

Materials List for:

# Pharmacological and Functional Genetic Assays to Manipulate Regeneration of the Planarian *Dugesia japonica*

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## Materials

Name	Company	Catalog Number	Comments
Spring water	Kandiyohi. Premium Waters Inc. Minneapolis, MN	n/a	Other forms of spring water work well also. Trial first in viability assays.
1 x buffered Montjuich salts: NaCl (1.6mM), CaCl <sub>2</sub> (1mM), MgSO <sub>4</sub> (1mM), MgCl <sub>2</sub> (0.1mM), KCl (0.1mM), NaHCO <sub>3</sub> (1.2mM), HEPES (1.5mM). pH 7.4 at 24°C.	Multiple Suppliers	n/a	Artificial water for drug treatments during regenerative assays to ensure pH buffering. 5/8 Holtfreter's solution is an alternative.
2xYT Broth	Fisher Scientific	BP2467-500	Media = 31 g/L . Autoclaved.
Petri Dish (100x25mm)	Fisher Scientific	08-757-11	Housing worms during regeneration cycles
Square Dish (100x100x15mm)	Fisher Scientific	08-757-11A	Fill with water, freeze for ice tray used as worm cutting surface
Plastic tub: Ziploc Twist 'n Loc (16oz).	Various	n/a	Convenient water tight containers for RNAi cohorts
Chicken Liver	Commercial grocery	n/a	Bias towards organic supplies, owing to avoidance of antibiotics.
Hand Blender	Any Supplier	n/a	Use for making chicken liver puree
Wire 1mm Mesh strainer	Any Supplier	n/a	Use for straining chicken liver puree
Bovine red blood cells	Lampire Biological Laboratories	7240807	100% Washed and pooled RBC suspension
Circular filter papers	Whatman, GE Healthcare	1003 055	
Transfer Pipette	Fisher Scientific	13-711-41	
Sterile, surgical blades	Multiple Suppliers	n/a	
±Praziquantel	Sigma-Aldrich	P4668	Store powder aliquots in the dark at 4°C. Desiccate.
<i>Dj-six-1</i>		GenBank AJ557022.1	RNAi positive control for "eye-less" phenotype <sup>23</sup>
<i>Dj-βcatenin-1</i>		GenBank AB181913.1	RNAi positive control for two-headed phenotype <sup>17</sup>
<i>Dj-PC2</i>			RNAi positive control for loss of light aversion phenotype <sup>24</sup>