AUREA C. CHIAIA-HERNÁNDEZ R.

Research Output List OrcID: 0000-0001-7148-7336

PEER-REVIEWED PUBLICATIONS:

Unravelling contaminants in the Anthropocene using statistical analysis of LC-HRMS nontarget screening data as recorded in lake sediments

<u>Aurea C. Chiaia-Hernández</u>, Barbara F. Günthardt, Martin P. Frey, and Juliane Hollender Environ. Sci. Technol., 2017, 51 (21), 12547-12556. http://dx.doi.org/10.1021/acs.est.7b03357

Long-term Persistence of Pesticides and TPs in Archived Agricultural Soil Samples and Comparison with Pesticide Application

<u>Aurea C Chiaia-Hernández</u>, Armin Keller, Martin Krauss, Daniel Wächter, Christine Steinlin, Louise Camenzuli1, and Juliane Hollender

Environ. Sci. Technol., 2017, 51 (18), pp 10642-10651. http://dx.doi.org/10.1021/acs.est.7b02529

A Mixture of Environmental Organic Contaminants in Lake Sediments affect Hatching of Daphnia Resting Eggs

Markus Moest, <u>Aurea C. Chiaia-Hernández</u>, Martin P. Frey, Juliane Hollender and Piet Spaak Environ. Toxicol. Chem. 2015, 34 (2), pp 338-345. http://dx.doi.org/10.1002/etc.2808

Suspect and nontarget screening approaches to identify organic contaminant records in lake sediments

<u>Aurea C. Chiaia-Hernández</u>, Emma L. Schymanski, Praveen Kumar, Heinz P. Singer and Juliane Hollender. Anal. Bioanal. Chem. 2014, 406 (28), pp 7323-7335. http://dx.doi.org/10.1007/s00216-014-8166-0

Bioaccumulation of Organic Contaminants from Sediments in *Daphnia* Resting Eggs <u>Aurea C. Chiaia-Hernández</u>, Roman Ashauer, Markus Moest, Tobias Hollingshaus, Piet Spaak and Juliane Hollender

Environ. Sci. Technol., 2013, 47 (18), pp 10667–10675. http://dx.doi.org/10.1021/es401763d

Screening of Lake Sediments for Emerging Contaminants by Liquid Chromatography Atmospheric Pressure Photoionization and Electrospray Ionization Couple to High Resolution Mass Spectrometry

Aurea C. Chiaia-Hernández, Martin Krauss and Juliane Hollender

Environ. Sci. Technol., 2012, 47(2), pp 976-986. http://dx.doi.org/10.1021/es303888v

Interpreting Methamphetamine Levels in a High-Use Community

<u>Aurea C. Chiaia-Hernández</u>, Caleb Banta-Green and Jennifer A. Field Environ. Sci. and Pollut. R., 2011, 18 (9), pp 1471-1477. https://doi.org/10.1007/s11356-011-0495-3

The spatial epidemiology of cocaine, methamphetamine and 3,4methylenedioxymethamphetamine (MDMA) use: a demonstration using a population measure of community drug load derived from municipal wastewater Caleb J. Banta-Green, Jennifer A. Field, <u>Aurea C. Chiaia</u>, Daniel L. Sudakin, Laura Power, Luc de Montigny Addiction, 2009, 104 (11), pp 1874-1880. http://dx.doi.org/10.1111/j.1360-0443.2009.02678.x

Eliminating Solid Phase Extraction with Large-Volume Injection LC/MS/MS: Analysis of Illicit and Legal Drugs and Human Urine Indicators in US Wastewaters <u>Aurea C. Chiaia</u>, Caleb Banta Green and Jennifer A. Field Environ. Sci. Technol., 2008, 42 (23), pp 8841–8848. http://dx.doi.org/10.1021/es802309v

