

## Chantal De Ridder – List of publications

### Publications - Articles in scientific journals

#### 2016

- De Bruyn C., B. David, S. Motreuil, G. Caulier, Q. Jossart, T. Rigaud, **C. De Ridder 2016**. Should I stay or should I go? Causes and dynamics of host desertion by a parasitic crab living on echinoids. *Marine Ecology Progress Series* 546: 163–171, doi: 10.3354/meps11616
- L. N. Michel, Bruno David, Ph. Dubois, G. Lepoint, **C. De Ridder 2016**. Trophic plasticity of Antarctic echinoids under contrasted environmental conditions. *Polar Biology* 39:913–923. DOI 10.1007/s00300-015-1873-y
- B. David, T. Saucède, A. Chenuil, E. Steimetz, **C. De Ridder 2016**. The taxonomic challenge posed by the Antarctic echinoids *Abatus bidens* and *Abatus cavernosus* (Schizasteridae, Echinoidea). *Polar Biology* 39 : 897-912. DOI 10.1007/s00300-015-1842-5
- Gutt J., M. C. Alvaro, A. Barco • A. Böhmer, A. Bracher, B. David, **C. De Ridder**, B. Dorschel, M. Eléaume, D. Janussen, D. Kersken, P. J. Lopez-González, I. Martinez-Baraldés, M. Schröder, A. Segelken-Voigt, N. Teixido **2016**. Macroepibenthic communities at the tip of the Antarctic Peninsula, an ecological survey at different spatial scales. *Polar Biology* 39:829–849. DOI: 10.1007/s00300-015-1797-6

#### 2015 – 2011

- Collard M., **C. De Ridder**, B. David, F. Dehairs, and P. Dubois. **2015**. Could the acid-base status of Antarctic sea-urchins indicate a better-than-expected resilience to near-future ocean acidification ? *Climate Change Biology* 21 : 605-617, doi : 10.1111/geb.12735.
- Jossart Q., R.A. Wattier, C. Kastally, S. Aron, B. David, **C. De Ridder**, T. Rigaud. **2014**. Genetic evidence confirms polygynandrous mating system in a crustacean parasite with multiple hosts. *PlosOne* 9 (3) : e90680. doi:10.1371/journal.pone.0090680
- Q. Jossart, B. David, C. De Bruyn, **C. De Ridder**, T. Rigaud, R. A. Wattier **2013**. No evidence for host specialization in a parasitic crab exploiting two echinoid hosts. *Marine Ecology Progress Series* - 475: 167–176, doi: 10.3354/meps10131
- Kaiser S., S. N. Brandao, S. Brix, D.K. A. Barnes, D. A. Bowden, J. Ingels, F. Leese, S. Schiaparelli, C.P. Arango, R. Badhe, N. Bax, M. Blazewicz-Paszkowycz, A. Brandt, N. Brenke, A. I. Catarino, B. David, **C. De Ridder**, P. Dubois, K. E. Ellingsen, A. G. Glover, H. J. Griffiths, J. Gutt, K. M. Halanych, C. Havermans, C. Held, D. Janussen, A.-N. Lörz, D. A. Pearce, B. Pierrat, T. Riehl, A. Rose, C.J. Sands, A. Soler-Membrives, M. Schüller, J. M. Strugnell, A. Vanreusel, G. Veit-Köhler, N. G. Wilson, M. Yasuhara **2013**. Patterns, processes and vulnerability of Southern Ocean benthos: a decadal leap in knowledge and understanding. Review, Concept and Synthesis - *Mar Biol* 160:2295–2317 DOI 10.1007/s00227-013-2232-6
- Lecointre, G., Ameziane, N., Boisselier, M.C., Bonillo, C., Busson, F., Causse, R., Chenuil, A., Couloux, A., Coutanceau, J.P., Cruaud, C., d’Udekem d’Acoz, **C., De Ridder**, C., Denys, G., Dettai, A., Duhamel, G., Eléaume, M., Féral, J.P., Gallut, C., Havermans, C., Held, C., Hemery, L., Lautredou, A.C., Martin, P., ozouf-Costaz, C., Pierrat B., Pruvost, P., Puillandre, N., Samadi, S., Saucède, T., Schubart, C., and B. David. **2013**. Is the Species Flock Concept Operational? The Antarctic Shelf Case. *PLoS ONE* 8(8): e68787. doi:10.1371/journal.pone.0068787.
- **De Ridder C.**, Ph. Dubois, I. George, B. Danis, B. David & T. Saucède, **2013**. Benthos op het continentale plat van de Zuidelijke IJszee bij wisselende ijsomstandigheden. Maatstaf voor de gevolgen van klimaatverandering: bijdrage van Echinoidea. *Science connection – Antarctica* 41: 34-36
- Catarino A.I., V. Guibourt, C. Moureaux, **C. De Ridder**, Ph. Compère, and Ph. Dubois. **2013** Antarctic urchin *Ctenocardis speciosa* spines: lessons from the deep. *Cah. Biol. Mar.* 54:649-655
- Rolet G., Ziegler A. & **C. De Ridder 2012**. Presence of a seawater-filled caecum in *Echinocardium cordatum* (Echinoidea: Spatangoida). *J. Mar. Biol. Ass. UK*, 92(2), 379 – 385. doi:10.1017/S0025315411001433
- Rolet G. & **C. De Ridder 2012**. Transfer and incorporation of D-glucose across the wall of the gastric caecum, the stomach and the intestine of the echinoid *Echinocardium cordatum*. *Cah. Biol. Mar.* 53 : 533-539.
- Ingels J., Vanreusel A., Brandt A., Catarino Ana I., David B., **De Ridder C.**, Dubois Ph., Gooday A.J., Martin P., Pasotti F., Robert H. **2012**. Possible effects of global environmental changes on Antarctic benthos: a synthesis across five major taxa. *Ecology and Evolution* 2 (2) : 453–485. OI: 10.1002/ece3.96

