

CURRICULUM VITAE

INFORMAȚII PERSONALE

Nume și prenume
Adresă
Telefon / Fax
E-mail
Naționalitate
Locul și data nașterii

Dîrțu Alin Constantin

Universitatea "Al. I. Cuza", Departamentul de Chimie, Bd. Carol I, nr. 11, 700506, Iași, România
T: 0040 232 201308ș F: 0040 232 201313
alin.dirtu@chem.uaic.ro
Română
Vaslui, 28 Septembrie 1977

EXPERIENȚA PROFESIONALĂ

ACTIVITATE DE EVALUARE ȘI EXPERTIZĂ

Chimia analitică a poluanților organici persistenti (POPs); identificarea și cuantificarea contaminanților organohalogenati și a metaboliților acestora din diferite compartimente de mediu.

Dezvoltarea și optimizarea metodelor de analiză a POPs și a metaboliților acestora prin utilizarea unor multiple tehnici de extracție și diminuare a efectelor de matrice și aplicarea unor tehnici instrumentale de separare și analiză (cromatografie de gaze/lichide cu detecție prin spectrometrie de masă).

Comportamentul în mediu a unor multipli contaminanți organohalogenati: evaluarea căilor de expunere umană precum și a metabolismului acestora; evaluarea factorilor ce influențează metabolismul POPs în diferite compartimente de mediu.

DOMENII DE COMPETENȚĂ

Chimie. Toxicologie.

ACTIVITATEA ȘTIINȚIFICĂ

CĂRȚI / ARTICOLE PUBLICATE:

- **Cărți/capitole de carte: 7**
- **articole științifice** publicate în reviste de specialitate: **44**, din care: **40** cu **ISI** in reviste din **străinătate**, **4** in reviste non ISI din țara.
- **participări** la manifestări științifice **60**, din care în străinătate **45**.

Citări lucrări indexate/recenzate în baze de date internaționale: **450**; în SCOPUS, CAPLUS and MEDLINE, de Institute for Scientific Information (ISI), Chemical Abstracts, Current Contents etc. **Indice Hirsh = 13**.

COORDONATOR ȘTIINȚIFIC: lucrări de licență (**2**), lucrări de disertație (**2**).

REFERENT ȘTIINȚIFIC: pentru **6** jurnale cotate ISI din străinătate.

EXPERIENȚĂ DE LUCRU ÎN CERCETARE ȘI INSTRUIRE

DIRECTOR / RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE: cu finanțare externă: **1**.

COLABORATOR ÎN GRANTURI DE CERCETARE: cu finanțare internă: **1**; cu finanțare externă: **3**.

2011: lector universitar, prin concurs, la Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie;

2005 – 2011: asistent universitar, prin concurs, la Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie.

SPECIALIZĂRI
POSTUNIVERSITARE

2010 – 2013 (36 luni) bursă de cercetare **postdoctorat** la Universitatea Antwerp, Belgia.
2007 (12 luni) bursa de cercetare **doctorat** la Universitatea Antwerp, Belgia.

EDUCAȚIE

2009: Doctorat în Chimie, Specialitatea Chimie.

2000 (iunie): examen de licența, Licențiat în Chimie la Facultatea de Chimie, Universitatea "Al. I. Cuza" Iași, România.

1996 (iunie): examen de bacalaureat; Liceul teoretic "Emil Racoviță" Vaslui, profilul chimie-biologie.

1984-1992: Școala primară și gimnazială, Vaslui.

MEMBRU ÎN SOCIETĂȚI
ȘTIINȚIFICE

Membru al International HCH and Pesticides Association, Danemarca.

CUNOȘTINȚE UTILIZARE
COMPUTERE

Operare bună PC: Microsoft Office Word; Microsoft Office Power Point; Microsoft Office Excel; Origin, Internet (Mozilla), Chem draw, Isis draw), operare specială aparate (Spectra manager, Mass Hunter, Data Analysis Agilent).

LIMBI STRĂINE
CUNOSCUTE

Engleză (citit, scris, vorbit).

