

Materials List for:

# Stab Wound Injury of the Zebrafish Adult Telencephalon: A Method to Investigate Vertebrate Brain Neurogenesis and Regeneration

Rebecca Schmidt<sup>1</sup>, Tanja Beil<sup>1</sup>, Uwe Strähle<sup>1</sup>, Sepand Rastegar<sup>1</sup>

<sup>1</sup>Institute of Toxicology and Genetics, Karlsruhe Institute of Technology

Correspondence to: Sepand Rastegar at [sepand.rastegar@kit.edu](mailto:sepand.rastegar@kit.edu)

URL: <https://www.jove.com/video/51753>

DOI: [doi:10.3791/51753](https://doi.org/10.3791/51753)

## Materials

Name	Company	Catalog Number	Comments
Tricaine	Sigma	335.2	
10x DPBS (-/-)	Life technologies	14200-083	
30 G syringe (Omnican 40)	B.Braun Melsungen	916162	
Polyethylene molding cup tray	Polysciences, Inc	17177C-3	
PeqGOLD Universal Agarose	Peqlab	35-1020	
Bovine serum albumin	Biochrom	W 2835919108	
Aqua Poly/Mount	Polysciences, Inc	18606-20	
Tween 20	Carl Roth	9127.1	
DMSO	Carl Roth	A994.2	
Dissection needle	Carl Roth	KX93.1	
Paraformaldehyde	Carl Roth	335.2	
Loctite 414	Schöffler und Wörner	<a href="#">06 1362 0020</a>	
Glass slides	Labonord	5305103	
Cover slips 24 x 60 mm	Labonord	5305060	
Petri dishes, 94 mm	Greiner bio-one	632180	
Falcon tubes, 15 ml	Greiner bio-one	188261	
24-well plate	Greiner bio-one	662160	
Anti-S100 (1:500)	Dako	Z031101-2	
Anti-PCNA (1:400)	Dako	M087901	
Anti-GFP (1:1,000)	Aves Labs	GFP-1020	
anti-Dig AP-coupled antibody	Roche Diagnostics	11093274910	
5-Bromo-4-chloro-3-indolyl-phosphate (BCIP)	Roche Diagnostics	1383221	
4-Nitroblue tetrazolium chloride (NBT)	Roche Diagnostics	1383213	
Proteinase K	Roche Diagnostics	1092766	
Polyethylene molding cup tray	Polysciences	17177C-3	
Vibratome VT1000S	Leica		
Confocal microscope Sp5 DM6000	Leica		
Dissecting microscope Nikon SMZ 645	Nikon		
24-well flat bottomed tissue culture plates	Falcon catalog	353226	
Student Dumont #5 Forceps	Fine Science Tools	91150-20	
Surgical scissors	Fine Science Tools	91460-11	

---

<i>Danio rerio</i> Tg( <i>olig2:EGFP</i> )	Shin <i>et al.</i> <sup>24</sup>		
<i>Danio rerio</i> WT strains (e.g., AB2O2)			