Occurrence and Mass Flows of Fluorochemicals in the Glatt Valley Watershed, Switzerland Carin A Huset, <u>Aurea C. Chiaia</u>, Douglas F Barofsky, Niels Jonkers, Hans-Peter E. Kohler, Christoph Ort, Walter Giger, and Jennifer A Field Environ. Sci. Technol., 2008, 42 (17), pp 6369–6377. http://dx.doi.org/10.1021/es703062f

PEER-REVIEWED CONFERENCE PROCEEDINGS

Tracing of micropollutants sources in urban receiving waters based on sediment fingerprinting. Anna E., Sikorska, Andreas Scheidegger, <u>Aurea C Chiaia-Hernández</u>, Juliane Hollender, Joerg Rieckermann, *In Proceedings of 2007 of Conference Proceeding of the 9th International Conference on Urban Drainage Modelling, Belgrade, Serbia, 2012*

ADDITIONAL PUBLICATIONS AND PUBLISHED ABSTRACTS:

Conference Report - International conference on contaminated sediments, Monte Verità, Ascona, Switzerland—ContaSed <u>Aurea C Chiaia-Hernández</u> and Walter Giger *ESPR*, 2016, 23(11), 10304-10307. http://dx.doi.org/10.1007/s11356-016-6700-7

Editorial - Recent sediments: environmental chemistry, ecotoxicology and engineering Christian Bogdal, <u>Aurea C Chiaia-Hernández</u> and Walter Giger *ESPR*, 2016, 23(11):10301-3. http://dx.doi.org/10.1007/s11356-016-6719-9

Conference Report - International Conference on Contaminated Sediments - ContaSed 2015, Monte Verità, Ascona, Switzerland <u>Aurea C Chiaia-Hernández</u> and Walter Giger Chimia 2015; 69(7-8):488-90. http://dx.doi.org/10.2533/chimia.2015.488 Mass Flow of fluorochemicals in the Glatt River valley (2009) Carin A Huset, <u>Aurea C Chiaia</u>, Douglas F Barofsky, Niels Jonkers, Hans-Peter E Kohler, Walter Giger, and Jennifer A Field In Abstracts of The American Chemical Society, Boston, MA

Community burdens of methamphetamine and other illicit drugs. (2007) <u>Aurea C Chiaia</u>, Caleb Banta-Green, Laura Power, Dan L Sudakin, Jennifer A Field In Abstracts of the 6th International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Costa Mesa, CA

Determination of illicit drugs and biomarkers in raw municipal wastewater influent as a tool for drug epidemiology. (**2007**) Aurea C Chiaia, Daniel L Sudakin, Caleb Banta-Green, Jennifer A Field

In Abstracts of The American Chemical Society, Boston, MA

ORAL CONTRIBUTIONS TO CONFERENCES (2 INVITED, TOTAL 16):

June 2017: Platform presentation at the 16th EuCheMS International Conference on Chemistry and the Environment (ICCE 2017), Oslo, Norway (2 presentations)

"Prioritizing relevant nontarget contaminants using statistical analysis of LC-HRMS data of lake sediments"

Aurea C. Chiaia-Hernández, B. F. Günthardt, Martin P. Frey and J. Hollender

"Top-down and bottom-up approaches to identify organic contaminants in soils"

<u>Aurea C. Chiaia-Hernández</u>, Armin Keller, Daniel Wächter, Martin Krauss, Greta Stieger, Martin Scheringer, Thomas D. Bucheli, and Juliane Hollender

May 2016: Platform presentation at the Non-Target Screening Conference, Monte Veritá, Ascona, Switzerland

"Temporal Trend Analysis on LC-HRMS Measurements of Lake Sediments to Prioritize Organic Contaminants"

Aurea C. Chiaia-Hernández, B. F. Günthardt, A. Müller, E. L. Schymanski and J. Hollender

September 2015: Platform presentation at the 15th EuCheMS International Conference on Chemistry and the Environment (ICCE 2015), Leipzig, Germany

"Early identification of organic contaminants by a multimedia fate model and high resolution mass spectrometry"

<u>Aurea C. Chiaia-Hernández</u>, Greta Stieger, Martin Scheringer, Thomas D. Bucheli, Armin Keller, Daniel Wächter, Juliane Hollender

