

## TRAVAUX 1991-2022

### I. ACL - Articles dans des revues internationales ou nationales avec comité de lecture répertoriées par l'AERES ou dans les bases de données internationales (ISI Web of Knowledge, Pub Med...).

1. Colas A., Baudet A., Le Cann P., Blanchard O., Gangneux J.P., Baurès E., Florentin A. Quantitative health risk assessment of the chronic inhalation of chemical compounds in healthcare and elderly care facilities. **Toxics** 2022, 10, 141. <https://doi.org/10.3390/toxics10030141>
2. Baudet A., Baurès E., Blanchard O., Le Cann P., Gangneux J.-P., Florentin A. Indoor carbon dioxide, fine particulate matter and total volatile organic compounds in private healthcare and elderly care facilities. **Toxics** 2022 : 10, 136. <https://doi.org/10.3390/toxics10030136>
3. Baudet A., Baurès B., Guegan H., Blanchard O., Guillaso M., Le Cann P., Gangneux J.P., Florentin A. Indoor Air Quality in Healthcare and Care Facilities: Chemical Pollutants and Microbiological Contaminants. **Atmosphere** 2021 : 12, 1337. <https://doi.org/10.3390/atmos12101337>
4. Le Cann P., Wallet F. Covid-19 et transmission par aerosols : état des lieux. **Environnement Risques et Santé** 2021 ; 20 : 290-294. doi : 10.1684/ers.2021.1557
5. Abou Saoud W., Kane A., Le Cann P., Gerard A., Lamaa L., et al. Innovative photocatalytic reactor for the degradation of VOCs and microorganism under simulated indoor air conditions: Cu-Ag/TiO<sub>2</sub>-based optical fibers at a pilot scale. **Chemical Engineering Journal**, 2021, 411, pp.128622. (10.1016/j.cej.2021.128622)
6. Gangneux J.P., Sassi M., Lemire P., Le Cann P. Metagenomic characterization of indoor dust bacterial and fungal microbiota in homes of asthma and non asthma patients using next generation sequencing. **Frontiers in microbiology**, 2020, <https://doi.org/10.3389/fmicb.2020.01671>
7. Gangneux J.P., Bouvrais M., Frain S., Morel H., Deguen S., Chevrier S., Le Cann P. Asthma and Indoor Environment: Usefulness of a Global Allergen Avoidance Method on Asthma Control and Exposure to Molds. **Mycopathologia**. 2020 Jan 2. doi: 10.1007/s11046-019-00417-9
8. Gallon V., Le Cann P., Sanchez M., Dematteo C., Le Bot B. Emissions of VOCs, SVOCs and mold during the construction process: contribution to indoor air quality and future occupants. **Indoor Air**, 2020, 30, 4, 691-710, DOI: 10.1111/ina.12647
9. Abou Saoud W., Assadi A.A., Kane A., Jung A.V, Le Cann P., Gerard A., Bazantay F., Bouzaza A. Integrated process for the removal of indoor VOCs from food industry manufacturing: elimination of Butane-2,3-dione and Heptan-2-one by cold plasma-photocatalysis combination. **Journal of Photochemistry and Photobiology A: Chemistry**, 2020, 386, 1; DOI: 10.1016/j.jphotochem.2019.112071.
10. Bandaly V., Joubert A., Andres Y., Le Cann P. Adenovirus behavior in air handling unit fiberglass filters. **Aerobiologia** 2019, 35 : 357–366. DOI: 10.1007/s10453-019-09565-3

