

## Communications 2018

### Publications dans des revues internationales avec comité de lecture

1. Arce-Funck, J., Crenier, C., Danger, M., Billoir, E., Usseglio-Polatera, P., Felten, V. (2018) High stoichiometric food quality increases moulting organism vulnerability to pollutant impacts: An experimental test with *Gammarus fossarum* (Crustacea: Amphipoda). *Science of The Total Environment*, 645: 1484-1495.
2. Atinkpahoun C.N.H., N.D. Le, S. Pontvianne, H. Poirot, J.P. Leclerc, M.N. Pons, H.H. Soclo (2018) Population mobility and urban wastewater dynamics, *Science of the Total Environment*, 622-623 : 1431-1437
3. De la Cruz Barrón M., C. Merlin, H. Guilloteau, E. Montargès-Pelletier, X. Bellanger (2018) Suspended materials in river waters differentially enrich class 1 integron- and IncP-1 plasmid-carrying bacteria in sediments. *Frontiers in Microbiology*. 9 :1443
4. Datry, T., Foulquier, A., Corti, R., Von schiller, D., Tockner, K., Menoza-lera, C., Clement, J.C., Gessner, M., Moleon, M., Stubbington, R., Gücker, B., Albariño, R., Allen, D., Altermatt, F., Arce, M., Banas, D., Banegas-medina, A., Beller, E., Blanchette, M., Blanco-libreros, J., Blessing, J., Boechat, I., Boersma, K., Bogan, M., Bonada, N., Bond, N., Brintrup, K., Bruder, A., Burrows, R., Cancellario, T., Canhoto, C., Carlson, S., Cauvy-fraunié, S., Cid, N., Danger, M., Terra, B., De Girolamo, A.M., De la barra, E., Del campo, R., Diaz-villanueva, V., Dyer, F., Faye, E., Elosegí, A., Febria, C., Four, B., Gafny, S., Ghate, S., Gomez, R., Gómez-gener, L., Graça, M., Guareshi, S., Hoppeler, F., Hwan, J., Jones, I., Kubheka, S., Laini, A., Langhans, A., Leigh, C., Little, C., Lorenz, S., Marshall, J., Martin, E., Mcintosh, A., Meyer, E., Miliša, M., Mlambo, M., Morais, M., Moya, N., Negus, P., Niyogi, D., Papatheodoulou, A., Pardo, I., Paril, P., Pauls, S., Pešić, V., Poláček, M., Robinson, C.T., Rodríguez-lozano, P., Rolls, R., Sánchez-montoya, M., Savi?, A., Shumilova, O., Sridhar, K., Steward, A., Storey, R., Taleb, A., Uzan, A., Vander Vorste, R., Waltham, N., Waltham, N., Woelfle-Erskine, C., Zak, D., Zarfl, C., Zoppini, A. (2018) A global analysis of terrestrial plant litter dynamics in non-perennial waterways. *Nature Geoscience*, 1 : 1-10
5. Djukic I., S. Kepfer-Rojas, I. Kappel Schmidt, K. Steenberg Larsen, C. Beier, K. Verheyen, TeaComposition (2018) Early stage litter decomposition across biomes. *Science of the Total Environment* 628-629: 1369-1394.
6. Koehle-Divo V., Cossu-Leguille C., Pain-Devin S., Simonin C., Bertrand C., Sohm B., Mouneyrac C., Devin S., Giambérini L. (2018) Genotoxic and physiological effects of nCeO<sub>2</sub> on a freshwater bivalve (*Corbicula fluminea*). *Aquatic Toxicology* 198: 141-148.
7. Maunoury-Danger F., Felten V., Bojic C., Fraysse F., Cosin MC., Dedourge-Geffard O., Geffard A., Guérolld F., Danger M. (2018) Metal release from contaminated leaf litter and leachate toxicity for the freshwater crustacean *Gammarus fossarum*. *Environmental Science and Pollution Research International*, 25 :11281–11294.
8. Mousset E., S. Pontvianne, M.N. Pons (2018) Fate of inorganic nitrogen species under homogeneous Fenton combined with electro-oxidation/reduction treatments in synthetic solutions and reclaimed municipal wastewater, *Chemosphere*, 201: 6-12
9. Parant M., Perrat E., Wagner P., Rosin C., Py J.S., Cossu-Leguille C. (2018). Variations of anthropogenic gadolinium in rivers close to waste water treatment plant discharges. *Environmental Science and Pollution Research*, 25: 36207–36222
10. Potet M., Giambérini L., Pain-Devin S., Louis F., Bertrand C., Devin S. (2018) Survival of the fittest: nickel tolerance until dreissenid collapse. *Scientific Reports* 8 (1), 700.
11. Potet M., Giambérini L., Pain-Devin S., Catteau A., Pauly D., Devin S.(2018) Impact of multiple stressors on biomarker responses in sympatric dreissenid populations. *Aquatic Toxicology* 203:140-149.

