

# CURRICULUM VITAE

ROBERTO G. LUCCHINI, MD

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## **APPOINTMENTS/EMPLOYMENT**

Department of Medical-Surgical Specialties  
Radiological Sciences and Public Health  
University of Brescia  
P.le Spedali Civili 1, 25123 Brescia, Italy

Department of Environmental Medicine and Public Health  
Icahn School of Medicine at Mount Sinai  
One Gustave L. Levy Place, Box 1057  
New York, New York 10029, USA

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ResearchGate: [www.researchgate.net/profile/Roberto\\_Lucchini](http://www.researchgate.net/profile/Roberto_Lucchini)

Published Work in MyBibliography: <http://goo.gl/cGV0mk>

## **Academic Positions**

2012-present	Professor of Medicine, Pulmonary, Critical Care and Sleep Medicine
2005-present	Associate Professor, Occupational Health, University of Brescia, Italy
2004-present	Research Associate, University of California, Santa Cruz, Environmental Toxicology
2002-2005	Assistant Professor, Occupational and Environmental Health, University of Brescia, Italy
1992- present	Attending Physician, Clinic of Occupational Medicine, Spedali Civili Brescia, Italy

## **Administrative Positions**

2012-present	Director, World Trade Center Health Program Data Center, Mount Sinai, New York, New York. Coordinates data management and analysis.
2012-present	Director, NIOSH Education and Research Center for Region II – NY/NJ: Oversees graduate training and continuing education in Occupational Medicine Residency (Mount Sinai, Rutgers University), Industrial Hygiene (CUNY School of Public Health), Occupational

Health Nursing and Ergonomics (NYU), Occupational Safety and Health (New Jersey Institute of Technology)

1996-present Associate Professor and PI of research grants from Italian, EU and NIH funds, at the Department of Medical-Surgical specialties, Radiological Sciences and Public Health, University of Brescia, Italy

**GAPS IN EMPLOYMENT** None

**EDUCATION**

1991 Residency in Occupational Medicine, University of Parma, School of Medicine, Parma, Italy. Thesis: Neurobehavioral effects in operating theater personnel exposed to anesthetic gases.

1987 Medical Degree, University of Brescia, School of Medicine, Italy. Thesis: Biological monitoring and neuroendocrine effects among aluminum exposed workers.

**Post Graduate Education and Training**

1995 Internship at CINBIOSE (Centre pour l'étude des interactions biologiques entre la santé et l'environnement), Université du Québec à Montréal. Exchange Agreement Program of the Medical Research Council of Canada and National Research Council of Italy.

1992 Training at the Division of Psychophysiology, National Institute of Working Life, Solna, Sweden: Computerized psychometric test system SPES (Swedish Performance Evaluation System) Version 5.

1992 Third International Course on "Behavioral and psycho- physiological effects of the physical and chemical work environment". NIVA Nordic Institute for advanced training in Occupational Health. Salsomaggiore (Parma), Italy.

1990 Course in clinical neurotoxicology: "Assessment and diagnosis of neurological and behavioral alterations due to exposure to industrial toxic substances". WHO Regional Center for Pesticide Safety, Busto Garolfo (Milan), Italy.

1989 International Course on "Occupational Neurotoxicology". NIVA Nordic Institute for advanced training in Occupational Health. Kuusamo, Finland.

1988 Intensive residency in Occupational Health, Extended Program in Medical Education, University of California, San Francisco, USA.

**CERTIFICATION**

1992 Board certification in Occupational Medicine, University of Parma, Italy #CE20128024039000002

**LICENSURE**

1988 Medical License for the Province of Brescia, Italy #4852

## **HONORS/AWARDS**

2017 Mount Sinai Selikoff Centers for Occupational Health. Appreciation Award in recognition of continued support of 9/11 workers and volunteers

## **PATENTS**

Depero LE, Bontempi E, Borgese L, Zacco A, Lucchini RG. Method For The Analysis Of Samples. International patent n. WO/2009/116107. Publication Date 24.09.2009  
<http://www.wipo.int/pctdb/en/wo.jsp?WO=2009116107>

## **OTHER PROFESSIONAL ROLES**

### **Professional Affiliation and Committee Service**

2017 Neurotoxicology and Alcohol (NAL) Study Section Center for Scientific Review, National Institutes of Health - Ad-hoc reviewer  
2016 Neurology, Aging, Musculoskeletal Epidemiology (NAME) Study Section, Center for Scientific Review, National Institutes of Health - Ad-hoc reviewer  
2016 Councilor, International Neurotoxicology Association  
2015 NYC Business and Labor Coalition – Infrastructure Committee  
2015 NYC Occupational Health Interest Group  
2015 Chair of the ICOH SC "Toxicology of Metals" 2015-2018  
2015 Board member of LDOH, Foundation for Learning and Developing Occupational Health [www.ldoh.net/](http://www.ldoh.net/)  
2014 Board member of the Association of Occupational and Environmental Clinics  
2012 Association of Occupational and Environmental Medicine  
2012 Reviewer for EU funding system (E-COST and HORIZON)  
2012 Secretary of the ICOH SC "Toxicology of Metals" 2012-2015  
2011 Councilor of the International Society for Trace Element Research in Humans  
2010 Society of Toxicology  
2010 International Society of Environmental Epidemiology  
2009 Chair of the ICOH SC "Neurotoxicology and Psychophysiology" for 2009-2012  
2008 Fellow of Collegium Ramazzini  
2006 Chair of the ICOH SC "Neurotoxicology and Psychophysiology" for 2006-2009  
2003 Secretary of ICOH SC "Neurotoxicology and Psychophysiology" for 2003-2006  
2000 Secretary of ICOH SC "Neurotoxicology and Psychophysiology" for 2000-2003  
2000 International Neurotoxicology Association  
1993 Italian Association of Preventive Medicine for Health Care workers  
1993 International Commission on Occupational Health (ICOH)  
1990 Italian Society of Occupational Health and Industrial Hygiene

### **International Collaborations**

2015 Advisor of the First All-Russian Week of Occupational Safety on 13-17 April, 2015, Olympic Park, Imereti lowland, Sochi, Russian Federation  
2004 Resource scientist for the program "Regional Awareness Raising Workshops on Mercury Pollution", United Nations Environmental Program (UNEP).  
2003 Panelist of an expert group for the consensus on diagnostic criteria for the

- assessment of manganese, CSST and IRSST of Quebec. Consensus document on: [http://www.irsst.qc.ca/en/publicationirsst\\_100134.html](http://www.irsst.qc.ca/en/publicationirsst_100134.html)
- 2003 Appointment at the Research Participation Program "Neurological Health of Welders", NIOSH, Morgantown, West Virginia, USA
- 2002 Panelist of an expert group "Manganese Neurotoxicity" hosted by Health Canada Ottawa, December 5 and 6, 2002. This led to a re-evaluation of the risk assessment of manganese by Health Canada, that concluded in a novel protective standard based on the occupational data by Lucchini et al., 1999 ([www.hc-sc.gc.ca/ewh-semt/pubs/air/manganese-eng.php](http://www.hc-sc.gc.ca/ewh-semt/pubs/air/manganese-eng.php))
- 1996 Project referent of the "Study on early neurotoxic effects due to occupational exposure to manganese". Supported by the scientific and technological cooperation program between Italy and Québec for triennium 1996-1998
- 1995 Project referent of inter-university cooperation entitled "Health effects due to manganese exposure". Supported by the scientific and Technological agreement between Italy and the People's Republic of China for triennium 1995-1997

#### **Organization of International Meetings**

- 2018 International Symposium "Autism Spectrum Disorders: new evidence for diagnosis and prevention" University of Brescia, Italy, April 17
- 2016 International conference on Manganese toxicity. Icahn School of Medicine, New York, NY, September 25-28.
- 2013 Neurotoxicology and development: human, environmental and social impacts. The 12th International Symposium of the Scientific Committee on Neurotoxicology and Psychophysiology, ICOH, Cape Town, South Africa, March 24-27
- 2011 "Neurotoxicity and Neurodegeneration. Local Effects and global impact" INA and ICOH SCNP joint conference. Xian, China, June 5-10
- 2006 "Neurotoxic metals: lead, manganese and mercury. From research to prevention".  
Satellite meeting of ICOH 2006 June 16-17, Brescia, Italy.
- 2002 "8<sup>th</sup> International Symposium on Neurobehavioral methods and effects in occupational and environmental health" sponsored by the ICOH Scientific Committee on Neurotoxicology and Psychophysiology, Brescia, Italy, June 23-26
- 2001 "Assessment of effects due to low doses of inorganic mercury following environmental and occupational exposure: human and in vitro studies on specific toxicity mechanisms" Italian Ministry of Research and Education. Gargnano, Italy, September 27-28
- 2000 "Pathologies due to repetitive motion of the upper limb", Lombardy Association of Occupational Health and Industrial Hygiene, Brescia, Italy, November 24
- 1994 2nd National Congress of Preventive Medicine for Health Care Workers, Italian Association of Preventive Medicine for Health Care workers. June 8-10, Gargnano, Italy.

1992 Occupational health risks due inhalation anesthetics. Lombard Association on Occupational health and Industrial Hygiene, Brescia, Italy, May 12.

#### **Editorial Activities**

2016 Associate Editor of *Neurotoxicology*  
2014 Editor of *Toxics*  
2014 Editor of *Annals of Occupational and Environmental Medicine*  
2013 Associate Editor of *Annals of Global Health*  
2010 Editor of *Advances in Pharmacology and Toxicology*  
2010 Editor of *International Journal of Pharmacology and Biological Sciences*  
2010 Editor of *Safety and Health at Work*  
2006-2008 Editor of *The Science of the Total Environment*  
2006 Editor of *Neurotoxicology*  
2003 Editor of *Industrial Health*, by the National Institute of Industrial Health Japan  
2002 Editor of the *American Journal of Industrial Medicine*

#### **RESEARCH PROFILE**

My research is focused on the health impact of environmental and occupational hazards from prenatal to adolescence, working life and old age. As an interdisciplinary scientist, I connect exposure scientists to toxicologists, epidemiologists, and clinicians, experts in genetics, nutrition and wellbeing using a strong public health approach.

