

Curriculum Vitae

Last name, First name: ZACHAROV SERGEJ

Gender: male

Nationality: Czech

Overall Scientific Expertise:

Scientific expertise in occupational and environmental toxicology, chemical risk assessment, toxicology of nanomaterials, long-term health effects of exposure to toxic agents. Main research activities: exposure to solvents, toxic alcohols, methanol neurotoxicity, biomarkers of toxic effects, environmental factors in chronic neurodegenerative processes, nanotoxicology, psychoactive substances, poisons control centres. Expertise in chemical risk assessment: national contact point for RASCHEM network, member of ECHEMNET expert group; personal involvement in ASHT II and ASHT III projects, preparation of CERM sheets (Chemical Emergency Risk Management) for DG SANTE. National Exercise Planner, Controller, and Evaluator in exercises Quicksilver/Quicksilver Plus, risk assessor in exercise Iridium.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation [^]
2011 – till now	Head of the Czech Toxicological Information Centre	General University Hospital, Prague	Clinical, occupational and environmental toxicology; toxikovigilance; pharmacovigilance; chemical emergencies public health crisis preparedness
2011 – till now	Assistant Professor of the Department of Occupational Medicine	1 st Faculty of Medicine, Charles University in Prague	Occupational medicine; occupational and industrial toxicology; nanotoxicology; occupational exposure assessment
2010 – till now	Head of the Centre for special health care for radiation exposed persons	General University Hospital, Prague	Deterministic and stochastic effects of ionizing radiation; diagnostics; treatment of internal contamination; radioantidotes
2007-2011	Physician of the Department of Occupational Medicine	General University Hospital, Prague	Occupational medicine; occupational diseases; diagnostics, treatment, surveillance
2000-2005	Postdoctoral student, assistant professor	Department of Forensic Medicine, Samara State Medical University, Russia	Forensic toxicology, forensic medicine

1998-2000	Physician of Traumatology Department	Samara State Medical University, Russia	Traumatology and orthopedy
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Educational Background

[Starting with the most recent, please provide the details of your post-secondary education and/or professional training (e.g. university or its equivalent, postgraduate, postdoctoral). Please copy and paste more rows if needed.]

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation*
2012	Ph.D.	Charles University in Prague, Czech Republic	Preventive medicine
2010	Certified specialist	Charles University, 1 st Medical Faculty, Czech Republic	Occupational medicine
2003	CSc.	Samara State Medical University, Russia	Forensic medicine and public health
2003	Certified specialist	Samara State Medical University, Russia	Forensic medicine
2000	Certified specialist	Samara State Medical University, Russia	Traumatology and orthopedy
1998	General medicine diploma	Medical Faculty, Samara State Medical University, Russia	General medicine

Memberships in Scientific Advisory Bodies/Committees/Panels (if any):

- International Commission on Occupational Health (ICOH):
- Member of the Scientific Committee on Occupational Medicine (SCOM)
- Member of the Scientific Committee on Occupational Toxicology (SCOT)
- Member of the Scientific Committee on Nanomaterial Workers' Health

Memberships in Learned Societies (if any):

Board Member of the European Association of Poisons Centers and Clinical Toxicologists (EAPCCT)
 Czech Society of Occupational Medicine of the Czech Medical Society of J.E.Purkyně
 Pneumological and Phthisiological Society of the Czech Medical Association of J.E. Purkyně

Memberships in Editorial Boards (if any):

Reviewer in international journals with impact factor: Clinical Toxicology; Medical Principles and Practice, American Journal of Drug and Alcohol Abuse

List of Publications:

Author of more than 50 publications, including 32 publications with impact factor in the last 5 years (first author in 20), total impact factor for the last 5 years – 75.0, H-index 7; co-author of the textbook Occupational Diseases and Intoxications (Karolinum Praha, 2014) and e-learning course in toxicology.

1. Zakharov S, Pelclova D, Navratil T, et al. Intermittent hemodialysis is superior to continuous veno-venous hemodialysis/hemodiafiltration to eliminate methanol and formate during treatment for methanol poisoning/ Kidney International 2014; 86(1); 199-207; (IF 2014: 8.52).

2. Zakharov S, Pelclova D, Urban P, et al. Use of out-of-hospital ethanol administration to improve outcome in mass methanol outbreaks. *Annals of Emergency Medicine*, 2016, doi 10.1016/j.annemergmed.2016.01.010 **IF (2015): 4,676.**
3. Pelclova D, Zakharov S, Barosova H, et al. Raman microspectroscopy of exhaled breath condensate and urine in workers exposed to fine and nano TiO₂ particles: a cross-sectional study. *Journal of Breath Research*, 2015, 9, 036008. **IF (2015): 4.631**
4. Pelclova D, Zakharov S, Zdimal V, et al. Oxidative stress markers are elevated in exhaled breath condensate of workers exposed to nanoparticles during iron oxide pigment production. *Journal of Breath Research*, 2016, Feb 1; 10(1): 016004. **IF (2015): 4.631**
5. Pelclova D, Zakharov S, Zdimal V, et al. Markers of oxidative damage of nucleic acids and proteins among workers exposed to TiO₂ (nano) particles. *Occupational and Environmental medicine*, 2016; 73(2): 110-118. **IF (2015) 3.267**
6. Zakharov S, Pelclova D, Urban P, et al. Czech mass methanol outbreak 2012: Epidemiology, challenges and clinical features. *Clinical Toxicology*, 2014, 52(10), 1013-24. ISSN 1556-3650. **IF (2014/15): 3,673.**
7. Zakharov S, Pelclova D, Navratil T, et al. Fomepizole versus ethanol in the treatment of acute methanol poisoning: comparison of clinical effectiveness in a mass poisoning outbreak. *Clinical Toxicology*, 2015,53(8),797-806.**IF (2015): 3,673.**
8. Zakharov S, Pelclova D, Urban P, et al. Long-term visual damage after acute methanol poisonings: longitudinal cross-sectional study in 50 patients. *Clinical Toxicology*, 2015, 53(9), 884-92. **IF (2014/15): 3,673.**