



Recherche Santé Environnement Intérieur

**Veille scientifique sur le thème *Santé Environnement intérieur***

**2005 – 2<sup>ème</sup> et 3<sup>ème</sup> trimestres**

**211 articles ont été répertoriés pendant la période du 1<sup>er</sup> mai 2005 au 10 octobre 2005.**

Les articles sont classés selon les chapitres suivants :

**I- SUBSTANCES**

- I-1. Gaz inorganiques (radon, O<sub>3</sub>, NO<sub>x</sub>, CO)
- I-2. Composés Organiques Volatils et Composés Organiques Semi-Volatils
- I-3. Particules
- I-4. Biocontaminants
- I-5. Pesticides / biocides
- I-6. Métaux
- I-7. Fumée de tabac environnementale

**II- LIEUX DE VIE**

- II-1. Habitat privé
- II-2. Transports
- II-3. Autres lieux de vie : écoles, bureaux, espaces de loisirs, lieux publics
- II-4. Ventilation
- II-5. Modélisation
- II-6. Relations air intérieur - air extérieur

**III- EFFETS SANITAIRES**

- III-1. Effets chez l'animal
- III-2. Effets chez l'homme
- III-3. Populations sensibles

**IV- EVALUATION DES RISQUES**

- IV-1. Expologie : mesure de l'exposition et ses outils (indicateurs biologiques, budgets espace-temps)
- IV-2. Evaluation des risques

**V- GESTION / REMEDIATION**

**VI- ARTICLES GENERAUX SUR LA THEMATIQUE**

Chaque article, à l'exception des articles de synthèse qui sont compilés en fin de document, n'apparaît que dans un seul chapitre. Le lecteur est dès lors invité à compléter sa consultation d'un chapitre particulier par une recherche par mot-clé.

Le lecteur est invité à se reporter à la note relative à la veille scientifique pour la liste des revues et bases de recherche bibliographique consultées dans le cadre de la veille scientifique menée par le réseau RSEIN.



## I- SUBSTANCES

### I-1. Gaz inorganiques

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- RADON

1. Billon, S., A. Morin, et al. (2005). "French population exposure to radon, terrestrial gamma and cosmic rays." Radiation Protection Dosimetry 113(3): 314-320.
2. Friedmann, H. (2005). "Final results of the Austrian Radon Project." Health Physics 89(4): 339-348.
3. Karpinska, M., Z. Mnich, et al. (2005). "Time changeability in radon concentration in one-family dwelling houses in the northeastern region of Poland." Radiation Protection Dosimetry 113(3): 300-307.
4. Kitto, M. E. (2005). "Interrelationship of indoor radon concentrations, soil-gas flux, and meteorological parameters." Journal of Radioanalytical and Nuclear Chemistry 264(2): 381-385.
5. Krewski, D., R. Mallick, et al. (2005). "Modeling seasonal variation in indoor radon concentrations." Journal of Exposure Analysis and Environmental Epidemiology 15(3): 234-243.
6. Sahota, H. S., K. S. Randhawa, et al. (2005). "Temperature variation of indoor and outdoor radon progeny." Atmospheric Environment 39(16): 2991-2994.
7. Tung, T. C. W., J. L. Niu, et al. (2005). "Methodology for determination of radon-222 production rate of residential building and experimental verification." Radiation Measurements 40(1): 110-117.
8. Tung, T. C. W., D. W. T. Chan, et al. (2005). "An empirical radon emanation model for residential premises." Building and Environment 40(11): 1566-1571.
9. Yarar, Y., T. Gunaydi, et al. (2005). "Indoor radon determination in dwellings located at Dikili geothermal area in western Turkey." Health Physics 89(2): 145-150.

#### ARTICLE DE SYNTHÈSE

10. Wysocka, M., A. Kotyrba, et al. (2005). "Geophysical methods in radon risk studies." Journal of Environmental Radioactivity 82(3): 351-362.
  11. Flores, O. B., A. M. Estrada, et al. (2005). "Natural radioactivity in some building materials in Cuba and their contribution to the indoor gamma dose rate." Radiation Protection Dosimetry 113(2): 218-222.
  12. Porstendorfer, J., P. Pagelkopf, et al. (2005). "Fraction of the positive Po-218 and Pb-214 clusters in indoor air." Radiation Protection Dosimetry 113(3): 342-351.
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- CO

13. Burresti, A., A. Fort, et al. (2005). "Dynamic CO recognition in presence of interfering gases by using one MOX sensor and a selected temperature profile." Sensors and Actuators B-Chemical 106(1): 40-43.