My main areas of interest are the following:

- Global Occupational and Environmental Health with focus on OHS services and Work Compensation in Low and Middle Income Countries
- Neurotoxic effects of heavy metals, manganese, lead and mercury from early life to old age
- Impact of environmental hazards and stressors on neurodevelopment
- Occupational, environmental and genetic determinants of neurodegenerative diseases
- Exposure sciences, biomarkers of occupational and environmental exposure
- Risk assessment and exposome
- Genetic and epigenetic susceptibility
- Neurologic, cardiovascular and respiratory effects of air pollution and exposure to welding fumes, diesel exhausts, and previous exposure to World Trade Center dust
- Cancer related to previous WTC exposure
- Disaster epidemiology and Emergency preparedness
- Women's health at work and during pregnancy
- Intervention research on the effectiveness of education, health protection and health promotion.

## CLINICAL PROFILE

1992 –present: Attending Physician, Clinic of Occupational Health, Civil Hospital Brescia. Oversaw 10 staff, 4 residents, 4 students, 2 fellows per year, performed 100 patient consultations per month, provided clinical expertise for the diagnosis and prevention of respiratory conditions such as silicosis, asbestosis, COPD, toxicological disturbances, implemented health surveillance for workers exposed to silica, lead and repetitive limb motion, and electronic patient chart system, developed educational programs for workers exposed to occupational hazards, filed cases for work compensation, performed screening and health surveillance for the hospital Employee Health and Wellness department.

## IMPACT

### Public Health Impact

The Declaration of Brescia on Prevention of the Neurotoxicity of Metals (Landrigan et al, 2007) was instrumental in reducing allowable levels of manganese additives in gasoline in China and banned all metallic additives in fuel by the EU.

Health Canada and the Japanese Ministry of Environment adopted new protective standards for manganese exposure in 2005 and 2014 respectively. The risk assessment of both agencies was based on occupational data published (Lucchini et al., 1999).

## GRANTS, CONTRACTS, FOUNDATION SUPPORT

### PAST GRANTS

Funding Source, Project Title & Number	Role	Dates	Costs	Supplemental Info
NIH/NIEHS <b>The Mount Sinai Transdisciplinary Center on Early Environmental Exposure</b> P30 ES023515	Wright RO (PI) Lucchini, RG (CoI)	04/1/14 – 03/31/18	\$753,156	This core center provides research infrastructure and pilot grants to investigators at Mount Sinai conducting environmental health research. I am the core leader of the Oxidant-Antioxidant Imbalance research group.
CDC/NIOSH <b>Cognitive Function among World Trade Center Rescue and Recovery Workers – Direct Effect or Mediation through Comorbidities.</b> U01 OH010988	Stein, C (PI) Lucchini, RG (CoI)	07/01/15– 06/30/17		The major goal of this project was to quantify the association between WTC exposure and cognitive function and to estimate the direct and indirect effects of WTC exposure on cognitive function.
NIH/NIEHS <b>Stress-Lead Interactions and Child Development</b> R01 ES013744	Wright RO (PI) Lucchini, RG (CoI)	11/1/12- 10/31/16		Social stressors, iron deficiency anemia, and lead exposure are all environmental risk factors for poor neurodevelopment in young children. This project determines the independent effect of pre- and post-partum maternal stress in predicting infant development, and the <i>multiplicative</i> joint effects of maternal stress/iron deficiency and maternal stress/lead poisoning in predicting infant development.
Istituto Superiore Sanità, Rome Italy <b>Biomonitoring and toxicity of pollutants in the territory of Taranto, Italy</b> CCM 2013	Lucchini, RG (PI)	02/13/14– 08/12/16	Total costs €180,000	Cross sectional study targeted children residing in the proximity of a large smelter plant generating exposure to metals (lead, arsenic, manganese, mercury, cadmium), dioxins, PCBs and PAH. Behavioral outcomes will be assessed and analyzed with statistical

				models targeting mixed exposure
NIH/NIEHS <b>Manganese Exposure Windows and Neurologic Function in Adolescence</b> R56-ES019222-06	Lucchini, RG (PI)	09/10/15 - 09/29/16	Total costs \$270,000	Primary objective of this study is to characterize effects of environmental manganese (Mn) exposure on adolescent neurodevelopment through brain imaging. This is under consideration as a R01 beginning 9/30/2016.
INAIL - Italian Work Compensation Institute <b>Interaction between Genetic Predisposition and Occupational/environmental Exposure to Chemicals like Metals, Pesticides and Solvents in the Origin of Parkinsonian Disturbances</b> 60002.02/07/2012	Lucchini, RG (PI)	07/1/12 - 12/31/15	Total costs €150,000	A case-control study, retrospective occupational and environmental exposure to potential neurotoxic agents was assessed in Parkinson patients residing in the Brescian province in relation to genetic predisposition and various covariates.
Lombardy Region, Italy <b>Metals and children</b> 170174 SAL-68	Lucchini, RG (PI)	01/1/11-06/30/12	Total costs €210,000	International joint study between Lombardy Region, Italy and the University of Montreal, Québec, on the assessment of exposure biomarkers and various environmental media for metal concentration in Northern Italy and Québec. Biomarkers and environmental matrices yielded dose response assessment with neurobehavioral outcomes in children from both study sites.
NIH/NIEHS <b>Neurologic Function in Children Exposed to Ambient Manganese</b> R01 ES019222	Lucchini, RG (PI)	09/10/10-04/30/15	Total cost \$2,848,986	Investigated neurodevelopmental toxicity of ambient Manganese exposure in the Brescian province in residents exposed to environmental and occupational exposure metals, including manganese and lead, since the early 1900s. Adolescents were enrolled from three target sites with current and historical exposure and a reference area. Several neuropsychological endpoints were assessed, with various exposure biomarkers and environmental measures on different media. Genetic data were also measured to assess gene-environment interactions.
EU/6th Frame Program <b>Effects of manganese on the brain</b> FOOD-CT-2006-016253/WPI6	Lucchini, RG (PI)	03/1/06-02/28/11	Total cost €570,000	Project goal was to evaluate the association between exposure to manganese and neurotoxic outcomes in residents near the vicinity of a former ferroalloy plants in Northern Italy. The study population included children, workers, elderly and pregnant women according to a lifetime exposure concept.
Italian Institute of Prevention and Safety at Work (ISPESL) <b>Diagnostic markers of Parkinsonian syndromes with occupational and environmental origin</b> PFA/DML/UO2/	Lucchini, RG (PI)	05/2003-05/2006	Total cost €150,000	Assessment of differential markers for the diagnosis of parkinsonian disturbances through a comparison of Parkinson patients with different degree of exposure to neurotoxic agents
Italian Institute of Prevention and Safety at Work (ISPESL) <b>Alzheimer Disease: study of the risk related to occupational factors</b> PFA/DML/UO3/	Lucchini, RG (PI)	10/2001-07/2005	Total cost €150,000	Case-control study on the risk associated to occupational exposure to neurotoxic agents

National Research Council (CNR) <b>Frequency of Parkinsonian disturbances among residents near ferroalloy industries</b> 98.728.PS13	Lucchini, RG (PI)	06/1998-12/2001	Total cost €10,000	Assesse prevalence of Parkinsonian disturbances in a population with prolonged environmental exposure to manganese caused by the presence of ferroalloy industries
Italian Ministry of University and Research (MURST) <b>Assessment of effects due to low doses of inorganic mercury following environmental and occupational exposure: human and in vitro studies on specific toxicity mechanisms</b> COFIN98	Alessio, L (PI)	01/1998-12/2000		Study of the neurological, renal and immunological effects due to mercury exposure through occupation, dental amalgams and consumption of fish
Italian Institute of Prevention and Safety at Work (ISPESL) <b>Neurophysiological and neurochemical indicators of early effects for occupational exposure to metals</b> RC 38/97	Lucchini, RG (PI)	11/1998-11/2000		Assessment of neurophysiological and neurochemical indicators of early effects due to occupational exposure to heavy metals such as lead, manganese and mercury
Italian Institute of Prevention and Safety at Work (ISPESL) <b>Early neurotoxic effects in manganese exposed workers</b> RN 44/96	Lucchini, RG (PI)	07/1997-07/1999		Assessment of early effects of manganese exposure on neurobehavioral, neuroendocrine functions in ferroalloy workers

## CURRENT GRANTS

Funding Source, Project Title & Number	Role	Dates	Costs	Supplemental Info
NIH/NIEHS <b>The Mount Sinai Transdisciplinary Center on Health Effects of Early Environment</b> P30ES023515	Wright, RO (PI) Lucchini, RG (CoI)	04/01/14-03/31/23		This core center grant is designed to discover the environmental causes of disease in children, translate scientific discoveries into evidence-based strategies for prevention/ treatment, and build the careers of young physician scientists.
CDC/NIOSH <b>The World Trade Center Data and Coordination Center</b> 200-2017-93325	Lucchini, RG (PI)	04/01/17-03/31/22	\$28,680,673 Total Costs	This project is the coordinating center for a multicenter program providing monitoring and treatment to volunteers who assisted in the recovery and cleanup after the 9/11 attack. The Data Center collects data from five different clinical centers, provide data analysis with periodical reporting on health surveillance.
CDC/NIOSH <b>NIOSH (Region II NY/NJ) Educational Resource Center</b> T42 OH008422	Lucchini, RG (PI)	07/01/05-06/30/21	\$8,667,721 Total Costs	The goal of this Educational Research Center is to provide training in occupational safety and health to occupational health professionals in the States of New York and New Jersey. The Center includes a network of five Institutions: Icahn School of Medicine at Mount Sinai (Occupational Medicine), Rutgers University (Occupational Medicine), Hunter College (Industrial Hygiene), New Jersey Institute of technology (Occupational Health and Safety), New York University (Ergonomics and Nursing)
NIH/NIEHS <b>Manganese Exposure Windows and Neurologic Function in Adolescence</b> R01ES019222-06A1	Lucchini, RG (PI)	09/30/16 - 08/31/21	\$2,663,068 Total Costs	This study will address the mechanisms by which environmental chemicals may impact adolescent brain development and can help explain and prevent



				maladaptive development from occurring potentially identifying future interventions to mitigate the impact of chemicals on the adolescent brain. The study is a follow up of the previous baseline conducted in the province of Brescia, Italy, and will entail functional MRI assessment.
CDC/NIOSH <b>Structural and Functional Neuroimaging of Post-Traumatic Stress Disorder and Cognitive Impairment in World Trade Center Responders</b> U01OH011314	Lucchini, RG (PI)	09/01/16–08/31/20	\$2,398,962 Total Costs	This study will assess brain changes in World Trade Center responders who were exposed to a mix of neurotoxins and to psychological trauma, exploring interrelations between cognitive impairment and Post Traumatic Stress Disorder.
University of Brescia, Italy <b>Health impacts of environmental exposure to airborne pollutants in the sites of Brescia and Taranto, Italy: increase knowledge to address preventive intervention of local and global relevance.</b> UNBSCLE 9015	Placidi D (PI) Lucchini, RG (COI)	11/1/16 – 10/30/19	€450,000 Total funding	Study aim is to assess the health impact of occupational and environmental exposure to metals and persistent organic pollutants in two Italian sites with relevant industrial emission. The study will focus on neurological and respiratory effects in workers, children and elderly, residing in the vicinities of the point sources. Transport of pollutants will be modeled from the emission points to the school and home environments and through soil to ground water.

