

**Personal and contact information**

First name/Surname	Marta Keller
Nationality	Italian
Gender	Female
Place and date of birth	Milano, 10/02/1994
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Scopus Author ID	57210646362
Web of Science Researcher ID	AAK-8139-2020

**Current activity**

June 2019 - present

Research fellow  
Occupational and Environmental Hygiene research group  
Department of Science and High Technology, University of Insubria,  
via Valleggio 11, 22100 Como, Italy

**Education**

December 2016 – March 2019

Master degree  
(Environmental Science)  
Department of Science and High Technology, University of Insubria,  
via Valleggio 11, 22100 Como, Italy

Thesis title and supervisor: Analisi diffrattometrica di asbesti in campioni massivi: confronti strumentali (Dott. Andrea Cattaneo)

Final evaluation: 110L/110

Principal acquired skills: Applied environmental and occupational hygiene, environmental and occupational toxicology

October 2013 – December 2016

Bachelor degree  
(Environmental and Natural Science)  
Department of Theoretical and applied Science, University of Insubria, via Valleggio 11, 22100 Como, Italy

Thesis title and supervisor: Progetto SPHERE: Valutazione dell'esposizione personale a particolato atmosferico di soggetti residenti in un'area (Dott. Andrea Cattaneo)

Final evaluation: 102/110

Principal acquired skills: Applied environmental and occupational hygiene, environmental and occupational toxicology

September 2008 – June 2013                      Secondary school diploma with Psycho-pedagogical  
Classic High School "S.M. Legnani" Via Angelo Volonterio, 34,  
21047 Saronno (Italy)  
Final evaluation: 71/100

### **Certifications and other information**

Driver license                                      License B

### **Associations**

March 2019 – present                              Junior member of the association: Associazione Italiana degli Igienisti  
Industriali (AIDII) – card 5648

### **Other activities**

Analysis activities within the 2018-2019 qualification program of laboratories wishing to carry out analytical activities on asbestos pursuant to Ministerial Decree May 14, 1996. Activity carried out for the laboratories of the University of Insubria and Diffractometry and Microscopy of the IRCCS Cà Granda Foundation. Massive circuit: phase contrast optical microscopy with the chromatic dispersion method; X-ray diffractometry; scanning electron microscopy. Airborne circuit: phase contrast optical microscopy; scanning electron microscopy.

Annual activity of analysis of airborne asbestos fibers in the laboratory inter-comparison circuit "AFRICA" (Asbestos Fibers Regular Informal Counting Arrangement) for the phase contrast optical microscopy technique.

Sampling and quantitative determination of the concentrations of airborne asbestos fibers in indoor environments using the phase contrast optical microscopy (MOCF) technique pursuant to Ministerial Decree 6/9/1994-Annex 2A.

Sampling and quantitative determination of concentrations of airborne asbestos fibers in indoor environments using the scanning electron microscopy (SEM) technique pursuant to Ministerial Decree 6/9/1994-Annex 2B.

Sampling and qualitative-quantitative determination of asbestos in mass samples by phase contrast optical microscopy, with the chromatic dispersion method (MOCF-DC) and X-ray diffractometry (DRX) according to DM 6/9/1994) - Attachments 1A and 3.

Sampling and assessment of exposure to crystalline silica on employees in forming operations.

### **Other roles and projects**

June 2019 – January 2020                      Participation in research activities with national collaborations within  
the project: "INSIDE project: INdividual air pollution exposure,  
extracellular vesicles SInaling and hypertensive disorder

DEvelopment in pregnancy". PRIN 2015 Call - Ministry of Education, University and Research.

September 2014 – December 2016

Participation in research activities with national collaborations within the project: "SPHERE: Susceptibility to Particle Health Effects, miRNAs and Exosomes". Funded by the EU Program "Ideas" (ERC-2011-StG 282413; P.I. Prof. Valentina Bollati) (from 01-09-2014 to 31-12-2016).

## Publications

### Conference proceedings

#### **2nd International Electronic Conference on Environmental Health Sciences – IJERPH (4-29 November 2019)**

Borghgi F\*, Fanti G, Spinazzè A, Campagnolo D, Rovelli S, **Keller M**, Cattaneo A, Cavallo D.M. Evaluation of personal exposure to air pollutants and estimation of the inhaled dose for commuters in the urban area of Milan, Italy. MDPI Proceedings.

#### **European Aerosol Conference (25-30 agosto 2019, Gothenburg, Sweden)**

Borghgi F\*, Spinazzè A, Campagnolo D, **Keller M**, Rovelli S, Cattaneo A, Cavallo DM. Exposure to Airborne Particles Associated with Handling Graphene Nanoplatelets. EAC 2019 - European Aerosol Conference. 25-30 August 2019, Gothenburg, Sweden.

#### **Joint meeting of the International Society of Exposure Science and the International Society of Indoor air Quality and Climate (18-22 August 2019, Kaunas, Lithuania)**

Campagnolo D\*, Cattaneo A, Borghgi F, **Keller M**, Rovelli S, Spinazzè A, Cavallo DM. In-vehicle airborne fine and ultra-fine particulate matter exposure: the impact of emission reduction technologies. Joint meeting of the International Society of Exposure Science and the International Society of Indoor air Quality and Climate. Kaunas, Lithuania. August 18 - 22, 2019.