11. Dematteo C., Le Bot B., Le Cann P., Sanchez M. Phase chantier et qualité de l'air intérieur: quel impact des processus de construction sur la santé des futurs occupants ? **Environnement, Risques et Santé** 2019 18 :323-328. DOI : 10.1684/ers.2019.1329
12. Baurès E., Gangneux J.P., Le Cann P., Blanchard O., Florentin A. La qualité de l'air intérieur dans les établissements hospitaliers - Résultats du projet Qaihosp. **Techniques hospitalières**, 2019, 779.
13. Baurès E., Blanchard O., Mercier F., Surget E., Le Cann P., Rivier A., Gangneux J.P., Florentin A. Indoor air quality in two French hospitals: Measurement of chemical and microbiological contaminants. **Sci Total Environ.** 2018 642:168-179. doi: 10.1016/j.
14. Pfister H., Madec L., Le Cann P., Costet M., Lecureur V., Chouvet M., Jouneau S., Vernhet L. Factors determining the exposure of dairy farmers to thoracic organic dust. **Environ Res.** 2018 165:286-293.
15. Pfister H., Morzadec C., Le Cann P., Madec L., Lecureur V., Chouvet M., Jouneau S., Vernhet L. Granulometry, microbial composition and biological activity of dusts collected in French dairy farms. **Environ Res.** 2017 Jul 20;158:691-702. doi: 10.1016/j.envres.2017.07.025
16. Bandaly V., Joubert A., Le Cann P., Andres Y. The Fate of Mengovirus on Fiberglass Filter of Air Handling Units. **Food Environ. Virol.** 2017 Dec;9(4):464-472. 2017 DOI 10.1007/s12560-017-9310-8.
17. Le Cann P., Paulus H., Gloennec P., Le Bot B., Frain S., Gangneux J.P. Home Environmental Interventions for the Prevention or Control of Allergic and Respiratory Diseases: What Really Works. **J. Allergy Clin. Immunol. Pract.** 2017;5:66-79
18. Gangneux J.P., Reponen T., Vesper S., Méheust D., Le Cann P. Characterization of the home fungal exposure using high throughput new generation sequencing (NGS) on air samples: a pilot study. **Mycoses**, 2017, 60 (Supplement S2), pp.122-122. <10.1111/myc.12674>
19. Gangneux J.P., Belaz S., Rivier A., Le Cann P., Guillaso M., Donnio P., Blanchard O., Mercier F., Surget E., Baures E. Florentin A. Analyse physicochimique et microbiologique de la Qualité de l'Air Intérieur dans les établissements HOSPitaliers : l'étude QAIHOSP. **J. Mycol. Med.** 2016; 2:e10
20. Dallongeville A., Le Cann P., Zmirou-Navier D., Chevrier C., Costet N., Annesi-Maesano I., Blanchard O. Concentration and determinants of molds and allergens in indoor air and house dust of French dwellings. **Sci. Total Environ.** 2015;536:964-72.
21. Le Cann P., Méheust D., Reponen T., Vesper S., Gangneux J.P. Intérêt du séquençage haut-débit (NGS) sur prélèvements d'air pour la caractérisation de l'exposition fongique domiciliaire. **J. Mycol. Med.** 2015; 3:222
22. Karki K., Le Cann P. Identification of Environmental Factors Involved in Legionella Development. **International Journal of Interdisciplinary and Multidisciplinary Studies (IJIMS)**, 2014, Vol 2, No.2, 120-127.