## PENDING GRANTS

CDC/NIOSH <b>Aging Processes Among WTC Responders: Identification of Premature Aging and Preventive Strategies</b>	Lucchini, RG (CoPI)			This U01 grant aims to identify individuals at risk for early aging through clinical, laboratory data of frailty among the WTC responders who were highly exposed to chemical hazards and psychological trauma
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## CLINICAL TRIALS PARTICIPATION

None

## TRAINEES

Name	Level of Trainee	Role in Training & Inclusive Dates of Training	Training Venue and topic	Trainees' Current Status/Employment
Birgit Clauss-Hann, SD	Early carrier	Primary Mentor and co-Mentor to Junior Faculty and Postdoctoral: 2014-16	NIEHS K99/R00 Pathway to Independence Award "Metal mixtures, children's cognition, and sensitive developmental windows"	Assistant Professor, Boston University School of Public Health
Marco Peli	PhD student	Primary and co-Mentor to doctoral students: Training Period 2014-18	University of Brescia, and Visiting student at Columbia University, New York "Transportation of metallic elements from industrial emission in home and school environment and through soil to ground water"	PostDoc, University of Brescia, Italy
Stephanie Peter	PhD student	Primary and co-Mentor to doctoral students: Training Period 2012-2014	University of Brescia, Italy and visiting student University of California, Santa Cruz, CA	Nutritionist in Pharmaceutical Industry, Munich, Germany

			"Assessment of exposure to metals in human nutrition and accumulation of manganese and lead via inhalation in the province of Brescia, Italy"	
Roberta Ferri	PhD student	Primary and co-Mentor to doctoral students: Training Period 2011-2013	University of Brescia, Italy and visiting student, University of California at Santa Cruz "Study of heavy metals bio-accumulation in plant species"	Expert in food safety, Brescia, Italy
Rachel Eastman	Master student	Primary and co-Mentor to doctoral students: Training period 2011-2012	University of California, Santa Cruz, CA "Hair as biomarker of environmental manganese exposure"	Occupational Health and Safety Specialist, University of Colorado at Boulder
Mervat Mohamed	PhD student	Primary and co-Mentor to doctoral students: Training period 2008	University of Brescia, Italy and Menoufiya University, Egypt "Health disorders among workers in a tobacco factory Menoufiya Governorate"	Professor in Industrial Medicine and Occupational Health Menoufiya University Egypt. Consultant for Occupational Health Ministry of Health, Saudi Arabia
Silvia Zoni	PhD student	Primary and co-Mentor to doctoral students: Training Period 2007-09	University of Bari, Italy "A methodology for the assessment of stress and psychosocial factors among healthcare workers"	Clinical neuropsychologist, Parma, Italy
Elisa Albini	PhD student	Primary and co-Mentor to doctoral students: Training Period 2007-09	University of Bari, Italy "Effects of manganese on the central nervous system",	Medical Director, Employee Health Service, Civil Hospital of Brescia, Italy
Maryse Bouchard	PhD student	Primary and co-Mentor to doctoral students: Training period 2005-2007	Université de Montréal, Quebec "Cohort Study on Neurobehavioral Function in workers 14 years after cessation of exposure to manganese"	Associate Professor, Department of Environmental and Occupational Health, Université de Montréal & CHU Sainte-Justine Chercheur-bousier IRSC/CIHR New Investigator, Montreal, Canada

## TEACHING ACTIVITIES

<u>Teaching Activity/Topic</u>	<u>Level</u>	<u>Role</u>	<u>Indicate Level and Number of Learners Taught, and Venue</u>	<u>Number of hours week/month/yr</u>	<u>Evaluation Summary</u>	<u>Years Taught</u>
Mentor for training in occupational medicine and neurobehavioral toxicology for the GEO-Health Hub for Occupational & Environmental Health titled " <b>Improving Agricultural Health in Southeast Asia</b> " Fogarty/NIH # 1U2RTW010088-01.	<i>International</i>	<i>Mentor</i>	<i>1</i>		Research specific training and mentorship administer in the U.S. by the partner Institutions of UMass, Rutgers and Mt. Sinai, resulting in a funded interdisciplinary project extending research being conducted in Southern East Asia.	2015 - 2020
<b>Advanced Summer International Training in Global Occupational/</b>	<i>International Level-Medical</i>	<i>Course Director</i>	<i>Undergraduate Students, Graduate</i>	<i>20 contact hrs/wk (1 week every two</i>	Chulabhorn Research Institute, Bangkok, Thailand Summer School	2016-present

<b>Environmental Health</b>	<i>School Course</i>		<i>Students, Medical Residents Fellows</i>	<i>years)</i>		
<b>Memorandum of Understanding for Education and Research between the University of Brescia and the Icahn School of Medicine, New York</b>		<i>Coordinator</i>			This collaboration agreement has yielded 10 exchange internships for medical residents, doctoral students and faculties including Occupational Medicine, Environmental Engineering, Cardiology, Hematology, Geriatrics, Radiology, Emergency critical care and Rehabilitation.	2013 – present
<b>History of Occupational Health</b>	<i>Institutional Level</i>	<i>Lecturer</i>	<i>1<sup>st</sup> Year Medical Students</i>	<i>10 contact hrs/yr</i>	Icahn School of Medicine course, New York, New York	2012-present
<b>Summer School on Global Occupational and Environmental Determinants of Disease</b>	<i>International Level</i>	<i>Course Director</i>	<i>Undergraduate Students, Graduate Students, Medical Residents, Fellows</i>	<i>10 contact hrs/wk</i>	University of Brescia, School of Medicine, Brescia, Italy	2008-present
<b>Occupational Medicine</b>	<i>International Level</i>	<i>Lecturer</i>	<i>2nd and 3rd year medical students</i>	<i>20 contact hrs/semester</i>	University of Brescia, School of Medicine, School of Occupational Safety, and School of Nursing, Brescia, Italy	2005 - present
<b>Biological Impacts of Chemical Exposure</b>	<i>National Level</i>	<i>Lecturer</i>	<i>Graduate Students, Fellows</i>	<i>30 contact hrs/yr</i>	University of California, Department of Microbiology and Environmental Toxicology, Santa Cruz, California	2005-present

## **ADMINISTRATIVE LEADERSHIP APPOINTMENTS**

### **GENERAL ADMINISTRATION LEADERSHIP ACTIVITIES:**

1. **Budget and resource management.** Plan and manage multiple grants, hire personnel, manage budget, service contracting, and periodical reporting for complex grants funded by:
  - a. National Institute of Occupational Safety and Health (NIOSH) World Trade Center Health Program (WTCHP) Data Center at Mount Sinai (\$53M from 2011-2016);
  - b. NIOSH WTCHP Clinical Center of Excellence at Mount Sinai (\$19M from 2011-2016);
  - c. NIOSH Education and Research Center for New York and New Jersey (\$ 6,037,314 from 2012 -2016)
  - d. New York State Department of Health for the NYS Occupational Health Clinic Network (\$13.5M from 2013-2018)
  - e. Clinical operation at the Selikoff Centers of Occupational Health located in Manhattan, Staten Island, Yonkers, Monroe (Overall income generated by Faculty Practice Associates in 2015 \$6,600,000
  - f. Acquired contracts with private companies and unions for clinical services including exposure assessment, health surveillance, screenings, and promotion of employee health and wellness in the NYC metropolitan area.
  
2. **Development, advancement and outreach.** Supervise communication and media regarding clinical and research activities, attend fundraising events and quarterly meetings in Albany, NY for Occupational Health clinic network. Organize

quarterly meetings for advisory board for Selikoff centers in all New York boroughs, lower Hudson Valley and ERC for New York. Attend bi-annual Board of Directors of national NIOSH ERC centers in Washington DC. Solicit federal funding for education, research and training in occupational health and safety in Washington DC. Organize and participate in promotional activities for the World Trade Center health program and the Selikoff centers in Monroe, Staten Island and Yonkers N.Y. Routinely outreach for the World Trade Center Health Program and for the ERC program by meeting with senators and house representative of New York State. Successfully built and managed trade union relations by promoting health protection and improvement of safety policies, currently lobbying for improvements and reforms for the NYS Workers' Compensation Board.