- Pierrat, B., T. Saucède, R. Laffont, **C. De Ridder**, A. Festeau, B. David. **2012**. Large-scale distribution analysis of Antarctic echinoids using ecological niche modelling. *Marine Ecology Progress Series* - **463** (2012) 215-230.
- C. De Bruyn, **C. De Ridder**, T. Rigaud and B. David. **2011**. Chemical host detection and differential attraction in a parasitic pea crab infecting two echinoids. *J. Exp. Mar. Biol. Ecol.* 397 : 173-178. Doi:10.1016/j.jembe.2010.12.005
- Hardy C., David B., Rigaud T., **De Ridder C.** & Saucède T. **2011**. Ectosymbiosis associated with cidaroids (Echinodermata: Echinoidea) promotes benthic colonization of the seafloor in the Larsen embayments, western Antarctica. *Deep-Sea Research Part II.* 58 : 84-90 DOI 10.1016/j.dsr2.2010.05.025.
- Catarino, A.I., **De Ridder, C.**, Gonzalez, M., Gallardo, P., Dubois, P. **2011**. Sea urchin *Arbacia dufresnei* (Blainville 1825) larvae response to ocean acidification. *Polar Biology* 35 : 455-461. DOI 10.1007/s00300-011-1074-2.
- De Broyer C., B. Danis, with 64 SCAR-MarBIN Taxonomic Editors. **2011**. How many species in the Southern Ocean? Towards a dynamic inventory of the Antarctic marine species. *Deep-Sea Research II* 58 (2011) 5-17.

