

## **Publications**

### ***Articles dans revue internationale à comité de lecture (40)***

- 1- Théron A., Moné H. & **Gérard C.**, 1992. Spatial and energy compromise between host and parasite: the *Biomphalaria glabrata* – *Schistosoma mansoni* system. International Journal For Parasitology, 22 (1): 91-94. *IF* = 3.730
- 2- Théron A., **Gérard C.** & Moné H., 1992. Early enhanced growth of the digestive gland of *Biomphalaria glabrata* infected with *Schistosoma mansoni*: side-effect or parasite manipulation. Parasitology Research, 78: 445-450. *IF* = 2.329
- 3- **Gérard C.**, Moné H. & Théron A., 1993. *Schistosoma mansoni* - *Biomphalaria glabrata*: dynamics of sporocyst population as related to the miracidial dose and the host size. Canadian Journal of Zoology, 71: 1880-1885. *IF* = 1.347
- 4- Théron A. & **Gérard C.**, 1994. Development of accessory sexual organs in *Biomphalaria glabrata* as related to infection timing by *Schistosoma mansoni*: consequences on the energy utilization patterns by the parasite. The Journal of Molluscan Studies, 60: 25-31. *IF* = 1.250
- 5- **Gérard C.**, Balzan C. & Théron A., 1995. Spatial distribution patterns of the sporocyst infrapopulation of *Schistosoma mansoni* within its mollusc host (*Biomphalaria glabrata*): an unusual phenotype of aggregation. The Journal of Parasitology, 80(2): 310-312. *IF* = 1.326
- 6- **Gérard C.** & Théron A., 1995. Spatial interaction between parasite and host within the *Biomphalaria glabrata* / *Schistosoma mansoni* system: influence of host size at infection time. Parasite, 2: 345-350. *IF* = 2.545
- 7- **Gérard C.**, 1996. Energy constraint of the parasite (*Schistosoma mansoni*) on the locomotor activity of the host (*Biomphalaria glabrata* ). Canadian Journal of Zoology, 74: 594-598. *IF* = 1.347
- 8- **Gérard C.** & Théron A., 1996. Altered nutrition and assimilation of the snail host (*Biomphalaria glabrata*) as a consequence of the parasitic spatial constraint (*Schistosoma mansoni*). Acta Tropica, 61: 51-55. *IF* = 2.218
- 9- **Gérard C.**, 1997. Importance du parasitisme dans la communauté de Gastéropodes de l'étang de Combourg (Bretagne, France). Parasite, 4: 49-54. *IF* = 2.545
- 10- **Gérard C.** & Théron A., 1997. Phenotypic plasticity of the host response to parasite infection: age/size and time specific effects of *Schistosoma mansoni* on energy allocation pattern of its snail host *Biomphalaria glabrata*. Oecologia, 112: 447-452. *IF* = 3.130
- 11- **Gérard C.**, 2000. Dynamics and structure of a benthic macroinvertebrate community in a lake after drought. Journal of freshwater Ecology, 15(1): 65-69. *IF* = 0.942
- 12- **Gérard C.**, 2001. Consequences of a drought on freshwater gastropod and trematode communities. Hydrobiologia, 459: 9-18. *IF* = 2.051
- 13- Blanc A. & **Gérard C.**, 2001. Etude préliminaire de la malacofaune de deux hydrosystèmes interconnectés dans une zone humide. Annales de Limnologie - International Journal of Limnology, 37(4): 277-280. *IF* = 1.161
- 14- **Gérard C.**, 2001. Structure and temporal variation of trematode and gastropod communities in a freshwater ecosystem. Parasite, 8: 275-287. *IF* = 2.545
- 15- **Gérard C.**, Blanc A. & Costil K., 2003. *Potamopyrgus antipodarum* (Mollusca: Hydrobiidae) in continental aquatic gastropod communities: impact of salinity on trematode parasitism. Hydrobiologia, 493: 167-172. *IF* = 2.051
- 16- **Gérard C.** & Le Lannic J., 2003. Establishment of a new host-parasite association between the introduced invasive species *Potamopyrgus antipodarum* (Smith) (Gastropoda) and *Sanguinicola* sp. Plehn (Trematoda) in Europe. J. Zool. Lond., 261: 213-216. *IF* = 2.186

