

NICOLE LE MOUAL

Epidemiologist, respiratory and occupational diseases, PhD, HDR, Research Engineer (Ingénieur de recherche, IR1)

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Team : Integrative respiratory epidemiology

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EDUCATION AND POSITIONS

Education and Training

2013 HDR, Habilitation à Diriger des Recherches (French accreditation to supervise research) 'Epidémiologie des risques professionnels et de l'exposition domestique aux produits de nettoyage dans l'asthme', December 20, 2013, University Paris Sud

2005 PhD in Public health, Epidemiology 'Epidémiologie des risques professionnels dans les pathologies respiratoires obstructives', University Paris Sud.

2001 Master in Statistics/Epidemiology, Methodology and statistics in biomedical research, Univ. Paris Sud.

1983 Statistics and informatics, Rennes University, France

Position and employment

2020- Epidemiologist, Inserm UMR 1018 Centre for Epidemiology and Population Health, Villejuif, France

2015-2019 Epidemiologist, Inserm UMR 1168 Aging and chronic diseases. Epidemiological and public health approaches, Villejuif, France

2011-2012 Epidemiologist, sabbatical stay at CREAL, Barcelona, Spain

2010-2014 Epidemiologist, Research Engineer, Inserm CESP UMR 1018, Respiratory and Environmental Epidemiology, Villejuif, France

2004-2009 Epidemiologist, Engineer, Inserm U780, Respiratory and Environmental Epidemiology team, Villejuif, France

2002-2005 PhD student in the team: Respiratory and Environmental Epidemiology, Inserm U780, France

1992-2003 Epidemiologist / statistician, Assistant Engineer, Inserm U780, Respiratory and Environmental Epidemiology

1983-1992 Statistician, Assistant Engineer, Inserm U170, Epidemiological and Statistical Research on Environment and Health, Villejuif

SCIENTIFIC COMMITTEE OR OTHER EXPERIENCES

2019 Expert, evaluation of an Inserm unit, HCERES, France

2019 Rapporteur for thesis defence, 'work-related asthma', University of Nancy, France

2019 Examiner for thesis report, 'work-related asthma in health workers', University of Cape Town, School of Public Health and Family Medicine, South Africa

2018 Evaluation of a research project for a research foundation on Multiple sclerosis, ARSEP, France

2016/2018 Member of thesis committees, France

2012/2017 Evaluation of a research project for a research institute on occupational health and safety, Montréal, Canada

2017 Expert, evaluation of a research project, South Africa

2012-2016 Expert for a working package, Anses (French Agency for food, environmental and occupational health and safety), France

2012 Evaluation of two research projects for Anses, France

2011 Evaluation of a joint research project (Brazilian Swiss Joint Research Program) for Swiss Tech School Lausanne (EPFL), Swiss

2010-2016 Member of the scientific committee for an epidemiological study AGRICAN (AGRIculture & CANcer)

2009-2011 Member of the committee council of the Centre for Research in Epidemiology and Population Health

2007-2016 Expert and Member of the coordination committee for 'non carcinogenic respiratory disease and work', InVS, France

2004 Teaching at the Master 'methodology and statistics in biomedical research'

REVIEW FOR PAPERS IN REFEREED JOURNALS

In respiratory (American Journal of Respiratory and Critical Care Medicine, European Respiratory Journal, Thorax ...) and environmental (Occupational and Environmental Medicine, Environment International, American Journal of Industrial Medicine ...) journals

SUPERVISION OF PhD STUDENTS

- 2019-2022 G Sit 'Occupational exposure to irritants and respiratory health' – co-supervisor: O Dumas (Inserm U1018)
2018-2021 P Lemire 'Household exposure to cleaning products and respiratory health' - co-supervisor: V Siroux (Inserm U1209)
2015-2018 C Quinot 'Epidemiology of work-related asthma: assessment of occupational exposures and their association with the disease' (defended, 12 December 2018) – co-supervisor: O Dumas (Inserm U1168)
2014-2017 S Temam 'Social and geographical determinants of asthma' (defended, 30 May 2017) – co-supervisor: S. Rican (University Paris Nanterre)
2009-2012 O Dumas 'Work-related asthma' (defended, 4 December 2012) – Supervisor: F Kauffmann - Co-Supervisor: N Le Moual
2007-2021 **Supervision of several Master students**

GRANTS OBTAINED AS PI OR CO-PI

- 2019-2022 Fondation de France - CRESPI 'Environmental exposures to cleaning products and respiratory health of infants in nurseries' (PI: N. Le Moual)
2018-2019 ARS Ile-de-France - CRESPI 'Environmental exposures to cleaning products and respiratory health of infants in nurseries' (PI: N Le Moual)
2017-2022 ANSES/ADEME - CRESPI "Impact of environmental exposures to cleaning and disinfection products on the respiratory health of infants in nurseries" (PI: N Le Moual)
2017 PHC FASIC (French-Australia Science Innovation Collaboration Grants, Campus France, French ministry of Foreign and European Affairs and Ministry of Higher Education and Research): "Occupational exposures, asthma and allergic diseases" (PI: O Dumas, Co-PI: N Le Moual, M Abramson, G Benke)
2016-2017 ANSES/ADEME 2016: COBANET "Using Barcodes to Evaluate Occupational or Household Exposures to Cleaning and Disinfecting Products" (PI: N Le Moual)
2015-2016 PHC Van Gogh 2015 (French-Netherlands Collaboration Grant): "Improved tools for occupational exposure assessment in epidemiological studies of asthma and cancer" (PI: N Le Moual, co-PI: H Kromhout).
2013-2017 NIOSH (National Institute for Occupational Safety and Health)/CDD 'Occupational exposures to cleaning product and asthma in the Nurses' Health Study 2" (co-PI: N Le Moual, PI: C Camargo, Boston)
2009-2013 ANSES PNR-EST 2009: NETA "Role of occupational or domestic exposures to cleaning products in asthma" (PI: N. Le Moual).

