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November 3, 2015

Prof. José Galián
Catedrático de Zoología
Departamento de Zoología y Antropología Física
Universidad de Murcia

Dear Dr. Galián,

It has been my pleasure to review the PhD thesis by Alejandro López López. He conducted molecular phylogenetic analyses of tiger beetles in the genus *Pseudotetracha* in Australia and the genus *Cosmodela* in Asia to reveal their diversification pattern and understand their karyotypic evolution. He obtained sequence data mainly from mitochondrial genes and partly from nuclear genes to infer phylogenetic relationships and divergence times of sample specimens in the two groups. He found several undescribed taxa based on species delimitation methods in DNA taxonomy and estimated geographic differentiation patterns and divergence times. He also showed that the unique karyotype with trivalent sex chromosomes in *Pseudotetracha* is a derived one resulting from an incorporation of autosomes in the sex chromosome system. All of these results are new to science. He is obviously skillful in various experiments and computer analyses of molecular phylogeny, and, importantly, he has published three papers (the contents of three of the four chapters) in international journals. His thesis is excellent and well meets the international standard. Therefore, I would like to suggest that his thesis is worth the degree of PhD with the International mention.

With best regards,

Teiji Sota, Dr.

Professor