- 17- **Gérard C.**, 2004. First occurrence of Schistosomatidae infecting *Aplexa hypnorum* (Gastropoda: Physidae) in France. *Parasite*, 11: 231-234. *IF* = 2.545
- 18- **Gérard C.** & Poullain V., 2005. Variation in the response of the invasive species *Potamopyrgus antipodarum* (Smith) to natural (cyanobacterial toxin) and anthropogenic (herbicide atrazine) stressors. *Environmental Pollution*, 138: 28-33. *IF* = 5.009
- 19- **Gérard C.**, Brient L. & Le Rouzic B., 2005. Variation in the response of juvenile and adult gastropods (*Lymnaea stagnalis*) to cyanobacterial toxin (microcystin-LR). *Environmental Toxicology*, 20(6): 592-596. *IF* = 2.937
- 20- Lance E., Brient L., Bormans M. & **Gérard C.**, 2006. Interactions between cyanobacteria and gastropoda. I. Ingestion of toxic *Planktothrix agardhii* by *Lymnaea stagnalis* and kinetics of microcystin bioaccumulation and detoxification. *Aquatic Toxicology*, 79: 140-148. *IF* = 4.129
- 21- Lance E., Paty C., Bormans M., Brient L. & **Gérard C.**, 2007. Interactions between cyanobacteria and gastropoda. II. Impact of toxic *Planktothrix agardhii* on the life-history traits of *Lymnaea stagnalis*. *Aquatic Toxicology*, 81: 389-396. *IF* = 4.129
- 22- Acou A., Robinet T., Lance E., **Gérard C.**, Mounaix B., Brient L., Le Rouzic B. & Feunteun E., 2008. Evidence of silver eels contamination by microcystin-LR at the onset of their seaward migration: what consequences for breeding potential? *Journal of Fish Biology*, 72: 753-762. *IF* = 1.519
- 23- **Gérard C.**, Carpentier A. & Paillisson J.-M., 2008. Long-term dynamics and community structure of freshwater gastropods exposed to parasitism and other environmental stressors. *Freshwater Biology*, 53(1): 1-21. *IF* = 3.255
- 24- Lance E., Bugajny E., Bormans M. & **Gérard C.**, 2008. Consumption of toxic cyanobacteria by *Potamopyrgus antipodarum* (Gastropoda, Prosobranchia) and consequences on life traits and microcystin bioaccumulation. *Harmful Algae*, 7: 464-472. *IF* = 3.087
- 25- **Gérard C.**, Poullain V., Lance E., Acou A., Brient L. & Carpentier A., 2009. Influence of toxic cyanobacteria on community structure and microcystin accumulation of freshwater molluscs. *Environmental Pollution*, 157: 609-617. *IF* = 5.009
- 26- Lance E., Josso C., Paty C., Senger F., Ernst B., Dietrich D., Bormans M. & **Gérard C.**, 2010a. Histopathology and microcystin distribution in *Lymnaea stagnalis* (Gastropoda) following toxic cyanobacteria or dissolved microcystin-LR exposure. *Aquatic Toxicology*, 98(3):211-2. *IF* = 4.129
- 27- Lance E., Neffling M.-R., **Gérard C.**, Meriluoto J. & Bormans M., 2010b. Accumulation of free and covalently bound microcystins in tissues of *Lymnaea stagnalis* (Gastropoda) following toxic cyanobacteria or dissolved microcystin-LR exposure. *Environmental Pollution*, 158(3): 674-680. *IF* = 5.099
- 28- Lance E., Brient L., Carpentier A., Acou A., Marion L., Bormans M. & **Gérard C.**, 2010c. Impact of toxic cyanobacteria on gastropods and microcystin accumulation in a eutrophic lake (Grand-Lieu, France) with special reference to *Physa* (= *Physella*) *acuta*. *The Science of the Total Environment*, 408(17): 3560-3568. *IF* = 4.900
- 29- Lance E., Alonzo F., Tanguy M., **Gérard C.** & Bormans M., 2011. Impact of microcystin-producing cyanobacteria on reproductive success of *Lymnaea stagnalis* (Gastropoda, Pulmonata) and predicted consequences at the population level. *Ecotoxicology*, 20(4):719-730. *IF* = 3.510
- 30- **Gérard C.**, Amilhat E., Trancart T., Faliex E., Virag L., Feunteun E. & Acou A., 2013. Influence of introduced vs native parasites on the body condition of migrant silver eels. *Parasite*, 20(38), 10 pages. DOI 10.1051/parasite/2013040. *IF* = 2.545

