

Programme Envirhom-Eco : publications parues entre 2004 et 2012

2004

Février L., Martin-Garin A. (2004). Selenite mobility in soils: implication of chemical and microbiological processes. *Geochimica Cosmochimica Acta* **68** (11A), 521 (Suppl. 1).

Fortin C., Dutel L. and Garnier-Laplace, J. (2004). Uranium complexation and uptake by a green alga in relation to chemical speciation: the importance of the free uranyl ion. *Environmental Toxicology and Chemistry* **23**(4), 974-981.

Fournier E., Tran, D., Denison, F., Massabuau J.C. and Garnier-Laplace, J. (2004). Valve closure response to uranium exposure for a freshwater bivalve (*Corbicula fluminea*) : quantification of the influence of pH. *Environmental Toxicology and Chemistry* **23**(5), 1108-1114.

Garnier-Laplace J, Denison F, Gilbin R, Della-Vedova C, Adam C, Simon O, Beaugelin K. (2004). Bioavailability in ecological risk assessment for radionuclides. ECORAD 2004 Scientific trends in radiological protection of the environment, Editions TEC&DOC, Lavoisier: 41-57.

Garnier-Laplace, J. Gilek., M., Sundbell-Bergman S. and Larsson C.M. (2004). Assessing ecological effects of radionuclides: data gaps and extrapolation issues. *Journal of Radiological Protection* **24**, A139-A155.

Simon O. and Garnier-Laplace J. (2004). Kinetic analysis of uranium accumulation in the bivalve *Corbicula fluminea*: effect of pH and direct exposure. *Aquatic Toxicology* **68**, 95-108.

Tran D., Massabuau J.C. and Garnier-Laplace J. (2004). Effect of carbon dioxide on uranium bioaccumulation in the freshwater clam *Corbicula fluminea*. *Environmental Toxicology and Chemistry* **23**(3), 739-747.

2005

Bion L., Ansoborlo E., Moulin V., Reiller P., Collins R., Gilbin R., Février L., Perrier T., Denison F., Cote G. (2005). Influence of thermodynamic database on the modelisation of americium(III) speciation in a simulated biological medium. *Radiochimica Acta* **93**, 715-718.

Denison, F. H.; Garnier-Laplace, J. (2005). The effects of database parameter uncertainty on uranium(VI) equilibrium calculations. *Geochimica Cosmochimica Acta* **69**, 2183-2191.

Février L., Martin-Garin A. (2005). Biogeochemical behaviour of anionic radionuclides in soil. Evidence for biotic interactions. *Radioprotection* **40**, S79-S86.

Fournier E , Adam C , Massabuau J.C. , Garnier-Laplace J. (2005). Bioaccumulation of waterbone selenium in the Asiatic clam *Corbicula fluminea* : influence of feeding-induced ventilatory activity and selenium species. *Aquatic Toxicology* **72**, 251-260.

Henner P., Colle C., Morello M. (2005). Retention and translocation of foliar applied $^{239,240}\text{Pu}$ and ^{241}Am , as compared to ^{137}Cs and ^{85}Sr , into bean plants (*Phaseolus vulgaris*). *Journal of Environmental Radioactivity* **83** (2), 213-229.

Morlon H., Fortin C., Floriani M., Adam C., Garnier-Laplace J., Boudou A. (2005). Toxicity of selenite in the unicellular green alga *Chlamydomonas reinhardtii*: comparison between effects at the population and sub-cellular level. *Aquatic Toxicology* **73**, 65-78.

Perrier T., Martin-Garin A. and Morello M. (2005). Am-241 remobilization in a calcareous soil under simplified rhizospheric conditions studied by column experiments, *Journal of Environmental Radioactivity* **79**, 205-221.

Simon, O.; Garnier-Laplace, J. (2005). Laboratory and field assessment of uranium trophic efficiency in the crayfish *Orconectes limosus* fed the bivalve *Corbicula fluminea*. *Aquatic Toxicology* **74**, 372-383.

Tran D., Massabuau J.C., Bourdineaud J.P., Garnier-Laplace J. (2005). Modulation of uranium bioaccumulation by hypoxia in the freshwater clam Corbicula fluminea: induction of MXR and Hsp60 in gill tissues. *Environmental Toxicology and Chemistry* **24**, 9, 2278-2284

2006

Alonso F., Gilbin R., Bourrachot S., Floriani M., Morello M. Garnier-Laplace J. (2006). Effects of americium internal alpha radiation on physiological energetics, growth and reproductive success of *Daphnia magna*. *Aquatic Toxicology*, **80**(3), pp.228-236.

Chabroulet, C., F. Coppin, A. Martin-Garin, M. Floriani, E. Tinseau, J-P. Gaudet (2006). "Se-soil organic matter interactions: Direct or indirect association?" *Geochimica et Cosmochimica Acta* **70**(18, Supplement 1): 15.

