Compr Rev Food Sci Food Saf*. 2020 <https://doi-org/10.1111/1541-4337.12567>
4. Delrieu L, Pialoux V, Pérol O, Morelle M, Martin A, Friedenreich C, Febvey-Combes O, Pérol D, Belladame E, Cléménçon M, Roitmann E, Dufresne A, Bachelot T, Heudel P-E, Touillaud M, Trédan O, **Fervers B**. Feasibility and health benefits of an individualized physical activity intervention in women with metastatic breast cancer: results of the ABLE single-arm Trial study. *JMIR Mhealth Uhealth*. 2020 Jan 28;8(1):e12306. doi: 10.2196/12306.
5. Béranger R, Billoir E, Nuckols JR, Blain J, Combourieu B, Philip T, Schüz J, **Fervers B**. Agricultural and domestic pesticides in housedust of French households. *Environ Sci Pollut Res Int*. 2019 May 11. doi: 10.1007/s11356-019-05313-9.
6. Havet N, Penot A, Plantier M, Morelle M, **Fervers B**, Charbotel B. Trends in the Control Strategies for Occupational Exposure to Carcinogenic, Mutagenic, and Reprotoxic Chemicals in France (2003-2010). *Ann Work Expo Health*. 2019 May 21;63(5):488-504. doi: 10.1093/annweh/wxz021. PubMed PMID: 31051043.
7. Coudon T, Salizzoni P, Praud D, Danjou A, Dossus L, Faure E, Fervers B A national inventory of historical dioxin air emissions sources in France. *Atmospheric Environment* 2019 <https://doi.org/10.1016/j.apr.2019.02.004>
8. Coudon T, Danjou A, Faure E, Praud D, Mancini FR, Severi G, Salizzoni P, **Fervers B**. Development and performance evaluation of a GIS-based metric to assess exposure to airborne pollutant from industrial sources. *Environ Health*. 2019 25;18(1):8.
9. Danjou A, Coudon T, Praud D, Lévêque E, Faure E, Salizzoni P, Le Romancer M, Severi G, Leffondré K, Dossus L, **Fervers B**. Airborne Dioxin Exposure and Breast Cancer Risk in a case-control study nested within the French E3N Prospective Cohort: a GIS-based approach. *Environment International* 2019 15;124:236-248.
10. Binachon B, Dossus L, Danjou AM, Clavel-Chapelon F, **Fervers B**. Life in urban areas and breast cancer risk in the French E3N cohort. *Eur J Epidemiol*. 2014 Oct;29(10):743-51.
11. Béranger R, Pérol O, Bujan L, Faure E, Blain J, Cornet CL, Flechon A, Charbotel B, Philip T, Schüz J, **Fervers B**. Studying the impact of early life exposures to pesticides on the risk of testicular germ cell tumors during adulthood (TESTIS project): study protocol. *BMC Cancer*. 2014 Aug 4;14:563.
12. Deneuve S, Charbotel B, Massardier-Pilonchéry A, Fort E, Milliet-Baude C, Pérol O, Fayette J, **Fervers B**, Zrounba P. Systematic screening for occupations and occupational exposures in head and neck squamous cell carcinoma patients: a French cohort. *Eur Arch Otorhinolaryngol*. 2019 Jan 3. [Epub ahead of print]
13. Ratajczak R, Crispim-Junior C, Faure E, **Fervers B**, Tougne L. Automatic Land Cover Reconstruction From Historical Aerial Images : An Evaluation of Features Extraction and Classification Algorithms. *IEEE Trans Image Process*. 2019 Jul;28(7):3357-3371. doi: 10.1109/TIP.2019.2896492. [Epub ahead of print]
14. Delrieu L, Vallance JK, Morelle M, **Fervers B**, Pialoux V, Friedenreich C, Dufresne A, Bachelot T, Heudel P-E, Trédan O, Pérol O, Touillaud M. Physical activity preferences before and after participation in a six-month physical activity intervention among women with metastatic breast cancer. *Eur J Cancer Care (Engl)*. 2019 Sep 30:e13169. doi: 10.1111/ecc.13169. [Epub ahead of print] PubMed PMID: 31571315.
15. Delrieu L, Pérol O, **Fervers B**, Friedenreich C, Vallance J, Febvey-Combes O, Pérol D, Canada B, Roitmann E, Dufresne A, Bachelot T, Heudel P-E, Tredan O, Touillaud M, Pialoux V. A Personalized Physical Activity Program With Activity Trackers and a Mobile Phone App for Patients With Metastatic Breast Cancer: Protocol for a Single-Arm Feasibility Trial. *JMIR Res Protoc* 2018;7:e10487.
