

Materials List for:

Isolating Nasal Olfactory Stem Cells from Rodents or Humans

Stéphane D. Girard^{1,2}, Arnaud Devéze³, Emmanuel Nivet^{1,2,4}, Bruno Gepner⁵, François S. Roman², François Féron^{1,6}

¹NICN, Aix Marseille University

²LNPM, Aix Marseille University

³ENT Department, Aix Marseille University

⁴Gene expression Laboratory, The Salk Institute for Biological Studies

⁵Laboratory of Speech and Language, Aix Marseille University

⁶Centre d'Investigations Cliniques en Biothérapie, Aix Marseille University

Correspondence to: François Féron at francois.feron@univmed.fr

URL: <https://www.jove.com/video/2762>

DOI: [doi:10.3791/2762](https://doi.org/10.3791/2762)

Materials

Name	Company	Catalog Number	Comments
		Collection of olfactory mucosa in rats	
DMEM/HAM F12	Invitrogen	31331-028	
Sodium Pentobarbital			
Rongeur	Fine Science Tools		
26 gauge needle	Terumo Medical Corp.	NN-2613R	
Forceps			
		Collection of olfactory mucosa in humans	
Rigid endoscope	Karl Storz or Richard Wolf Medical		
Lidocaine			
Epinephrine			
Throughcut ethmoid forceps	Karl Storz or Richard Wolf Medical		
		Isolation of olfactory stem cells	
Dispase II	Roche Group	10 295 825 001	
Dissecting microscope			
Micro spatula	Fine Science Tools		
Collagenase IA	Sigma-Aldrich	C9891	
Ca-free/Mg-free PBS	Invitrogen	14190-250	
Fetal calf serum	Invitrogen	10270098	
Glass coverslip	Knittel Glaser	001/35	
		Sphere formation and neuronal differentiation	
Poly-L-lysine	Sigma-Aldrich	P-1274	
Insulin transferrin selenium (ITS)	Invitrogen	51500056	
EGF	R&D Systems	236-EG	
FGF2	R&D Systems	233-FB	
Neurobasal medium	Invitrogen	21103-049	
B-27 Serum-Free Supplement	Invitrogen	17504-044	
Penicillin/streptomycin	Invitrogen	15140122	
Glutamine	Invitrogen	25030024	
Glutamate	Sigma-Aldrich		