Ciffroy P., Beaugelin-Seiller K., Luck M., Siclet F. Protection of non-human biota against radiation in freshwater-Effect of time dependence in tiered exposure assessment (2007) Ecological Modelling, 206 (3-4), pp. 360-368

Coppin, F., P. Hurtevent, A. Martin-Garin and C. Chabroulet (2006). "Impact of soil organic matter content on Se migration and solid partition." *Geochimica et Cosmochimica Acta* **70**(18, Supplement 1): 113.

Coppin, F.; Chabroulet, C.; Martin-Garin, A.; Balesdent, J.; Gaudet, J. P. (2006) Methodological approach to assess the effect of soil ageing on selenium behaviour: first results concerning mobility and solid fractionation of selenium. *Biology and Fertility of Soils*, **42**(5), 379-386.

Fournier E., Adam C., Massabuau J.C., Garnier-Laplace J. (2006) - Selenium bioaccumulation in *Chlamydomonas reinhardtii* and transfer to *Corbicula fluminea*: Role of speciation and bivalve's ventilation. *Environmental Toxicology and Chemistry* **25**(10): 2692-2699.

Garnier-Laplace J., Della-Vedova C., Gilbin R., Copplestone D., Hingston, J., Ciffroy P. (2006). First Derivation of Predicted-No-Effect Values for Freshwater and Terrestrial Ecosystems Exposed to Radioactive Substances. *Environmental Science & Technology* **40**(20): 6498-6505. Published on Web 09/14/2006. DOI: 10.1021/es0606531.

Morlon H., Fortin C., Adam C., Garnier-Laplace J., 2006. Selenite Transport and Its Inhibition in the Unicellular Green Alga *Chlamydomonas reinhardtii*. *Environmental Toxicology and Chemistry* **25**(5): 1408-1417.

2007

Bariellet S., Devaux A., Adam C. (2007) Assessment of bioaccumulation, oxidative stress and neurotoxicity in the teleostean *Danio rerio* exposed to different isotopic compositions of uranium. *Environmental Toxicology and Chemistry*, **26**(3), 497-505.

Beaugelin-Seiller K., Garnier-Laplace J. Evaluation comparée du risque chimique et du risque radiologique pour l'environnement. (2007) Radioprotection, **42** (4), pp. 535-550

Darcheville O., Février L., Haichar F.Z., Berge O., Martin-Garin A., Renault P. (2007). Aqueous, solid, and gaseous partitioning of selenium in a sandy soil under different microbiological states. *Journal of Environmental Radioactivity*, in press.

Dias, V., Vasseur, C., Ksas, B., Camilleri, V., Bonzom, J. M. (2007). Exposure of *Chironomus riparius* larvae to uranium: effects on survival, development time, growth, and mouthpart deformities. Accepted by *Chemosphere*.

Farcy E., Serpentini A., Fiévet B., Lebel J.-M. (2007) Identification of cDNAs encoding HSP70 and HSP90 in the abalone *Haliotis tuberculata*: Transcriptional induction in response to thermal stress in hemocyte primary culture. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **146** (4), pp. 540-550

Farcy E., Voiseux C., Lebel J.-M., Fievet B. (2007) Seasonal changes in mRNA encoding for cell stress markers in the oyster *Crassostrea gigas* exposed to radioactive discharges in their natural environment. *Science of the Total Environment*, **374** (2-3), pp. 328-341

Février L., Martin-Garin A., Leclerc-Cessac E. (2007). Variation of the distribution coefficient (Kd) of selenium in soils under various microbial states. *Journal of Environmental Radioactivity*, in press.

Fortin C., Denison, F. H. and Garnier-Laplace, J. (2007). Metal – phytoplankton interactions: modelling the effect of competing ions (H^+ , Ca^{2+} and Mg^{2+}) on uranium uptake. *Environmental Toxicology and Chemistry* **26**(2), 242-248.

Geoffroy L., Gilbin R., Simon O., Floriani M., Adam C., Pradines C., Cournac L., Garnier-Laplace J. (2007). Effect of Selenate on Growth and Photosynthesis of *Chlamydomonas reinhardtii*. *Aquatic Toxicology*, **83**(2), 149-158.

