



# Biochemical Ecotoxicology: Principles and Methods

By Francois Gagne

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*Biochemical Ecotoxicology: Principles and Methods* presents practical approaches to biochemical ecotoxicology experiments for environmental protection and conservation.

With its methodical, stepped approach this essential reference introduces readers to current techniques for toxicity endpoint testing, suitable for laboratories of any size and budget. Each chapter presents a state-of-the-art principle, a quick and inexpensive procedure (including appropriate reagents), case studies, and demonstrations on how to analyze your results.

Generic techniques are covered, suitable for a variety of organisms, as well as high-throughput techniques like quantitative polymerase chain reactions and enzyme-linked immunoassays. Cutting-edge approaches, including gPCR arrays and lipidomic techniques, are also included, making this is an essential reference for anyone who needs to assess environmental toxicity.

- Practical, cost-effective approaches to assess environmental toxicity endpoints for all types of organism
- Presents theory, methods, case studies and information on how to analyze results
- State-of-the-art techniques, such as 'omics' approaches to toxicology

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## Biochemical Ecotoxicology: Principles and Methods By Francois Gagne Bibliography

- Sales Rank: #5060457 in Books
- Published on: 2014-07-16
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 7.50" w x .75" l, 1.80 pounds
- Binding: Hardcover
- 282 pages

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## **Editorial Review**

### **Review**

"...this is a useful introductory text for laboratory workers using biochemical techniques in the wide field of Environmental Toxicology, which explains some of the principles involved." --*btsNews*, **December 2014**

## **Users Review**

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