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Advanced bioactivity screening analytics for rapid identification of environmental toxicants

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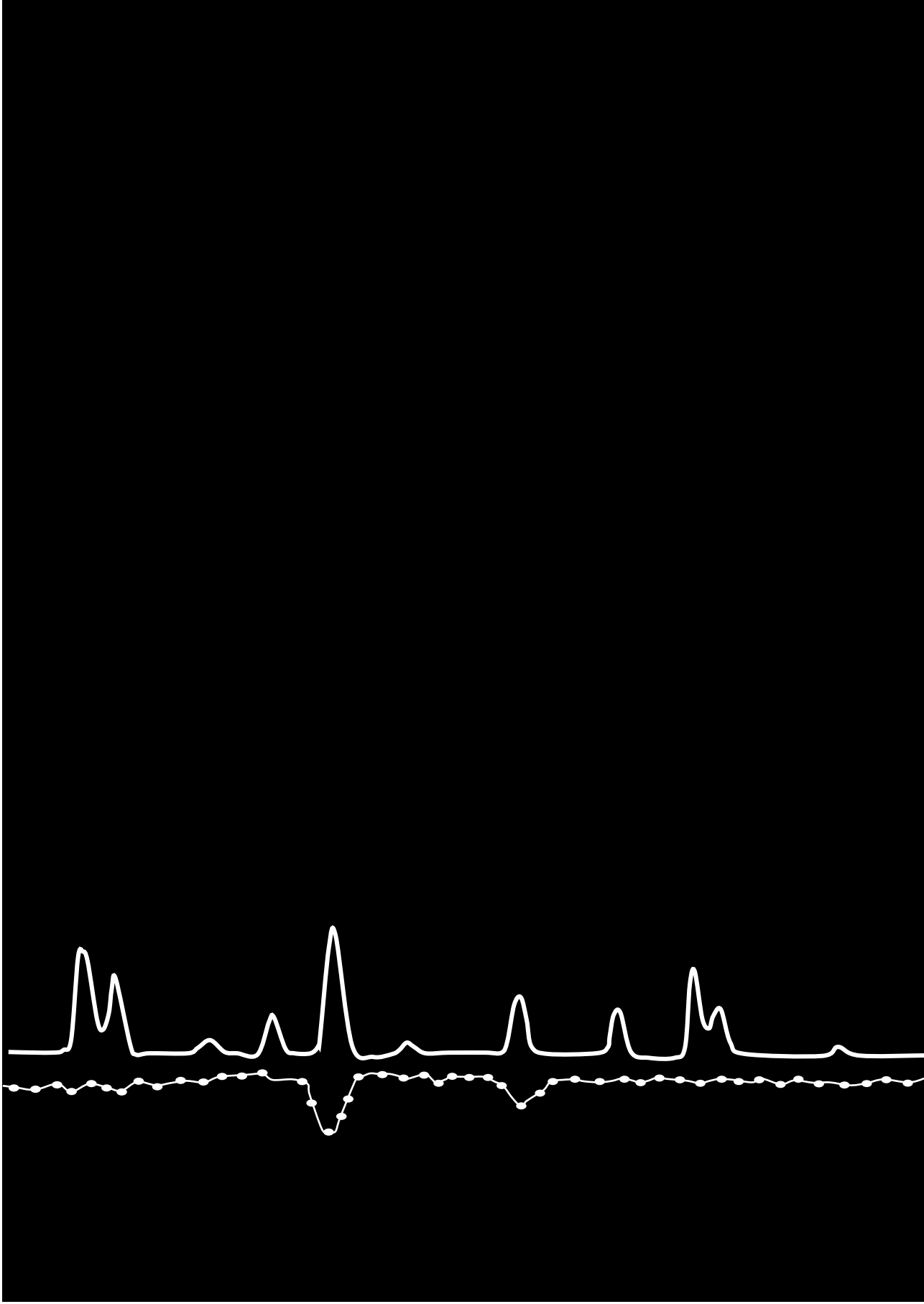
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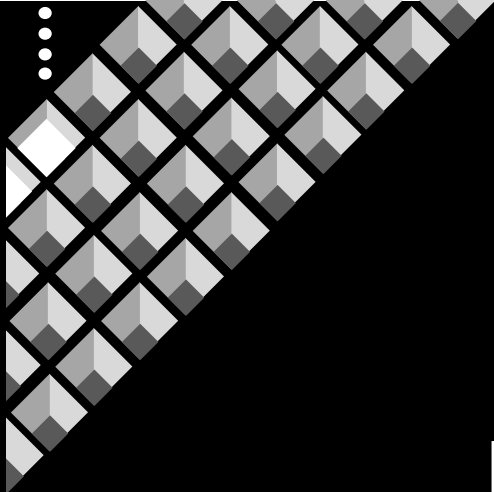
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List of publications

