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## 臺灣北部海岸燕尾光鰓雀鯛與變色雀鯛間同域生殖現象及交互作用

詹榮桂<sup>1</sup>

燕尾光鰓雀鯛(*Chromis fumea*)和變色雀鯛(*Pomacentrus coelestis*)兩種魚類都是底棲性產卵者，不過牠們平時並未在海域中佔據領域。在1986年的生殖季節裡，於臺灣北部海岸附近海域內的一個研究區域，共觀察到2149個燕尾光鰓雀鯛的以及890個變色雀鯛的生殖巢。兩種雀鯛都是產卵時聚集成群的群性產卵者。在調查區內，燕尾光鰓雀鯛的巢分布在四個產卵區，而變色雀鯛則在五個區。其中有兩個產卵區是兩者都利用到的，亦即牠們的產卵區有相重疊的現象。其中1/3的燕尾光鰓雀鯛以及12.1%的變色雀鯛的巢出現在重疊區域內。這兩種雀鯛的巢分別築在不同的基質上：燕尾光鰓雀鯛築在平坦空曠的海底基質(礁石)的上表面，而變色雀鯛則在礁石下挖掘出洞穴並在裡面產卵。當此二種雀鯛同時在同一區域產卵時，之間會發生一些互相干擾的現象：在單純的個體與個體之間的相遭遇間，燕尾光鰓雀鯛(較早築巢產卵)能夠防止競爭者在附近築巢，而在另外一方面，當變色雀鯛成群出現時，燕尾光鰓雀鯛會被迫放棄牠們已建的巢，而變色雀鯛則會從原來燕尾光鰓雀鯛築巢的地點築起巢來。

關鍵詞：築巢基質，雀鯛科，資源分配，生殖季節。

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