First Cytogenetic Study of Green Chromis, *Chromis viridis* (Perciformes, Pomacentridae) by Conventional Staining and Ag-NOR Banding Techniques

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**ABSTRACT**

This work represents the first cytogenetics analysis conducted on the green chromis, *Chromis viridis* (Cuvier, 1830) from Thailand. Mitotic chromosomes were prepared from the anterior kidney. The cell suspensions were harvested by in vivo colchicine treatment. The slides were prepared by conventional air-drying method. Chromosomes were analyzed after the conventional and Ag-NOR staining techniques. The results showed that *C. viridis* has 2n=48 (48t), the fundamental number (NF) was 48 and no heteromorphic sex chromosomes were identificated. NORs were located on subcentomeric region of long arms of the 6\(^{th}\) telocentric chromosome pair.

**Keywords:** Chromosome, Karyotype, Nucleolar organizer region, Damselfishes, Perciformes

**INTRODUCTION**

The family Pomacentridae belongs to order Perciformes which includes the damselfishes and clownfishes (Nelson, 2006). Around 385 species distributed in 28 genera are classified in this family (Allen, 1991, 1997). Pomacentrid fishes are usually found in tropical seas, with only a few species being found in temperate waters. The highest abundance of species is found on coral reefs in the Indo-West-Pacific region. Especially, the greatest concentration of species is found on the area from the Philippines to Australia hosts. The remaining species are found