

Date: 16:15~, 25th July (Thu), 2013

Venue: Lecture Hall

The 9th Leading Special Lecture



Impacts of Medicines in the Natural Environment



Alistair BA Boxall

Professor of Environment Department, University of York, UK

Defra Hazardous Substances Advisory Committee
Chair of the Pharmaceutical Advisory Group of the Society of Environmental Toxicology and Chemistry

The 9th Leading Special Lecture

Impacts of Medicines in the Natural Environment

July 25, 2013, 16:15~17:30

Lecture Hall, Graduate School of Veterinary Medicine,
Hokkaido University, JAPAN

Program

Chairpeson: Prof. Mayumi Ishizuka (Hokkaido Univ, JAPAN)

16:15~17:15

Prof. Alistair B A Boxall (Environment Department, University of York)

17:15~17:30

Discussion

Impacts of Medicines in the Natural Environment

Alistair B A Boxall

Environment Department, University of York, Heslington, York, UK, YO10 5DD

Following use by humans, pharmaceuticals are excreted into the sewage system and can then pass through sewage treatment plants into surface waters. Veterinary pharmaceuticals will be released to soils when manure is applied to land as a fertiliser. As pharmaceuticals are biologically active molecules, in recent years there has been increasing interest from scientists and the general public over the potential impacts of pharmaceuticals on aquatic and terrestrial organisms and on humans that consume drinking water or crops containing pharmaceuticals. In this talk, I will explain how pharmaceuticals move from humans and animals to soils surface waters and drinking water supplies and discuss the implications of presence of pharmaceuticals in the environment for ecological and human health. Solutions to minimise the impacts of pharmaceuticals on the environment and major knowledge gaps will also be presented.

Bio:



Alistair Boxall is Professor in Environmental Science in the Environment Department at University of York. Alistair's research focuses on understanding emerging and future ecological and health risks posed by chemical contaminants in the natural environment. Alistair is a member of the Defra Hazardous Substances

Advisory Committee and is Chair of the Pharmaceutical Advisory Group of the Society of Environmental Toxicology and Chemistry. He regularly advises national and international organisations on issues relating to chemical impacts on the environment and has published extensively on the topic of pharmaceuticals in the environment.