3. **Faculty development.** Increased allocation for travel to professional conferences and training courses. Organize monthly seminars for visiting US and foreign professors. Collaborate with mentor junior faculty for poster presentations at national and international conferences. Coordinate grant submissions for junior faculty. Write letters of support for faculty applications for external grants; provide hospital resources as appropriate to enhance those applications. Provide ongoing mentorship of junior postdoctoral candidates, researchers and junior faculty.
4. **Human Resource Management.** Oversee 240 employees of the Division, interview candidates and work with department chair to recruit qualified candidates including MD providers, industrial hygienists, ergonomists, epidemiologists, statisticians, data analysts, programmers, outreach and marketing staff. Review promotion cases and prepare recommendations. Conduct annual performance appraisals, renew contracts and annual appointments. Work with departments and human resource personnel to resolve personnel disputes. Respond to grievances, disciplinary actions, and legal issues. Provide conflict resolution. Prepare letters of support for awards for faculty and staff. Created and implemented new faculty and staff orientations and performance promotions.
5. **Communication and marketing.** Responsible for media communication regarding the World Trade Health Center Health Program, Occupational Health, and Workplace Health Promotion; participated in numerous local, national and international print and television interviews pertaining to cancer, mortality and occupational health and safety issues. Contributed and participated in Italian news live broadcast of Pope Francesco's visit to Ground Zero on October 24, 2015 and follow up visit to Vatican in November 2015 to seek support for the World Trade Center Program and other major disaster health and emergency preparation programs.

## PUBLICATIONS

### Peer Reviewed Original Contributions

1. **Lucchini RG**, McDiarmid M, van der Laan G, Rosen M, Placidi D, Randon K, Kurtz, L. Philip Landrigan Education And Training: Key Factors In Global Occupational And Environmental Health. *Annals Of Global Health*, 2018 Aug 31; 84(3):436–441
2. Bilo F, Wambui A, Assi A, Zacco A, Federici S, Eichert D, Tsuji K, **Lucchini R**, Placidi D, Bontempi E, Depero LE. Comparison of multiple X-ray fluorescence techniques for elemental analysis of particulate matter collected on air filters. *Journal of Aerosol Science*, August 2018; 122: 1-10.
3. Hashim D, Boffetta P, Galsky M, Oh W, **Lucchini R**, Crane M, Luft L, Moline J, Udasin I, Harrison D, Schymura MJ, Taioli E. Prostate cancer characteristics in the World Trade Center cohort, 2002-2013. *European Journal of Cancer Prevention. Eur J Cancer Prev.* 2018 Jul;27(4):347-354. PubMed PMID: [27898584](#); PubMed Central PMCID:[PMC5443704](#)
4. Bello GA, **Lucchini RG**, Teitelbaum SL, Shapiro M, Crane MA, Todd AC. Development of a Physiological Frailty Index for the World Trade Center General Responder Cohort. *Current Gerontology and Geriatrics Research Volume 2018 Feb 26;2018:3725926*; PubMed PMID: [29681931](#); PubMed Central PMCID:[PMC5846374](#)
5. **Lucchini RG**, Aschner M, Landrigan PJ, Cranmer J. Prevention of the Neurotoxicity Of Manganese: Indications For Future Research And Public Health Intervention. *Neurotoxicology* 2018 Jan;64:1-4. PubMed PMID: 29429640; PubMed Central PMCID: [PMC6058309](#)
6. Riva, M.A., Belingheri, M., De Vito, G. **Lucchini R**. Bernardino Ramazzini (1633-1714). *J Neurol*, 2018. <https://doi.org/10.1007/s00415-018-8733-y>
7. Bello GA, Teitelbaum SL, **Lucchini RG**, Dasaro CR, Shapiro M, Kaplan JR, Crane MA, Harrison DJ, Luft BJ, Moline JM, Udasin IG, Todd AC. Assessment of cumulative health risk in the World Trade Center general responder cohort. *Am J Ind Med* 2018 Jan;61(1):63-76
8. Wahlberg K, Arora M, Curtin A, Curtin P, Wright RO, Smith DR, **Lucchini RG**, Broberg K, Austin C. Polymorphisms in manganese transporters show developmental stage and sex specific associations with manganese concentrations in primary teeth. *Neurotoxicology* 2018 Jan, 64: 103-9
9. Bauer JA, Claus Henn B, Arora M, Austin C, Zoni S, Fedrighi C, Cagna G, Placidi D, White RF, Yang Q, Coull BA, Smith DR, **Lucchini RG**, Wright RO. Tooth manganese and neurobehavior: sex-specific windows of susceptibility. *Environ Int* 2017 Nov;108:299-308
10. Chiu YM, Claus Henn B, Hsu HL, Pendo MP, Coull BA, Austin C, Cagna G, Fedrighi C, Placidi D, Smith DR, Wright RO, **Lucchini RG**, Arora M. Sex differences in sensitivity to prenatal and early childhood manganese exposure on neuromotor function in adolescents. *Environ Res.* 2017 Nov; 159: 458-465.
11. Hashim D, Manczuk M, Holcombe R, **Lucchini R**, Boffetta P. Cancer mortality disparities among New York City's Upper Manhattan neighborhoods. *Eur J Cancer Prev.* 2017 Nov;26(6):453-460
12. Descatha A, Schunder-Tatzber S, Burgess J, Cassan P, Kubo T, Rotthier S, Wada K, Baer M; **EPROH Scientific Committee**. Emergency Preparedness and Response in Occupational Setting: A Position Statement. *Front Public Health.* 2017 Sep 21;5:251.
13. **Lucchini R**, Placidi D, Cagna G, Fedrighi C, Oppini M, Peli M, Zoni S. Manganese and Developmental Neurotoxicity. *Adv Neurobiol.* 2017;18:13-34.
14. Filippini T, Michalke B, Grill P, Malagoli C, Malavolti M, Vescovi L, Sieri S, Krogh V, Cherubini A, Maffei G, **Lucchini R**, Ferrante M, Vinceti M. Determinants of serum manganese levels in an Italian population. *Mol Med Rep.* 2017 May;15(5):3340-3349.
15. Dasaro CR, Holden WL, Berman KD, Crane MA, Kaplan JR, **Lucchini RG**, Luft BJ, Moline JM, Teitelbaum SL, Tirunagari US, Udasin IG, Weiner JH, Zigrossi PA, Todd AC. Cohort Profile: World Trade Center Health Program General Responder Cohort. *Int J Epidemiol.* 2017 Apr 1;46(2):e9
16. Napier CO, Mbadugha O, Bienenfeld LA, Doucette JT, **Lucchini R**, Luna-Sánchez S, de la Hoz RE. Obesity and weight gain among former World Trade Center workers and volunteers. *Arch Environ Occup Health.* 2017 Mar 4;72(2):106-110

17. **Lucchini RG**, Hashim D, Acquilla S, Basanets A, Bertazzi PA, Bushmanov A, Crane M, Harrison DJ, Holden W, Landrigan PJ, Luft BJ, Mocarelli P, Mazitova N, Melius J, Moline JM, Mori K, Prezant D, Reibman J, Reissman DB, Stazharau A, Takahashi K, Udasin IG, Todd AC A comparative assessment of major international disasters: the need for exposure assessment, systematic emergency preparedness, and lifetime health care. *BMC Public Health* 2017 Jan 7;17(1):46
18. Onyebeke LC, Papazaharias DM, Freund A, MSPH, Dropkin J, McCann M, Sanchez SH, Hashim D, Meyer JD, **Lucchini RG**, Zuckerman NC. Access to Properly Fitted Personal Protective Equipment for Female Construction Workers. *Am J Ind Med*. 2016 Nov;59(11):1032-1040
19. Icitovic N, Onyebeke LC, Wallenstein S, Dasaro CR, Harrison D, Jiang J, Kaplan JR, **Lucchini RG**, Luft BJ, Moline JM, Pendem L, Shapiro M, Udasin IG, Todd AC, Teitelbaum SL. The association between body mass index and gastroesophageal reflux disease in the World Trade Center Health Program General Responder Cohort. *Am J Ind Med*. 2016 Sep;59(9):761-6.
20. Jiang J, Icitovic N, Crane MA, Dasaro CR, Kaplan JR, **Lucchini RG**, Luft BJ, Moline JM, Pendem L, Shapiro M, Udasin IG, Todd AC, Teitelbaum SL. Sex differences in asthma and gastroesophageal reflux disease incidence among the World Trade Center Health Program General Responder Cohort. *Am J Ind Med*. 2016 Sep;59(9):815-22
21. Hashim D, Farhat Z, Wallenstein S, Manczuk M, Holcombe RF, Thorpe L, Schymura MJ, **Lucchini RG**, Boffetta P. Standardized cancer incident disparities in Upper Manhattan New York City neighborhoods: the role of race/ethnicity, socioeconomic status and known risk factors. *Eur J Cancer Prev*. 2016 Jul;25(4):349-56
22. Placidi D, Caci M, Oppini M, Passeri C, Guazzetti S, Rizzetti C, Padovani Am Covolo L, Gelatti U., Lucchini R. Environmental and genetic determinants of parkinsonism from a case-control study in Brescia, Italy. *Environ Health Perspectives* 2016 March; 3: 217
23. Reibman J, Levy-Carrick N, Miles T, Flynn K, Hughes C, Crane M, **Lucchini RG**. Destruction of the World Trade Towers: Lesson Learned from an environmental disaster. *Ann Am Thorac Soc*. 2016 Feb 12, PMID: 26872108
24. Stein CR, Wallenstein S, Shapiro M, Hashim D, Moline JM, Udasin I, Crane MA, Luft BJ, **Lucchini RG**, Holden WL. Mortality among World Trade Center Rescue and Recovery Workers, 2002 – 2011. *Am J Ind Med*. 2016 Feb;59(2):87-95
25. Boffetta P, Zeig-Owens R, Wallenstein S, Li J, Brackbill R, Cone J, Farfel M, Holden W, **Lucchini R**, Webber MP, Prezant D, Stellman SD. Cancer in World Trade Center Responders: Findings from Multiple Cohorts and Options for Future Study. *Am J Ind Med*. 2016 Feb;59(2):96-105.
26. Wahlberg K, Kippler M, Alhamdow A, Rahman M, Smith DR, Vahter M, **Lucchini R**. Common polymorphisms in the solute carrier SLC30A10 are associated with blood manganese and neurological function. *Toxicol Sci*. 2016 Feb;149(2):473-83.
27. Rosa MJ, Benedetti C, Peli M, Donna F, Nazzaro M, Fedrighi C, Zoni S, Marcon A, Zimmerman N, Wright R, **Lucchini R**. Association between personal exposure to ambient metals and respiratory disease in Italian adolescents: a cross-sectional study. *BMC Pulm Med*. 2016 Jan 12;16(1):6.
28. Iannilli E, Gasparotti R, Hummel T, Zoni S, Benedetti C, Fedrighi C, Tang CY, Van Thriel C, **Lucchini RG**. Effects of Manganese exposure on olfactory functions in teenagers: a pilot study. *PLoS One*. 2016 Jan 14;11(1):e0144783.
29. **Lucchini RG**, Landrigan PJ. Occupational Health and Safety in the Expanding Economies: Severe Challenges and the Need for Action through Education and Training. *Ann Glob Health*. 2015 Jul-Aug;81(4):463-4.
30. **Lucchini RG**, Hashim D. Tremor secondary to neurotoxic exposure: mercury, lead, solvents, pesticides. *Handb Clin Neurol*. 2015;131:241-9.
31. Ferri R, Hashim D, Smith DR, Guazzetti S, Donna F, Ferretti E, Curatolo M, Moneta C, Beone GM, **Lucchini RG**. Metal contamination of home gardens soils and cultivated vegetables in the province of Brescia, Italy: Implications for human exposure. *Sci Tot Environ* 2015; 518-519C:507-517
32. Lucas EL, Bertrand P, Guazzetti S, Donna F, Peli M, Jursa TP, **Lucchini R**, Smith DR. Impact of ferromanganese alloy plants on household dust manganese levels: Implications for childhood exposure. *Environ Res*. 2015 Mar 3;138C:279-290
33. Hashim D, Gaughan D, Boffetta P, **Lucchini RG**. Baseline serum B-carotene concentration and