- O<sub>3</sub>

14. Wisthaler, A., G. Tamas, et al. (2005). "Products of ozone-initiated chemistry in a simulated aircraft environment." Environmental Science & Technology 39(13): 4823-4832.

## I-2. COV, COSEmi-Volatils

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- **COV**

15. Massold, E., C. Bahr, et al. (2005). "Determination of **VOC and TVOC** in air using thermal desorption GC-MS - Practical implications for test chamber experiments." *Chromatographia* 62(1-2): 75-85.
16. Pratt, G. C., D. Bock, et al. (2005). "A field comparison of **volatile organic compound measurements** using passive organic vapor monitors and stainless steel canisters." *Environmental Science & Technology* 39(9): 3261-3268.
17. Wang, A. P., F. Fang, et al. (2005). "Sampling and determination of **volatile organic compounds** with needle trap devices." *Journal of Chromatography A* 1072(1): 127-135.
18. Pennequin-Cardinal, A., H. Plaisance, et al. (2005). "Performances of the Radiello((R)) diffusive sampler for **BTEX** measurements: Influence of environmental conditions and determination of modelled sampling rates." *Atmospheric Environment* 39(14): 2535-2544.
19. Zhu, J. P., R. Newhook, et al. (2005). "Selected **volatile organic compounds** in residential air in the city of Ottawa, Canada." *Environmental Science & Technology* 39(11): 3964-3971.
20. Gilbert, N. L., M. Guay, et al. (2005). "Levels and determinants of **formaldehyde, acetaldehyde, and acrolein** in residential indoor air in Prince Edward Island, Canada." *Environmental Research* 99(1): 11-17.
21. Gustafson, P., L. Barregard, et al. (2005). "**Formaldehyde** levels in Sweden: personal exposure, indoor, and outdoor concentrations." *Journal of Exposure Analysis and Environmental Epidemiology* 15(3): 252-260.

- **Semi-volatils : PCB, AP, retardateurs de flamme, ...**

22. Nilsson, A., V. Lagesson, et al. (2005). "Quantitative determination of **volatile organic compounds in indoor dust** using gas chromatography-UV spectrometry." *Environment International* 31(8): 1141-1148.
23. Shoeib, M., T. Harner, et al. (2005). "**Perfluorinated sulfonamides** in indoor and outdoor air and indoor dust: Occurrence, partitioning, and human exposure." *Environmental Science & Technology* 39(17): 6599-6606.
24. Staaf, T. and C. Ostman (2005). "Indoor air sampling of **organophosphate triesters** using solid phase extraction (SPE) adsorbents." *Journal of Environmental Monitoring* 7(4): 344-348.
25. Staaf, T. and C. Ostman (2005). "**Organophosphate triesters** in indoor environments." *Journal of Environmental Monitoring* 7(9): 883-887.
26. Jones-Otazo, H. A., J. P. Clarke, et al. (2005). "**Is house dust the missing exposure pathway for PBDEs?** An analysis of the urban fate and human exposure to PBDEs." *Environmental Science & Technology* 39(14): 5121-5130.
27. Marklund, A., B. Andersson, et al. (2005). "**Organophosphorus flame retardants** and plasticizers in air from various indoor environments." *Journal of Environmental Monitoring* 7(8): 814-819.
28. Wilford, B. H., M. Shoeib, et al. (2005). "**Polybrominated diphenyl ethers** in indoor dust in Ottawa, Canada: Implications for sources and exposure." *Environmental Science & Technology* 39(18): 7027-7035.
29. Barro, R., S. Ares, et al. (2005). "Sampling and analysis of **polychlorinated biphenyls** in indoor air by sorbent enrichment followed by headspace solid-phase microextraction and gas chromatography-tandem mass spectrometry." *Journal of Chromatography A* 1072(1): 99-106.
30. Kohler, M., J. Tremp, et al. (2005). "Joint sealants: An overlooked diffuse source of **polychlorinated biphenyls** in buildings." *Environmental Science & Technology* 39(7): 1967-1973.
31. Li, A., T. M. Schoonover, et al. (2005). "**Polycyclic aromatic hydrocarbons** in residential air of ten Chicago area homes: Concentrations and influencing factors." *Atmospheric Environment* 39(19): 3491-3501.