### 2010 - 2006

- Ziegler, A., R. Mooi, G. Rolet & **C. De Ridder** **2010**. Origin and evolutionary plasticity of the gastric caecum in sea urchins (Echinodermata: Echinoidea). *BMC Evolutionary Biology* 2010, **10**:313 doi:10.1186/1471-2148-10-313.
- De Bruyn C, David B, **De Ridder C** and Rigaud T. **2010** Asymmetric exploitation of two echinoid host species by a parasitic pea-crab and its consequences on the parasite life-cycle. *Mar. Ecol. Prog. Ser.* **398**, 183-191
- De Bruyn C, Gaillard M, Dubreuil C, **De Ridder C**, David B, Rigaud T and Wattier R. **2010**. Isolation and characterization of 15 microsatellite loci from the pea crab *Dissodactylus primitivus* (Decapoda; Pinnotheridae). *Molecular Ecology Resources Database*: 576-579.
- De Bruyn C., T. Rigaud, B. David & **C. De Ridder**, **2009**. Symbiosis between the crab *Dissodactylus primitivus* and its echinoid host *Meoma ventricosa*: potential consequences for the crab mating system. *Mar. Ecol. Prog. Ser* 375: 173-183
- David, B., S.R. Stuart, F. De Carlo, V. Hétériér & **C. De Ridder** **2009**. Microstructures of Antarctic echinoids spines: diversity of shapes and ectosymbionts attachments. *Mar. Biol.* 156:1559-1572.
- Becker, P. T., S. Samadi, M. Zbinden, C. Hoyoux, P. Compère & **C. De Ridder** **2009**. First insights into the gut microflora associated with an echinoid from wood falls environments. *Cah. Biol. Mar.* 50, 343-352.
- Hétériér V., B. David, **C. De Ridder** & T. Rigaud, **2008**. Ectosymbiosis is a critical factor in the local benthic biodiversity of the Antarctic deep sea. *Mar. Ecol. Prog. Ser.* 364: 67-76.
- Gomes da Silva S., D. Gillan, N. Dubilier & **C. De Ridder**, **2006**. Characterization by 16S rRNA gene analysis and *in situ* hybridization of bacteria living in the hindgut of a deposit-feeding echinoid (Echinodermata). *J. Mar. Biol. Ass. U.K.* 86 : 1209-1213.

### 2005 - 2001

- David B, Choné T, Festeau A, Mooi R, **De Ridder C.** **2005**. Biodiversity of Antarctic echinoids: a comprehensive and interactive database. *Sci. Mar.* 69 Suppl. 2: 201-203.
- Gillan, D. Ribesse J., & **De Ridder C.** **2004**. The iron-encrusted microbial community of *Urothoe poseidonis* (Crustacea, Amphipoda). *J. Sea Res.* 52:21-32.
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- Gillan D.C., Ribesse J. & **De Ridder C.** **2004**. The iron-encrusted microbial community of *Urothoe poseidonis* (Crustacea, Amphipoda). *J. Sea Res.* 52 : 21-32.
- Hétériér V., **De Ridder C.**, David B. & T. Rigaud, **2004**. Comparative biodiversity of ectosymbionts in two Antarctic cidaroid echinoids, *Ctenocidarid spinosa* and *Rhynchocidarid triplopora*. In : *Proceedings 11th I.E.C. (Munich 2003), Echinoderms*, Heinzeller & Nebelsicks (eds). A.A. Balkema (Publ.) pp 201-205. [365](#)
- Gomes da Silva S., Fiers F., Eeckhaut I. & **C. De Ridder**, **2004**. Reproductive biology of *Synaptiphilus luteus* and *Allantogynus delamarei*, two symbiotic copepods of holothuroids. In : *Proceedings 11th I.E.C. (Munich 2003), Echinoderms*, Heinzeller & Nebelsicks (eds). A.A. Balkema (Publ.) pp 193-199.

- Gillan D. & **C. De Ridder**, 2001. Accumulation of a ferric mineral in the biofilm of *Montacuta ferruginosa* (Mollusca, Bivalvia). Biomineralization, bio accumulation, and inference of paleoenvironments . *Chem. Geol.* 177 : 371-379.
- Boulvain F., **C. De Ridder**, B. Mamet, A. Pr eat & D. Gillan, 2001. Iron microbial communities in Belgian Frasnian carbonate mounds. *Facies* 44 : 47-60.
- David B., Chon e T., Festeau A. & **C. De Ridder**, 2001. «Antarctic echinoids» ; an interactive database on CDROM. *Proc. Int. Echinoderm Conf. Dunedin 2000*, Mike Barker (eds), Balkema Publ., Rotterdam.