- 31- Lance E., Petit A., Sanchez W., Paty C., **Gérard C.** & Bormans M., 2014. Evidence of trophic transfer of microcystins from the gastropod *Lymnaea stagnalis* to the fish *Gasterosteus aculeatus*. *Harmful Algae*, 31: 9-17. DOI: 10.1016/j.hal.2013.09.006. *IF* = 3.087
- 32- **Gérard C.**, Verrez-Bagnis V., Jérôme M. & Lasne E., 2015. *Petromyzon marinus* (Petromyzontidae), an unusual host for helminth parasites in Western Europe. *Diseases of Aquatic Organisms*, 113: 263-267. DOI: 10.3354/dao02842. *IF* = 1.770
- 33- Sulmon C.\*, van Baaren J., Cabello-Hurtado F., Gouesbet G., Hennion F., Mony C., Renault D., Bormans M., El Amrani A., Wiegand C. & **Gérard C.\***, 2015 (\*these authors contributed equally to this study). Abiotic stressors and stress responses: what commonalities appear between species across biological organization levels? *Environmental Pollution*, 202: 66-77. *IF* = 5.099
- 34- Dessier A., Dupuy C., Trancart T., Audras A., Bustamante P. & **Gérard C.**, 2015. Low diversity of helminth parasites in *Sardina pilchardus* and *Engraulis encrasicolus* (Clupeidae) from the Bay of Biscay. *Marine and Freshwater Research*, 67(10): 1583-1588. DOI: <http://dx.doi.org/10.1071/MF15147>. *IF* = 1.757
- 35- **Gérard C.**, Hervé M., Réveillac E. & Acou A., 2016. Spatial distribution and impact of the gill-parasitic *Mazocraes alosae* (Herman, 1782) (Monogenea Polyopisthocotylea) on *Alosa alosa* (Linnaeus, 1758) and *Alosa fallax* (Lacépède, 1803) (Clupeidae). *Hydrobiologia*. 763(1): 371-379. DOI: 10.1007/s10750-015-2391-1. *IF* = 2.051
- 36- Lance E., Desprat J., Holbech B. F., **Gérard C.**, Bormans M., Lawton L. A., Edwards C. & Wiegand C., 2016. Accumulation and detoxication responses of the gastropod *Lymnaea stagnalis* to single and combined exposures to natural (cyanobacteria) and anthropogenic (the herbicide RoundUp® Flash) stressors. *Aquatic Toxicology*, 177: 116-124. *IF* = 4.129
- 37- **Gérard C.**, Miura O., Lorda J., Cribb T. H., Nolan M. J. & Hechinger R. F., 2017. A native-range source for a persistent trematode parasite of the exotic New Zealand mudsnail (*Potamopyrgus antipodarum*) in France. *Hydrobiologia*, 785(1): 115-126, DOI: 10.1007/s10750-016-2910-8. *IF* = 2.051
- 38- **Gérard C.**, Hervé M., Gay M., Bourgau O., Feunteun E., Acou A. & Réveillac E., 2017. Metazoan parasite communities in *Alosa alosa* (Linnaeus, 1758) and *Alosa fallax* (Lacépède, 1803) (Clupeidae) from North-East Atlantic coastal waters and connected rivers. *Parasitology Research*, 116: 2211-2230, DOI: 10.1007/s00436-017-5525-8. *IF* = 2.329
- 39- **Gérard C.**, Hervé M. & Hechinger R. F., 2018. Long-term population fluctuations of the exotic New Zealand mudsnail *Potamopyrgus antipodarum* and its introduced aporocotylid trematode in northwestern France. *Hydrobiologia*, 817(1): 253-266, DOI: 10.1007/s10750-017-3406-x. *IF* = 2.051
- 40- **Gérard C.** & Lance E., 2019. Decline of freshwater gastropods exposed to recurrent interacting stressors implying cyanobacteria proliferations and droughts. *Aquatic Ecology*, in press. *IF* = 1.978