- **Émissions des matériaux**

32. Kim, S. and H. J. Kim (2005). "Comparison of **formaldehyde emission from building finishing** materials at various temperatures in under heating system; ONDOL." *Indoor Air* 15(5): 317-325.
33. Lee, C. S., F. Haghghat, et al. (2005). "A study on **VOC source and sink** behavior in porous building **materials** - analytical model development and assessment." *Indoor Air* 15(3): 183-196.
34. Li, F. and H. L. Niu (2005). "Simultaneous estimation of **VOCs** diffusion and partition coefficients in **building materials** via inverse analysis." *Building and Environment* 40(10): 1366-1374.
35. Switaj-Zawadka, A., P. Konieczka, et al. (2005). "Chemically modified glass fiber as a matrix-free **reference material** for volatile compounds." *Analytical Chemistry* 77(9): 3018-3020.

- **Réactions chimiques dans l'air intérieur**

36. Fan, Z. H., C. J. Weschler, et al. (2005). "Co-formation of hydroperoxides and ultra-fine particles during the reactions of **ozone with a complex VOC** mixture under simulated indoor conditions." *Atmospheric Environment* 39(28): 5171-5182.
37. Wells, J. R. (2005). "Gas-phase **chemistry of alpha-terpineol with ozone and OH radical**: Rate constants and products." *Environmental Science & Technology* 39(18): 6937-6943.

### **I-3. Particules**

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38. Abdul-Wahab, S., M. A. Worthing, et al. (2005). "Mineralogy of atmospheric suspended **dust** in three indoor and one outdoor location in Oman." *Environmental Monitoring and Assessment* 107(1-3): 313-327.
39. He, C. R., L. Morawska, et al. (2005). "**Particle deposition** rates in residential houses." *Atmospheric Environment* 39(21): 3891-3899.
40. Lai, A. C. K. and W. W. Nazaroff (2005). "Supermicron **particle deposition** from turbulent chamber flow onto smooth and rough vertical surfaces." *Atmospheric Environment* 39(27): 4893-4900.
41. Smolik, J., M. Lazaridis, et al. (2005). "Indoor aerosol **particle** deposition in an empty office." *Water Air and Soil Pollution* 165(1-4): 301-312.
42. Fews, A. P., N. K. Holden, et al. (2005). "A novel high-resolution small ion spectrometer to study ion nucleation of **aerosols** in ambient indoor and outdoor air." *Atmospheric Research* 76(1-4): 29-48.
43. Meng, Q. Y., B. J. Turpin, et al. (2005). "**PM2.5** of ambient origin: Estimates and exposure errors relevant to PM epidemiology." *Environmental Science & Technology* 39(14): 5105-5112.
44. Na, K. and D. R. Cocker (2005). "Organic and elemental carbon concentrations in **fine particulate matter** in residences, schoolrooms, and outdoor air in Mira Loma, California." *Atmospheric Environment* 39(18): 3325-3333.

### **I-4. Biocontaminants**

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45. Foto, M., L. L. P. Vrijmoed, et al. (2005). "A comparison of airborne **ergosterol, glucan and Air-O-Cell** data in relation to physical assessments of mold damage and some other parameters." *Indoor Air* 15(4): 257-266.
46. Kalogerakis, N., D. Paschali, et al. (2005). "Indoor air quality - **bioaerosol measurements** in domestic and office premises." *Journal of Aerosol Science* 36(5-6): 751-761.

