

PERSONAL INFORMATION

Paolo CARRER

 Dpt. of Biomedical and Clinical Sciences "L. Sacco", via G.B. Grassi 74, 20157, Milano, Italy

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 paolo.carrer@unimi.it

Sex Male | Date of birth 26/08/1962 | Nationality Italian

OCCUPATIONAL FIELD

Occupational and Environmental Health

WORK EXPERIENCE

From 01.10.2006

Professor of Occupational Medicine at the University of Milan, and Director of the Occupational health Unit of the "Luigi Sacco" Hospital, Milano.

Dpt. Biomedical and Clinical Sciences "L. Sacco", via G.B. Grassi 74, 20157, Milano, Italy

- Research activity related to Indoor and outdoor air quality and related health effects, Health Risk Assessment to Chemicals, Prevention activities in hospitals
- Teaching activities in Medicine, Prevention Techniques and Safety Procedures in the Environment and Workplace, Sciences of Prevention, Specialization school on Occupational health.; PhD in Occupational Health and Industrial Hygiene.
- Director of Postgraduate School of Occupational Medicine, University of Milan, from 2016
- Coordinator of the international "Master in risk assessment and risk analysis" and teacher at the "European advanced risk assessors accredited training programme" of the University of Milano, Surrey, Karolinska, Dusseldorf e Utrecht (2006-2012).
- Occupational medicine and health surveillance for workers.

Sector University and Hospital

From 20.12.2002 to 30.09.2006

Researcher of Occupational Medicine at the University of Milan, Faculty of Medicine and Medical doctor at the Occupational health Unit of the "Luigi Sacco" Hospital, Milano.

Dpt. Biomedical and Clinical Sciences "L. Sacco", via G.B. Grassi 74, 20157, Milano, Italy

- Research activity related to Indoor and outdoor air quality and related health effects, Health Risk Assessment to Chemicals, Prevention activities in hospitals
- Collaborating to teaching activities in Medicine, Prevention Techniques and Safety Procedures in the Environment and Workplace, Sciences of Prevention, Specialization school on Occupational health.
- Occupational medicine and health surveillance for workers.

Sector University and Hospital

From 01.01.1999 to 19.12.2006

Medical doctor at the Occupational health Unit "Clinica del Lavoro L. Devoto" ICP Hospital, Milano

Occupational health Unit "Clinica del Lavoro L. Devoto" ICP Hospital, Via San Barnaba 8, 20122 Milano

- Occupational medicine and health surveillance for workers.
- Collaborating to research activity related to Indoor and outdoor air quality and related health effects, Health Risk Assessment to Chemicals, Prevention activities in hospitals
- Collaborating to teaching activities in Medicine, Specialization school on Occupational health.

Sector Hospital and University

From 01.06.1992 to 31.12.1999

Medical doctor on Occupational health

Occupational health Unit "Clinica del Lavoro L. Devoto" ICP Hospital, Via San Barnaba 8, 20122 Milano

- Collaborations on medical activities in Occupational and environmental health
- Collaborating to research activity related to Indoor and outdoor air quality and related health effects, Health Risk Assessment to Chemicals, Prevention activities in hospitals

Sector Hospital and University

EDUCATION AND TRAINING

From 01.11.1993 to 30.09.1996

PhD on Occupational health and Industrial Hygiene

Consortium Universities of Bari, Milan, Pavia and Parma

- PhD Project: "Exposure to volatile organic compounds and health risk assessment in office environments"

From 01.11.1989 to 30.09.1992

Postgraduate School of Occupational Medicine

University of Milan, Italy

- Thesis title: "Exposure to metals and neurotoxic effects in ferromanganese-alloy workers"

From 01.11.1981 to 30.03.1988

Degree in Medicine and Surgery

University of Milan, Italy

- Thesis title: "Biological monitoring and health surveillance in welders exposed to metals"

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B1	B1	B1
French	C2	C2	C1	C1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills gained through participation at scientific and teaching activities

Organisational / managerial skills ▪ organizational and managerial skills acquired through co-ordination of Italian and EU research project activities and submission of proposals in the frame of national and European grants

Computer skills ▪ good command of Microsoft Office™ tools

Other skills ▪ ability to adapt to multicultural environments gained through work experience at the European level
▪ team-working spirit

ADDITIONAL INFORMATION

Publications

- Recent contributions in EU scientific reports:

Jantunen M, Oliveira Fernandes E, Carrer P, Kephelopoulou S (2011): Promoting actions for healthy indoor air (IAIAQ). European Commission Directorate General for Health and Consumers. Luxembourg. ISBN 978-92-79-20419-7

Carrer P. et al. (2013): Report on the health risk associated with emissions from household use of selected consumer products. EU EPHECT project (WP7)

Carrer P and al. (2013): On the reduction of health effects from combined exposure to indoor air pollutants in modern offices - Report on health risk assessment. EU OFFICAIR project (WP7)

Carrer P. and al. (2013): Report on HEALTH AND VENTILATION: review of the scientific literature. EU HEALTHVENT project (WP4)

Carrer P and al. (2014): Indoor air quality in European schools - Report on health risk assessment. EU SINPHONIE project (WP7)

Kephelopoulou S et al. (2017): Promoting healthy and highly energy performing buildings in the European Union National implementation of related requirements of the Energy Performance Buildings Directive (2010/31/EU). Report EUR 27665 EN. 2017

- Recent Peer-reviewed articles:

Hänninen O, Knol A, Jantunen M, Carrer P, Fanetti A and the EBoDE Working Group (2014): Environmental Burden of Disease in Europe: Assessing Nine Risk Factors in Six Countries. *Environmental Health Perspectives* 2014; volume 122, number 5: 439 – 446

Carrer P, Wargocki P, Fanetti A, Bischof W, De Oliveira Fernandes E, Hartmann T, Kephelopoulou K, Palkonen S, Seppanen O (2015): What does the scientific literature tell us about the ventilation-health relationship in public and residential buildings? *Building and Environment* 94 (2015): 273-286.

