

Curriculum Vitae



Field: chronic respiratory diseases
Application: epidemiology
Keywords: environmental factors, biological markers, genetics

Rachel Nadif (PhD, HDR, CRHC Inserm) is the head of the Integrative Respiratory Team. She has a background in biology and epidemiology, and a strong expertise in respiratory epidemiology.

She develops a research program aiming at
1) refining asthma phenotypes including clinical and biological markers, and
2) understanding the aetiology of asthma and rhinitis by studying the associations between biological phenotypes in interaction with environment and genes.

Date and place of birth: November 1st, 1964, Esch / Alzette, Luxembourg.

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Professional positions

- 2020-** **Head of the Integrative Respiratory Epidemiology Team**, INSERM U1018, CESP, Centre for research in Epidemiology and Population Health, 16, avenue Paul Vaillant Couturier, Villejuif, France.
- 2015-2019 Co-Director Inserm Unit 1168: Aging and chronic diseases. Epidemiological and public health approaches, 16 avenue Paul Vaillant Couturier, 94807 Villejuif.
- 2013-2014 Head of the Respiratory and Environmental Epidemiology Team, INSERM U1018, CESP.
- 2002-2013 Researcher at INSERM, U780/ex472 Research in Epidemiology and Biostatistics, 16, avenue Paul Vaillant Couturier, Villejuif, France.
- 1991-2001 Post-doctoral position (1991-1992) and then researcher (from 1993) at INSERM, U420 Research in Epidemiology, Health and Work, Vandoeuvre Lès Nancy, France.
- 1990-1992 Teaching, Assistant, Nancy I University, France.

Education and Training

- 2012 HDR, Habilitation à Diriger des Recherches *"Inflammation, oxidative and nitrosative stress, and their interactions with environment in chronic respiratory diseases"*, October 1st 2012, Paris Sud University
- 1991 PhD in Pharmacology (option pharmacology) *"Characterization of two Cytochrome P450 isoenzymes involved in brain drug metabolism"*, Nancy I University, France.
- 1987 Master in Pharmacology (Drug metabolizing enzymes and clinic pharmacology), Nancy I University, France.

Awards

- 1990 PhD student award from France-Parkinson Association for Research *"Production of reactive metabolites and radicals from brain. Implication in brain toxicity and aging"*.
- 1991 PhD award. Biological and Pharmaceutical Science committee, Nancy I University *"Characterization of two Cytochrome P450 isoenzymes involved in brain drug metabolism"*.

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International/National Societies

- 2013- Member of the planning committee of the European Respiratory Society assembly of epidemiology (ERS)
- 2013- Member of the International Society for Environmental Epidemiology (ISEE)

Scientific committee

- 2017- Member of the scientific committee of the Domaine d'Intérêt Majeur (DIM) "Air Quality, Health Impacts and Technological and Policy Innovations". <http://www.dim-qj2.fr/partenaires/#qj2part-9>
- 2016- Coordinator of the scientific aspect of the Constances Biobank, <http://www.constances.fr/coulisses-constances/equipe-constances.php?dep=100>
- 2014-2020 Co-head of the scientific consortium ConstancesRespi
- 2013- Member of the doctoral school of Public Health
- 2013- Member of the scientific committee of the Département Hospitalo-universitaire (DHU) TORINO
- 2012- Member of the scientific coordination of the French epidemiological study of the genetic and environmental factors of asthma (<https://egeanet.vjf.inserm.fr/index.php/en/egea-group-en>)

Main Expertise

- 2017- **Chairwoman** of the Expert Committee "Assessment of the risks related to air environments" at ANSES, <https://www.anses.fr/en/content/assessment-risks-related-air-environments>
- 2014-2016 **Expert Member** in the working group "Molds" at ANSES, <https://www.anses.fr/en/system/files/AIR2014SA0016Ra.pdf>
- 2009-2013 **Expert Member** in the working group "Nanotechnologies et risques pour la santé" at Institut de Recherche en Santé Publique (IResP).
- 2006-2010 **Expert Member** in the working group "Methods of proteome analysis", Ga2len (Global ALLergy and Asthma European Network of excellence), <http://www.ga2len.net/aboutus.html>.