September 2015: Platform presentation at the 20th SETAC GLB, Zurich, Switzerland (Invited Speaker)

"Prioritizing organic contaminants in Swiss soils using environmental partitioning and high resolution mass spectrometry"

<u>Aurea C. Chiaia-Hernández</u>, Greta Stieger, Martin Scheringer, Thomas D. Bucheli, Armin Keller, Daniel Wächter, Juliane Hollender

March 2015: Platform presentation at the ContaSed2015, Monte Veritá, Ascona, Switzerland (Invited Speaker)

"Temporal records of organic contaminants in lake sediments and their impact on *Daphnia* populations"

Aurea C Chiaia-Hernández, R. Ashauer, M. Moest, P. Spaak and J. Hollender

May 2013: Platform presentation at the 23rd SETAC Europe Annual Meeting, Glasgow, Scotland, UK

"Can organic contaminants in lake sediments bioaccumulate in Daphnia resting eggs?"

<u>Aurea C Chiaia-Hernández</u>, Tobias Hollingshaus, Markus Moest, Piet Spaak and Juliane Hollender

May 2013: Poster presentation at the 23rd SETAC Europe Annual Meeting, Glasgow, Scotland, UK

"Target, suspect and non-target screening of lake sediments using HR-MS/MS"

Aurea C Chiaia-Hernández, Emma Schymanski, Heinz Singer, and Juliane Hollender

May 2012: Poster presentation at the 6th SETAC World Congress 2012, Berlin, Germany

"Bioaccumulation of Xenobiotics in Daphnia diapausing eggs" (2 presentations)

<u>Aurea C Chiaia-Hernández</u>, Tobias Hollingshaus, Markus Moest, Piet Spaak, and Juliane Hollender

"Target and Non-target screening of lake sediments using HR-MS/MS"

Aurea C Chiaia-Hernández, Heinz Singer, and Juliane Hollender

August 2011: Platform presentation at the EmCon 2011, Copenhagen, Denmark "Screening of medium polar organic contaminants in lake sediments using LC-APPI-HR-MS and LC-ESI-HR-MS"

Aurea C Chiaia-Hernández, Heinz Singer and Juliane Hollender

November 2010: Platform presentation at the 27th IAEAC Symposium on LC/MS, Montreux, Switzerland

"Analysis of medium polar organic compounds in lake sediments using LC-APPI/ESI-HR-MS" <u>Aurea C Chiaia-Hernández</u>, Joris Buiter, Heinz Singer and Juliane Hollender

June 2008: Poster presentation at Gordon Research Conference 2008 Environmental Sciences: Water, Holderness, NH

"Large Volume (1,800 µL) Injection HPLC/MS/MS for the Quantitative Determination of Illicit Drugs and Human Urinary Biomarkers in Municipal Wastewater"

Aurea C. Chiaia, Caleb Banta Green, Dan Sudakin, Laura Powers and Jennifer A. Field

March 2008: Platform presentation at SETAC Pacific North West 2008 Annual Meeting, Corvallis, OR

"Illicit Drugs and Biomarkers in Raw Wastewater: a New Tool for Drug Epidemiology" <u>Aurea C. Chiaia</u>, Dan Sudakin, Laura Powers, Caleb Banta-Green, and Jennifer A. Field

November 2007: Platform presentation at SETAC North America 28th Annual Meeting, Milwaukee, WI

"Large-Volume Injection LC-ESI/MS: Development and Application to Fluorochemicals and Illicit Drugs in Municipal Wastewater"

Aurea C. Chiaia, Melissa M. Schultz, Carin A. Huset, Douglas F. Barofsky and Jennifer A. Field

October 2007: Platform presentation at the 6th International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Costa Mesa, CA

"Illicit Drugs and Biomarkers in Raw Wastewater: a New Tool for Drug Epidemiology" <u>Aurea C. Chiaia</u>, Dan Sudakin, Laura Powers, Caleb Banta-Green, and Jennifer A. Field