

# BIOGRAPHY

4 July 2012



---

**Title and name**

Prof. Jean-Claude Grégoire

---

---

**Nationality**

Belgian

---

---

**Panel**

PLH

---

---

**Education**

MSc degree in forestry - 1973 (Faculté universitaire des Sciences agronomiques de Gembloux)

Doctoral degree in agricultural sciences - 1986 (Université Libre de Bruxelles)

---

---

**Scientific and risk assessment experience**

Ecology and management of urban and forest pests, among which many species are invasive exotics. Examples: a) intra-areal classical biological control of the scolytine bark beetle, *Dendroctonus micans* in France; b) neoclassical biocontrol of the North American species, *Dendroctonus valens*, in China; c) integrated management and modelling the spread of *Cameraria ohridella* in Europe; d) pest risk assessment for the Siberian Moth, *Dendrolimus superans sibiricus*, in Belgium; e) risk analyses regarding the invasiveness of the Eurasian bark beetle, *Ips typographus*, in North America and in the UK; f) survey of *Monochamus* spp. and pinewood nematode in Belgium.

I have been recently, or still am, involved in several national or international research project on forest health (e.g. the Belgian federal projects Praveg, Forbio, Macroreg and *Monochamus*, the COST actions Bawbilt and Permit, the EU projects Forthreats and Isefor.).

---

---

**Main scientific publications**

Main areas of my publication:

Insect ecology and control, dispersal, chemical ecology, biological invasions, predator-prey relationships.

Meurisse N., Hoch G., Schop A., Battisti A., Grégoire J.-C. 2012. Low temperature tolerance and starvation ability of the oak processionary moth: implications in a context of increasing epidemics. *Agricultural and Forest Entomology*. Online version: DOI: 10.1111/j.1461-9563.2011.00562.x

Kausrud, K., Økland, B., Skarpaas, O., Grégoire, J.-C., Erbilgin, N. and Stenseth, N. C. (2011), Population dynamics in changing environments: the case of an eruptive forest pest species. *Biological Reviews*, 87(1):34-51.

Kausrud K., Grégoire J.-C., Skarpaas O., Erbilgin N., Gilbert, M., Stenseth N.C., Økland, B. (2011) Trees Wanted – Dead or Alive! Host selection and population dynamics in tree-killing bark beetles. *PLOS ONE* 6 (5):e18274. Doi: 10.1371/journal.pone.0018274

Kirichenko N., Flament J., Baranchikov Y., Grégoire J.-C.. (2011). Larval performances, heterogeneous development and life cycle completion of the Siberian moth, *Dendrolimus sibiricus* (Lepidoptera: Lasiocampidae) on potential host plants in Europe: a laboratory study on potted trees. *European Journal of Forest Research*, 130 (6): 1067-1074.

Hautier, L., San Martin, G., Callier, P., de Biseau, J.-C., Grégoire, J.-C. (2011) Alkaloids provide evidence of intraguild predation on native coccinellids by *Harmonia axyridis* in the field. *Biological Invasions*, 13 (8): 1805-1814

Meurisse, N., Couillien, D., Grégoire, J.-C. 2008. Kairomones traps: a tool for monitoring the invasive spruce bark beetle, *Dendroctonus micans* (Coleoptera: Scolytinae) and its specific predator, *Rhizophagus grandis* (Coleoptera: Monotomidae). *Journal of Applied Ecology*, 45: 537–548.

Piel, F., Gilbert, M., De Cannière, C., Grégoire, J.-C. 2008. Coniferous round wood imports from Russia and Baltic countries to Belgium. A pathway analysis for assessing risks of exotic pest insect introductions. *Diversity and Distributions*. 14 (2): 318-328.

Kenis, M., Wermelinger, B. and Grégoire, J.-C. 2004. Research on parasitoids and predators of Scolytidae in living trees in Europe – a review. Pp. 237-290 in Lieutier, F.; Day, K.; Battisti, A.; Grégoire, J.C. & Evans, H. (Eds.) *Bark and Wood Boring Insects in Living Trees in Europe, a Synthesis*. Kluwer, Dordrecht. ISBN 1-4020-2240-9. 583 pp.

Franklin, Anne, Ch. De Cannière and J.-C. Grégoire. 2004. Using sales of infested timber to quantify attacks by bark beetles: testing a cost-effective method for the assessment of population levels. *Annals of Forest Sciences*, 61: 477–480.

Gilbert, M., Nageleisen, L.-M., Franklin, A. & Grégoire, J.-C. 2004. Post-storm surveys reveal large-scale spatial patterns and influences of site factors, forest structure and diversity in endemic bark-beetle populations. *Landscape Ecology*, 20:35-49.