Iași
16.12.2013

Research Articles
(in chronological
order)

1. **Dirtu AC**, Dirinck E, Malarvannan G, Neels H, Van Gaal L, Jorens PG, Covaci A. Dynamics of organohalogenated contaminants in human serum from obese individuals during one year of weight loss treatment. *Environmental Science & Technology*, 47 (21), 12441-12449, 2013.
2. **Dirtu AC**, Geens T, Dirinck E, Malarvannan G, Neels H, Van Gaal L, Jorens PG, Covaci A. Phthalate metabolites in obese individuals undergoing weight loss: Urinary levels and estimation of the phthalates daily intake. *Environment International* 59, 344-353, 2013.
3. Coakley JD, Harrad SJ, Goosey E, Ali N, **Dirtu AC**, Van den Eede N, Covaci A, Douwes J, 't Mannetje A. Concentrations of polybrominated diphenyl ethers in matched samples of indoor dust and breast milk in New Zealand. *Environment International* 59, 255-261, 2013.
4. **Dirtu AC**, Niessen SJM, Jorens PG, Covaci A. Organohalogenated contaminants in domestic cats' plasma in relation to spontaneous acromegaly and type 2 diabetes mellitus: A clue for endocrine disruption in humans? *Environment International* 57-58, 60-67, 2013.
5. Malarvannan G, Dirinck E, **Dirtu AC**, Pereira-Fernandes A, Neels H, Jorens PG, Van Gaal L, Blust R, Covaci A. Distribution of persistent organic pollutants in two different fat compartments from obese individuals. *Environment International*, 55, 33-42, 2013.
6. Ali N, Ali L, Mehdi T, **Dirtu AC**, Al-Shammari F, Neels H, Covaci A. Levels and profiles of organochlorines and flame retardants in car and house dust from Kuwait and Pakistan: Implication for human exposure via dust ingestion. *Environment International* 55, 62-70, 2013.
7. **Dirtu AC**, Abdallah MAE, Covaci A. Advances in the sample preparation of brominated flame retardants and other brominated compounds. *Trends in Analytical Chemistry*, 43, 189-203, 2013.
8. Bucatariu F, Dragan ES, Fundueanu G, Covaci A, **Dirtu AC**. Interaction of some persistent organic pollutants with oligopeptide chains formed onto silica microparticles. *Research Journal of Chemistry and Environment*, 17 (1), 68-75, 2013.
9. Dodson RE, Perovich LJ, Covaci A, Van den Eede N, Ionas AC, **Dirtu AC**, Brody JG, Rudel RA. After the PBDE Phase-Out: A Broad Suite of Flame Retardants in Repeat House Dust Samples from California. *Environmental Science and Technology*, 46:24 13056-13066, 2012.
10. Kiciński M, Viaene MK, Den Hond E, Schoeters G, Covaci A, **Dirtu AC**, Nelen V, Bruckers L, Croes K, Sioen I, Baeyens W, Van Larebeke N, Nawrot TS. Neurobehavioral function and low-level exposure to brominated flame retardants in adolescents: a cross-sectional study. *Environmental Health*, 11:86, 1-12, 2012.
11. **Dirtu AC**, Van den Eede N, Malarvannan G, Ionas AC, Covaci A. Analytical methods for selected emerging contaminants in human matrices-a review. *Analytical and Bioanalytical Chemistry*, 404, 9, 2555-2581, 2012.
12. **Dirtu AC**, Ali N, Van den Eede N, Neels H, Covaci A. Country specific comparison for profile of chlorinated, brominated and phosphate organic contaminants in indoor dust. Case study for Eastern Romania, 2010. *Environment International*, 49, 1-8, 2012.
13. Croes K, Colles A, Koppen G, Govarts E, Bruckers L, Van de Mierop E, Nelen V, Covaci A, **Dirtu AC**, Thomsen C, Haug LS, Becher G, Mampaey M, Schoeters G, Van Larebeke N, Baeyens W. Persistent organic pollutants (POPs) in human milk: A biomonitoring study in rural areas of Flanders (Belgium). *Chemosphere*, 89 (8), 988-994, 2012.
14. Ali N, **Dirtu AC**, Van den Eede N, Goosey E, Harrad S, Neels H, 't Mannetje A, Coakley J, Douwes J, Covaci A. Occurrence of alternative flame retardants in indoor dust from New Zealand: Indoor sources and human exposure assessment. *Chemosphere*, 88 (11), 1276-1282, 2012.
15. Ali N, Van den Eede N, **Dirtu AC**, Neels H, Covaci A. Assessment of human exposure to indoor organic contaminants via dust ingestion in Pakistan. *Indoor Air*, 22 (3), 200-211, 2012.
16. Petro EML, Leroy JLMR, Covaci A, Fransen E, De Neubourg D, **Dirtu AC**, De Pauw I, Bols PEJ. Endocrine-disrupting chemicals in human follicular fluid impair in vitro oocyte developmental