12. Rollin M, Coulaud R, Danger M, Sohm B, Flayac J, Chaumot A, Geffard O, Felten V. (2018) Additive effect of calcium depletion and low resource quality on *Gammarus fossarum* (Crustacea, Amphipoda) life history traits. *Environmental Science and Pollution Research*. 25: 11264-11280.
13. Rosin C., J.S. Py, N. Rimlinger, C. Pallez, A. Colin, G. Vo Van-Régnault, J.F. Munoz (2018) État de la contamination des eaux de consommation humaine : présentation d'une approche globale, *Environnement, Risques et Santé*, 17, S1 : 17-21.
14. Sedji M.I., M. Varbanov, M. Meo, M. Colin, L. Mathieu, I. Bertrand, I. (2018) Quantification of human adenovirus and norovirus in river water in the north-east of France. *Environmental Science and Pollution Research*, 25: 30497-30507.

### Communications invitées dans des colloques internationaux

1. DANGER M. Ecological stoichiometry in detritus-based headwater streams: current knowledge and perspectives. *XIX Congresso da Associação Ibérica de Limnologia*, Coimbra, Portugal 24 – 29 juin 2018
2. DANGER M. Thirty years of Ecological Stoichiometry: recent conceptual changes and research perspectives. *SFE 2018*, Rennes, 22-25 octobre 2018
3. GROSS E.M. Are abiotic constraints affecting response to pollutants and biotic interactions in an aquatic plant? *SFE 2018*, Rennes, 22-25 octobre 2018.

### Communications dans des colloques internationaux

1. BELLANGER X., PRADALIER C., GUILLOTEAU H., DE LA CRUZ BARRON M., ROMAN V., MERLIN C. Identifying antibiotics triggering the dissemination of resistance genes at low concentrations. *XENOWAC II*, Limassol, Chypre, 10 – 12 octobre 2018
2. CHAHINE G., PRADALIER C. Survey of Monocular SLAM Algorithms in Natural Environments. *Conference on Computer and Robot Vision*, Toronto, Canada, 9-11 mai 2018
3. COURSON O., E. PARLANTI, M. DEL NERO, M.N. PONS Characterization by optical methods and high-resolution mass spectrometry of the Seine River dissolved organic matter (DOM), *I.S. Rivers*, Lyon, France, 4-8 juin 2018.
4. CLOQUET C., LE MEUR M., KANBAR H., DONG S., MONTARGES-PELLETIER E. Combining isotopic and speciation signatures to study Zn behavior in rivers. Goldschmidt conference, Boston, MA, USA, 12-17 août 2018.
5. DE LA CRUZ BARRÓN M., BELLANGER X., GUILLOTEAU H., MONTARGÈS-PELLETIER E., MERLIN C. Compartmentalization of class 1 integrons and IncP-1 plasmids in the Orne river (France), an aquatic ecosystem impacted by urban and industrial anthropogenic pressures. *XENOWAC II*, Limassol, Chypre, 10 – 12 octobre 2018
6. Danger M. Stoichiometric Traits: a relevant approach for relating nutrient availabilities to community structures and ecosystem functioning? *SFE 2018*, Rennes, France, 22-25 octobre 2018
7. GEBHARDT A., POSZWA A., MANSUY-HUAULT L., GOCEL-CHALTE D., ROBIN V., TEGEL W. Indicators of past ecosystem dynamic on current soils in Lorraine (France) », *Sféologie. International Conference on Ecological Sciences*, Rennes, 22-25 octobre 2018.
8. GOSSIAUX A., POUPIN P., CHAUVET E., JABIOL J., WAGNER P., GUÉROLD F. Temperature effects on stream ecosystem functioning across seasons: insights from a temperate thermal spring in the Vosges Mountains. *Society for Freshwater Science*, Detroit, Michigan, 20-24 Mai 2018
9. GROSS, E.M. How are different stress factors affecting plant quality? Insights from *Myriophyllum spicatum*. *15th International Aquatic Plant Symposium*, Queenstown, New Zealand, 18-23 février 2018.
10. JABIOL J, CAMARA B, DANGER M, GILBERT F, GOSSIAUX A, GUÉROLD F, LECERF A, POUPIN P, CHAUVET E. The dual Arrhenius-Michaelis-Menten (DAMM) model to predict temperature and nutrient effects on

