

Materials List for:

Building Finite Element Models to Investigate Zebrafish Jaw Biomechanics

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Materials

Name	Company	Catalog Number	Comments
Coll2	Abcam	ab34712	Type II collagen antibody - stains all cartilage
A4.1025 / MF20	Developmental studies hybridoma bank	A4.1025	Skeletal myosin antibody - marks all skeletal muscle
Low melt agarose	Sigma	A9414-5G	For mounting zebrafish
MS222 (Ethyl 3-aminobenzoate methanesulfonate)	Sigma	E10521-10G	To make anesthetic
Trypsin	Fisher	T/3760/48	sample permeabilisation
Dylight 488 Mouse IgG	Thermofisher	35502	Secondary antibody
Dylight 550 Rabbit IgG	Thermofisher	84541	Secondary antibody
SP8/SP5 or SPE confocal	Leica		For imaging
LAS Leica capture software	Leica		Imaging software
Aviso (version 7.0.0)	FEI Visualization Science Group		3D image analysis software (Section 2)
Hypermesh part of the Hyperworks package (version 10)	Altair Engineering		FE model generating software (Section 4-5)
Abaqus (version 6.14)	SIMULIA		FE analysis software (Section 5.7-5.8)