- competence. *Human Reproduction*, 27 (4), 1025-1033, 2012.
17. Van den Eede N, **Dirtu AC**, Ali N, Neels H, Covaci A. Multi-residue method for the determination of brominated and organophosphate flame retardants in indoor dust. *Talanta*, 89, 292-300, 2012.
 18. Schnitzler JG, Celis N, Klaren PHM, Blust R, **Dirtu AC**, Covaci A, Das K. Thyroid dysfunction in sea bass (*Dicentrarchus labrax*). Part 2: Underlying mechanisms and effects of polychlorinated biphenyls on thyroid hormone physiology and metabolism. *Aquatic Toxicology*, 105 (3-4), 438-447, 2011.
 19. Van den Steen E, Poisbleau M, Demongin L, Covaci A, **Dirtu AC**, Pinxten R, van Noordwijk HJ, Quillfeldt P, Eens M. Organohalogenated contaminants in eggs of rockhopper penguins (*Eudyptes chrysocome*) and imperial shags (*Phalacrocorax atriceps*) from the Falkland Islands. *Science of the Total Environment*, 409 (14), 2838-2844, 2011.
 20. Van den Eede N, **Dirtu AC**, Neels H, Covaci A. Analytical developments and preliminary assessment of human exposure to organophosphate flame retardants from indoor dust. *Environment International*, 37 (2), 454-461, 2011.
 21. **Dirtu AC**, Covaci A. Estimation of daily intake of organohalogenated contaminants from food consumption and indoor dust ingestion in Romania. *Environmental Science & Technology*, 44 (16), 6297-6304, 2010.
 22. Petro EML, Covaci A, Leroy JLMR, **Dirtu AC**, De Coen W, Bols PEJ. Occurrence of endocrine disrupting compounds in tissues and body fluids of Belgian dairy cows and its implications for the use of the cow as a model to study endocrine disruption. *Science of the Total Environment*, 408 (22), 5423-5428, 2010.
 23. Van Meel K, Horemans B, Krata A, Bencs L, Buczynska A, **Dirtu AC**, Worobiec A, Van Grieken R. Elemental concentrations in aerosols at the Belgian coast, as a function of size, season and air mass trajectories. *Environmental Chemistry Letters*, 8 (2), 157-163, 2010.
 24. **Dirtu AC**, Jaspers VLB, Cernat R, Neels H, Covaci A. Distribution of PCBs and their HO-PCB metabolites in human serum from two European countries. *Environmental Science & Technology*, 44 (8), 2876-2883, 2010.
 25. Dorneles PR, Lailson-Brito J, **Dirtu AC**, Weijs L, Azevedo AF, Torres JPM, Malm O, Neels H, Blust R, Das K, Covaci A. Anthropogenic and naturally-produced organobrominated compounds in marine mammals from Brazil. *Environment International*, 36 (1), 60-67, 2010.
 26. **Dirtu AC**, Analytical aspects for determination of polybrominated diphenyl ethers in environmental samples – a review, *Acta Chemica Iasi*, 17, 107-119, 2009.
 27. Bencs L, Krata A, Horemans B, Buczyńska AJ, **Dirtu AC**, Godoi AFL, Godoi RHM, Potgieter-Vermaak S, Van Grieken R. Atmospheric nitrogen fluxes at the Belgian coast: 2004-2006, *Atmospheric Environment*, 43 (24), 3786-3798, 2009.
 28. Covaci A, Roosens L, **Dirtu AC**, Waegeneers N, Van Overmeire I, Neels H, Goeyens L. Brominated flame retardants in Belgian home-produced eggs: Levels and contamination sources. *Science of the Total Environment* 407 (15), 4387-4396, 2009.
 29. Weijs L, **Dirtu AC**, Das K, Gheorghe A, Reijnders PJH, Neels H, Blust R, Covaci A. Inter-species differences for polybrominated diphenyl ethers in marine top-predators from the Southern North Sea: Part II. Biomagnification in harbour seals and harbour porpoises. *Environmental Pollution* 157 (2), 445-451, 2009.
 30. Weijs L, **Dirtu AC**, Das K, Gheorghe A, Reijnders PJH, Neels H, Blust R, Covaci A. Inter-species differences for polybrominated diphenyl ethers in marine top-predators from the Southern North Sea: Part I. Accumulation patterns in harbour seals and harbour porpoises. *Environmental Pollution* 157 (2), 437-444, 2009.
 31. Horemans B, Krata A, Buczynska A, **Dirtu AC**, Van Meel K, Van Grieken R, Bencs L. Major ionic species in size-segregated aerosols and associated gaseous pollutants at a coastal site on the Belgian North Sea, *Journal of Environmental Monitoring*, 11, 670-677, 2009.
 32. Van den Sten E, Eens M, Covaci A, **Dirtu AC**, Jaspers VLB, Neels H, Pinxten R. An exposure study with polybrominated diphenyl ethers (PBDEs) in female European starlings (*Sturnus vulgaris*): toxicokinetics and reproductive effects, *Environmental Pollution*, 157 (2), 430-436, 2009.
 33. **Dirtu AC**, Covaci A. Estimation of Daily Intake of Selected Brominated Flame Retardants (BFRs)