Urso P, Cattaneo A, Garramone G, Peruzzo C, Cavallo D and Carrer P: (2015): Identification of particulate matter determinants in residential homes. *Building and Environment* 2015, 86: 61-69.

Dimitroulopoulou C, Trantallidi M, Carrer P, Efthimiou G, Bartzis J et al. (2015): EPHECT II: Exposure assessment to household consumer products. *Science Total Environment* 2015, Vol. 536: 890-902.

Trantallidi M, Dimitroulopoulou C, Wolkoff P, Kephelopoulou S, Carrer P. 2015. EPHECT III: Health risk assessment of exposure to household consumer products. *Science of the Total Environment* 536 (2015) 903–913. <http://dx.doi.org/10.1016/j.scitotenv.2015.05.123>

Bluyssen PM, Roda C, Mandin C, Fossati S, Carrer P, Kluizenaar de Y, Oliveira Fernandes de E, Bartzis J (2016): The European OFFICAIR study: identification of causes of health and comfort problems in office buildings. *Indoor Air* 2016, (2):298-317. doi: 10.1111/ina.12196

De Kluizenaar Y, Roda C, Dijkstra E, Fossati S, Mandin C, Mihucz V, Hanninen O, de Oliveira Fernandes O, Silva G, Carrer P, Bartzis J, Bluyssen P (2016): Office characteristics and dry eye complaints in European workers - The OFFICAIR Study. *Building and Environment* 102 (2016): 54-63

Mandin C, Trantallidi M, Cattaneo A, Wolkoff P, Carrer P, Bartzis J (2017): Assessment of indoor air quality in office buildings across Europe - The OFFICAIR study. *Science of the Total Environment* 579 (2017) 169–178. <http://dx.doi.org/10.1016/j.scitotenv.2016.10.238>

Carrer P, de Oliveira Fernandes E, Santos H, Hänninen O, Kephelopoulou S and Wargocki P (2018): **On the Development of Health-Based Ventilation Guidelines: Principles and Framework**. *Int. J. Environ. Res. Public Health* 2018, 15, 1360; doi:10.3390/ijerph15071360

Carrer P and Wolkoff P (2018): Assessment of Indoor Air Quality Problems in Office-Like Environments: Role of Occupational Health Services. *Int. J. Environ. Res. Public Health* 2018, 15, 741; doi:10.3390/ijerph15040741

- Recent contributions in Books:

Medicina del lavoro. Lavoro, ambiente, e salute. P. A. Bertazzi et al. Raffaello Cortina Ed, 2013
 Manuale di Medicina del lavoro. Pira E, Romano C and Carrer P. Minerva Ed, 2017

Projects

- "EnVIE: Co-ordination action on Indoor Air Quality and Health Effects: interfacing science and policy making in the field of indoor air quality". Sixth Framework Programme FP6-SSPE-2004, 2004-2008, Leader WP 1 "Health and indoor air quality".
- TOSCA: Tossicità del particolato atmosferico e marker molecolari di rischio". Fondazione Cariplo (2008-2011).
- "EPHECT: Emissions, Exposure Patterns and Health Effects of Consumer Products". EU Health Programme - Executive Agency for Health and Consumers, EU-DG SANCO (2010-2012). Leader WP 7 "Exposure and health risk assessment and reduction strategies".
- "HEALTHVENT: Health-Based Ventilation Guidelines for Europe". EU Health Programme - Executive Agency for Health and Consumers, EU-DG SANCO (2010-2012). Leader WP 4 "Health and Ventilation".
- "SINPHONIE: Schools' Indoor Pollution and Health: Observatory Network in Europe". Executive Agency for Health and Consumers, EU-DG SANCO (2010-2012). Leader WP 6 "Health risk assessment".
- "OFFICAIR: On the reduction of health effects from combined exposure to indoor air pollutants in modern offices". FP7-ENV-2010, Grant agreement n. 265267 (2010-2013). Leader WP7 "Health risk assessment".

Member Conference Organisation Committee

Healthy Buildings, Milan, 1995
Conference of the International Society of Exposure and Epidemiology, Stresa, 2003
Conference of the International Society of Occupational Health (ICOH), Milan, 2006
Conference of the Italian Society of Occupational Health and Industrial Hygiene (SIMLII), Milan 2015

Memberships

Italian Society of Occupational Health and Industrial Hygiene (SIMLII) from 1996.
International Society of Occupational Health (ICOH) from 1996. Chair of the Scientific Committee on Indoor Air Quality and Health (2012-2018).
WHO expert group "WHO Guidelines for Indoor Air Quality", 2008-2010.
WHO expert group "Quantification, comparison and ranking of environmental stressors within and between European countries", 2009-2012
International Labour Office (ILO) expert "Updating the List of Occupational Diseases", 2003-2006.
Joint Research Center and EU-DG SANCO expert group on "Indoor Air Quality - Risk assessment indoor exposures", from 2002.
Member of the "Task Force on the Allergic Child at School", European Academy of Allergy and Clinical Immunology (EAACI), 2002-2006.
Italian Health Minister expert group on "Indoor Air Quality", from 2000.

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Milan, January 7 2019

Prof. Paolo Carrer