Direction of PhD and post-doctoral students (last 10 years)

Post-doctoral students

- 2018-2019 Vanessa Granger.
- 2016 Elaine Fuertes. Codirection with J. Garcia-Aymerich (ISGLOBAL, Barcelona, Spain).
- 2010-2013 Marta Rava. Including 6 months funded by a European Research Society Fellowship.
- 2012 Marta Benet. Codirection with J Garcia-Aymerich (ISGLOBAL, Barcelona, Spain).

PhD students <http://theses.fr/>

- 2020-2023 Tajidine Tsiavia. Paris Sud / Paris Saclay University – Public Health and Epidemiology. *Title*: "Inflammatory Phenotypes of Asthma: Characterization, Evolution and Association with Indoor Air Mould Exposure in the Constance Cohort." (Funding: FRM).
- 2019-2022 Marine Savouré. Paris Sud / Paris Saclay University – Public Health and Epidemiology. *Title*: "Phenotypes of rhinitis: identification and association with long-term exposure to air pollution in two French studies". (Funding: ADEME).
- 2016-2020 Miora Valérie Andrianjafimasy. UVSQ / Paris Saclay University – Public Health and Epidemiology. *Title*: "Occupational exposure to cleaning products and asthma: role of biological markers related to oxidative stress". Date of defence: April 3, 2020. (Funding: doctoral grant).
- 2016-2019 Anais Havet. Lille University – Biology. *Title*: "Impact of air pollution on respiratory health in two French studies". Date of defence: October 18, 2019. (Funding: Pharmacy internship in pharmaceutical innovation and research).
- 2014-2017 Emilie Burte. UVSQ / Paris Saclay University – Public Health and Epidemiology. *Title*: "Rhinitis: characterization and association with air pollution". Cotutelle Pompeu Fabra University in Barcelona (Spain). Date of defence: March 2, 2018. (Funding: doctoral grant).
- 2013-2016 Zhen Li. Paris Sud / Paris Saclay University – Public Health and Epidemiology. *Title*: "Diet, Obesity and Asthma". Date of defence: April 21, 2017. (Funding: China grant).
- 2012-2016 Zeina Akiki. Paris Sud / Paris Saclay University – Public Health and Epidemiology. Cotutelle Beirut University in Lebanon. *Title*: "Biological markers of chronic obstructive pulmonary disease and asthma". Date of defence: April 11, 2016. (Funding: Lebanon CNRS grant).

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Main grants (last 10 years)

1. ANR 2019 "Research, development and innovation, SARGASSUM": **SARGACARE** "Effects on human health of chronic exposure to brown Sargasso algae in the West Indies" (Partner, ~280 000 €).
2. ANSES PNR-EST 2017-2021: **PROBIOGEN** "Occupational Exposure to Cleaning Products, Biological Markers and Genes in Asthma" (PI, 176 534 €, 107 068 € for the team).
3. Région Nord Pas de Calais 2014-2018: **CYTALENV** "Role of new players in allergic response: Interaction with eosinophils and environmental factors" (Co-PI, 90 000 €).
4. PHRCN 2012-2016: **EVADA** "Long-term evolution of adult asthma in France. Role of the environment, treatments and genetic factors" (co-PI, 28 600 € for the team).
5. ANR-PRSP 2010-2013: **IAGO** "Genes by Occupation Interactions in Asthma" (co-PI: 267 364 €, 163 436 € for the team).
6. Région Nord-Pas de Calais 2009-2011: **BIOTOXA** "Biological markers of toxicity in asthma" (co-PI 94 000 €).
7. ANR-CES 2009-2012: **BIO2NEA** "Biological markers of oxidative and Nitrosative stress and associations with environment and asthma" (PI, 330 000 €, 122 076 € for the team).