through Food Consumption and Indoor Dust Ingestion in Romania. *Annals of "Al.I. Cuza" University, Iasi, Chemistry Section*, XVI, 17-30, 2008.

34. Roosens L, **Dirtu AC**, Goemans G, Belpaire C, Gheorghe A, Neels H, Blust R, Covaci A, Brominated flame retardants and polychlorinated biphenyls in fish from the river Scheldt, Belgium, *Environment International*, 34 (7), 976-983, 2008.
35. Jaspers VLB, **Dirtu AC**, Eens M, Neels H, Covaci A, Predatory bird species show different patterns of hydroxylated polychlorinated biphenyls (HO-PCBs) and polychlorinated biphenyls (PCBs), *Environmental Science & Technology*, 42 (9), 3465-3471, 2008.
36. Covaci A, Hura C, Gheorghe A, Neels H, **Dirtu AC**, Organochlorine contaminants in hair of adolescents from Iassy, Romania, *Chemosphere*, 72 (1), 16-20, 2008.
37. **Dirtu AC**, Roosens L, Geens T, Gheorghe A, Neels H, Covaci A, Simultaneous determination of bisphenol A, triclosan and tetrabromobisphenol A in human serum using solid-phase extraction and gas chromatography-electron capture negative ionization-mass spectrometry, *Analytical and Bioanalytical Chemistry*, 391 (4), 1175-1181, 2008.
38. Ravindra K, **Dirtu AC**, Covaci A, Low pressure – gas chromatography: Recent trends and developments, *Trends in Analytical Chemistry*, 27 (4), 291-303, 2008.
39. Harrad S, Ibarra C, Diamond M, Melymuk L, Robson M, Douwes J, Roosens L, **Dirtu AC**, Covaci A, Polybrominated diphenyl ethers in domestic indoor dust from Canada, New Zealand, United Kingdom, and United States, *Environment International*, 34 (2), 232-238, 2008.
40. **Dirtu AC**, Ravindra K, Roosens L, Van Grieken R, Neels H, Blust R, Covaci A, Fast analysis of decabrominated diphenyl ether (BDE 209) using low-pressure gas chromatography-electron capture negative ionization-mass spectrometry, *Journal of Chromatography A*, 1186 (1-2), 295-301, 2008.
41. Dragan D, Cucu-Man S, **Dirtu AC**, Mocanu R, Van Vaeck L, Covaci A, Occurrence of organochlorine pesticides and polychlorinated biphenyls in soils and sediments from Eastern Romania, *International Journal of Environmental Analytical Chemistry*, 86 (11), 833-842, 2006.
42. **Dirtu AC**, Cernat R, Dragan D, Mocanu R, Van Grieken R, Neels H, Covaci A, Organohalogenated pollutants in human serum from Iassy, Romania and their relation with age and gender, *Environment International*, 32(6), 797-803, 2006.
43. Drochioiu G, Mangalagiu I, Avram E, Popa K, **Dirtu AC**, Druta I, Cyanide Reaction with Ninhydrin: Elucidation of Reaction and Interference Mechanisms, *Analytical Sciences*, 20, 1443-1447, 2004.
44. Onofrei T, **Dirtu AC**, Luca C, Neagu V, Retention of Orange G Dye on a strong base pyridine exchanger, *Annals of "Al.I. Cuza" University, Iasi, Chemistry Section*, IX, 47-52, 2003.