47. Keswani, J., M. L. Kashon, et al. (2005). "Evaluation of interference to conventional and real-time PCR for detection and quantification of **fungi in dust**." *Journal of Environmental Monitoring* 7(4): 311-318.
48. Vesper, S. J., L. J. Wymer, et al. (2005). "Comparison of populations of **mould species** in homes in the UK and USA using mould-specific quantitative PCR." *Letters in Applied Microbiology* 41(4): 367-373.
49. Korsgaard, J. and H. Harving (2005). "**House-dust mites** and summer cottages." *Allergy* 60(9): 1200-1203.
50. Liao, C. M. and W. C. Luo (2005). "Use of temporal/seasonal- and size-dependent **bioaerosol** data to characterize the contribution of outdoor fungi to residential exposures." *Science of the Total Environment* 347(1-3): 78-97.
51. Meyer, H. W., K. A. Jensen, et al. (2005). "Double blind placebo controlled exposure to **molds**: exposure system and clinical results." *Indoor Air* 15: 73-80.
52. Macher, J. M., F. C. Tsai, et al. (2005). "Concentrations of **cat and dust-mite allergens** in dust samples from 92 large US office buildings from the BASE Study." *Indoor Air* 15: 82-88.
53. Rao, C. Y., J. M. Cox-Ganser, et al. (2005). "Use of surrogate markers of **biological agents** in air and settled dust samples to evaluate a water-damaged hospital." *Indoor Air* 15: 89-97.
54. Rockwell, W. (2005). "Prompt remediation of water intrusion corrects the resultant **mold contamination** in a home." *Allergy and Asthma Proceedings* 26(4): 316-318.
55. Schleibinger, H., D. Laussmann, et al. (2005). "Emission patterns and emission rates of MVOC and the possibility for predicting hidden **mold** damage?" *Indoor Air* 15: 98-104.
56. Charpin, D., S. Boutin-Forzano, et al. (2005). "Wall relative humidity: a simple and reliable index for predicting **Stachybotrys chartarum** infestation in dwellings." *Bulletin De L Academie Nationale De Medecine* 189(1): 43-51.
57. Claeson, A. S. and A. L. Sunesson (2005). "Identification using versatile sampling and analytical methods of volatile compounds from **Streptomyces albidoflavus** grown on four humid building materials and one synthetic medium." *Indoor Air* 15: 41-47.
58. Rogers, J. V., C. L. K. Sabourin, et al. (2005). "Decontamination assessment of **Bacillus anthracis, Bacillus subtilis, and Geobacillus stearothermophilus spores** on indoor surfaces using a hydrogen peroxide gas generator." *Journal of Applied Microbiology* 99(4): 739-748.
59. Sebastian, A., B. Szponar, et al. (2005). "Characterization of the **microbial** community in indoor environments by chemical marker analysis: an update and critical evaluation." *Indoor Air* 15: 20-26.
60. Tham, K. W. and M. S. Zuraimi (2005). "Size relationship between airborne viable **bacteria** and particles in a controlled indoor environment study." *Indoor Air* 15: 48-57.
61. Tsai, F. C. and J. M. Macher (2005). "Concentrations of airborne culturable **bacteria** in 100 large US office buildings from the BASE study." *Indoor Air* 15: 71-81.
62. Hersoug, L. G. (2005). "**Viruses** as the causative agent related to 'dampness' and the missing link between allergen exposure and onset of allergic disease." *Indoor Air* 15(5): 363-366.
63. Wady, L. and L. Larsson (2005). "Determination of **microbial volatile organic compounds** adsorbed on house dust particles and gypsum board using SPME/GC-MS." *Indoor Air* 15: 27-32.
64. Fabian, M. P., S. L. Miller, et al. (2005). "Ambient **bioaerosol indices** for indoor air quality assessments of flood reclamation." *Journal of Aerosol Science* 36(5-6): 763-783.

#### **ARTICLE DE SYNTHÈSE**

65. Lichtnecker, H. (2005). "Indoor **allergens**." *Allergologie* 28(8): 323-329.

**ARTICLE DE SYNTHÈSE**

66. Levetin, E. (2004). "Methods for **aeroallergen sampling**." Current Allergy and Asthma Reports 4(5): 376-383.

**ARTICLE DE SYNTHÈSE**

67. Nevalainen, A. and M. Seuri (2005). "Of **microbes** and men." Indoor Air 15: 58-64.

**I-5. Pesticides**

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68. Leng, G., E. Berger-Preiss, et al. (2005). "**Pyrethroids** used indoor - ambient monitoring of pyrethroids following a pest control operation." International Journal of Hygiene and Environmental Health 208(3): 193-199.