#### **2<sup>nd</sup> European Exposure Science Strategy Workshop (4-5 Luglio 2019, Bilthoven, Paesi Bassi)**

Borghgi F\*, Spinazzè A, Fanti G, Campagnolo D, Rovelli S, **Keller M**, Cattaneo A, Cavallo D.M. Estimation of the inhaled dose of pollutants for commuters in the urban area of Milan, Italy. 2<sup>nd</sup> European Exposure Science Strategy Workshop. Bilthoven, Netherlands, 4-5 July 2019.

Spinazzè A\*, Borghgi F\*, Campagnolo D, Rovelli S, **Keller M**, Fanti G, Cattaneo A, Cavallo D.M. Reliability of occupational exposure models: a literature review. 2<sup>nd</sup> European Exposure Science Strategy Workshop. Bilthoven, Netherlands, 4-5 July 2019.

#### **36° Congresso Nazionale AIDII (26-28 June 2019, Matera, Italy)**

Borghgi F\*, Fanti G, Campagnolo D, Spinazzè A, Rovelli S, **Keller M**, Cattaneo A, Cavallo D.M. Valutazione dell'esposizione personale a inquinanti atmosferici e stima della dose inalata per pendolari nell'area urbana di Milano. Atti del 36° Congresso Nazionale AIDII, Matera 26-28 June 2019 – ISBN 978-88-86293-35-8. p 49-50.

Spinazzè A\*, Borghi F\*, Campagnolo D, Rovelli S, **Keller M**, Fanti G, Cattaneo A, Cavallo D.M. Quale modello scegliere per ottenere una stima attendibile dell'esposizione professionale? Revisione e discussione della letteratura. Atti del 36° Congresso Nazionale AIDII, Matera 26-28 June 2019 – ISBN 978-88-86293-35-8. p 37-39.

Campagnolo\* D, Rovelli S, Arghittu M, Colombo R, Cattaneo A, Spinazzè A, Borghi F, **Keller M**, Riboldi L, Cavallo D.M. Contaminazione da agenti microbiologici in un'abitazione privata: un intervento di gestione del rischio. Atti del 36° Congresso Nazionale AIDII, Matera 26-28 June 2019 – ISBN 978-88-86293-35-8. p 132-134.

**Keller M\***, Campagnolo D, Rovelli S, Spinazzè A, Borghi F, Cattaneo A, Cavallo D.M. Analisi diffrattometrica di asbesti in campioni massivi: confronti strumentali. Atti del 36° Congresso Nazionale AIDII, Matera 26-28 June 2019 – ISBN 978-88-86293-35-8. p 149-150.

### **34° Congresso Nazionale AIDII (21-23 June 2017, Ortona, Italy)**

Del Buono L\*, Campagnolo D, **Keller M**, Spinazzè A, Rovelli S, Borghi F, Cattaneo A, Bollati V, Cavallo DM. Monitoraggio e georeferenziazione dell'esposizione personale short-term a particolato atmosferico. Atti del 34° Congresso Nazionale AIDII, Ortona 21-23 June 2017 - ISBN 978-88-86293-31-0. p. 301- 307.

### **33° Congresso Nazionale AIDII (16-17 June 2016, Lucca, Italy)**

Campagnolo D\*, Del Buono L, Cattaneo A, **Keller M**, Borghi F, Bollati V, Rovelli S, Spinazzè A, Cavallo DM. Monitoraggio personale di particolato atmosferico nella città di Milano: un approccio su base GIS. Atti del 33° Congresso Nazionale AIDII, 16-17 June 2016, Lucca - ISBN 978-88-86293-29-7. p. 292-299.

### Scientific publications

F. Borghi\*, G. Fanti, A. Spinazzè, D. Campagnolo, S. Rovelli, **M. Keller**, A. Cattaneo, D.M. Cavallo. Evaluation of Personal Exposure to Air Pollutants and Estimation of the Inhaled Dose for Commuters in the Urban Area of Milan, Italy. Proceedings (2020). Doi:10.3390/IECEHS-2-06370

A. Spinazzè\*, F. Borghi\*, D. Campagnolo, S. Rovelli, **M. Keller**, G. Fanti, A. Cattaneo, D.M. Cavallo. How to Obtain a Reliable Estimate of Occupational Exposure? Review and Discussion of Models' Reliability. Int. J. Environ. Res. Public Health 16, 2764 (2019). Doi : 10.3390/ijerph16152764

L. Del Buono, D. Campagnolo, **M. Keller**, A. Spinazzè\*, S. Rovelli, F. Borghi, A. Cattaneo, V. Bollati, D.M. Cavallo. Monitoraggio e georeferenziazione dell'esposizione personale a particolato atmosferico. (2017) Italian Journal of Occupational Environmental Hygiene, 8(3): 113 - 119.

### Partecipation in congress, conferences, seminars as auditor

- Participation in the AIDII event - 50 years of Occupational Hygiene in Italy held on 16 November 2019 at the IRCCS Ca 'Granda Foundation - Mangiagalli Clinic - via Commenda 12, Milan;
- SCIENTIFIC SEMINAR "Assessment of biologically treated effluent wastewater post-treatment through determination of pharmaceutical residues and identification of their photodegradation products", Prof. Victor G. Mihucz - 18 July 2019, University of Insubria;
- Participation in the "ENVIRONMENT" training day held on June 13, 2019 at TCR Tecora Srl. In Cogliate in via delle Primule, 16;

- Symposium – School of Specialization in Chemical Risk Assessment and Management. University of Insubria, Como, Italy, 6 July 2018;
- Training Course for Graduates and Young Professionals, Arpa Lombardia - Higher Institute for Research, Statistics and Training, 19 April 2017.

Como, 08/04/2020

Marta Keller