• **Publications dans des actes de colloques internationaux à comité de lecture (2)**

- 1- **Gérard C.**, 1998. Trematodes as potential regulators in a community of freshwater gastropods. *International Proceedings Division (IX International Congress of Parasitology)*, Monduzzi Editore: 705-709.

2- **Gérard C.** & Dussart G. B. J., 2003. Invader and invaded - colonization by, and of, *Potamopyrgus antipodarum* Gray (Mollusca, Hydrobiidae). BCPC Symposium Proceedings NO. 80: Slugs & Snails: Agricultural, Veterinary & Environmental Perspectives, 281-286.

• **Communications dans des congrès internationaux (17)**

1- **Gérard C.**, Moné H., Combes C. & Théron A., 1991. Spatial and energetic compromise within the mollusc-parasite system: *Biomphalaria glabrata* – *Schistosoma mansoni*. "Molluscs in Parasite Life Cycles", by The British Society for Parasitology and The Malacological Society of London (Liverpool, Angleterre, 3/04/1991-5/04/1991).

2- **Gérard C.**, Daguzan J. & Théron A., 1995. *Biomphalaria glabrata* (Pulmonata) : a restricted environment as limiting resources for *Schistosoma mansoni*, *Schistosoma rodhaini* and *Ribeiroia marini* (Trematoda). XII<sup>th</sup> International Congress of Malacology (Vigo, Espagne, 5/09/1995-8/09/1995).

3- **Gérard C.**, 1998. Trematodes as potential regulators in a community of freshwater Gastropods. IX<sup>th</sup> International Congress of Parasitology (Chiba, Japon, 24/08/1998-28/08/1998).

4- **Gérard C.** & Dussart G. B. J., 2003. Invader and invaded - colonization by, and of, *Potamopyrgus antipodarum* Gray (Mollusca, Hydrobiidae). BCPC Symposium Proceedings NO. 80: Slugs & Snails: Agricultural, Veterinary & Environmental Perspectives (Canterbury, UK, 8/09/03-9/09/03).

5- Lance E., Brient L., Bormans M. & **Gérard C.**, 2006. Response of juvenile and adult gastropods (*Lymnaea stagnalis* and *Potamopyrgus antipodarum*) to toxic cyanobacterial cell ingestion: microcystin bioaccumulation and impact on life-traits. RESLIM, Cyanobacterial water blooms workshop (Brno, République Tchèque, 1/09/06-2/09/06).

6- Lance E., Brient L., Bormans M. & **Gérard C.**, 2007. Variation in the response of pulmonates and prosobranch gastropods to ingestion of toxic cyanobacteria. VII<sup>th</sup> International Congress on Toxic Cyanobacteria (Rio de Janeiro, Brésil, 5/08/07-10/08/07).

7- Lance E., Petit A., Sanchez W., Bormans M. & **Gérard C.**, 2010. Trophic transfer of microcystines from *Lymnaea stagnalis* (Gastropoda Pulmonata) to *Gasterosteus aculeatus* (Teleostei Gasterosteidae) and impact on the fish. Society of Environmental Toxicology and Chemistry (SETAC), 20th annual meeting of SETAC Europe (Séville, Espagne, 23/05/2010-27/05/2010).