23. Buffet-Bataillon S., Cha-Minjolle S., Vialard C., Prajapati R., Bellanger M., Collimon R., Le Cann P. Épisode de gastroentérite à Norovirus en dermatologie et étude de surcoût. **Hygiènes**, 2014, 23 (3), 219-224.
24. Jung A.V., Le Cann P., Roig B., Thomas O., Baurès E., Thomas M.F. Microbial Contamination Detection in Water Resources: Interest of Current Optical Methods, Trends and Needs in the Context of Climate Change. **Int. J. Environ. Res. Public Health** 2014, 11(4), 4292-4310.
25. Méheust D., Le Cann P., Reboux G., Million L., Gangneux J.P. Indoor fungal contamination: health risks and measurement methods in hospitals, homes and workplaces. **Critical Reviews in Microbiology**, 2014, 40(3), 248-260.
26. Gangneux J.P., Méheust D., Le Cann P., Reponen T., Vesper S. DNA-based quantification of mycotoxin producing fungi in French dwellings. **Mycoses**, 2013, 56 Supplement: 3, 133-133
27. Méheust D., Guiguen C., Gangneux J.P., Le Cann P. Comparative evaluation of impactor air samplers and of culture conditions for quantification of fungal contamination. **Journal of Occupational & Environmental Hygiene**, 2013, 10(8):455-9.
28. Lapidus N., de Lamballerie X., Salez N., Setbon M., Delabre R.M., Ferrari P., Moyen N., Gougeon M.L., Vely F., Leruez-Ville M., Andreoletti L., Cauchemez S., Boëlle P.Y., Vivier E., Abel L., Schwarzing M., Legeas M., Le Cann P., Flahault A., Carrat F. Factors Associated with Post-Seasonal Serological Titer and Risk Factors for Infection with the Pandemic A/H1N1 Virus in the French General Population. **PLoS One**. 2013 Apr 16;8(4):e60127. doi: 10.1371/journal.pone.0060127.
29. Cadière A., Couturaud B., Boismard J., Le Cann P., Gérard A., Mas A., Faye C., Garrelly L., Roig B. Assessment of poly-L-Lysine dendrigrafts for virus concentration in water: use of MS2 bacteriophage as proof of concept. **Journal of Applied Microbiology**, 2013, 115(1):290-7.
30. Méheust D., Le Cann P., Gangneux J.P. Rapid quantification of viable fungi in hospital environments: analysis of air and surface samples using solid-phase cytometry. **Journal of Hospital Infection**, 2013, 83:122-126.
31. Méheust D., Le Cann P., Reponen T., Wakefield J., Vesper S., Gangneux J.P. Possible Application of the Environmental Relative Moldiness Index in France. **International Journal of Hygiene and Environmental Health**, 2013, 216:333-40.
32. Méheust D., Le Cann P., Gangneux J.P. Quantification rapide des champignons viables dans les environnements hospitaliers : analyse d'échantillons d'air et de surface par cytométrie en phase solide. **Journal de Mycologie Médicale**, 2012, 22:282.
33. Méheust D., Le Cann P., Reponen T., Wakefield J., Vesper S., Gangneux J.P. Possible application of the environmental relative moldiness index (ERMI) in Brittany, France. **Journal de Mycologie Médicale**, 2012, 22:272.
34. Méheust D., Gangneux J.P. , Reponen T., Wimer L., Vesper S., Le Cann P. Correlation between Environmental Relative Moldiness Index (ERMI) Values in French Dwellings and other Measures of Fungal Contamination. **Science of the total environment**, 2012, 438: 319-324.