#### 2000 - 1996

- Gillan D.C., Warnau M., De Vrind-de-jong E.W., Boulvain F., Pr eat A. & **C. De Ridder**, 2000. Iron oxidation and deposition in the biofilm covering *Montacuta ferruginosa* (Mollusca, Bivalvia). *Geomorphology Journal* 17 (2) : 1-10.
- Pr eat A., B. Mamet, **C. De Ridder**, F. Boulvain & D. Gillan 2000. Iron bacterial and fungal mats, Bajocian stratotype (Mid-Jurassic, Northern Normandy, France). *Sedimentary Geology* 137 :107-126.
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- Brigmon R.L. & **C. De Ridder**, 1998. Symbiotic relationship of *Thiothrix* spp. with an echinoderm. *Appl. Environm. Microbiol.* 64 (9): 3491-3495.
- Gillan D., A.G.C.L. Speksnijder, G.J.M. Zwart & **C. De Ridder**, 1998. Genetic diversity of the biofilm covering *Montacuta ferruginosa* (Mollusca, Bivalvia) as evaluated by Denaturing Gradient Gel Electrophoresis Analysis and cloning of PCR-amplified gene fragments coding for 16S rDNA. *Appl. Environm. Microbiol.* 64 (9): 3464-3472.
- Gillan D. & **C. De Ridder**, 1997. Morphology of an iron oxide-encrusted biofilm forming on the shell of a burrowing bivalve (mollusca). *Aquat. microb. Ecol.* 12: 1-10.
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#### 1995 - 1991

- Gillan, D. & **C. De Ridder**, 1995. The microbial community associated with *Montacuta ferruginosa*, a commensal bivalve of the echinoid *Echinocardium cordatum*. *Proc. 4th Eur. Echinoderm Conf. London 1995*, R.H. Emson, A.B. Smith & A.C. Campbell (eds), Balkema Publ., Rotterdam: 71-76.
- **De Ridder C.** 1994. Symbioses between spatangoids (Echinoidea) and *Thiothrix*-like bacteria (Beggiatoales). In: *Echinoderms through time; Proc. 8th Int. Echinoderm Conf. Dijon 1993*, David B., Guille A., Feral J.-P. & M. Roux (eds), Balkema Publ., Rotterdam: pp. 619-625.
- **De Ridder C.** & M. Jangoux, 1993. The digestive tract of the spatangoid echinoid *Echinocardium cordatum* (Echinodermata): morphofunctional study. *Acta Zoologica (Stockhom)*, 74 (4): 337-351.
- Temara A., **De Ridder C.**, Kuenen J.G. & L.A. Robertson, 1993. Sulfide-oxidizing bacteria in the burrowing echinoid, *Echinocardium cordatum* (Echinodermata). *Mar. Biol.* 115: 179-185.
- **De Ridder C.**, David B. & A. Larrain, 1992. Antarctic and subantarctic echinoids from "Marion Dufresne" expeditions MD03, MD04, MD08 and from the "Polarstern" expedition EPOS III. *Bull. Mus. natln. Hist. nat., Paris*, ser. 4, 14 A (2): 405-441.
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## 1990 - 1986

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- Jangoux M., **De Ridder C.** & H. Fechter, 1987. Annotated catalogue of recent echinoderm type specimens in the collection of the Zoologische Staatssammlung München. *Spixiana* 10 (3): 295-311.
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## 1985 - 1981

- **De Ridder C.** & M. Jangoux, 1985. Origine des sédiments ingérés et durée du transit digestif chez l'oursin spatangide, *Echinocardium cordatum* (Pennant) (Echinodermata). *Annls Inst. océanogr. Paris* 61 (1): 51-58.
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- **De Ridder C., 1984.** Clypeastéroïdes et spatangoïdes littoraux de Nouvelle-Calédonie (Echinodermata). *Bull. Mus. natn. Hist. nat. Paris* (4) 6 (A3): 617-624.
- Vadon C., **De Ridder C.**, Guille A. & M. Jangoux, **1984.** Catalogue des échinides actuels (échinodermes) du Muséum national d'Histoire naturelle de Paris. *Bull. Mus. natn. Paris* (4) 6 (A1, suppl.): 1-38.
- **De Ridder C., 1982.** Feeding and some aspects of the gut structure in the spatangoid echinoid, *Echinocardium cordatum* (Pennant). *Proc. 4th Intern. Echinoderm Conf. Tampa 1981*, J.M. Lawrence (ed.), Balkema Publ., Rotterdam, pp. 5-9.