2008

Bourrachot S., Simon O., Gilbin R. 2008. The effects of waterborne uranium on the hatching success, development, and survival of early life stages of zebrafish (*Danio rerio*). *Aquatic Toxicology* **90**:29-36.
<http://www.sciencedirect.com/science/article/pii/S0166445X08002415>

Elgrabi D., Floriani M., Abella-Gallart S., Meunier L., Gamez C., Delalain P., Rogerieux F., Boczkowski J and Lacroix G. 2008. Biodistribution and clearance of instilled carbon nanotubes in rat lung. *Particule and fibre toxicology*, **5**:20.
<http://www.particleandfibretoxicology.com/content/5/1/20>

Fritsch C., Scheifler R., Beaugelin-Seiller K., Hubert P., Coeurdassier M., De Vauflery A., Badot M.P. (2008) Biotic Interactions Modify the Transfer of caesium 137 in a "soil-earthworm-plant-snail" food web Environmental Toxicology and Chemistry Volume 27, No. 8, pp. 1698-1707. <http://onlinelibrary.wiley.com/doi/10.1002/etc.416.1/abstract?systemMessage=Wiley+Online+Library+will+be+disrupted+14+Jan+from+10-12+GMT+for+monthly+maintenance>

Gagnaire B., Duchemin M., Auffret M., Thomas-Guyon H. & Renault T (2008). Comparison of hemocyte parameters in the pericardial cavity and the adductor muscle sinus in the Pacific oyster, *Crassostrea gigas*, using two types of flow cytometers. *Aquatic Living Resources*, **21**(1): 39-43. <http://www.alr-journal.org/action/displayAbstract?fromPage=online&aid=8207568>

Gagnaire B., Geffard O., Xuereb B., Margoum C. & Garric J (2008). Cholinesterase activities as potential biomarkers: characterization in two freshwater snails, *Potamopyrgus antipodarum* (Mollusca, Hydrobiidae, Smith 1889) and *Valvata piscinalis* (Mollusca, Valvatidae, Müller 1774). *Chemosphere*, **71** (3): 553-560.
<http://www.sciencedirect.com/science/article/pii/S0045653507012234>

Garnier-Laplace J., Copplestone D., Gilbin R., Alonso F., Ciffroy P., Gilek M., Aguero A., Bjork M., Oughthon D., Jaworska A., Larsson CM., Hingston J. (2008). Issues and practices in the use of effects data from FREDERICA in the ERICA integrated approach. *Journal of Environmental Radioactivity* Volume 99, issue 9, September 2008, 1474-1483.
<http://www.sciencedirect.com/science/article/pii/S0265931X08000659>

Tran D., Massabuau J.-C., Garnier-Laplace J. (2008) Impact of hypoxia on hemolymph contamination by uranium in an aquatic animal, the freshwater clam Corbicula fluminea Environmental Pollution. 156 (3), pp. 821-826.
<http://www.sciencedirect.com/science/article/pii/S0269749108002881>

2009

Adam, C., Fournier, E., Floriani, M., Massabuau, J-C, Garnier-Laplace, J. Biodynamics, Subcellular Partitioning and Biotransformations of Inorganic and Organic Selenium in a Freshwater Bivalve. Environ. Sci. Technol. 2009, 43, 2112–2117.
<http://pubs.acs.org/doi/abs/10.1021/es802891j>

Beaugelin-Seiller K., Garnier-Laplace J., Gilbin R. et Adam C. A common ecological risk assessment on freshwaters for chemical and radiological ecotoxicity: the uranium case. Radioprotection, vol. 44, n° 5 (2009) 913–918.
http://www.radioprotection.org/index.php?option=com_article&access=doi&doi=10.1051/radiopro/20095163&Itemid=129

Beresford N.A., Barnett C.L., Beaugelin-Seiller K., Brown J.E. , Cheng J.-J., Copplestone D., Gaschak S. , Hingston J.L. , Horyna J. , Hosseini A. , Howard B.J. , Kamboj S. , Kryshev A. , Nedveckaite T. , Olyslaegers G. , Sazykina T. , Smith J.T., Telleria D. , Vives i Batlle J. , Yankovich T.L., Heling R. , Wood M.D. and Yu C. Findings and recommendations from an international comparison of models and approaches for the estimation of radiological exposure to non-human biota. Radioprotection, vol. 44, n° 5 (2009) 565–570. http://www.radioprotection.org/index.php?option=com_article&access=doi&doi=10.1051/radiopro/20095104&Itemid=129

Beresford N.A., Beaugelin-Seiller K., Brown J.E., Copplestone D., Hosseini A., Andersson P., and Howard B.J. Protection of the environment from ionising radiation in a regulatory context (PROTECT): Assessment approaches – practicality, relevance and merits. Radioprotection, vol. 44, n° 5 (2009) 623–628.
http://www.radioprotection.org/index.php?option=com_article&access=doi&doi=10.1051/radiopro/20095115&Itemid=129

Berthomieu C., Chapon V., Gilbin R. (2009) Utiliser des bactéries pour dépolluer les environnements contaminés par des radionucléides. Biofutur N°295 janvier 2009, pp 33-36

Coppin F., Chabroulet C., Martin-Garin A. Selenite interactions with some particulate organic and mineral fractions isolated from a natural grassland soil. European Journal of Soil Science, June 2009, 60, 369–376. <http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2389.2009.01127.x/abstract;jsessionid=196B525C8E12A477CC9E5298E9754EB3.d01t03>

