

PA-17.

무당개구리 (*Bombina orientalis*) 배아의 발생에 제초제
Alachlor과 살충제 Endosulfan이 미치는 영향

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The chloroacetanilide herbicide alachlor and organochlorine insecticide endosulfan are the highly toxic agricultural chemicals. *Bombina orientalis* is one of the most common amphibians in the world and comprises a large proportion of their total number. We examined the embryotoxic and survival effects of alachlor and endosulfan at various concentrations in *B. orientalis* embryos. The survival rates of embryos at 312h post fertilization treated with alachlor and endosulfan were decreased with concentration dependent manner. Also, developmental malformations appeared by alachlor and endosulfan in *B. orientalis* embryos. These results suggested that alachlor and endosulfan were detrimental for survival and development of *B. orientalis* embryos.