### 1980 - 1979

- **De Ridder C., 1980.** Etude des populations de deux espèces de *Veleronia* (Décapoda, Pontoniinae) associées aux Gorgonacea (Cnidaria, Octocorallia) de l'Archipel des Galapagos. *Cah. Biol. mar.* 21: 181-199.
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### Publications - Chapters in Books

- Préat A., J. De Jong, **C. De Ridder** & D. Gillan. **2011.** Possible Fe isotope fractionation during microbiological processing in ancient and modern marine environments. Tewari V.C. (Ed) *Stromatolites : Interaction of microbes with sediments*, Springer Verlag. Series : *Cellular Origin, Life in Extreme Habitats and Astrobiology*, Springer Verlag, DOI 10.1007/978-94-007-0397-1\_29, pp.651-673.
- **De Ridder C.**, David B. & T. Chone. **2005.** History of exploration: 5-17. In: Antarctic echinoidea. Synopses of the Antarctic benthos, vol. 10. David B., Chone T., Mooi R. & De Ridder C. (eds), Koeltz Scientific Books, Königstein. 274pp.
- David B. & **C. De Ridder.** **2005.** Phylogeny and biogeography: 23-29. In: Antarctic echinoidea. Synopses of the Antarctic benthos, vol. 10. David B., Chone T., Mooi R. & De Ridder C. (eds), Koeltz Scientific Books, Königstein. 274pp.
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- **De Ridder C.**, Mooi R. & David B. **2005.** Biology: 64-69. In: Antarctic echinoidea. Synopses of the Antarctic benthos, vol. 10. David B., Chone T., Mooi R. & De Ridder C. (eds), Koeltz Scientific Books, Königstein. 274pp.
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- **De Ridder C. & R.L. Brigmon. 2003.** 13. Farming of microbial mats in the hindgut of echinoids. In : Fossil and recent Biofilms A natural History of Life on Earth. Krumbein WE, Paterson DW, Zavarzin, GA (eds), Kluwer Academic Publishers, Dordrecht: 217-225.
- **De Ridder C. & T. Foret. 2001.** Non-parasitic symbioses between echinoderms and bacteria. In : *Echinoderm Studies*, JM. Lawrence & M. Jangoux (eds), Balkema Publ. Rotterdam, pp. 111-169.
- **De Ridder C. 1996.** *Centrostephanus longispinus* (Philippi, 1845). In: *Background information on invertebrates of the habitats directive and the Bern convention*. Part. III-Mollusca and Echinodermata. Council of Europe, Nature and environment 81: 525-529.
- **De Ridder C., 1986.** Les échinides de Nouvelle-Calédonie. In: *Les Echinodermes de Nouvelle-Calédonie*, A. Guille (éd.), Publ. ORSTOM, pp. 15-53.
- **De Ridder C. & J.M. Lawrence, 1982.** Food and feeding mechanisms in echinoids (Echinodermata). In: *Echinoderm Nutrition*, M. Jangoux & J.M. Lawrence (eds), Balkema Publ. Rotterdam, pp. 57-115.
- **De Ridder C. & M. Jangoux, 1982.** Structure and functions of digestive organs: Echinoidea (Echinodermata). In: *Echinoderm Nutrition*, M. Jangoux & J.M. Lawrence (eds), Balkema Publ. Rotterdam, pp. 213-214.

### Published scientific reports

- Maria Chiara Alvaro · Andrea Barco · Astrid Böhmer · Bruno David · **Chantal De Ridder** · Philippe Dubois · Cedric d'Udekem d'Acoz · Marc Eléaume · Julian Gutt · Dorte Janussen · Daniel Kersken · Pablo López González · Irene Martinez Baraldés · Marie Verheye · Núria Teixidò Ullod, **2013** Macrobenthic community

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