35. Lapidus N., De Lamballerie X., Salez N., Setbon M., Ferrari L., Delabre R., Gougeon M.L., Vely F., Leruez-Ville M., Andreoletti L., Cauchemez S., Boëlle P.Y., Vivier E., Abel L., Schwarzing M., Legeas M., Le Cann P., Flahault A., Carrat F. Integrative study of pandemic A/H1N1 influenza infections: design and methods of the CoPanFlu-France cohort. **BMC Public Health** 2012, 12:417.
36. Le Cann P., Bonvallet N., Glorennec P., Deguen S., Goeury C., Le Bot B. Indoor environment and children's health: recent developments in chemical, microbial, physical and social aspects. **International Journal of Hygiene and Environmental Health**, 2011, 215: 1-18.
37. Sobral D., Le Cann P., Gérard A., Jarraud S., Lebeau B., Loisy-Hamon F., Vergnaud G., Pourcel C., High throughput typing method identifies a non-outbreak-involved strain of *Legionella pneumophila* colonizing the entire water supply system in the town of Rennes, France. **Applied and Environmental Microbiology**, 2011, 77: 6899-6907.
38. Lapidus N., De Lamballerie X., Salez N., Moyen N., Ferrari P., Gougeon M.L., Vely F., Leruez-Ville M., Andreoletti L., Cauchemez S., Boëlle P.Y., Vivier E., Abel L., Schwarzing M., Setbon M., Legeas M., Le Cann P., Flahault A., Carrat F. 2011. Association between pandemic and seasonal influenza vaccination and haemagglutination antibody titers against A/H1N1v: a national representative survey in France, nested in the "Cohorts for Pandemic Influenza" (CoPanFlu – France). **Influenza and Other Respiratory Viruses**, 2011 : 5 ; S1, 180-183.
39. Gallay A., De Valk H., Cournot M., Ladeuil B., Hemery C., Castor C., Bon F., Mégraud F., Le Cann P., Desenclos J.C. A large multi-pathogen waterborne community outbreak linked to faecal contamination of a groundwater system, France, 2000. **Clinical and Microbiological Infection** 2006, 12 : 561-70.
40. Loisy F., Atmar R.L., Guillon P., Le Cann P., Pommepuy M., Le Guyader F.S. Real-time RT-PCR for norovirus screening in shellfish. **Journal of Virological Methods**, 2005, 123 : 1-7.
41. Le Cann P., Ranarijaona S., Monpoeho S., Le Guyader F., Ferré V. Quantification of human astroviruses in sewage using real-time RT-PCR. **Research in Microbiology**, 2004, 155 : 11-15.
42. Loisy F., Le Cann P., Pommepuy M., Le Guyader F. An improved method for the detection of Norwalk-like caliciviruses in environmental samples. **Letters in Applied Microbiology**, 2000, 30 : 1-6.
43. Le Guyader F., Estes M.K., Kopecka H., Le Cann P., Pommepuy M. Apport de la biologie moléculaire pour détecter les virus entériques humains dans les coquillages. **Virologie**, 2000, 4 : 241-247
44. Mahe D., Blanchard P., Truong C., Arnaud C., Le Cann P., Cariolet R., Madec F, Albina E., Jestin A. Differential recognition of ORF2 protein from type 1 and type 2 porcine circoviruses and identification of immunorelevant epitopes. **Journal of General Virology**, 2000, 81: 1815-1824
45. Mankertz A., Domingo M., Folch J.M., Le Cann P., Jestin A., Segales J., Chmielewicz B., Planaduran J., Soike D. Characterisation of PCV-2 isolates from Spain, Germany and France. **Virus Research**, 2000, 66 : 65-77.
46. Le Cann P., Albina E., Jestin A. Piglet wasting disease. **Veterinary Records**, 1997, 141 : 660.