MAJOR PUBLICATIONS, all publications available at: <https://publons.com/researcher/2180531/nicole-lemoual/>; H-index=28

1. Lemire P et al. Domestic exposure to irritant cleaning agents and asthma in women. *Environment International*. 2020; 144:106017
2. Dumas O, et al. Association of Occupational Exposure to Disinfectants With Incidence of Chronic Obstructive Pulmonary Disease Among US Female Nurses. *JAMA Netw Open* 2019; 2(10):e1913563
3. Dumas O, et al. Influence of Childhood Asthma and Allergies on Occupational Exposure in Early Adulthood: A Prospective Cohort Study. *Int J Environ Res Public Health*. 2019 Jun 19;16(12)
4. Temam S, et al. Low socioeconomic position and neighborhood deprivation are associated with uncontrolled asthma in elderly. *Respir Med*. 2019;158:70-77
5. Quinot C, et al. Development of a barcode-based exposure assessment method to evaluate occupational exposure to disinfectants and cleaning products – a pilot study. *Occup Environ Med* 2018 ; 75:668-74
6. Le Moual N, et al. Update of an Occupational Asthma-specific Job-Exposure Matrix to assess exposure to 30 specific agents. *Occup Environ Med* 2018;75:507-14 available from <http://oasjem.vjf.inserm.fr/>
7. Dumas O, et al. Association of hand and arm disinfection with asthma control in US nurses. *Occup Environ Med* 2018; 75:378-81
8. Temam S, et al. Ability of ecological deprivation indices to measure social inequalities in a French cohort. *MC Public Health*. 2017; 17:956
9. Dumas O, et al. Occupational exposure to disinfectants and asthma control in US nurses. *Eur Respir J*. 2017;50(4)
10. Quinot C, et al. Development of a job-task-exposure matrix to assess occupational exposure to disinfectants among US nurses. *Occup Environ Med* 2017;74:130-7 available from <http://nursesjem.vjf.inserm.fr/>
11. Matulonga B, et al. Women using bleach for home cleaning are at increased risk of non-allergic asthma. *Respir Med* 2016;117:264-71
12. Dumas O, et al. Asthma history, job type and job changes among US nurses. *Occup Environ Med*. 2015 ;72(7):482-8
13. Dumas O, et al. Occupational irritants and asthma: an Estonian cross-sectional study of 34,000 adults. *Eur Respir J*. 2014 ;44:647-56
14. Le Moual N, et al. Occupational exposures and uncontrolled adult-onset asthma in the ECRHS II. *Eur Respir J* 2014; 43:374-86
15. Bédard A, et al. Cleaning sprays, household help and asthma among elderly women. *Respir Med* 2014 108:171-80
16. Le Moual N, et al. Use of household cleaning products, exhaled nitric oxide and lung function in females. *Eur Respir J*. 2014 44:816-8
17. Dumas O, et al. Occupational irritants and asthma: an Estonian cross-sectional study of 34 000 adults *Eur Respir J* 2014 44:647-56
18. Dumas O, et al. Occupational exposure to cleaning products and asthma in hospital workers. *Occup Environ Med*. 2012 69:883-9.
19. Donnay C, et al. Under-estimation of self-reported occupational exposure by questionnaire in hospital workers *Occup Environ Med* 2011;68:611-7
20. Dumas O, et al. Do young adults with childhood asthma avoid occupational exposures at first hire? *Eur Respir J* 2011 37:1043-9
21. Le Moual N, et al. The healthy worker effect in asthma: work may cause asthma, but asthma may also influence work. *Am J Respir Crit Care Med* 2008 177:4-10
22. Le Moual N, et al. Asthma severity and exposure to occupational asthmagens. *Am J Respir Crit Care Med* 2005 172:440-5
23. Le Moual N, et al. Occupational exposures and asthma in 14,000 adults from the general population. *Am J Epidemiol* 2004 160:1108-16
24. Le Moual N et al. Performance of population-specific Job Exposure-Matrices (JEM). European Collaborative. Analyses on Occupational risk factors for COPD using Job Exposure Matrices (ECOJEM). *Occup Environ Med* 2000 57:126-32
25. Kennedy SM, et al. Development of an asthma specific job exposure matrix and its application in the epidemiological study of genetics and environment in asthma (EGEA) *Occup Environ Med* 2000;57: 635-641, available from: <http://cesp.vjf.inserm.fr/asthmajem>