

Publications of L2BT in 2012

Al Kaddissi S., Legeay A., Elia AC., Gonzalez P., Camilleri V., Gilbin R., Simon O. 2012. Effects of uranium on crayfish *Procambarus clarkii* mitochondria and antioxidants responses after chronic exposure: what have we learned ? *Ecotoxicology & Environmental Safety*, 78: 218-224.

<http://www.sciencedirect.com/science/article/pii/S014765131100426X>

Al Kaddissi, S., Frelon, S., Elia, A.-C., Legeay, A., Gonzalez, P., Coppin, F., Orjollet, D., Camilleri V., Beaugelin-Seiller K., Gilbin R., Simon, O. 2012. Are antioxidant and transcriptional responses useful for discriminating between chemo- and radiotoxicity of uranium in the crayfish *Procambarus clarkii*? *Ecotoxicology and Environmental Safety*, 80: 266-272.

<http://www.sciencedirect.com/science/article/pii/S0147651312000978>

Biron P.-A., Massarin S., Alonzo F., Garcia-Sanchez L., Charles S., Billoir E. 2012. Population-level modeling to account for multigeneration effects of uranium in *Daphnia magna*. *Environmental Science & Technology*, 46(2): 1136-1143.

<http://pubs.acs.org/doi/abs/10.1021/es202658b>

D. Bugai, E. Tkachenko, N. Van Meir, C. Simonucci, A. Martin-Garin, C. Roux, C. Le Gal La Salle, YU. Kubko. 2012. Geochemical influences of the waste trench no.22T at Chernobyl Pilot Site at the aquifer: conceptual model, long-term trends and implications for radionuclide migration. *Applied Geochemistry*, 27: 1320-1338.

<http://www.sciencedirect.com/science/article/pii/S0883292711004112>

Bugai D., Skalskyy A., Dzhepo S., Kubko, YU., Kashparov V.A., Van Meir N., Stammose D., Simonucci C., Martin-Garin A. 2012. Radionuclide migration at experimental polygon at Red Forest waste site in Chernobyl zone; part 2 Hydrogeological characterization and groundwater transport modelling. *Applied Geochemistry*, 27: 1359-1374.

<http://www.sciencedirect.com/science/article/pii/S0883292711004495>

Chapon V., Piette L., Vesvres M.-H., Coppin F., Le Marrec C., Christen R., Theodorakopoulos N., Février L., Levchukh S., Martin-Garin A., Berthomieu C., Sergeant C. 2012. Microbial diversity in contaminated soils along the T22 trench of the Chernobyl experimental platform. *Applied Geochemistry*, 27: 1375-1383.

<http://www.sciencedirect.com/science/article/pii/S0883292711003854>

Faucher, K., Floriani M., Gilbin R., Adam-Guillermin C. 2012. Uranium-induced sensory alterations in the zebrafish *Danio rerio*. *Aquatic Toxicology* 124-125: 94-105.

<http://www.sciencedirect.com/science/article/pii/S0166445X12002317>

Hinton T.G., Garnier-Laplace J., Vandenhove H., Dowdall M., Adam-Guillermin C., Beaugelin-Seiller K., Beresford N.A., Bradshaw C., Brown J., Eyrolle F., Fevrier L., Gariel J.-C., Gilbin R., Hertel-Aas T., Horemans N., Howard B.J., Ikäheimonen T., Mora J.C., Oughton D., Real A., Salbu B., Simon-Cornu M., Steiner M., Sweeck L., Vives i Batlle, J. 2013. An invitation to contribute to a strategic research agenda in radioecology. *Journal of Environmental Radioactivity* 115: 73-82.

<http://www.sciencedirect.com/science/article/pii/S0265931X12001920>

V. Kashparov, V. Yoschenko, S. Levchuk, D. Bugai, N. Van Meir, C. Simonucci, A. Martin-Garin. 2012. Radionuclides migration at the experimental polygon at red forest waste site in chernobyl zone; part 1: characterization of the waste trench, process of fuel particle transformation in soils and biogenic fluxes and effects to biota. *Applied Geochemistry*, 27: 1348-1358.

<http://www.sciencedirect.com/science/article/pii/S0883292711004185>

E. Lance, F. Alonzo, L. Garcia-Sanchez, K. Beaugelin-Seiller, J. Garnier-Laplace. 2012. Modelling chronic effects of ionizing radiation at the population level in non-human species. *Science of the Total Environment* 429 : 206-214.

<http://www.sciencedirect.com/science/article/pii/S0048969712004822>

Mihalík J., Henner P., Frelon S., Camilleri V., Fevrier L. 2012. Citrate assisted phytoextraction of uranium by 1 sunflowers: study of fluxes in soils and plants and resulting intra-planta distribution of Fe and U. *Environmental and Experimental Botany*, 77: 249-258.

<http://www.sciencedirect.com/science/article/pii/S0098847211003054>

Réty C., Gilbin R., Gomez E. 2012. Induction of Reactive Oxygen Species and Algal Growth Inhibition by Tritiated Water with or Without Copper. *Environmental Toxicology*, 27(3): 155-165.