- mortality among long-term asbestos-exposed insulators. *Cancer Epidemiol Biomarkers Prev.* 2015, 24(3):555-60.
34. Pavilonis BT, Liroy PJ, Guazzetti S, Bostick BC, Donna F, Peli M, Zimmerman NJ, Bertrand P, Lucas E, Smith DR, Georgopoulos PG, Mi Z, Royce SG, **Lucchini RG**. Manganese concentrations in soil and settled dust in an area with historic ferroalloy production. *J Expo Sci Environ Epidemiol* (2015) 25, 443–450
  35. **Lucchini RG**, London L. Global occupational health: current challenges and the need for urgent action, *Annals of Global Health*, 2014;80(4):251-256.
  36. Myers J, London L, **Lucchini RG**. Neurotoxicology and development: Human, environmental and social impacts. *Neurotoxicology*, 2014;45:217-9.
  37. **Lucchini RG**, Guazzetti S, Zoni S, Benedetti C, Fedrighi C, Peli M, Donna F, Bontempi E, Borgese L, Micheletti S, Ferri R, Marchetti S, Smith DR. Neurofunctional Dopaminergic impairment in elderly after lifetime exposure to manganese. *Neurotoxicol* 2014;45:309-17
  38. Freund A, Zuckerman N, Luo H, Hsu HH, **Lucchini R**. Diesel and silica monitoring at two sites following hurricane sandy. *J Occup Environ Hyg.* 2014;11(9):D131-43.
  39. Borgese L, Federici S, Zacco A, Gianoncelli A, Rizzo L, Smith DR, Donna F, **Lucchini R**, Depero LE, Bontempi E. Metal fractionation in soils and assessment of environmental contamination in Vallecamonica, Italy. *Environ Sci Pollut Res Int.* 2013 Jul;20(7):5067-75
  40. Eastman RR, Jursa TP, Benedetti C, Lucchini RG, Smith DR. Hair as a biomarker of environmental manganese exposure. *Environ Sci Technol.* 2013 Feb 5;47(3):1629-37.
  41. Meyer-Baron M, Schäper M, Knapp G, **Lucchini R**, Zoni S, Bast-Pettersen R, Ellingsen DG, Thomassen Y, He S, Yuan H, Niu Q, Wang XL, Yang YJ, Iregren A, Sjögren B, Blond M, Laursen P, Netterstrom B, Mergler D, Bowler R, van Thriel C. The neurobehavioral impact of manganese: Results and challenges obtained by a meta-analysis of individual participant data. *Neurotoxicology.* 2013; 36C:1-9
  42. Barbieri PG, Pizzoni T, Scolari L, **Lucchini RG**. Symptoms and Upper limb work-related musculoskeletal disorders among 173 supermarket cashiers. *Med Lav* 2013, 104 (2): 236-243
  43. Solan S, Wallenstein S, Shapiro M, Teitelbaum SL, Stevenson L, Kochman A, Kaplan J, Dellenbaugh C, Kahn A, Biro FN, Crane M, Crowley L, Gabilove J, Gonsalves L, Harrison D, Herbert R, Luft B, Markowitz SB, Moline J, Niu X, Sacks H, Shukla G, Udasin I, **Lucchini RG**, Boffetta P, Landrigan PJ. Cancer Incidence in World Trade Center Rescue and Recovery Workers, 2001-2008. *Environ Health Perspect.* 2013 121:699-704.
  44. Zoni S, **Lucchini RG**. Manganese exposure: cognitive, motor and behavioral effects on children: a review of recent findings. *Curr Opin Pediatr.* 2013 Apr;25(2):255-60.
  45. **Lucchini RG**, Crane MA, Crowley L, Globina Y, Milek DJ, Boffetta P, Landrigan PJ. The World Trade Center health surveillance program: results of the first 10 years and implications for prevention. *G Ital Med Lav Ergon.* 2012 Jul-Sep;34(3 Suppl):529-33.
  46. Zoni S, **Lucchini R**. European Approaches to Work-Related Stress: A Critical Review on Risk Evaluation. *Saf Health Work* 2012; 3: 43-9
  47. Zoni S, Bonetti G, Lucchini R. Olfactory functions at the intersection between environmental exposure to manganese and parkinsonism. *J Trace Elem Med Biol.* 2012 26(2-3):179-82.
  48. **Lucchini RG**, Zoni S, Guazzetti S, Bontempi E, Micheletti S, Broberg K, Parrinello G, Smith DR. Inverse association of intellectual function with very low blood lead but not with manganese exposure in Italian adolescents. *Environ Res.* 2012 Oct; 118:65-71
  49. Braun JM, **Lucchini R**, Bellinger DC, Hoffman E, Nazzaro M, Smith DR, Wright RO. Predictors of virtual radial arm maze performance in adolescent Italian children. *Neurotoxicology.* 2012 Oct;33(5):1203-11.
  50. **Lucchini RG**, Dorman DC, Elder A, Veronesi B. Neurological impacts from inhalation of pollutants and the nose-brain connection. *Neurotoxicology* 2012 33(4):838-41
  51. Rentschler G, Covolo L, Ahmadi Haddad A, **Lucchini RG**, Zoni S, Broberg K. ATP13A2 (PARK9) polymorphisms influence the neurotoxic effects of manganese. *Neurotoxicology.* 2012 Aug;33(4):697-702.
  52. **Lucchini RG**, Guazzetti S, Zoni S, Donna F, Peter SA, Zacco A, Bontempi E, Salmistraro M,

- Zimmerman NJ, Smith DR. Tremor, olfactory and motor changes in Italian adolescents exposed to historical ferro-manganese emission. *Neurotoxicology* 2012. 33(4):687-96.
53. Bal-Price AK, Coecke S, Costa L, Crofton KM, Fritsche E, Goldberg A, Grandjean P, Lein PJ, Li A, **Lucchini R**, Mundy WR, Padilla S, Persico AM, Seiler AEM, and Kreysa J Advancing the Science of Developmental Neurotoxicity (DNT): Testing for Better Safety Evaluation. *Altex* 2012, 29; 2/12: 202-215
  54. Ferri R, Donna F, Smith DR, Guazzetti S, Zacco A, Rizzo L, Bontempi E, Zimmerman NJ, **Lucchini RG**. Heavy Metals in Soil and Salad in the Proximity of Historical Ferroalloy Emission *Journal of Environmental Protection*, 2012, 5, 374-385
  55. Borgese L, Salmistraro M, Gianoncelli A, Zacco A, Bontempi E, **Lucchini R**, Zimmerman N, Pisani L, Siviero G, Depero LE. Airborne Particulate Matter (PM) filter analysis and modeling by Total reflection X-Ray Fluorescence (TXRF) and X-Ray Standing Wave (XSW). *Talanta*. 2012 Jan 30;89:99-104.
  56. **Lucchini RG**, Riva MA, Sironi VA, Porro A. *Torvis oculis*: Occupational roots of behavioral neurotoxicology in the last two centuries and beyond. *Neurotoxicology* 2012; 33 652–659
  57. Meyer-Baron M, Schäper M, Knapp G, **Lucchini R**, Albini E, Bast-Pettersen R, He S, Yuan H, Niu Q, Wang XL, Yang YJ, Iregren A, Sjögren B, Blond M, Laursen P, Netterstrom B, Mergler D, Bowler R, van Thriel C. Statistical means to enhance the comparability of data within a pooled analysis of individual data in neurobehavioral toxicology. *Toxicol Lett*. 2011; 206(2):144-51
  58. Borgese L, Zacco A, Pal S, Bontempi E, **Lucchini RG**, Zimmerman NJ, Depero LE. A new non-destructive method for chemical analysis of particulate matter filters: The case of manganese air pollution in Vallecamonica (Italy). *Talanta* 84 (2011) 192–198
  59. Albini E, Zoni S, Parrinello G, Benedetti L, **Lucchini R**. An integrated model for the assessment of stress-related risk factors in health care professionals. *Ind Health*. 2011;49(1):15-23.
  60. Abdel Rasoul GM, El-Sobky MK, Michael AA, **Lucchini R**, El Dalatony MM. Respiratory disorders among workers in a tobacco factory. *Egyptian Journal of Occupational Medicine*, 2010; 34 (2) : 255-266
  61. Isgrò A, **Lucchini R**, Alessio L (2010). [Consumption And Abuse Of Psychotropic Substances At Work: A Complex Phenomenon And A New Chance For The Occupational Physician]. *Giornale Italiano Di Medicina Del Lavoro Ed Ergonomia*. 298- 299. 32:4, Suppl 2. Italian
  62. Borghesi S, Isgrò A, **Lucchini R**, Alessio L (2010). [Musculoskeletal Disorders Of The Upper Limb In Agriculture: Epidemiological Evidence]. *Giornale Italiano Di Medicina Del Lavoro Ed Ergonomia*. 307-308. 32:4, Suppl 2. Italian
  63. Mastroeni A, **Lucchini R**, Alessio L (2010). [Occupational Diseases In Construction Industry: The Experience Of the Occupational Health Institute Of Brescia In The Period 2006-2010]. *Giornale Italiano Di Medicina Del Lavoro Ed Ergonomia*. 340- 341. 32:4, Suppl 2. Italian
  64. **Lucchini RG**, Somenzi V, Mossini E, Tieghi S, Borghesi S. [Development of the agricultural sector in Italy: need to harmonize production and health protection]. *G Ital Med Lav Ergon*. 2010 Oct-Dec;32(4 Suppl):396-9. Italian.
  65. Zacco A, Resola S, **Lucchini RG**, Albini E, Zimmerman N, Guazzetti S, Bontempi E. Analysis of settled dust with X-ray Fluorescence for exposure assessment of metals in the province of Brescia, Italy. *J Environ Monit*. 2009 Sep;11(9):1579-85.
  66. **Lucchini RG**, Martin C, Doney B. From Manganism to Manganese-induced parkinsonism: a conceptual model based on the evolution of exposure. *Neuro Mol Med*, 2009;11(4):311-21.
  67. **Lucchini RG**, Zimmerman N. Lifetime cumulative exposure as a threat for neurodegeneration: Need for prevention strategies on a global scale. *NeuroToxicology* 30 (2009) 1144–1148
  68. Squitti R, Gorgone G, Panetta V, **Lucchini RG**, Bucossi S, Albini E, Alessio L, Alberici A, Melgari JM, Benussi L, Binetti G, Rossini PM, Draicchio F. Implications of metal exposure and liver function in Parkinsonian patients resident in the vicinities of ferroalloy plants. *J Neural Transm*. 2009 Oct;116(10):1281-7
  69. **Lucchini R**, Squitti R, Albini E, Benedetti L, Borghesi S, Nan E. Manganese exposure as a determinant of Parkinsonian damage. *Cell Biol Toxicol* 2008; 24:445—448
  70. Rohlman DS, **Lucchini R**, Anger WK, Bellinger DC, van Thriel C. Neurobehavioral testing in human