Books

Book chapters

1. **Dirtu AC**, Ionas AC, Malarvannan G, Covaci A. Chapter: Transformation Products of Brominated Flame Retardants (BFRs). Book: Transformation Products of Emerging Contaminants in the Environment: Analysis, Processes, Occurrence, Effects and Risks, *John Wiley & Sons, Inc – in press*.
2. **Dirtu AC**, Humelnicu D and Covaci A, Environmental Impact of Organochlorine Pesticides in Romania, *Romanian Academy Ed.*, 2012 – *in press*.
3. Humelnicu D and **Dirtu AC**, Environment and Health, *Romanian Academy Ed.*, 2012 – *in press*.
4. Covaci A, Geens T, Roosens L, Ali N, Van den Eede N, Ionas AC, Malarvannan G, **Dirtu AC**. Chapter: Human exposure and health risks to emerging organic contaminants. Book: The Handbook of Environmental Chemistry, 20 - Emerging organic contaminants and human health. ISBN: 978-3-642-28131-0, Springer-Verlag Berlin Heidelberg, pp 243-306, 2012.
5. **Dirtu AC**. Monitorizarea poluantilor organohalogenati persistenti prezenti in mediu si fluide umane. ISBN: 978-606-575-112-5, Stef Ed. Iasi, Romania, 336pp, 2011.
6. Covaci A, **Dirtu AC**, Voorspoels S, Roosens L, Lepom P. Chapter: Sample preparation and chromatographic methods applied to congener-specific analysis of polybrominated diphenyl ethers. Book: The Handbook of Environmental Chemistry – Brominated Flame Retardants (BFRs), ISBN: 978-3-642-19268-5, Springer-Verlag Berlin, Heidelberg, pp 55-94, 2011.
7. Covaci A, **Dirtu AC**. Chapter: Anthropogenic and naturally-produced contaminants in fish oil: Role in ill-health, Book: Modern Dietary Fat Intake: Promotion of Disease, ISBN: 978-1-60327-570-5, Humana Press, Springer Science + Business Media LLC, New York, pp 321-344, 2010.

8. Covaci A and **Dirtu AC**. Brominated Flame Retardants: Analytical, Toxicological and Environmental Aspects, NATO Science for Peace and Security. Series A: Chemistry and Biology, Applications of Mass Spectrometry in Life Safety, ISBN 978-1-4020-8810-0; ISSN 1874-6489, *Springer-Verlag Netherlands*, pp. 153-184, 2008.

