

Ecotoxicology Modeling

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Preface.- Artificial neural network modeling of the environmental fate and ecotoxicity of chemicals.- (Q)SAR models for genotoxicity assessment.- Chemistry based non-animal predictive modeling for skin sensitization.- Interspecies correlations for predicting the acute toxicity of xenobiotics.- Use of multicriteria analysis for selecting ecotoxicity tests.- Physiologically-based toxicokinetic (PBTK) modeling in ecotoxicology.- Earthworms and their use in eco(toxico)logical modeling.- The potential for the use of agent-based models in ecotoxicology.- Ecotoxicological applications of dynamic energy budget theory.- Matrix population models as relevant modeling tools in ecotoxicology.- Bioaccumulation of polar and ionizable compounds in plants.- The evolution and future of environmental fugacity models.- The application of structurally dynamic models in ecology and ecotoxicology.- Index. EAN/ISBN : 9781441901972 Publisher(s): Springer, Berlin, Springer US Format: ePub/PDF Author(s): Devillers, James

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