- microbial litter decomposition in streams. *Society for Freshwater Science*, Detroit, Michigan, 20-24 Mai 2018
11. LEPESQUEUR J., HOSTACHE R., MARTINEZ-CARRERAS N., MANCEAU L., HISSLER C., MONTARGES-PELLETIER E. Modelling river hydro-sedimentaries fluxes during a high flood event. RIVER FLOW 2018, Lyon, 5-8 septembre 2018.
  12. MERLIN C., BELLANGER X., SCORNEC H., GUILLOTEAU H. Identifying antibiotics triggering the dissemination of mobility of mobile genetic elements. *Challenges and new concepts in antibiotics research*. Paris, 19-21 mars 2018
  13. MONTARGES-PELLETIER E., KANBAR H., GUENET H., BIHANNIC I., GLEY R., VANTELON D. Long term behavior of iron and zinc in steelmaking wastes. *Goldschmidt conference*, Boston, MA, USA, 12-17 août 2018.
  14. MOUCHEL J.M., AYRAULT S., COYNEL A., DEBRET M., GROSBOIS C., LABADIE P., MONTARGES-PELLETIER E., MOURIER B. A synthesis of long-term contamination of French Rivers revealed by sediment cores. *ISRIVERS*, Lyon, France, 5-8 juin 2018.
  15. MOUSSET E., PONS M.N. A combined electrochemical and nanofiltration treatment for organic micropollutant removal and wastewater reuse. *XENOWAC II*, Limassol, Chypre, 10 – 12 octobre 2018.
  16. NEVES DO PRADO L. , GARCIA S., ANDRÉS-DOMENECH P. The Stick and the Carrot: Explaining the decision to participate in the Water Producer Programme (Brazil). *WCERE 2018 – 6th World Congress of Environmental and Resource Economists*, Gothenburg, Suède. 25 -29 juin 2018
  17. OLIGER C., ALLEN J., BACHELET Q., BEAUSSART A., DANGER M., DELUS C., EL-KIRAT-CHATEL S., FRANÇOIS D., FELTEN V., LAVIALE M. Multi-scale study of the potential of phototrophic biofilm as functional indicators in agricultural areas: from catchment basin to micro-habitat., *SFE 2018*, Rennes, 22-25 octobre 2018
  18. OLIGER C., ALLEN J., BACHELET Q., BEAUSSART A., DANGER M., DELUS C., EL-KIRAT-CHATEL S., FRANÇOIS D., FELTEN V., LAVIALE M. Etude multi-échelle du potentiel indicateur des biofilms phototrophes en zones agricoles : du bassin versant au micro-habitat. *ADLaF 2018* Meise, Belgique, 11-14 septembre 2018
  19. OGORZALY L., MARTÍNEZ-CARRERAS N., WALCZAK C., HISSLER C., CAUCHIE H.-M. Two-year monitoring of F-specific RNA PHAGES IN ORNE RIVER (FRANCE). *ISFEV*, TEMPE, ARIZONA, 7-10 OCTOBRE 2018
  20. PONS M.N. PETITCOLAS K., LEMAITRE C., PRADALIER C., GUILLOTEAU H., MERLIN C. Identifying the range of sub-inhibitory concentrations of antibiotics triggering bacterial functions of relevant interest, *XENOWAC II*, Limassol, Chypre, 10 – 12 octobre 2018

### Communications dans des colloques nationaux

1. DUROZIER M., JOST G., ESSER D., POCHEC C., STUPKA C., M.N. PONS. Mise en œuvre d'une Zone Humide Artificielle pour le traitement de finition des eaux traitées de Grand Reims. *97ème Congrès de l'ASTEE*, Marseille, 3-8 juin 2018
2. ETIENNE S., VARIOT M., PY J.S., GASSILLOUD B. Caractérisation et identification des *Escherichia coli* producteur de Shiga-toxine (STEC) par MALDI-TOF. *Journées Information Eaux*, Poitiers, 9 - 11 octobre 2018.
3. ETIENNE S., COUTURIER L., PEYROT L., MARCELINO I., TALARMIN A., GASSILLOUD B., CHESNOT T. Détection / quantification des amibes du genre *Naegleria* dans les eaux de loisirs. *Journées Information Eaux*, Poitiers, 9 - 11 octobre 2018.
4. MUNOZ J.F. Bilans sanitaires de l'exposition aux produits phytosanitaires par les eaux du robinet. *Conseil scientifique Agence de l'Eau Rhin-Meuse*, Moulins-lès-Metz, 15 mars 2018
5. MUNOZ J.F. Les phytosanitaires dans l'eau : mythe ou réalité ? *Journées scientifiques de la Zone Atelier Moselle*, Reims, 23-24 mai 2018.

6. PEDEN R., SOHM B., POTET M., LOUIS F., FLAYAC J., POUPIN P., KLOPP C., GIAMBERINI L., PAIN-DEVIN S., DEVIN S. Etude multi-sites du transcriptome de dreissenidées : quels motifs de réponses ? *Congrès de la Société d'Ecotoxicologie Fondamentale et Appliquée*, Montpellier, 27-28 juin 2018
7. POTET M., GIAMBERINI L., LOUIS F., PAIN-DEVIN S., DEVIN S. Variabilité spatio-temporelle des biomarqueurs et biomonitoring passif : l'impossible mariage ? *Congrès de la Société d'Ecotoxicologie Fondamentale et Appliquée*, Montpellier, 27-28 juin 2018.
8. SEDJI M.I., L. MATHIEU, M. HEBRANT, I. BERTRAND. Propriétés de surface d'adénovirus et cinétiques d'adhésion en présence de biofilm d'eau potable. *Journées Information Eaux*, Poitiers, 9-11 octobre 2018