- risk assessment. *Neurotoxicology*. 2008;29(3):556-67.
71. Zoni S, Albini E, Marchetti S, Franceschini R., Taccia R, Trombini E, **Lucchini R** [A follow-up study to assess stress and burnout in healthcare workers] In Italian. *G Ital Med Lav Ergon*. 2007; 29 (3): 698-700
  72. Borghesi S, Carta A, **Lucchini R** [Upper limb work-related disorders: description of an Italian hospital based case study] In Italian. *G Ital Med Lav Ergon*. 2007; 29 (3): 590-591
  73. Nan E, Albini E, Zoni S, **Lucchini R** [A method for the measurement of workplace violence in health care workers]. In Italian. *G Ital Med Lav Ergon*. 2007; 29 (3): 362-364
  74. Caruso A, **Lucchini R**, Toffoletto F, Porro S, Mascagni P [Study of the olfactory function of a group of workers with significant lead exposure] In Italian. *G Ital Med Lav Ergon*. 2007; 29 (3): 460-463
  75. Albini E, Benedetti L, Caruso A, Marchetti S, Nan E, Zoni S, **Lucchini R**. [Occupational exposure to manganese in ferroalloy industry: neurobehavioral effects in a workers' cohort] In Italian. *G Ital Med Lav Ergon*. 2007; 29 (3): 272-274.
  76. **Lucchini R**, Albini E, Benedetti L, Zoni S, Caruso A, Nan E, Pasqualetti P, Rossigni PM, Binetti G, Benussi L, Parrinello G, Gasparotti R, Padovani A, Draicchio F, Alessio L. Neurological And Neuropsychological Features In Parkinsonian Patients Exposed To Neurotoxic Metals. *G Ital Med Lav Ergon*. 2007; 29 (3): 280-281.
  77. Alessio L, Campagna M, **Lucchini R**. From Lead To Manganese Through Mercury: Mythology, Science And Lessons For Prevention. *AJIM* 2007;50(11):779-87
  78. Zoni S, Albini E, **Lucchini R**. Neuropsychological Testing For The Assessment Of Manganese Neurotoxicity: A Review And A Proposal. *AJIM* 2007;50(11):812-30.
  79. Smith D, Gwiazda R, Bowler R, Roels H, Park R, **Lucchini R**. Biomarkers of Mn Exposure: Animal Model and Human Studies. *AJIM* 2007;50(11):801-11
  80. **Lucchini R**, Albini E, Benedetti L, Borghesi S, Coccaglio R, Malara E, Parrinello G, Garattini S, Resola S, Alessio L, High Prevalence Of Parkinsonian Disorders Associated To Manganese Exposure In The Vicinities Of Ferroalloy Industries. *Am J Ind Med* 2007; 50: 11: 788-800
  81. Gwiazda R, **Lucchini R**, Smith D. Adequacy And Consistency Of Animal Studies To Evaluate The Neurotoxicity Of Chronic Low Level Manganese Exposure In Humans. *Journal of Toxicology and Environmental Health Part A*, 2007; 70: 594–605, 2007
  82. Landrigan P, Nordberg M, **Lucchini R**, Nordberg G, Grandjean P, Iregren A, Alessio L. The Declaration of Brescia on Prevention of the Neurotoxicity of Metals. *Am J Ind Med* 2007 Oct;50(10):709-11
  83. Zefferino R, Facciorusso A, Lasalvia M, Narciso M, Nuzzaco A, **Lucchini R**, L'Abbate N. Salivary markers of work stress in an emergency team of urban police (1 degree step). *G Ital Med Lav Ergon*. 2006 Oct-Dec;28(4):472-7
  84. Alessio L, **Lucchini R**. 2006. Prolactin changes as a consequence of chemical exposure. *Environ Health Persp*. 114 (10): A573-4 (letter).
  85. Alessio L, Crippa M, Porru S, **Lucchini R**, Placidi D, Vanoni O, Torri D From clinical activities to didactics and research in Occupational Medicine. *Med Lav* 2006; 97 (2): 393-401
  86. Porru S, Crippa M, **Lucchini R**, Carta A, Placidi D, Alessio L Fitness for work in difficult cases: an occupational medicine experience in a University Hospital. *Med Lav* 2006; 97 (3): 521-528
  87. Antonini JM, Santamaria AB, Jenkins NT, Albini E, **Lucchini R**. Fate of manganese associated with the inhalation of welding fumes: Potential neurological effects. *NeuroToxicology* 27 (2006) 304–310
  88. **Lucchini R**., Benedetti L., Albini E., Alessio L. Neurobehavioral Science In Hazard Identification And Risk Assessment Of Neurotoxic Agents – What Are The Needs For Further Development? *Int Arch Occup Environ Health*. (2005) 78: 427–437
  89. Papaleo B, Alessio, Apostoli P, Battista G, Benedetti L, **Lucchini R**, Pasqualetti P. [Alzheimer disease: study of occupational risk factors] *G Ital Med Lav Ergon* 2004;26(4):310-312
  90. **Lucchini R**, Albini E, Borghesi S, Caruso A, Alessio L. [Multiple chemical sensitivity syndrome: case stories] *G Ital Med Lav Ergon* 2004;26(4):125-126
  91. **Lucchini R**, Elisa Albini, Laura Benedetti, Lorenzo Alessio [Role of neurobehavioral toxicology in the study of mechanisms of action and for setting threshold limits for neurotoxic agents: The state of the art] *G Ital Med Lav Ergon* 2004;26(4):75-76