Oral Presentations

1. **Dirtu AC**, Dirinck E, Malarvannan G, Neels H, Van Gaal L, Jorens P, Covaci A. Organohalogenated contaminants and their metabolites in human serum from an obese population during one year of treatment. Do endocrine disruptors play a role in the occurrence of obesity? *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns, Australia, 2012 – **presenting author**.
2. **Dirtu AC**, Niessen SJM, Jorens PG, Covaci A. PCBs, their hydroxylated metabolites and other organic contaminants in cats' plasma in relation to spontaneous acromegaly and type 2 diabetes mellitus: a clue for endocrine disruption in humans? *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns, Australia, 2012 – **presenting author**.
3. Ionas AC, Anthonissen T, **Dirtu AC**, Covaci A. Analysis of harmful organic chemicals in children's toys. *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns, Australia, 2012 – **contributing author**.
4. **Dirtu AC**, Dirinck E, Neels H, Van Gaal L, Jorens PG, Covaci A. Organohalogenated contaminants and their metabolites in human serum from obese patients. *SETAC North America, 32nd Annual Meeting*, November, Boston, USA, 2011 – **presenting author**.
5. N. Ali, N. Van den Eede, **A.C. Dirtu**, H. Neels, A. Covaci. First assessment of human exposure to indoor organic contaminants in Pakistan. *SETAC North America, 32nd Annual Meeting*, November, Boston, USA, 2011 – **contributing author**.
6. **Dirtu AC**, Van Den Eede N, Ali N, Neels H, Covaci A. Profile for Chlorinated and Brominated Organic Contaminants in Indoor Dust. Case Study for Iasi, Eastern Romania. *31st International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2011*, Brussels, Belgium, 2011 – **presenting author**.
7. Schnitzler JG, Klaren PHM, Celis N, Blust R, Covaci A, **Dirtu AC**, Silvestre F, Das K (2011), Strategy for Assessing Impacts of Thyroid Disrupting Chemicals in Teleosteans. *31st International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2011*, Brussels, Belgium, 2011 – **contributing author**.
8. Dorneles PR, Lailson-Brito J, Secchi ER, **Dirtu AC**, Weijs L, Dalla Rosa L, Bassoi M, Cunha HA, Azevedo AF, Covaci A (2011), Anthropogenic and Naturally-Produced Organobrominated Compounds in Antarctic Humpback Whales, *Megaptera Novaeangliae*. *31st International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2011*, Brussels, Belgium, 2011 – **contributing author**.
9. Covaci A, Van Den Eede N, Nadeem A, **Dirtu AC**, Roosens L, Neels H. Preliminary human exposure assessment to alternative flame retardants from indoor dust in Belgium. *30th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2010*, San Antonio, USA, 2010 – **contributing author**.
10. **Dirtu AC**, Dirtu D, Covaci A, Organochlorine pesticides in home-produced food items vs. supermarket products from Iasi, Romania. A concept of healthy alimentation. – *Zilele Universitatii "Al.I. Cuza"*, Iasi, Romania, 2009 – **presenting author**.
11. Drochioiu G, Popa K, **Dirtu AC**, Mangalagiu I, Murariu M, Monitoring of cyanides in the presence of heavy metals. *11th International Mineral Processing Symposium*, 21-23 October 2008, Belek-Antalya, Turkey, pp. 899-904 – **contributing author**.
12. **Dirtu AC**, Dirtu D and Covaci A, Human Exposure to Persistent Organic Pollutants (POPs). Case Study for Population from Iasi, Romania. *Zilele Universitatii "Al.I. Cuza" Iasi*, 22-23 October 2008, Iasi, Romania, pp 4 – **presenting author**.
13. **Dirtu AC** and Covaci A, Evaluation of Human Exposure to Persistent Organic Pollutants (POPs). Case Study for Population from Iasi, Romania. *3rd International Symposium on Environmental Geography*, 17-19 October 2008, Iasi, Romania, pp 13 – **presenting author**.
14. **Dirtu AC** and Covaci A, Analysis of Polybrominated Diphenyl Ethers (PBDEs) in Indoor Dust using Low-Pressure Gas Chromatography-Electron Capture Negative Ionization-Mass Spectrometry, *XXX-th*

Romanian Chemistry Conference, Section V – Environmental Protection and Analytical Chemistry, pp. 8, Romania, 2008 – presenting author.