47. Dupuy C., Buzoni-Gatel D., Touze A., Le Cann P., Bout D., Coursaget P. Cell-mediated immunity induced by human papillomavirus 16 L1 pseudo-viral particles. **Microbiological Pathogenesis**, 1997, 22 : 219-225.
48. Le Cann P., Tong M.J., Werneke J., Coursaget P. Hepatitis E in patients with autoimmune chronic active hepatitis and primary biliary cirrhosis. **Scandinavian Journal of Gastroenterology**, 1997, 32 : 387-389.
49. Chabaud M., Le Cann P., Mayelo V., Leboulleux D., Diallo A.S., Enogat N., Afoutou J.M., Anthonioz P., Coll Seck A.M., Coursaget P. Detection of Human Papillomavirus genotypes by PCR in cervical lesions from senegalese women. **Journal of Medical Virology**, 1996, 49 : 259-263.
50. Touze A., Dupuy C., Chabaud M., Le Cann P., Coursaget P. Production of human papillomavirus type 45 virus-like particles in insect cells using a recombinant baculovirus. **FEMS Microbiology Letters**, 1996, 141: 111-116.
51. Le Cann P., Touze A., Enogat N., Leboulleux D., Mougin C., Legrand M.C., Calvet C., Afoutou J., Coursaget P. Detection of antibodies against Human Papillomavirus type 16 virions by means of an ELISA using recombinant HPV16 L1 capsids produced by recombinant baculovirus. **Journal of Clinical Microbiology**, 1995, 33: 1380-1382.
52. Le Cann P., Chabaud M., Leboulleux D., Mougin C., Mayelo V., Legrand M.C. Calvet C., Afoutou J., Coll-Seck A.M., Coursaget P. Detection of antibodies to L1, L2 and E4 gene products of human papillomavirus types 6, 11 and 16 among HPV infected patients and controls. **Journal of Medical Virology**, 1995, 45: 410-414.
53. Coursaget P., Leboulleux D., Soumare M., Le Cann P., Yvonnet B., Chiron J.P., Coll-Seck A.M., Diop-Mar I. Twelve-year follow-up study of hepatitis B vaccination of Senegalese infants. **Journal of Hepatology**, 1994, 21: 250-254.
54. Le Cann P., Coursaget P., lochmann S., Touze A. Self-Assembly of human Papillomavirus type 16 capsids by expression of the L1 protein in insect cells. **FEMS Microbiology Letters**, 1994, 117: 269-274.
55. Leboulleux D., Soumare M., Le Cann P., Coll-Seck A.M., Diop-Mar I, Coursaget P. Loss of anti-HBc antibodies after HBV infection in immunized Senegalese children. **Vaccine**, 1993, 11 : 486.
56. Coursaget P., Buisson Y., Depril N., Le Cann P., Chabaud M., Molinie C., Roué R. Mapping of linear B cell epitopes on open reading frames 2- and 3-encoded proteins of hepatitis E virus using synthetic peptides. **FEMS Microbiological Letters** 1993, 109 : 251-255.
57. Chabaud M., Depril N., Le Cann P., Leboulleux D., Nandi R., A.M. Coll-Seck, Coursaget P. Detection of HBV DNA by polymerase chain reaction in vaccinated and non vaccinated Senegalese children. **Archives of Virology**, 1993, 8 S : 123-131.
58. Coursaget P., Depril N., Chabaud M., Nandi R., Mayelo V., Le Cann P., Yvonnet B. High prevalence of mutations at codon 249 of the P 53 gene in hepatocellular carcinomas from Senegal. **British Journal of Cancer**, 1993, 67 : 1395-1397.
59. Coursaget P., Leboulleux D., Le Cann P., Bao O., Coll-Seck A.M. Hepatitis C virus infection in cirrhosis and primary hepatocellular carcinoma in Senegal. **Transactions of the Royal Society Tropical Medicine and Hygiene**. 1992, 86 : 552-553.

60. Coursaget P., Lesage G., Simpson B., Mayelo V., Le Cann P. Incidence of hepatitis C virus infection in burn patients: detection of anti-C100, anti-C33c and anti-Core antibodies. **Biomedecine and Pharmacotherapy**, 1991, 45 : 445-449.
61. Coursaget P., Lesage G., Le Cann P., Mayelo V., Bourdil C. Mapping of linear B cell epitopes of hepatitis B surface antigen. **Research in Virology**, 1991, 142 : 461- 467.
62. Coursaget P., Le Cann P., Leboulleux D., Diop M.T., Bao O., Coll A.M. Detection of hepatitis B virus DNA by polymerase chain reaction in HBsAg negative Senegalese patients suffering from cirrhosis or primary liver cancer. **FEMS Microbiology Letters**, 1991, 83 : 35-38.

## **II. BRE - Brevets (indiquer les licences éventuelles).**

63. Jestin A., Albina E., Le Cann P., Blanchard P., Hutet E., Arnauld C. Circovirus associé à la maladie d'amaigrissement du porcelet (M.A.P.). Caractérisation de son génome et des montages moléculaires permettant l'étude de ses propriétés pathogéniques, de la composition de vaccins et de kits de diagnostic. Déposé en France le 5 décembre 1997.
64. Jestin A., Albina E., Le Cann P., Blanchard P., Hutet E., Arnauld C., Truong C., Mahe D. Cariolet R., Madec F. Circovirus sequences associated with piglet weight loss disease (PWD). Déposé aux Etats Unis le 28 février 2000. Licence cédée à Intervet.