92. Zatta P, **Lucchini R**, van Rensburg SJ, Taylor A. The role of metals in neurodegenerative process: aluminum, manganese and zinc. *Brain Res Bull*, 2003, 62: 15-28
93. Materzanini P, **Lucchini R**, Gelmi M, Zannol F, Crippa M, Alessio L. [Effectiveness of an information program for lead exposed workers according to psychosocial factors] *G Ital Med Lav Ergon*, 2003; 25 (3): 393-394b
94. **Lucchini R**, Facco P, Trombini E, Franceschini R, Taccia R, Alessio L. [The "Stress Index": proposal for a method to assess the risk due to stress and burnout in health care workers] *G Ital Med Lav Ergon*, 2003; 25 (3): 219-221
95. **Lucchini R**, Benedetti L, Borghesi S, Garattini S, Parrinello G, Alessio L. [Exposure to neurotoxic metals and prevalence of parkinsonian syndromes in the province of Brescia, Northern Italy] *G Ital Med Lav Ergon*, 2003; 25 (3): 88-89
96. Carta A, Pasquini L, **Lucchini R**, Semeraro F, Apostoli P. [Study on the relationship between asthenopia and ophtalmic, neuropsychological, ergonomic parametrers in VDU operators] *Med Lav*, 2003; 94 (5): 466-479.
97. **Lucchini R**, Alessio L, Antonimi L, Benedetti L, Bodini G, Corti PR, Fernicola C, Lazzarini C, Santini A [Protocol of health surveillance of workers exposed to repetitive motions of the upper limb] *Med Lav*, 2003; 94 (4): 395-404
98. Carta P, Flore C, Alinovi R, Ibba A, Tocco MG, Aru G, Carta R, Girei E, Mutti A, **Lucchini R**, Sanna Randaccio F. Sub-clinical neurobehavioral abnormalities associated with low levels of mercury exposure through fish consumption. *Neurotoxicology*, 24 (2003) 617-623.
99. **Lucchini R**, Calza S, Camerino D, Carta P, Decarli A, Parrinello G, Soleo L, Zefferino R, Alessio L Application of a latent variable model for a multicenter study on early effects due to mercury exposure. *Neurotoxicol*, 24 (2003) 605-616.
100. Alessio L, Apostoli P, Cortesi I, **Lucchini R**. [Synthesis of the results of studies performed on subjects exposed to low doses of mercury] *Med Lav*, 2002: 93 (3): 259-264
101. Decarli A, Parrinello G, Cortesi I, **Lucchini R**. [Use of regressive methods to analyse the association between different modalities of mercury exposure and some functional variables] *Med Lav*, 2002; 93 (3): 251-258
102. **Lucchini R**, Cortesi I, Facco P, Benedetti L, Camerino D, Carta P, Urbano ML, Zaccheo A, Alessio L. [Neurotoxic effects due to low levels of mercury exposure] (in Italian) *Med Lav*, 2002; 93 (3): 202-214
103. Alessio L, Apostoli P, Cortesi I, **Lucchini R**. [Objectives and aims of the multicenter project "Assessment of effects due to low doses of inorganic mercury following environmental and occupational exposure: human and in vitro studies on specific toxicity mechanisms"] *Med Lav*, 2002; 93 (3): 135-136
104. Porru S, Cortesi I, Facco P, Placidi D, **Lucchini R**, Alessio L [Pilot study on health education in workers exposed to repetitive motion of the upper limb] *G Ital Med Lav Ergon*. 2001; 23:2, 123-128
105. **Lucchini R**, Cortesi I, Fazioli R, Bodini G, Porru S, Alessio L [Health Surveillance and job fitness of workers exposed to repetitive motion of the upper limb] *G Ital Med Lav Ergon*. 2001; 23:2, 116-122
106. **Lucchini R**, Albini E, Benedetti L, Alessio L, Gasparotti R Brain MRI in Manganese exposed workers and hepatopatic patients. *J Alzheimer Dis* 2000; 2 (3-4): 344
107. **Lucchini R**, Albini E, Perrone C, Cortesi I, Placidi D, Bergamaschi E, Traversa F, Alessio L Assessment Of Neurobehavioral Performance As A Function Of Current And Cumulative Lead Exposure. *Neurotoxicol*. 2000; 21 (5): 805-812
108. **Lucchini R**, Albini E, Placidi D, Gasparotti R, Pigozzi MG, Montani G, Alessio L Brain Magnetic Resonance Imaging And Manganese Exposure. *Neurotoxicol* 2000; 21 (5): 769-776
109. **Lucchini R**, Fazioli R, Cortesi I, Alessio L [Prevalence of Carpal Tunnel Syndrome in female workers performing complex tasks with the upper extremities] *Med Lav* 2000; 91, 1: 24-31
110. **Lucchini R**, Albini E, Placidi D, Alessio L Mechanism of neurobehavioral alteration. *Toxicol Letters*, 2000; 112-113: 35-39
111. Apostoli P, **Lucchini R**, Alessio L Are current biomarkers suitable for the assessment of manganese exposure in individual workers ? *Am J Ind Med*, 2000; 37 (3): 283-290
112. **Lucchini R**, Albini E, Placidi D, Alessio L. Mechanism of neurobehavioral alterations *Toxicol Letters*,

- 2000; Mar 15; 112-113: 35-9.
113. **Lucchini R**, Apostoli P, Perrone C, Placidi D, Albini E, Migliorati P, Mergler D, Sassine MP, Palmi S, Alessio L Long Term Exposure To "Low Levels" Of Manganese Oxides And Neurofunctional Changes In Ferroalloy Workers. *Neurotoxicol*, 1999; 20 (2-3): 287-298
  114. Gibbs J, **Lucchini R**. Related recent occupational studies of manganese: session VII summary and research needs. *Neurotoxicol*, 1998, 19 (3): 486-487
  115. **Lucchini R**, Belotti L, Cassitto MG, Faillace A, Margonari M, Micheloni GP, Scapellato ML, Somenzi V, Spada T, Toffoletto F, Gilioli R. Neurobehavioral functions in operating theatre personnel: a multicenter study. *Med Lav* 1997; 88, 5: 396-405
  116. **Lucchini R**, Bergamaschi E, Smargiassi A, Apostoli P. Motor function, olfactory threshold and hematological indices in manganese exposed ferroalloy workers. *Environ Res* 1997; 73: 175-180
  117. Alessio L, Apostoli P, Draicchio F, Forni A, **Lucchini R**, Merler E, Palazzo S, Scarselli R, Sossai D Prevention of risks from occupational exposure to antineoplastic drugs. Consensus Document. *Int J Occup Environ Health*, 1997; (3) 1: 84-87
  118. Apostoli P, **Lucchini R**, Alessio L. Health risks due to chemical substances exposure in biomedical laboratories. *Clin Chim Acta*, 1996; 256: 75-86.
  119. Palazzo G, Bernardo F, Draicchio R, **Lucchini R**, Merlano M, Minguzzi M, Molinaro V, Scanni A, Sossai D, Villa L. [Guidelines for health protection and safety of the workers handling antineoplastic chemotherapeutic drugs] *Med. Lav.*, 1996; 87 (3): 255-264
  120. Merler E, Villa L, **Lucchini R**. [Adverse effects of exposure in production, handling and administration of antineoplastic drugs] *Med Lav*, 1996; 87 (3): 207-221.
  121. Alessio L, Apostoli P, Draicchio F, Forni A, **Lucchini R**, Merler E, Palazzo S, Scarselli R, Sossai D Prevention of risks from occupational exposure to antineoplastic drugs. Consensus Document, *Med Lav*, 1996; 87 (3): 201-206.
  122. **Lucchini R**, Toffoletto F, Placidi D, Alessio L Neurotoxicity in operating room personnel working with gaseous and non-gaseous anesthesia. *Int Arch Occup Environ Health* 1996; 68: 188-192.
  123. Panisset M, **Lucchini R**, Bélanger S, Mergler D Permanent parkinsonism in workers formerly exposed to manganese. *Movem Disord*, 1996, 11 (5): 599-600
  124. Mutti A, Bergamaschi E, Alinovi R, **Lucchini R**, Vettori MV, Franchini I Serum prolactin in subjects occupationally exposed to manganese. *Ann Clin Lab Sci*, 1996; 26 (1): 10-17.
  125. Bergamaschi E, Smargiassi A, Mutti A, Franchini I, **Lucchini R**, Alessio L Immunological changes among workers occupationally exposed to styrene. *Int Arch Occup Environ Health*, 1995; 67: 165-171.
  126. Smargiassi A, Mergler D, Bergamaschi E, Vettori MV, **Lucchini R**, Apostoli P Peripheral markers of catecholamine metabolism among workers occupationally exposed to manganese (Mn). *Toxicol Letters*, 1995; 77: 329-333.
  127. **Lucchini R**, Selis L, Folli D, Apostoli P, Mutti A, Vanoni O, Iregren A, Alessio L Neurobehavioral effects of manganese in workers from a ferroalloy plant after a temporary cessation of exposure. *Scand J Work Environ Health* 1995; 21: 143-149.
  128. **Lucchini R**, Toffoletto F, Camerino D, Fazioli R, Ghittori S, Gilioli R, Signorini A, Alessio L. Neurobehavioral functions in operating room personnel exposed to anesthetic gases. *Med Lav*, 1995; 86 (1): 27-33.
  129. **Lucchini R**, Porru S, Apostoli P, Alessio L [Health education in hospital workers exposed to anesthetic gases and antineoplastic drugs] *Difesa Sociale*, 1994; 4: 99-108.
  130. Alessio L, Cirla A, Forni A, Franco G, Gilioli R, Imbriani M, **Lucchini R**, Terrana T, Toffoletto F. [Proposal for environmental and biological monitoring and for health surveillance of workers exposed to inhalation anaesthetics] *Giorn It Med Lav* 1992: 14: 101-104.
  131. Lopane O, **Lucchini R**, Vinco A, Alessio L. [Collaboration between the occupational health department and the technical assistance department to reduce the exposure to anesthetic gases in operating rooms] *Giorn It Med Lav* 1992: 14: 63-65.
  132. Gilioli R, Belotti L, Camerino D, Cassitto MG, Girelli R, **Lucchini R**, Margonari R, Micheloni G, Villa L. [Neurobehavioral effects from inhalation anaesthetics. A critical review] *Giorn It Med Lav* 1992: 14: 35-41.

133. Signorini A, Toffoletto F, Salvoni AM, Donato F, Porru S, **Lucchini R**, Frova G, Alessio L. [Proposal for an information program for operating room workers] *Giorn It Med Lav* 1992; 14: 97-99.
134. Apostoli P, **Lucchini R**, Maccarrone R, Alessio L. [Biological monitoring of the occupational exposure to aluminum] *Med Lav*; 1992; 83 (5): 475-483.
135. **Lucchini R**, Apostoli P, Peretti A, Bernardini I, Alessio L. [Hearing loss in exposure to impulsive and high frequency noise] *Med Lav*, 1991; 82: 547-553.
136. **Lucchini R**, Toffoletto F, Girelli R, Donato F, Camerino D, Imbriani M, Alessio L, Campana C. Neuropsychometric evaluation in hospital workers exposed to low levels of anesthetic gases. *Neurotoxicol*, 1991, 12: 808-810.