**I-6. Métaux lourds**

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69. Komarnicki, G. J. K. (2005). "**Lead and cadmium** in indoor air and the urban environment." Environmental Pollution 136(1): 47-61.

**I-7. Fumée de tabac environnementale**

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*Pas d'article*



## II- LIEUX DE VIE

### II-1. Habitat privé

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- Combustion de bois résidentielle

70. Molnar, P., P. Gustafson, et al. (2005). "Domestic wood burning and PM2.5 trace elements: Personal exposures, indoor and outdoor levels." Atmospheric Environment 39(14): 2643-2653.

### II-2. Transports

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71. Justino, C. M., G. R. S. Segundo, et al. (2005). "Mite and pet allergen exposure in Brazilian private cars." Annals of Allergy Asthma & Immunology 94(6): 658-661.
72. Lindgren, T. and D. Norback (2005). "Health and perception of cabin air quality among Swedish commercial airline crew." Indoor Air 15: 65-72.
73. Seaton A, Cherrie J, Dennekamp M, Donaldson K, Hurley JF, Tran CL, The London Underground: dust and hazards to health, OCCUPATIONAL AND ENVIRONMENTAL MEDICINE 62 (6): 355-362 JUN 2005

### II-3. Autres lieux de vie

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- Ecoles

74. Chew, G. L., J. C. Correa, et al. (2005). "Mouse and cockroach allergens in the dust and air in northeastern United States inner-city public high schools." Indoor Air 15(4): 228-234.
75. Fox, A., W. Harley, et al. (2005). "Large particles are responsible for elevated bacterial marker levels in school air upon occupation." Journal of Environmental Monitoring 7(5): 450-456.
76. Fromme, H., T. Lahrz, et al. (2005). "Elemental carbon and respirable particulate matter in the indoor air of apartments and nursery schools and ambient air in Berlin (Germany)." Indoor Air 15(5): 335-341.
77. Instanes, C., G. Hetland, et al. (2005). "Allergens and endotoxin in settled dust from day-care centers and schools in Oslo, Norway." Indoor Air 15(5): 356-362.
78. Putus, T., A. Tuomainen, et al. (2005). "Chemical and microbial exposures in a school building: Adverse health effects in children." Archives of Environmental Health 59(4): 194-201.
79. Shin, H. S., J. K. Lee, et al. (2005). "Measurement of indoor air quality for ventilation with the existence of occupants in schools." Journal of Mechanical Science and Technology 19(4): 1001-1005.
80. Halina Röllin, Angela Mathee, Jonathan Levin, Penny Theodorou and Francois Wewers, Blood manganese concentrations among first-grade schoolchildren in two South African cities, Environmental Research Volume 97, Issue 1, January 2005, Pages 93-99
81. Ebbehøj, N. E., H. W. Meyer, et al. (2005). "Molds in floor dust, building-related symptoms, and lung function among male and female schoolteachers." Indoor Air 15: 7-16.

- **Musées**

82. La Gennusa, M., G. Rizzo, et al. (2005). "Control of indoor environments in **heritage buildings**: experimental measurements in an old Italian museum and proposal of a methodology." *Journal of Cultural Heritage* 6(2): 147-155.
83. Salmon, L. G., P. R. Mayo, et al. (2005). "Airborne particles in new **museum** facilities." *Journal of Environmental Engineering-Asce* 131(10): 1453-1461.

- **Hôpitaux**

84. Prokopowicz, A. and W. Mniszek (2005). "Mercury vapor determination in **hospitals**." *Environmental Monitoring and Assessment* 104(1-3): 147-154.

- **Patinoires**

85. Rosenlund, M., S. Jungnelius, et al. (2005). "A 5-year follow-up of airway symptoms after nitrogen dioxide exposure in an indoor **ice arena**." *Archives of Environmental Health* 59(4): 213-217.

