

## Scenario of how hexapod ancestors had been driven to exploit terrestrial niches to acquire their wings

# Ryuichiro Machida[1]

[1] Inst. Biol. Sci., Univ. Tsukuba

Hexapoda (Insecta), that account for about 75 percent of all animal species, are the most prosperous animal group on earth, and they may be one of the most interesting groups in illustrating the earth evolution in relation to animal radiation and evolution. Hexapoda have been developing their spectacular diversification exclusively on land, and their terrestrial invasion and wing acquisition which should have promised their further prosperity and radiation are the most interesting and significant subjects for elucidating their phylogenetic development. Here I examine the background for the hexapod ancestors to have invaded terrestrial habitats and aquired wings, referring to the supposed environments of those times or the Paleozoic.