8- **Gérard C.**, 2010. Trematode parasitism in European introduced populations of the New Zealand mud snail *Potamopyrgus antipodarum*. Forum on the New Zealand Mud Snail organized by Danuta Bennett (Marine Science Institute, University of California), <http://rivrlab.msi.ucsb.edu/NZMS/forum> (August-October 2010).

9- Lance E., Petit A., Sanchez W., Bormans M. & **Gérard C.**, 2011. Trophic transfer of microcystins from *Lymnaea stagnalis* (Gastropoda Pulmonata) to *Gasterosteus aculeatus* (Teleostei Gasterosteidae) and impact on the fish. Society of Environmental Toxicology and Chemistry (SETAC), 21st annual meeting of SETAC Europe, Milan, Italy, 15/05/2011-19/05/2011.

10- Lance E., Desprat J., Bormans M., **Gérard C.** & Wiegand C., 2012. Acclimatisation strategies in gastropods to environmental pollutants: response of *Lymnaea stagnalis* to toxic cyanobacteria and pesticide exposure. Society of Environmental Toxicology and Chemistry (SETAC), 22nd annual meeting of SETAC Europe, Berlin, Germany, 20/05/2012-24/05/2012.

11- **Gérard C.**, Carpentier A. & Paillisson J.-M., 2012. Responses of a freshwater gastropod community to environmental perturbations: a long-term study in the Combours Lake.



International Workshop “Genericity of responses and adaptation strategies to multiple stresses in organisms of aquatic and terrestrial ecosystems” (Paimpont, 21/11/2012-23/11/2012).

12- Lance E., Bormans M., **Gérard C.** & Wiegand C., 2012. Acclimatisation strategies in gastropods to environmental pollutants: comparison of a strong invasive to a declining endogenous species. International Workshop “Genericity of responses and adaptation strategies to multiple stresses in organisms of aquatic and terrestrial ecosystems” (Paimpont, France, 21/11/2012-23/11/2012).

13- Lance E., Bormans M., **Gérard C.** & Wiegand C., 2013. Acclimatisation strategies in gastropods to environmental pollutants: mixture toxicity of a pesticide and cyanobacterial toxins. 9<sup>th</sup> International Conference on Toxic Cyanobacteria (South Africa, 11/08/2013-16/08/2013).

14- **Gérard C.**, Amilhat E., Trancart T., Faliex E., Virag L., Feunteun E. & Acou A., 2014. Acute loss of European silver eel fitness by introduced (*vs* native) parasitic helminths threatening spawning success. International Eel Symposium 2014 – 144<sup>th</sup> Annual Meeting of the American Fisheries Society (Québec, Canada, 17-21/08/2014).

15- Dessier A., Dupuy C., Trancart T., Audras A., Bustamante P. & **Gérard C.**, 2015. Are the communities of metazoan parasites in *Sardina pilchardus* and *Engraulis encrasicolus* (Clupeidae) indicators of feeding ecology and free-living biodiversity in the Bay of Biscay? Aquatic Sciences Meeting, organized by the Association for the Sciences of Limnology & Oceanography (Granada, Spain, 22-27/02/2015).

16- **Gérard C.**, Verrez-Bagnis V., Jérôme M. & Lasne E., 2016. A literature review of helminth parasites in the sea lamprey *Petromyzon marinus* (Petromyzontidae), with a field-study in postmetamorphics from French rivers and coastal waters. The 12th European Multicolloquium of Parasitology - EMOP XII (Turku, Finland, 20-24/07/2016).

17- **Gérard C.**, 2017. Parasitism of the exotic mudsnail *Potamopyrgus antipodarum* (Gray, 1843) (Mollusca: Caenogastropoda: Tateidae) in the Mont-Saint-Michel Bay (France). 8<sup>th</sup> European Congress of Malacological Societies – EuroMal (Kraków, Poland 10-14/09/2017).