Copplestone D., Andersson P., Beresford N., Brown J., Dysvik S., Garnier-Laplace J., Hingston J., Howard B., Oughton D. and Whitehouse P. Protection of the environment from ionising radiation in a regulatory context (PROTECT): Review of current regulatory approaches to both chemicals and radioactive substances. Radioprotection, vol. 44, n° 5 (2009) 881–886.
http://www.radioprotection.org/index.php?option=com_article&access=doi&doi=10.1051/radiopro/20095157&Itemid=129

Farcy E., Voiseux C., Lebel J-M, and Fievet B (2009) Transcriptional expression levels of cell stress marker genes in the Pacific oyster Crassostrea gigas exposed to acute thermal stress. Cell Stress & Chaperones, 14, pp 371-380.
<http://www.springerlink.com/content/7234823v02967416/>

Gagnaire B., Gagné F., Blaise C., André C., Abbaci K. & Garric J. (2009). Development of biomarkers of stress related to endocrine disruption in gastropods: Alkali-labile phosphates, protein-bound lipids and vitellogenin-like proteins. Aquatic Toxicology, 92: 155-167 ; <http://www.sciencedirect.com/science/article/pii/S0166445X0900040X>

Garcia D., Iecomte-Pradines C., Quémeneur E. (2009) BiodéTECTeurs environnementaux, Biofutur N°295 janvier 2009, pp 24-27

Garnier-Laplace J., Beaugelin-Seiller K., Gilbin R., Della-Vedova C., Jolliet O. and Payet J. A Screening Level Ecological Risk Assessment and ranking method for liquid radioactive and chemical mixtures released by nuclear facilities under normal operating conditions. Radioecology 2008, Bergen (Norvège), 16-21 juin 2008. Radioprotection, vol. 44, n° 5 (2009) 903–908.
http://www.radioprotection.org/index.php?option=com_article&access=doi&doi=10.1051/radiopro/20095161&Itemid=129

Lagauzère S., Boyer P., Stora G., Bonzom J-M. (2009). Effects of uranium-contaminated sediments on the bioturbation activity of Chironomus riparius larvae (Insecta, Diptera) and Tubifex tubifex worms (Annelida, Tubificidae). Chemosphere, 76 (3), 324-334.
<http://www.sciencedirect.com/science/article/pii/S0045653509003944>

Lagauzère S., Pischedda L., Cuny P., Gilbert F., Stora G. et Bonzom J-M. 2009. Influence of Chironomus riparius (Diptera, Chironomidae) and Tubifex tubifex (Annelida, Oligochaeta) on oxygen uptake by sediments. Consequences of uranium contamination (accepté, 2008). Environmental Pollution. 157 (4), pp. 1234-1242.
<http://www.sciencedirect.com/science/article/pii/S0269749108006775>

Lagauzère S., Terrail R., Bonzom J.M. 2009. Ecotoxicity of uranium on Tubifex tubifex worms (Oligochaeta, Tubificidae) exposed to contaminated sediment. Ecotoxicology and Environmental Safety 72 (2), pp. 527-537.
<http://www.sciencedirect.com/science/article/pii/S014765130800136X>

Lerebours A., Gonzalez P., Adam C., Camilleri V., Bourdineaud J. P., Garnier-Laplace J. 2009. Comparative analysis of gene expression in brain, liver, skeletal muscles and gills of zebrafish (*Danio rerio*) exposed to environmentally relevant waterborne uranium concentrations. Environmental Toxicology and Chemistry 2009 Vol. 28, No. 6, pp. 1271–1278.
<http://onlinelibrary.wiley.com/doi/10.1897/08-357.1/abstract?systemMessage=Wiley+Online+Library+will+be+disrupted+14+Jan+from+10-12+GMT+for+monthly+maintenance>

Mathews T., Beaugelin-Seiller K., Garnier-Laplace J., Gilbin R., Adam C., Della-Vedova C.A. Probabilistic assessment of the chemical and radiological risks of chronic exposure to uranium in freshwater ecosystems. Environmental Science and Technology, 2009, 43 (17), pp. 6684-6690. <http://pubs.acs.org/doi/abs/10.1021/es9005288>

Misson J, Henner P, Morello M, Floriani M, Ting-Di Wu, Guerquin-Kern JL, Février L. Use of phosphate to avoid uranium toxicity in *Arabidopsis thaliana* leads to alterations of morphological and physiological responses regulated by phosphate availability. Environmental and Experimental Botany 2009, 67, 353-362. <http://www.sciencedirect.com/science/article/pii/S0098847209001816>