16. Foucaut A-M, Morelle M, Kempf-Lépine A-S, Baudinet C, Meyrand R, Guillemaut S, Metzger S, Bourne-Branchu V, Grinand E, Chabaud S, Pérol D, Carretier J, Berthouze S, Reynes E, Perrier L, Rebattu P, Heudel P-E, Bachelot T, Bachmann P, **Fervers**

- B, Trédan O, Touillaud M. Feasibility of an exercise and nutritional intervention for weight management during adjuvant treatment for localized breast cancer: the PASAPAS randomized controlled trial. *Supportive Care in Cancer* 2019 Jan 24. doi: 10.1007/s00520-019-4658-y. [Epub ahead of print]
17. Perrier L, Foucaut A-M, Touillaud M, Kempf-Lepine A-S, Morelle M, Heinz D, Gomez F, Meyrand R, Baudinet C, Berthouze SE, Carretier J, Denizot-Guillemaut S, Pérol D, Trédan O, Philip T, Reynes E, Bachmann P, **Fervers B**. Cost-effectiveness of physical activity program versus dietary and physical activity advice during adjuvant chemotherapy in breast cancer: An economic evaluation of the PASAPAS trial. *Support Care Cancer*. 2019 Nov 15. doi: 10.1007/s00520-019-05078-4. [Epub ahead of print]
 18. Lamort-Bouché M, Péron J, Broc G, Kochan A, Jordan C, Letrilliart L, **Fervers B**, Fassier JB; FASTER Group. Breast cancer specialists' perspective on their role in their patients' return to work: A qualitative study. *Scand J Work Environ Health*. 2019 Aug 21. pii: 3847. doi: 10.5271/sjweh.3847. [Epub ahead of print] PubMed PMID: 31433060.
 19. Marant Micallef C, Shield KD, Vignat J, Baldi I, Charbotel B, **Fervers B**, Gilg Soit Ilg A, Guénel P, Olsson A, Rushton L, Hutchings SJ, Cléro E, Laurier D, Scanff P, Bray F, Straif K, Soerjomataram I. Cancers in France in 2015 attributable to occupational exposures. *Int J Hyg Environ Health*. 2019 Jan;222(1):22-29.
 20. **Fervers B**, Delrieu L, Pérol O, Febvey-Combes O, Bachelot T, Dufresne A, Heudel PE, Tredan O, Touillaud M, Pialoux V. Physical activity and lifestyle in women with metastatic breast cancer: The ABLE study. *Annals of Oncology*. 2018. 29;8:272.343. doi: 10.1093/annonc/mdy272.343
 21. Fassier JB, Lamort-Bouché M, Broc G, Guittard L, Peron J, Rouat S, Carretier J, **Fervers B**, Letrilliart L, Sarnin P. Developing a return to work intervention after breast cancer with the Intervention Mapping protocol: challenges and opportunities of the needs assessment. *Frontiers in Public Health Front Public Health*. 2018 Feb 23;6:35.
 22. Havet N, Penot A, Perrier L, Charbotel B, Morelle M, **Fervers B**. Inequalities in the control of the occupational exposure in France to carcinogenic, mutagenic, and reprotoxic chemicals. *Eur J Public Health* 2018 Jul 27. doi: 10.1093/eurpub/cky130. [Epub ahead of print]
 23. Marant Micallef C, Shield KD, Baldi I, Charbotel B, Guénel P, Gilg Soit Ilg A, **Fervers B**, Olson A, Rushton L Hutching S, Straif K, Soerjomataram I. A review of cancer risks associated to occupational exposures: a framework to estimate the fraction of cancers attributable to occupational exposures. *Occup Environ Med*. 2018 Aug;75(8):604-614. doi: 10.1136/oemed-2017-104858. Epub 2018 May 7
 24. Olsson A, Togawa K, Schüz J, Le Cornet C, **Fervers B**, Oksbjerg Dalton S, Pukkala E, Feychting M, Erik Skakkebak NE, Hansen J. Parental occupational exposure to solvents and heavy metals and risk of developing testicular germ cell tumors in sons (NORD-TEST Denmark). *Scand J Work Environ Health* 2018 Jun 7. doi: 10.5271/sjweh.3732. [Epub ahead of print]
 25. Perol O, Charbotel B, Perrier L, Bonnand S, Belladame E, Avrillon V, Rebattu P, Laudriant G, Perol M, **Fervers B**. Prospective cohort study to assess systematically occupational exposures among lung cancer patients and cost of this process. *Int J Environ Res Public Health*. 2018 Jan 4;15(1). pii: E65. doi: 10.3390/ijerph15010065.
 26. Delrieu L, Perol O, **Fervers B**, Friedenreich C, Vallance JK, Febvey O, Canada B, Roitmann E, Dufresne A, Bachelot T, Heudel PE, Tredan O, Touillaud M, Pialoux V. Design and methods of the Advanced stage Breast cancer Lifestyle and Exercise feasibility cohort study (ABLE) *JMIR Res Protoc*. 2018 Aug 30;7(8):e10487
 27. Havet N, Penot A, Morelle M, Perrier L, Charbotel C, **Fervers B**. Evaluating the influence of regulations in the implementation of collective protection to occupational exposure risks to carcinogenic, mutagenic, and reprotoxic (CMR) agents in France. *Occup Environ Med*. 2018;75(5):389-397.
