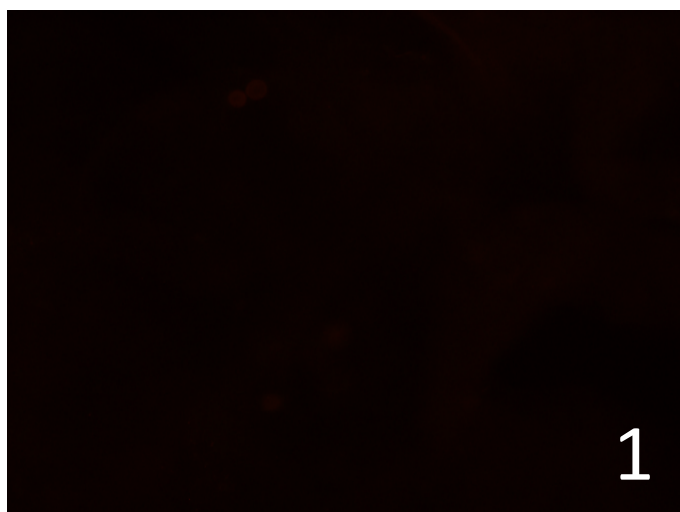


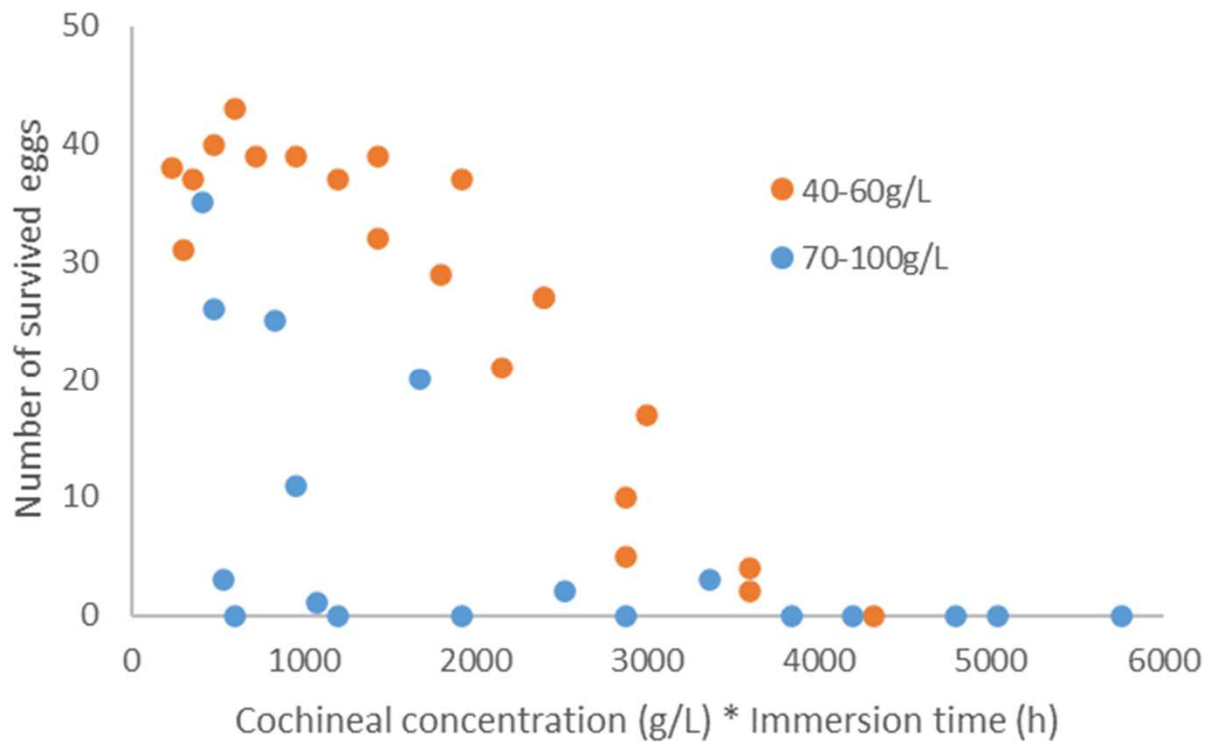
Cochineal Dye Concentration and Treatment Time for Otolith Marking of Japanese Smelt *Hypomesus nipponensis* Embryos

メタデータ	言語: English 出版者: 公開日: 2022-09-28 キーワード (Ja): キーワード (En): 作成者: 宮本, 幸太, ホシカワ, ヒロキ, ナグラ, ジュン, サワモト, ヨシヒロ, ☒orđević, Miloš, 太田, 健吾 メールアドレス: 所属: 水産研究・教育機構, 長野県水産試験場, 山梨県水産技術センター, 長野県水産試験場, ESL Teacher and Translator, 水産研究・教育機構 (退職)
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Appendix 1 The grades of mark quality: (1: invisible, 2: faintly visible, 3: visible, 4: visible brightly).



Appendix 2 Fig. 1 data (Cochineal concentration x Immersion time) distribution by low (40-60 g/L) and high (70-100 g/L) concentrations.



Appendix 3 The top five models (including null) on the probability of survival selected by the AIC.

Model	Intercept	Concentration	Immersion interval	Concentration × Immersion interval	AIC	delta	weight
1	-1.432	0.023	0.029		508.7	0.00	0.712
2	-1.277	0.020	0.020	0.000	510.5	1.82	0.287
3	-0.030		0.022		521.1	12.39	0.001
4	0.506				548.8	40.07	0.000
5	0.082	0.008			548.8	40.10	0.000

Appendix 4 The top five models (including null) on the probability of mark quality selected by the AIC.

Model	Intercept	Concentration	Immersion interval	Concentration × Immersion interval	AIC	delta	weight
1	-1.539	0.029	0.052		299.7	0.00	0.716
2	-1.445	0.027	0.045	0.000	301.6	1.98	0.267
3	0.228		0.043		307.2	7.53	0.017
4	1.160				340.0	40.34	0.000
5	0.792	0.007			341.4	41.77	0.000