#### **Other Peer Reviewed Publications (Submitted/in preparation)**

1. Renzetti S, Alimonti A, Cagna G, Conversano Michele, Fedrighi C, Forte G, Giorgino A, Guazzetti S, Majorani C, Peli M, Petrucci F, Pino A, Placidi D, Senofonte O, Zoni S, **Lucchini RG**. Use of Weighted Quantile Sum Regression to Assess Neurological Impacts of Mixed Exposure in Children from Taranto, Italy. In preparation
2. Wahlberg K, Taj T, Guazzetti S, Peli M, Cagna G, Pineda D, Placidi D, Wright RO, Smith DR, **Lucchini RG**, Broberg K. Mn transporter genetics and sex modify the association between environmental Mn exposure and neurobehavioral outcomes in children.
3. Butler L, Gennings C, Peli M, Zimmerman N, Hsu HL, Guazzetti S, Coull BA, Smith DR, **Lucchini RG**, Henn BC. Assessing the contributions of metals in environmental media to exposure biomarkers in a region of ferroalloy industry. *Journal of Exposure Science and Environmental Epidemiology*.
4. Bostick BC, Smith DR, Peli M, Conversano M, Donna F, Mailloux B, Sosnowski A, Wright RO, **Lucchini RG**. Distribution and Reactivity of Manganese-Substituted Magnetites in Dusts from Taranto, Italy. *Environmental Science & Technology*. In preparation
5. **Lucchini RG**, Hashim D, Placidi D. Evidence from Epidemiology and Health Surveillance. In: Giordano A. & Franco R. *Malignant Pleural Mesothelioma: A Guide for Clinicians*. Elsevier
6. Reibman J, Craft E, Crane MA, **Lucchini RG**, Miranda ML, Moline J, Prezant DJ. Learning from 9/11: The Health Response to National Disasters.
7. Wahlberg K, Guazzetti S, Pineda D, Zoni S, Fedrighi C, Benedetti C, Smith DR, **Lucchini RG**. Genetic variations in *SLC30A10* and *SLC39A8* are associated with neurodevelopment – possibly via interference of the manganese homeostasis
8. **Lucchini R**, Guazzetti S, Conversano M, Cagna G, Fedrighi C, Giorgino A, Renzetti S, Placidi D, Zoni S, Alimonti M. Neuropsychological Impact Of Environmental Exposure To Heavy Metals And Social Stressors On Schoolchildren Of Taranto, Italy. *Environmental Research*.
9. Hsu HL, Papazaharias DM, Onyebeke LC, Freund A, Zuckerman N, Hashim D, **Lucchini RG**, Chiu, YM. Occupational Exposure to Diesel Exhaust in New York Metropolitan Area's Bus Drivers *Environmental Science & Technology*.
10. Onyebeke LC, Hsu HL, Papazaharias DM, Freund A, Zuckerman N, Hashim D, **Lucchini RG**, Chiu YM. Review of diesel exposure in transportation.
11. Peli M, Donna F, Hsu HL, Guazzetti S, Smith DR, Claus Henn B, Zimmerman N, Placidi D, **Lucchini RG**. Environmental Manganese Exposure Of Adolescents Showing Diverse Degrees Of Neurologic Deficit In The Province Of Brescia, Italy. *Environmental Science & Technology*.
12. De La Hoz, Hashim D, R, Kwa W, Harari H, **Lucchini RG**. "Modern" Silicosis In New York City Tunnel Workers: New Need For Integrated Industrial Hygiene, Clinical And Epidemiological Approach.

#### **Books and Book Chapters**

1. **Lucchini R**, Zoni S. Cognitive Effects of Manganese in Children and Adults. In: Costa L, Aschner M. *Manganese in Health and Disease*, DOI:10.1039/9781782622383-00524; 2015: pp. 524-539
2. **Lucchini RG**, Aschner M, Bellinger DC, Caito SW. Neurotoxicology of Metals (Chapter 15). In: Nordberg, G.F., Fowler, B.A., Nordberg, M. (Eds.), *Handbook on the Toxicology of Metals*. Academic Press, 2015, pp: 299-311, DOI: 10.1016/B978-0-444-62627-1.00011-1, DOI: 10.1016/B978-0-444-59453-2.00015-9

3. Landrigan PJ, **Lucchini R**, Kotelchuck D, Grandjean P. Principles for Prevention of the Toxic Effects of Metals (Chapter 16). In: Nordberg, G.F., Fowler, B.A., Nordberg, M. (Eds.), Handbook on the Toxicology of Metals. Academic Press, 2015, pp: 507-528, DOI: 10.1016/B978-0-444-59453-2.00024-X
4. **Lucchini RG**, Aschner M, Kim Y, Šarić M. Manganese (Chapter 45). In: Nordberg, G.F., Fowler, B.A., Nordberg, M. (Eds.), Handbook on the Toxicology of Metals. Academic Press, 2015, pp: 975-101, DOI: 10.1016/B978-0-444-59453-2.00045-7
5. **Lucchini RG**, Benedetti C. (2014) Other Metals. In: Textbook of Children's Environmental Health Edited by Philip J. Landrigan and Ruth A. Etzel, Oxford University Press, New York, USA, ISBN: 9780199929573, pp. 290-295
6. **Lucchini RG**, Smith DR, Tjalkens RB. Manganese. In: Weiss B (Ed) Aging and Vulnerability to Environmental Chemicals: Age-related Disorders and Their Origins in Environmental Exposures, Royal Society of Chemistry, Cambridge UK, DOI:10.1039/9781849734660-00151. 2013, 151-181
7. Campagna M, **Lucchini R**, Alessio L. 2013 Manganese toxicity. In: Kretsinger RH, Uversky VN, Permyakov EA (eds.) Encyclopedia of Metalloproteins, Springer New York, doi: 10.1007/978-1-4614-1533-6\_265, pp 1303-1308
8. **Lucchini RG**, Chia SE. Neurological Disorders. In: Koh D, Takahashi K. Textbook of Occupational Medicine Practice, World Scientific Publishing Company; 3 edition (May 3, 2011) ISBN-10: 9814329576 pp: 163-196
9. **Lucchini R**, Yangho K (2009). Health effects of manganese. In: Vojtisek M, Prakash R. Metals and Neurotoxicity. JALGAON: Society for science and environment, ISBN/ISSN: 81-85543-09-7, pp: 119-147
10. Šarić M, **Lucchini R**. Manganese. In: Nordberg GF, Fowler BA, Nordberg M and Friberg L Handbook on the Toxicology of Metals. 3<sup>rd</sup> Edition. Elsevier, 2007.
11. Albin E, Bagnara S, Benedetti L, Bergamaschi A, Camerino D, Cassetto MG, Costa G, Ferrario R, Gilioli R, Iavicoli S, Livigni L, **Lucchini R**, Magrin ME, Menni C, Monaco E, Persechino B, Petyx M, Riboldi L, Romano C, Sed B. [Evaluation, prevention and correction of adverse effects due to occupational stress] Italian. In: Apostoli P, Imbriani M, Soleo L, Abbritti G, Ambrosi L (editors) Linee Guida per la formazione continua e l'accreditamento del medico del lavoro. Società Italiana di Medicina del Lavoro e Igiene Industriale. Tipografia PIME Editrice Srl, Pavia, Vol. 21, 2006.
12. **Lucchini R**. Anesthetic gases. In: Hasselhorn H.M., Toomingas A., Lagerström M. (eds.) Occupational Health Care for Health Care Workers – A practical guide. 1999 Elsevier Science, Amsterdam, pp.: 121-124
13. **Lucchini R**, Apostoli P, Fazioli R, Placidi D, Alessio L. A five year follow-up anesthetic gases exposure and early neurobehavioral effects in operating room personnel. In: Manzo L, Desotes J, Hoskins J Eds. Volatile organic compounds in the environment. Risk assessment and neurotoxicity. Advances in occupational medicine & rehabilitation. Pavia, Italy, 1997: 239-245.
14. Alessio L, **Lucchini R**. Manganese. In: Argentesi F., Roi R., Sevilla Marcos JM. (eds.) "Data profiles for selected chemical series" European Commission Joint Research Centre, Luxembourg. SPI 96.59, 1996.
15. **Lucchini R**, Signorini A, Toffoletto F, Alessio L Follow up of anesthetic gases exposure and health effects in a regional hospital of northern Italy. In: Maroni M. (ed.) Ventilation and indoor air quality in hospitals. Kluwer Academic Publisher, Dordrecht, The Netherlands, 1996: 211-218.
16. Apostoli P, **Lucchini R**, Alessio L. Health risks due to chemical substances exposure in biomedical laboratories. In: Maroni M., (ed.) Ventilation and indoor air quality in hospitals. Kluwer Academic Publisher, Dordrecht, The Netherlands, 1996: 231-237.

17. Apostoli P, **Lucchini R**, Frontali C, Alessio L Asthenopia, anxiety and neuropsychological functions in VDT workers. In: Grieco A., Molteni G., Occhipinti E. and Piccoli B. (eds.) "Work with Display Units '94". Elsevier Science, 1995, pp.: 89-93.
18. **Lucchini R**, Porru S, Donato F, Signorini A, Toffoletto F, Alessio L A health education program for personnel exposed to anesthetic gases and nurses handling antineoplastic drugs. In: Hagberg M., Westlander G. (eds.) "Occupational health for health care workers". Ecomed, 1995, pp.: 235-238.
19. **Lucchini R**, Toffoletto F, Ghittori S, Signorini A, Signorini C, Alessio L Neurobehavioral and neuroendocrine evaluation in operating room personnel exposed to low levels of anaesthetic gases. In: Hagberg M., Hofmann F., Stöel U., Westlander G. (eds.) "Occupational health for health care workers". Ecomed, 1995, pp.: 239-243.
20. Alessio L, Crippa M., **Lucchini R**. Inorganic mercury compounds. In: Aresini G., Karcher W., Roi R., Sevilla Marcos JM. (eds.) "Data profiles for selected chemical series", European Commission Joint Research Centre, Luxembourg, Report EUR 16248 EN, 1995: 16-91.
21. Contributory author in: Berillium, Thallium, Gallium. Commission of European Communities "The toxicology of chemicals. Carcinogenicity." Volume IV. EUR 14990EN, Luxembourg, 1993.
22. Alessio L, Crippa M, **Lucchini R**, Roi R. Inorganic Mercury. CEC Criteria document for occupational exposure limit values. Commission of the European Communities Joint Research Center. S.P.I. 93.46. July 1993.
23. Alessio L, **Lucchini R**, Porru S [Maximum allowable concentration of toxic substances in the air of the workplace in the Soviet Union]. Giornale degli Igienisti Industriali, 1991, 16, Supplement to n°1: 129-179.

## **INVITED LECTURES/PRESENTATIONS**

N/A

## **VOLUNTARY PRESENTATIONS**

N/A

## **MEDIA RESOURCE EDUCATIONAL MATERIALS**

N/A