

Cytogenetical Study of Coastal Fish in Jo Island, Busan,  
Korea. I. *Parapercis sexfasciata* (Temminck et Schlegel),  
*Sebastiscus marmoratus* (Cuvier) and *Pleuronectes yokohamae*  
(Günther)

In -Seok Park

Division of Ocean Science, College of Ocean Science and Technology,  
Korea Maritime University, Busan 606-791, Korea

Corresponding author: ispark@kmaritime.ac.kr

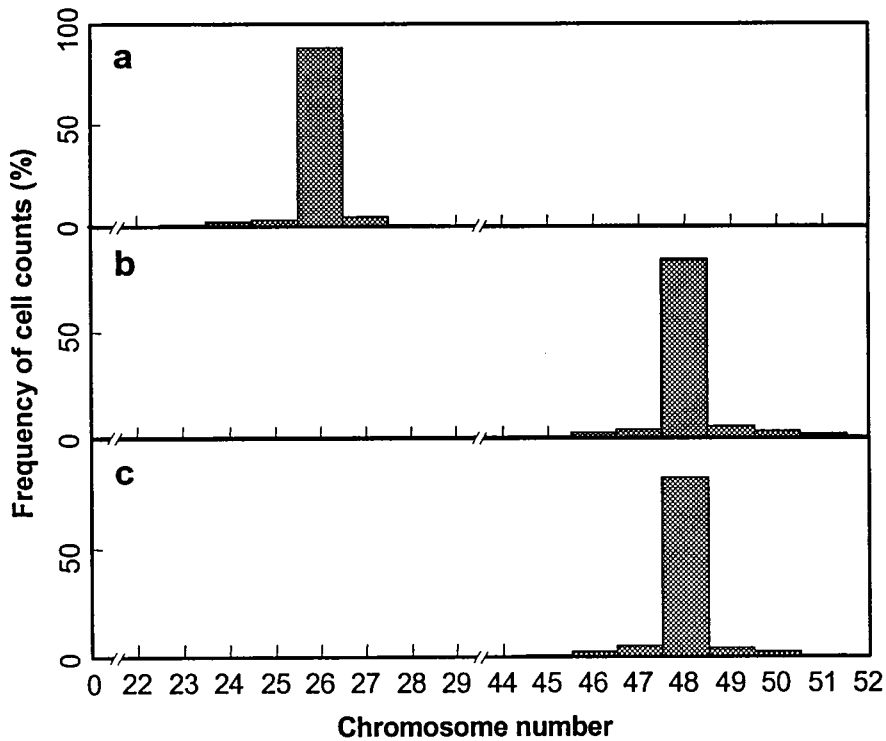
Karyotype analysis and DNA content determination of three species of *Parapercis sexfasciata* (Temminck et Schlegel), *Sebastiscus marmoratus* (Cuvier) and *Pleuronectes yokohamae* (Günther) from coastal area in Jo island, Busan, Korea were performed. The karyotype of *P. sexfasciata* has a diploid number of  $2N=26$  and fundamental number of  $FN=50$  with a chromosome formula of  $20M+2A+2T$ . The karyotype of *S. marmoratus* has a diploid number of  $2N=48$  and fundamental number of  $FN=50$  with a chromosome formula of  $2M+46T$ . The karyotype of *P. yokohamae* has a diploid chromosome number of  $2N=48$  and fundamental number of  $FN=48$  with a chromosome formula of  $24T$ . The variation in their DNA values (*P. sexfasciata*=1.50 pg/nucleus; *S. marmoratus*=1.31 pg/nucleus; *P. yokohamae* =1.03 pg/nucleus) is positively related to the variation in chromosome fundamental number.

Nuclear DNA content of *Parapercis sexfasciata* (Temminck et Schlegel), *Sebastiscus marmoratus* (Cuvier) and *Pleuronectes yokohamae* (Günter) ( $n=10$ )

Species	DNA content (pg/nucleus)*
<i>Parapercis sexfasciata</i> (Temminck et Schlegel)	1.50±0.04
<i>Sebastiscus marmoratus</i> (Cuvier)	1.31±0.02
<i>Pleuronetes yokohamae</i> (Günter)	1.03±0.05
<i>Misgurnus anguillicaudatus</i> standard**	2.36±0.05

\*Values are means±SE.

\*\*From Park, 1992 and Kim *et al.*, 1993.



Frequency distributions of chromosome number of (a) *Parapercis sexfasciata* (Temminck et Schlegel), (b) *Sebastiscus marmoratus* (Cuvier) and (c) *Pleuronectes yokohamae* (Günther).

## References

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