- **Magasins**

86. Vaizoglu, S. A., S. Aycan, et al. (2005). "Determination of formaldehyde levels in 100 **furniture workshops** in Ankara." *Tohoku Journal of Experimental Medicine* 207(2): 157-163.

- **Autres**

87. Curiel-Esparza, J. and J. Canto-Perello (2005). "Indoor atmosphere hazard identification in person entry urban **utility tunnels**." *Tunnelling and Underground Space Technology* 20(5): 426-434.

## **II-4. Ventilation**

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88. S. J. Lloyd-Owen, G. C. Donaldson, N. Ambrosino, J. Escarabill, R. Farre, B. Fauroux, D. Robert, B. Schoenhofer, A. K. Simonds and J. A. Wedzicha, **Patterns of home mechanical ventilation** use in Europe: results from the Eurovent survey, *Eur Respir J* 2005; 25:1025-1031
89. Bouilly, J., K. Limam, et al. (2005). "Effect of **ventilation strategies** on particle decay rates indoors: An experimental and modelling study." *Atmospheric Environment* 39(27): 4885-4892.
90. Hanninen, O. O., J. Palonen, et al. (2005). "Reduction potential of urban PM2.5 mortality risk **using modern ventilation** systems in buildings." *Indoor Air* 15(4): 246-256.
91. Nassif, N., S. Kajl, et al. (2005). "**Ventilation** control strategy using the supply CO2 concentration setpoint." *Hvac&R Research* 11(2): 239-262.

## **II-5. Modélisation**

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92. He, G., X. Yang, et al. (2005). "Removal of contaminants released from room surfaces by displacement and mixing ventilation: **modeling** and validation." *Indoor Air* 15(5): 367-380.
93. Beghein, C., Y. Jiang, et al. (2005). "Using large **eddy simulation** to study particle motions in a room." *Indoor Air* 15(4): 281-290.
94. Lai, A. C. K. (2005). "**Modeling indoor coarse particle deposition** onto smooth and rough vertical surfaces." *Atmospheric Environment* 39(21): 3823-3830.
95. Zhang, J. S. S. (2005). "Combined heat, air, moisture, and pollutants transport in building environmental systems." *Jsme International Journal Series B-Fluids and Thermal Engineering* 48(2): 182-190.

## II-6. Air extérieur – Air intérieur

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96. Cao, J. J., S. C. Lee, et al. (2005). "[Indoor/outdoor relationships](#) for PM2.5 and associated carbonaceous pollutants at residential homes in Hong Kong - case study." *Indoor Air* 15(3): 197-204.
97. Hussein, T., K. Hameri, et al. (2005). "[Indoor and outdoor](#) particle size characterization at a family house in Espoo-Finland." *Atmospheric Environment* 39(20): 3697-3709.
98. Matson, U. (2005). "[Indoor and outdoor](#) concentrations of ultrafine particles in some Scandinavian rural and urban areas." *Science of the Total Environment* 343(1-3): 169-176.
99. Spicer, R. and H. Gangloff (2005). "Establishing site specific reference levels for [fungi in outdoor](#) air for building evaluation." *Journal of Occupational and Environmental Hygiene* 2(5): 257-266.

- **Sols pollués**

100. Abreu, L. D. V. and P. C. Johnson (2005). "Effect of vapor source - building separation and building construction on soil [vapor intrusion](#) as studied with a three-dimensional numerical model." *Environmental Science & Technology* 39(12): 4550-4561.
101. Durand, M. and B. J. Scott (2005). "Geothermal [ground gas emissions](#) and indoor air pollution in Rotorua, New Zealand." *Science of the Total Environment* 345(1-3): 69-80.

### **ARTICLE DE SYNTHÈSE**

102. Myers, I. and R. L. Maynard (2005). "[Polluted air - outdoors and indoors](#)." *Occupational Medicine-Oxford* 55(6): 432-438.