Included in thesis

1. **W Jonker**, MH Lamoree, CJ Houtman, T Hamers, GW Somsen, J Kool. Rapid activity-directed screening of estrogens by parallel coupling of liquid chromatography with a functional gene reporter assay and mass spectrometry *J. Chrom. A* 1406 (2015) 165-74
2. **W Jonker**, MH Lamoree, CJ Houtman, J Kool. Book chapter, chapter 4. Methodologies for Effect-Directed Analysis: Environmental Applications, Food Analysis, and Drug Discovery, *Analyzing Biomolecular Interactions by Mass Spectrometry, First Edition 13 Feb 2015 Wiley ISBN: 978-3-527-33464-3*
3. **W Jonker**, A Ballesteros-Gómez, T Hamers, MH Lamoree, GW Somsen, J Kool. Highly selective screening of estrogenic compounds in consumer-electronics plastics by liquid chromatography in parallel combined with nanofractionation-bioactivity detection and mass spectrometry *Environ. Sci. Technol.* 50 (2016) 12385–12393
4. **W Jonker**, K de Vries, N Althuisius, D van Iperen, E Janssen, R ten Broek, CJ Houtman, N Zwart, MH Lamoree, B Ooms, J Hidding, GW. Somsen and J Kool. Development of a solenoid based fraction collector for accurate analyte isolation from liquid chromatography separations for bioactivity screening. *In preparation*
5. **W Jonker**, B Clarijs, SL de Witte, M van Velzen, S de Koning, J Schaap, GW Somsen, J Kool. Gas chromatography fractionation platform featuring parallel flame-ionization detection and continuous high-resolution analyte collection in 384-well plates *J. Chrom. A* 1462 (2016) 100–106
6. **W Jonker**, N Zwart, JB Stöckl, MH Lamoree, T Hamers, J Schaap, GW Somsen, J Kool. Continuous fraction collection of gas chromatographic separations with parallel mass spectrometric detection applied to cell-based bioactivity analysis. *Talanta* 168 (2017), 162-167

Not included in this thesis

1. W Brack, S Ait-Aissa, RM Burgess, W Busch, N Creusot, C Di Paolo, BI Escher, LM Hewitt, K Hilscherova, J Hollender, H Hollert, **W Jonker**, J Kool, MH Lamoree, M Muschket, S Neumann, P Rostkowski, C Ruttkies, J Schollee, EL Schymanski, T Schulze, T-B Seiler, AJTindall, G De Aragão Umbuzeiro, B Vrana, M Krauss. Effect-directed analysis supporting monitoring of aquatic environments - An in-depth overview *Sci. Total Env.* 544 (2016), 1073–1118

2. E Aydin, D Kloos, E Gay, **W Jonker**, L Hu, J Bullwinkel, JP Brown, M Manukyan, M Giera, PB Singh, R Fundele. A hypomorphic Cbx3 allele causes prenatal growth restriction and perinatal energy homeostasis defects *J. Biosci.* 40(2) (2015), 325–338
3. HS Jónasdóttir, S Nicolardi, **W Jonker**, R Derks, M Palmblad, A Ioan-Facsinay, R Toes, YE van der Burgt, AM Deelder, OA Mayboroda, M Giera. Detection and structural elucidation of esterified oxylipids in human synovial fluid by electrospray ionization-fourier transform ion-cyclotron mass spectrometry and liquid chromatography-ion trap-MS(3): detection of esterified hydroxylated docosapentaenoic acid containing phospholipids. *Anal Chem.* 85(12) (2013), 6003-10
4. E Simon, J Bytingsvik, **W Jonker**, PEG Leonards, J de Boer, BM Jenssen, E Lie, J Aars, T Hamers, MH Lamoree. Blood Plasma Sample Preparation Method for the Assessment of Thyroid Hormone-Disrupting Potency in Effect-Directed Analysis *Environ.Sci. Technol.* 45, (2011) 7936–7944