15. **Dirtu AC** and Covaci A, Daily Intake of OCPs, PCBs and PBDEs from Food Consumption and indoor Dust Ingestion in Romania, *28th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2008*, Birmingham, United Kingdom, 2008 – **presenting author**.
16. **Dirtu AC**, Jaspers VLB, Cernat R, Neels H, Covaci A, Phenolic Organohalogenated Contaminants in Human Serum from Belgium and Romania, *28th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2008*, Birmingham, United Kingdom, 2008 – **presenting author**.
17. Dorneles P, Lailson-Brito J, Covaci A, **Dirtu AC**, Weijs L, Azevedo A, Torres J, Malm O, Neels H, Blust R, Das K, Concentrations of Organobrominated Compounds of Natural and Industrial Origin in Top Predators from Brazilian Waters, *28th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2008*, Birmingham, United Kingdom, 2008 – **contributing author**.
18. Mocanu R, Dragan D, **Dirtu AC**, Evaluation of Persistent Organic Pollutants (POPs) in Various Matrices, Bacau, Romania, 2008 – **contributing author**.
19. Horemans B, Bencs L, Krata A, Buczynska A, **Dirtu AC**, Van Meel K, Van Grieken R, Major ionic species of size segregated aerosols and associated gaseous pollutants at a coastal site of the Belgian North Sea, *Colloquium Spectroscopicum Internationale XXXV*, Xiamen, China, 2007 – **contributing author**.
20. Weijs L, Gheorghe A, **Dirtu AC**, Das K, Reijnders P, Neels H, Blust R, Covaci A, Levels and profiles of PCBs and PBDEs in Harbour Seal and Harbour Porpoise from the Southern North Sea, *27th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2007*, Tokyo, Japan, 2007 – **contributing author**.
21. Goemans G, Roosens L, **Dirtu AC**, Belpaire C, Neels H, Covaci A, Brominated flame retardants along Scheldt River, Belgium, *27th International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2007*, Tokyo, Japan, 2007 – **contributing author**.
22. **Dirtu AC**, Mocanu R, Covaci A, Persistent organic pollutants (POPs) in human serum from Iasi, Romania. Is there still exposure? – *2nd International Conference on Environmental Research and Assessment (ICERA)*, Bucharest, Romania, 2006 – **presenting author**.
23. **Dirtu AC**, Mocanu R, Cernat R, Hanganu E, Dragan D, Covaci A, Persistent organic pollutants in human serum blood (Iasi County – Romania). How exposed are we to POPs? – *Zilele Universitatii "Al.I. Cuza"*, Iasi, Romania, 2005 – **presenting author**.

Poster Presentations

PA – presenting author

CA – contributing author

1. **Dirtu AC**, Dirinck E, Neels H, Van Gaal L, Jorens PG, A. Covaci A. Organohalogenated contaminants and their metabolites in human serum from an obese population during one year of treatment. Abstract Book of PPTOX III, Environmental Stressors in the Developmental Origins of Disease: Evidence and Mechanisms, May, 2012, Paris, France. – **PA**
2. Dirinck E, Jorens PG, Covaci A, **Dirtu AC**, Malarvannan G, Van Gaal L, PCB serum levels associate with abdominal fat distribution in a gender-specific way. Abstract Book of PPTOX III, Environmental Stressors in the Developmental Origins of Disease: Evidence and Mechanisms, May, 2012, Paris, France. – **CA**
3. Louis C, Habran S, Stas M, Tift MS, Das K, **Dirtu AC**, Crocker DE, Covaci A, Debier C. Blubber mobilization of PBDEs in Northern elephant seals (*Mirounga angustirostris*) during the post-weaning fasting duration - Comparison with PCBs. *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns, Australia, 2012. – **CA**
4. Coakley J, Harrad S, Douwes J, 't Mannetje A, Ali N, **Dirtu AC**, Van den Eede, Covaci A. Levels of polybrominated diphenyl ethers flame retardants in matched samples of household dust and breast milk from New Zealand. *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns, Australia, 2012. – **CA**
5. Covaci A, Ionas AC, van den Eede N, **Dirtu AC**, Dodson RE, Perovich LJ, Rudel RA. Characterization of flame retardants in home indoor dust from California, USA. *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns, Australia, 2012. – **CA**
6. Malarvannan G, **Dirtu AC**, Dirinck E, Neels H, Jorens P, Van Gaal L, Covaci A. Organohalogen compounds in human visceral and subcutaneous abdominal fat samples from Belgium. *32nd International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2012*, Cairns,

Australia, 2012. – **CA**

7. T. Geens, **AC Dirtu**, E. Dirinck, H. Neels, L. Van Gaal, P.G. Jorens, A. Covaci. Urinary bisphenol-A and triclosan levels in a Belgian obese population during a 12-month follow-up study. *SETAC North America, 32nd Annual Meeting*, November, Boston, USA, 2011. – **CA**
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1. *In vitro PBDEs metabolism by pet-animals liver microsomes – evaluation of their potential on assessing human exposure to indoor contaminants.* Research Grant BOF-UA (University of Antwerp, Belgium), 2013 (**promoter**).
 2. *Human exposure to new chemicals from indoor environments.* Research Foundation Flanders – FWO, FA010200 – 5261, 2011-2014 (**promoter**).
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