<http://onlinelibrary.wiley.com/doi/10.1002/tox.20626/abstract>

Publications of L2BT in 2013

- Frelon S., Mounicou S., Lobinski R., Gilbin R., Simon O. 2013. Subcellular fractionation and chemical speciation of uranium to elucidate its fate in gills and hepatopancreas of crayfish, *Procambarus clarkii*. Chemosphere 91: 481-490.
<http://www.sciencedirect.com/science/article/pii/S0045653512015093>
- Geffroy B., Gilbin R., Della Vedova C., Simon O. 2013. Effects of a *Spirulina platensis*-based diet on zebrafish female reproductive performance and larval survival rate. Cybium, 37(1-2): 31-38.
<http://sfi.mnhn.fr/cybium/numeros/2013/371%20RIF/sommaire371.html>
- Henner P., Hurtevent P., Thiry Y., Levchuk S., Yoschenko V., Madoz-Escande C., Kashparov V. 2013. Translocation of 125I, 75Se and 36Cl to edible parts of radish, potato and green bean following a wet foliar contamination under field conditions. Journal of Environmental Radioactivity 124: 171-184.
<http://www.sciencedirect.com/science/article/pii/S0265931X13001380>
- Herlory O., Bonzom J-M., Gilbin R. 2013. Sensitivity evaluation of the green algae *Chlamydomonas reinhardtii* to uranium by pulse amplitude modulated (PAM) fluorometry. Aquatic Toxicology 140-141: 288-294.
<http://www.sciencedirect.com/science/article/pii/S0166445X13001501>
- Herlory O., Bonzom J-M., Gilbin R., Frelon S., Fayolle S., Delmas F., Coste M. 2013. Use of diatom assemblages as biomonitor of the impact of treated uranium mining effluent discharge on a stream: case study of the Ritord watershed (Center-West France). Ecotoxicology 22: 1186-1199.
<http://link.springer.com/article/10.1007%2Fs10646-013-1106-5>
- Hinton T.G., Garnier-Laplace J., Vandenhove H., Dowdall M., Adam-Guillermin C., Beaugelin-Seiller K., Beresford N.A., Bradshaw C., Brown J., Eyrolle F., Fevrier L., Gariel J.-C., Gilbin R., Hertel-Aas T., Horemans N., Howard B.J., Ikäheimonen T., Mora J.C., Oughton D., Real A., Salbu B., Simon-Cornu M., Steiner M., Sweeck L., Vives i Batlle, J. 2013. An invitation to contribute to a strategic research agenda in radioecology. Journal of Environmental Radioactivity 115: 73-82.
<http://www.sciencedirect.com/science/article/pii/S0265931X12001920>
- Hurtevent P., Thiry Y., Levchuk S., Yoschenko V., Henner P., Madoz-Escande C., Leclerc E., Colle C., Kashparov V. 2013. Translocation of 125I, 75Se and 36Cl to wheat edible parts following wet foliar contamination under field conditions. Journal of Environmental Radioactivity 121: 43-54.
<http://www.sciencedirect.com/science/article/pii/S0265931X12001099>
- Le Dizès S., Aulagnier C., Henner P., Simon-Cornu M. 2013. TOCATTA: a dynamic transfer model of 3H from the atmosphere to soil-plant systems. Journal of Environmental Radioactivity, 124: 191-204.
<http://www.sciencedirect.com/science/article/pii/S0265931X13001045>
- Pereira S., Cavalié I., Camilleri V., Gilbin R., Adam-Guillermin C. 2013. Comparative genotoxicity of aluminium and cadmium in embryonic zebrafish cells. Mutation Research/Genetic Toxicology and Environmental Mutagenesis 750: 19-26.
<http://www.sciencedirect.com/science/article/pii/S1383571812002872>
- Plaire, D., Bourdineaud, J-P, Alonzo A., Camilleri, V., Garcia-Sanchez, L., Adam-Guillermin, C., Alonzo, F. 2013. Transmission of DNA damage and increasing reprotoxic effects over two generations of *Daphnia magna* exposed to uranium. Comparative Physiology and Biochemistry Part C: Toxicology & Pharmacology, 158(4): 231-243.
<http://www.sciencedirect.com/science/article/pii/S1532045613000914>
- Saey L., Pourcelot L., Roussel-Debet S., Gurriaran R., Orjollet D., Leblanc F., Renaud P. 2013. Facteurs de transfert du césium au lait et à la viande déterminés à partir de mesures faites en France en 2011 à la suite de l'accident de Fukushima-Daichi. Radioprotection 48(3): 341-54.
<http://www.radioprotection.org/action/displayAbstract?fromPage=online&aid=8995227&fulltextType=RA&fileId=S0033845113000598>
- Simon O., Floriani M., Camilleri V., Gilbin R., Frelon S. 2013. Relative importance of direct and trophic uranium exposures in the crayfish *Orconectes limosus*: Implication for predicting uranium bioaccumulation and its associated toxicity. Environmental Toxicology & Chemistry 32(2): 410-416.
<http://onlinelibrary.wiley.com/doi/10.1002/etc.2068/abstract?systemMessage=Wiley+Online+Library+will+be+disrupted+on+11+May+from+10%3A00-12%3A00+BST+%2805%3A00-07%3A00+EDT%29+for+essential+maintenance&userIsAuthenticated=false&deniedAccessCustomisedMessage=>
- Tailliez A., Pierrisnard S., Camilleri V., Keller C., Henner P. 2013. Do rhizospheric processes linked to P nutrition participate to U absorption by *Lupinus albus* in hydroponics? Journal of Environmental Radioactivity, 124: 255-265.
<http://www.sciencedirect.com/science/article/pii/S0265931X13001379>
- Theodorakopoulos N., Bachar D., Christen R., Alain K., Chapon V. 2013. Exploration of Deinococcus-Thermus molecular diversity by novel group-specific PCR primers. Microbiology Open 2(5): 862-868.
<http://onlinelibrary.wiley.com/doi/10.1002/mbo3.119/abstract>