- **Communications dans des congrès nationaux (13)**

1- **Gérard C.**, 1998. Biodiversité des associations Gastéropodes-Trématodes dans l'étang de Combourg. Congrès de la Société Française de Parasitologie (Rennes, 10/06/1998-11/06/1998).

2- Costil K., Rybarzyk H., Bouchy L. & **Gérard C.**, 1999. Le chenal de la Seine est-il azoïque ? Colloque "L'estuaire de la Seine : fonctionnement et perspectives" (Rouen, 17/11/1999-19/11/1999).

3- **Gérard C.**, 2000. Conséquences de la sécheresse sur les communautés de Gastéropodes et de Trématodes dulcicoles. Journées d'Ecologie Fonctionnelle (La Londe-les-Maures, 7/03/2000-10/03/2000).

4- Blanc A. & **Gérard C.**, 2001. Etude préliminaire des communautés de mollusques dulcicoles dans un écosystème menacé par la pollution. Congrès de la Société Française de Malacologie (Caen, 1/07/2001-4/07/2001).

5- **Gérard C.**, 2002. *Trichobilharzia* sp. in *Aplexa hypnorum*: a new species or not? Journée de la Société Française de Parasitologie (Paris, 13/12/2002).

6- Poullain V. & **Gérard C.**, 2004. Response of *Potamopyrgus antipodarum* (Gastropoda, Prosobranchia) to microcystin-LR (cyanobacterial toxin) according to its age: impact on life-traits and locomotion. 47<sup>ème</sup> Congrès de l'Association Française de Limnologie (Besançon, 5/07/2004-8/07/2004).

- 7- **Gérard C.**, 2005. Rôle du parasitisme dans les invasions aquatiques : l'exemple de *Potamopyrgus antipodarum* (Gastéropode Prosobranche). Colloque-débat « Invasions Biologiques et Traits d'Histoire de Vie : de l'approche descriptive à l'approche prédictive » (Rennes, 30/06/2005-1/07/2005).
- 8- Edery M., Bernard C., Quiblier C., Yéprémian C.,... Brient L. Lance E., & **Gérard C.**, 2005. Genèse et effets toxiques des microcystines des plans d'eau anthropisés. ECCODYN (Toulouse, 5/12/2005-7/12/2005).
- 9- Lance E., Brient L., Bormans M. & **Gérard C.**, 2006. Impact des microcystines sur un mollusque gastéropode et risques de transfert dans le réseau trophique. GIS (Groupe d'Intérêt Scientifique) Cyanobactéries (Cussac, Limousin, 31/01/2006-2/02/2006).
- 10- Lance E., **Gérard C.**, Brient L. & Bormans M., 2007. Réponses des gastéropodes pulmonés et prosobranches aux cyanobactéries et à leurs toxines : accumulation et impact sur les traits de Vie. GIS Cyanobactéries (Paris, 29/01/2007-1/02/2007).
- 11- Lance E., Nieffling M. R., Ernst B., Brient L., **Gérard C.**, Meriluoto J., Dietrich D. & Bormans M., 2008. Localisation et dosage des microcystines libres et liées dans les tissus d'un gastéropode d'eau douce. GIS (Groupe d'Intérêt Scientifique) Cyanobactéries (St-Malo, 28/01/2007-30/01/2008).
- 12- Lance E., Brient L., Bormans M. & **Gérard C.**, 2008. Variation dans les réponses de deux gastéropodes dulcicoles, (Pulmoné) et (Prosobranche), à l'ingestion de cyanobactéries toxiques. Colloque ASPS Impact des organismes pathogènes et des micropolluants sur l'état de santé des poissons, mollusques et crustacés des milieux naturels : de l'individu au peuplement (Centre Ifremer de Nantes, 11/03/2008-12/03/2008).
- 13- Lance E., **Gérard C.**, Brient L. & Bormans M., 2011. Transfert trophique de cyanotoxines entre le gastéropode *Lymnaea stagnalis* et le poisson *Gasterosteus aculeatus*. GIS cyanobactéries (Clermont-Ferrand, 31/01/2011-02/02/2011).