### III- EFFETS SANITAIRES

#### III-1. Effets chez l'animal

103. Johannessen, L. N., A. M. Nilsen, et al. (2005). "The mycotoxins citrinin and gliotoxin differentially affect production of the pro-inflammatory cytokines tumour necrosis factor-alpha and interleukin-6, and the anti-inflammatory cytokine interleukin-10." *Clinical and Experimental Allergy* 35(6): 782-789.
104. Rand, T. G., S. Giles, et al. (2005). "Inflammatory and cytotoxic responses in **mouse lungs** exposed to purified toxins from building isolated *Penicillium brevicompactum* Dierckx and *P-Chrysogenum* Thom." *Toxicological Sciences* 87(1): 213-222.
105. Hirvonen, M. R., K. Huttunen, et al. (2005). "Bacterial strains from moldy buildings are highly potent inducers of **inflammatory and cytotoxic effects**." *Indoor Air* 15: 65-70.
106. Takai, T., T. Kato, et al. (2005). "Recombinant Der p 1 and Der f 1 with in vitro enzymatic activity to cleave human CD23, CD25 and alpha(1)-antitrypsin, and in vivo IgE-eliciting activity in mice." *International Archives of Allergy and Immunology* 137(3): 194-200.
107. Schmechel, D., J. P. Simpson, et al. (2005). "The production and characterization of **monoclonal antibodies to the fungus *Aspergillus versicolor***." *Indoor Air* 15: 11-19.
108. Tsai, L. C., H. J. Peng, et al. (2005). "Molecular cloning and characterization of full-length cDNAs encoding a novel high-molecular-weight *Dermatophagoides pteronyssinus* mite allergen, Der p 11." *Allergy* 60(7): 927-937.

#### III-2. Effets chez l'homme

- Études globales

109. Meijer, A., M. A. J. Huijbregts, et al. (2005). "**Human health damages due to indoor sources** of organic compounds and radioactivity in life cycle impact assessment of dwellings - Part I: Characterisation factors." *International Journal of Life Cycle Assessment* 10(5): 309-316.
110. Krewski, D., R. T. Burnett, et al. (2005). "Reanalysis of the Harvard Six Cities Study, Part II: Sensitivity analysis." *Inhalation Toxicology* 17(7-8): 343-353.

#### ARTICLE DE SYNTHÈSE

111. Kunze, M. and C. Vutuc (2005). "**Health determinants in Europe for indoor and outdoor pollutants** from a public health and social medicine view." *Experimental and Toxicologic Pathology* 57: 9-17.

#### ARTICLE DE SYNTHÈSE

112. Gold, D. R. and R. Wright (2005). "**Population disparities in asthma**." *Annual Review of Public Health* 26: 89-113.

- Radon

113. Evrard, A. S., D. Hemon, et al. (2005). "Ecological association between **indoor radon concentration and childhood leukaemia incidence** in France, 1990-1998." *European Journal of Cancer Prevention* 14(2): 147-157.
114. Lubin, J. H., Z. Y. Wang, et al. (2005). "Adjusting **lung cancer risks** for temporal and spatial variations in **radon** concentration in dwellings in Gansu Province, China." *Radiation Research* 163(5): 571-579.
115. Toti, S., A. Biggeri, et al. (2005). "**Adult myeloid leukaemia and radon exposure**: a Bayesian model for a case-control study with error in covariates." *Statistics in Medicine* 24(12): 1849-1864.

116. Killip, I. R. (2005). "[Radon hazard and risk](#) in Sussex, England and the factors affecting radon levels in dwellings in Chalk terrain." *Radiation Protection Dosimetry* 113(1): 99-107.

117. Vukovic, B., D. Faj, et al. (2005). "[Indoor radon and lung cancer: a case-control study](#)." *Isotopes in Environmental and Health Studies* 41(2): 169-176.

- **HONO**

118. Jarvis, D. L., B. P. Leaderer, et al. (2005). "Indoor [nitrous acid and respiratory symptoms](#) and lung function in adults." *Thorax* 60(6): 474-479.

- **Biocontaminants**

119. Erwin, E. A., N. Custis, et al. (2005). "[Asthma and indoor air](#): contrasts in the dose response to [cat and dust-mite](#)." *Indoor Air* 15: 33-39.

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### IV-1 Expologie

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*Pas d'article*

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