Vavasseur A., Richaud P., Missons-Pons J. 2009 Des plantes pour dépolluer ou stabiliser des éléments toxiques dans les sols et les eaux, Biofutur N°295 janvier 2009, pp 37-40

Pinder J., Hinton T., Whicker F., Smith J. Cesium accumulation by fish following acute input to lakes: A comparison of experimental and Chernobyl-impacted systems. (2009). Journal of Environmental Radioactivity, 100, 456-467. <http://www.sciencedirect.com/science/article/pii/S0265931X09000411>

Thomas-Guyon H., Gagnaire B., Bado-Nilles A., Bouilly K., Lapègue S. & Renault T. (2009). Detection of phenoloxidase activity in early stages of the Pacific oyster, *Crassostrea gigas* (Thunberg). Developmental & Comparative Immunology, 33 (5): 653-659. <http://www.sciencedirect.com/science/article/pii/S0145305X08002553>

2010

Barillet S., Larno V., Floriani M., Devaux A., Adam-Guillermin C. 2010. Ultrastructural effects on gill, muscle, and gonadal tissues induced in zebrafish (*Danio rerio*) by a waterborne uranium exposure. Aquatic Toxicology, 100, 3, 295-302. <http://www.sciencedirect.com/science/article/pii/S0166445X10003024>

Beresford N.A., Hosseini A., Brown J.E., Cailes C., Beaugelin-Seiller K., Barnett C.L., Copplestone D. 2010. Assessment of risk to wildlife from ionising radiation: can initial screening tiers be used with a high level of confidence? Journal of Radiological Protection, 30, 265-281. <http://iopscience.iop.org/0952-4746/30/2/S04/>

C. Darolles, D. Broggio, A. Feugier, S. Frelon, I. Dublineau, M. De Meo and F. Petitot. 2010. Different genotoxic profiles between depleted and enriched uranium. Toxicology Letters Volume 192, Issue 3, Pages 337-348. <http://www.sciencedirect.com/science/article/pii/S0378427409015185>

Fournier E., Adam-Guillermin C., Potin-Gautier M., Pannier F. 2010. Selenate bioaccumulation and toxicity in *Chlamydomonas reinhardtii*: Influence of ambient sulphate ion concentration. Aquatic Toxicology, 97 (1), p 51-57. <http://www.sciencedirect.com/science/article/pii/S0166445X09004147>

Garnier-Laplace J., Della-Vedova C., Andersson P., Copplestone D., Cailes C., Beresford N., Howard B.J., Howe P., Whitehouse P. 2010. A multi-criteria weight of evidence approach to derive ecological benchmarks for radioactive substances. Journal of Radiological Protection, 30, 215-233. <http://iopscience.iop.org/0952-4746/30/2/S02/>

Howard B., Beresford N.A., Andersson P., Brown J.E., Copplestone D., Beaugelin-Seiller K., Garnier-Laplace J., Howe P.D., Oughton D.H., Whitehouse P. 2010. Protection of the environment from ionising radiation in a regulatory context – an overview of the PROTECT coordinated action project. Journal of Radiological Protection, 30, 195-214. <http://iopscience.iop.org/0952-4746/30/2/S01/>

Lerebours A., Bourdineaud J.P., Van der Ven K., Vandenbrouck T., Gonzalez P., Camilleri V., Floriani M., Garnier-Laplace J., Adam-Guillermin C. 2010. Sub-lethal effects of waterborne uranium exposures on the zebrafish brain: transcriptional responses and alterations of the olfactory bulb ultrastructure. Environmental Science & Technology, 44 (4), p 1438-1443. <http://pubs.acs.org/doi/abs/10.1021/es902550x>

Lerebours A., Adam-Guillermin C., Bréthes D., Frelon S., Floriani M., Camilleri V., Garnier-Laplace J. and Bourdineau J-P. 2010. Mitochondrial energetic metabolism perturbations in skeletal muscles and brain of zebrafish (*Danio rerio*) exposed to low concentrations of waterborne uranium. Aquatic Toxicology, 100, 1, 66-74. <http://www.sciencedirect.com/science/article/pii/S0166445X10002444>

Massarin S., Alonso F., Garcia-Sanchez L., Gilbin R., Garnier-Laplace J., Poggiale J.-C. 2010. Effects of chronic uranium exposure on life history and physiology of *Daphnia magna* over three successive generations. Aquatic Toxicology, 99 (3), 309-319. <http://www.sciencedirect.com/science/article/pii/S0166445X1000189X>

Michon J., Frelon S., Garnier C., Coppin F. 2010. Fluorescence Quenching Determination of Uranium(VI) 1 Binding Properties by Four Metalloproteins (Human Serum Transferrin - Human Serum Albumin - Rabbit Liver Metallothionein - Equine Spleen Ferritin). Journal of fluorescence, 20, p 581-590. <http://www.springerlink.com/content/h9g2353564n47j40/>