 28. Coudon T, Hourani H, Nguyen C, Faure E, Mancini F, **Fervers B**, Salizzoni P. Assessment of long-term exposure to airborne dioxin and cadmium concentrations in the Lyon Metropolitan Area (France). *Environ Int*. 2017;111:177-190.
 29. Faure E, Danjou AMN, Carretero C, Boutron-Ruault MC, Clavel-Chapelon F, Dossus L, **Fervers B**. Accuracy of two geocoding methods for Geographical Information System based exposure assessment in epidemiological studies. *Environ Health*. 2017;16(1):15
 30. Havet N, Penot A, Morelle M, Perrier L, Charbotel C, **Fervers B**. Trends in occupational disparities for exposure to carcinogenic, mutagenic, and reprotoxic chemicals in France (2003-2010). *Eur J Public Health*. 2017 1;27(3):425-432
 31. Havet N, Penot A, Morelle M, Perrier L, Charbotel C, **Fervers B**. Inequalities in exposure to carcinogenic, mutagenic and reprotoxic chemicals in occupational settings in France. *Int Arch Occup Environ Health*. 2017 Feb;90(2):227-241.
 32. Le Cornet C, **Fervers B**, Oksbjerg Dalton S, Feychting M, Pukkala E, Tynes T, Hansen J, Nordby KC, Kauppinen T, Uuksulainen S, Wiebert P, Woldbæk T, Skakkebak NE, Olsson A, Schüz J. Testicular germ cell tumours and parental, occupational exposure to solvents: a register-based case-control study in the Nordic countries (NORD-TEST study). *Environ Health Perspect*. 2017 Jun 30;125(6):067023. doi: 10.1289/EHP864.
 33. Clément F, Xu X, Donini CF, Clément A, Omarjee S, Delay E, Treilleux I, **Fervers B**, Le Romancer M, Cohen PA, Maguer-Satta V. Long-term exposure to bisphenol A or benzo(a)pyrene alters the fate of human mammary epithelial stem cells in response to BMP2 and BMP4, by pre-activating BMP signaling. *Cell Death Differ*. 2017 Jan;24(1):155-166. doi: 10.1038/cdd.2016.107.
 34. Carretier J, Boyle H, Duval S, Philip T, Laurence V, Stark DP, Berger C, Marec-Bérard P, **Fervers B**. A Review of Health Behaviors in Childhood and Adolescent Cancer Survivors: Toward Prevention of Second Primary Cancer. *J Adolesc Young Adult Oncol*. 2016 Jun;5(2):78-90.
 35. Brouwers MC, Kerkvliet K, Spithoff K; **AGREE Next Steps Consortium**. The AGREE. Reporting Checklist: a tool to improve reporting of clinical practice guidelines. *BMJ*. 2016 Mar 8;352:i1152..
 36. Togawa K, Le Cornet C, Feychting M, Tynes T, Pukkala E, Hansen J, Olsson A, Oksbjerg Dalton S, Nordby KC, Uuksulainen S, Wiebert P, Woldbæk T, Skakkebak NE, **Fervers B**, Schüz J. Parental occupational exposure to heavy metals and welding fumes and risk of testicular germ cell tumors in offspring: a registry-based case-control study. *Cancer Epidemiol Biomarkers Prev*. 2016 Oct; 25(10):1426-1434.
 37. Le Cornet C, **Fervers B**, Oksbjerg Dalton S, Feychting M, Pukkala E, Tynes T, Hansen J, Nordby KC, Béranger R, Kauppinen T, Uuksulainen S, Wiebert P, Woldbæk T, Skakkebak NE, Olsson A, Schüz J. Testicular germ cell tumours and parental, occupational exposure to pesticides: a register-based case-control study in the Nordic countries (NORD-TEST study). *Occup Environ Med*. 2015 Nov;72(11):805-11.
 38. Danjou A, **Fervers B**, Boutron-Ruault MC, Philip T, Clavel-Chapelon F, Dossus L. Dietary Dioxin Exposure and Breast Cancer Risk among Women from the French E3N Prospective Cohort. *Breast Cancer Res*. 2015 17;17(1):39.

39. Cettier J, Bayle ML, Beranger R, Billoir E, Nuckols JR, Combourieu B, **Fervers B**. Efficiency of wipe sampling on hard surfaces for pesticides and PCBs residues in dust. *Sci Total Environ*. 2015 Feb 1;505:11-21.
40. Brouwers M, Makarski J, Kastner M, Hayden L, Bhattacharyya O, **the GUIDE-M Research Team**. The Guideline Implementability Decision Excellence Model (GUIDE-M): a mixed methods approach to create an international resource to advance the practice guideline field. *Implementation Science*. 2015;10(1):36.
41. Foucaut A-M, Berthouze SE, Touillaud M, Morelle M, Bourne-Branchu V, Kempf-Lépine A-S, Carretier J, Trédan O, Bachmann P, **Fervers B**. Deterioration of physical fitness from the diagnosis of breast cancer: an increasing risk factor of co-morbidities at the beginning of chemotherapy. *Cancer Nurs*. 2015 ;38(4):E1-9.