Pinder J., Hinton T., Whicker F. 2010. Contrasting cesium dynamics in neighboring deep and shallow warm-water reservoirs. Journal of Environmental Radioactivity, 101 (9), 659-669. <http://www.sciencedirect.com/science/article/pii/S0265931X10000408>

Yankovich T.L., Vives i Batlle J., Vives-Lynch S., Beresford N.A., Barnett C.L., Beaugelin-Seiller K., Brown J.E, Cheng J-J, Copplestone D., Heling R., Hosseini A., Howard B.J., Kamboj S., Kryshev A.I., Nedveckaite T., Smith J.T. Wood M.D. 2010. An international model validation exercise on radionuclide transfer and doses to freshwater biota. Journal of Radiological Protection, 30, 299-340. <http://iopscience.iop.org/0952-4746/30/2/S06/>

2011

Al Kaddissi S, Simon O, Legeay A, Gonzalez P, Floriani M and Gilbin R. 2011. Effects of uptake on transcriptional responses, histological structures and survival rate of the crayfish *Procambarus clarkii*. Ecotoxicology & Environmental Safety, 74(7): 1800-1807. <http://www.sciencedirect.com/science/article/pii/S0147651311001746>

Augustine S., Gagnaire B., Adam-Guillermin C. & Kooijman S.A.L.M. 2011. The energetics of zebrafish maturation through its life cycle. Comparative Biochemistry & Physiology Part A, 159(3): 275-283.
<http://www.sciencedirect.com/science/article/pii/S1095643311000742>

Augustine S., Litvak M.K. Kooijman SALM. 2011. Stochastic feeding of fish larvae and their metabolic handling of starvation. Journal of Shellfish Research, 66(4): 411-418. <http://www.sciencedirect.com/science/article/pii/S1385110111001018>

Barillet S., Adam-Guillermin C., Palluel O., Porcher J-M., Devaux A. 2011. Uranium bioaccumulation and biological disorders induced in zebrafish (*Danio rerio*) after a depleted uranium waterborne exposure. Environmental Pollution, 159, 495-502.
<http://www.sciencedirect.com/science/article/pii/S0269749110004690>

Colinon-Dupuich C., Février L., Ranjard L., Coppin F., Cournoyer B., Nazaret S. 2011. Radioecological risk assessment of low selenium concentrations through genetic fingerprints and metabolic profiling of soil bacterial communities. Microbial Ecology, 62(1): 14-24. <http://www.springerlink.com/content/l2453t0510v33987/>

Farcy E., Voiseux C., Robbes I., Lebel J-M. and Fiévet B. 2011. Effect of ionising radiation on the transcription level of cell stress marker genes in the Pacific oyster *Crassostrea gigas*. Radiation Research, 176(1) : 38-48.
<http://www.bioone.org/doi/abs/10.1667/RR2525.1>

Gagnaire B., Adam-Guillermin C., Bouron A., Lestaev P. 2011. The effects of radionuclides on animal behaviour: a review. Reviews of Environmental Contamination & Toxicology, 210, 35-58. <http://www.springerlink.com/content/pg00044132023u17/>

Gagnaire B., Boyer P., Bonzom J-M., Lecomte-Pradines C., Simon O., Gilbin R. 2011. Transfer modelling and toxicity evaluation of the effluent from an installation of cleansing and uranium recovery using a battery of bioassays. Ecotoxicology, 20, 187–201.
<http://www.springerlink.com/content/y2h0208226t38110/>

Garnier-Laplace J., Beaugelin-Seiller K., Hinton T. 2011. Fukushima Wildlife Dose Reconstruction Signals Ecological Consequences. Environmental Science & Technology, 45(12): 5077-5078. <http://pubs.acs.org/doi/abs/10.1021/es201637c>

Geras'kin, S., Oudalova, A., Dikareva, N., Spiridonov, S., Hinton, T., Chernonog, E., Garnier-Laplace, J. 2011. Effects of radioactive contamination on Scots pines in the remote period after the Chernobyl accident, Ecotoxicology, 20(6): 1195-1208.
<http://www.springerlink.com/content/dg22133010491488/>

Kooijman S.A.L.M., Pecquerie L., Augustine S., Jusup M. 2011. Scenarios for acceleration in fish development and the role of metamorphosis. Journal of Shellfish Research, 66(4): 419-423. <http://www.sciencedirect.com/science/article/pii/S1385110111000530>

Lagauzère S., Coppin F., Gérino M., Delmotte S., Stora G., Bonzom J.M. 2011. An alternative method of particulate fluorescent tracer analysis in sediments using a microplate fluorimeter. Environmental Technology 32(5): 551-560.
<http://www.tandfonline.com/doi/abs/10.1080/09593330.2010.505251>

Lance E., Tanguy M., Alonso F., Gérard C., Bormans M. 2011. Impact of microcystin-producing cyanobacteria on the reproductive success of *Lymnaea stagnalis* (Gastropoda, Pulmonata) and consequences at the population level. Ecotoxicology 20(4): 719-730.
<http://www.springerlink.com/content/d12056xu40687114/>

Massarin S., Beaudouin R., Zeman F., Floriani M., Gilbin R., Alonso F., Péry A. 2011. Biology-based modelling to analyse uranium toxicity on *Daphnia magna* in a multi-generation study. Environmental Science & Technology, 45(9): 4151-4158.
<http://pubs.acs.org/doi/abs/10.1021/es104082e>

Mondani L., Benzerara K., Carrière M., Christen R., Mamindy-Pajany Y., Février L., Marmier N., Achouak W., Nardoux P., Berthomieu C., Chapon V. 2011. Influence of uranium on bacterial communities: a comparison of natural uranium-rich soils with controls. Plos ONE 6(10) e25771. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0025771>

Orieux N., Cambier S., Gonzalez P., Morin B., Adam C., Garnier-Laplace J., Bourdineaud J.-P. 2011. Genotoxic damages in zebrafish submitted to a polymetallic gradient displayed by the Lot River (France). Ecotoxicology and Environmental Safety, 74(4): 974-983. <http://www.sciencedirect.com/science/article/pii/S0147651311000091>

Oskolkov, B.Y., Bondarkov, M.D., Gaschak, S.P., Maksimenko, A.M., Hinton, T.G., Coughlin, D., Jannik, G.T., Farfán, E.B. 2011. Radiation dose assessment for the biota of terrestrial ecosystems in the shoreline zone of the Chernobyl nuclear power plant cooling pond. Health Physics 101(4): 349-361. [Pereira S., Bourrachot S., Cavalié I., Plaire D., Dutilleul M., Gilbin R., Adam-Guillermin C. 2011. Genotoxicity of acute and chronic gamma irradiation of zebrafish cells and consequences for embryo development. Environmental Toxicology & Chemistry 30\(12\): 2831-2831.
<http://onlinelibrary.wiley.com/doi/10.1002/etc.695/abstract;jsessionid=4EA4378C9228870FE39A300A4D637CDF.d03t03?systemMessage=Wiley+Online+Library+will+be+disrupted+14+Jan+from+10-12+GMT+for+monthly+maintenance>](http://ovidsp.tx.ovid.com/sp-3.4.2a/ovidweb.cgi?QS2=434f4e1a73d37e8c00586f3002aa4aacfc091467a1c06cbdb9455a38d159dfbec27f23f1ea808e7cacb318636d65cc079c8b119fad37a093f9d516c0b26ffdc12db91b3fe883648c3daaa59e30b089740f627eb9fa277fa7a60f5c0600e20c1e5cd2e681736c27827e4daa2143c0052feb20c10c894969f13879c28fa7756c99ee5b8800d89b60fa03b838ee1bcb43b5f549f4eee156c648064aec29467d7d73571a47e3539b9febfc3d590b1463b497b6481aa5bcceae77e4242a9c28d168fa38d899bf7cd56b7a5b2cca05a9dcbb1eaf6186ec2a032369ce41a39280dff17794ede8f148267843b1a9ca12d6e779abbd41f4007b4bab9f571b551764ccc6ed1fb639aa5e e114e24cd356af3b77d676cd369b105e0cacdd00125693944a1b895b9d534623c9bca18fd66d4bc072d509c985f292a745ef5caac1c c91f81e940d9d70236202d211028cdf97ae1382c8145edaaba804b45e6d87a80a8ab821abe88e59694aaff4caf8ccbab4f3290364735689a01ed40b731a0423d5faae89ab813775669a44b</p></div><div data-bbox=)

Pinder III J.E., Hinton T.G., Taylor B.E., Whicker F.W. 2011. Cesium accumulation by aquatic organisms at different trophic levels following an experimental release into a small reservoir. Journal of Environmental Radioactivity, 102, 283-293.
<http://www.sciencedirect.com/science/article/pii/S0265931X10002663>

- Simon O., Mottin E., Geffroy B., Hinton T. 2011. The effects of dietary uranium on reproductive endpoints (fecundity, survival, reproductive success) of the fish, *Danio rerio*. Environmental Toxicological and Chemistry, 30(1), 220-225.
<http://onlinelibrary.wiley.com/doi/10.1002/etc.381/abstract>
- Simon O., Floriani M., Cavalié I., Camilleri V., Adam C., Gilbin R., Garnier-Laplace J. 2011. Internal distribution of uranium and associated genotoxic damages in the chronically exposed bivalve *Corbicula fluminea*. Journal of Environmental Radioactivity, 102(8): 766-773. <http://www.sciencedirect.com/science/article/pii/S0265931X11000762>
- Simon O., Massarin S., Coppin F., Hinton TG., Gilbin R. 2011. Investigating the embryo/larval toxic and genotoxic effects of γ irradiation on zebrafish eggs. JER 102: 1039-1044. <http://www.sciencedirect.com/science/article/pii/S0265931X11001354>
- Smith, R.W., Mothersill, C., Hinton, T., Seymour, C.B. 2011. Exposure to low level chronic radiation leads to adaptation to a subsequent acute X-ray dose and communication of modified acute X-ray induced bystander signals in medaka (Japanese rice fish, *Oryzias latipes*). International Journal of Radiation Biology 87(10): 1011-1022.
<http://informahealthcare.com/doi/abs/10.3109/09553002.2011.587861>
- Smith, R.W., Wang, J., Mothersill, C.E., Hinton, T.G., Aizawa, K., Seymour, C.B. 2011. Proteomic changes in the gills of wild-type and transgenic radiosensitive medaka following exposure to direct irradiation and to X-ray induced bystander signals. Biochimica et Biophysica Acta - Proteins and Proteomics 1814 (2), pp. 290-298.
<http://www.sciencedirect.com/science/article/pii/S1570963910003031>
- Tsyusko, O., Glenn, T., Yi, Y., Joice, G., Jones, K., Aizawa, K., Coughlin, D., Zimbrick, J., Hinton, T. 2011. Differential genetic responses to ionizing irradiation in individual families of Japanese medaka, *Oryzias latipes*. Mutation Research - Genetic Toxicology and Environmental Mutagenesis 718 (1-2), pp. 18-23. <http://www.sciencedirect.com/science/article/pii/S1383571810003840>
- Vives i Batlle J., Beaugelin-Seiller K., Beresford N.A., Copplestone D., Horyna J., Hosseini A., Johansen M., Kamboj S., Keum D.-K., Kurosawa N., Newsome L., Olyslaegers G., Vandenhove H., Ryufuku S., Vives Lynch S., Wood M.D., Yu C. 2011. The estimation of absorbed dose rates for non-human biota: an extended intercomparison. Radiation and Environmental Biophysics, 50(2): 231-251.
<http://www.springerlink.com/content/f15272767177x522/>
- ## 2012
- Adam-Guillermin C., Pereira S., Della-Vedova C., Hinton T., Garnier-Laplace J. 2012. Genotoxic effects of radionuclides in aquatic organisms: a review. Reviews of Environmental Contamination & Toxicology, 220: 67-103.
<http://www.springerlink.com/content/g86t58141l21162/?MUD=MP>
- 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>
- Al Kaddissi S., Legeay A., Elia AC, Gonzalez P., Camilleri, 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>
- Augustine S., Gagnaire B., Adam-Guillermin C., Kooijman S.A.L.M. 2012. Impact of uranium on the metabolism of zebrafish, *Danio rerio*. Aquatic Toxicology 118-119: 9-26. <http://www.sciencedirect.com/science/article/pii/S0166445X12000872>
- Beaudouin, R., Dias, V., Bonzom, J.M., Péry, A. 2012. Individual-based model of *Chironomus riparius* population dynamics over several generations to explore adaptation following exposure to uranium-spiked sediments. Ecotoxicology 21: 1225-1239.
<http://www.springerlink.com/content/b621h37183u06523/>
- Biron P.-A., Massarin S., Alonso 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>
- 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>
- Geras'kin, S., Oudalova, A., Dikarev, V., Dikareva, N., Mozolin, E., Hinton, T., Spiridonov, S., Copplestone, D., Garnier-Laplace, J. 2012. Effects of chronic exposure in populations of Koeleria gracilis Pers. from the Semipalatinsk nuclear test site, Kazakhstan. Journal of Environmental Radioactivity 104(2): 55-63. <http://www.springerlink.com/content/dg22133010491488/>
- Lance E., Alonso F., Garcia-Sanchez L., Beaugelin-Seiller K., Garnier-Laplace J. 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>
- Pereira S., Camilleri V., Floriani M., Cavalié I., Garnier-Laplace J., Adam-Guillermin C. 2012. Genotoxicity of uranium contamination in embryonic zebrafish cells. Aquatic Toxicology 109: 11-16. <http://www.sciencedirect.com/science/article/pii/S0166445X11003274>

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;jsessionid=71C5F4B841747A40D4E21187D21813E9.d03t03>

Sauge-Merle, S., Lecomte-Pradines, C., Carrier, P., Cuiné, S., DuBow, M. 2012. Heavy metal accumulation by recombinant mammalian metallothionein within Escherichia coli protects against elevated metal exposure. Chemosphere 88: 918-924.
<http://www.sciencedirect.com/science/article/pii/S0045653512005024>