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# Tunnel Slide Preparation for Motor Speed Recordings

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Works for me

[dx.doi.org/10.17504/protocols.io.bcjdiiu6](https://dx.doi.org/10.17504/protocols.io.bcjdiiu6)

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SUBMIT TO PLOS ONE

## ABSTRACT

Preparation of our standard tunnel-slide, used for BFM speed measurements and experiments involving rapid media exchange.

## EXTERNAL LINK

<https://www.pnas.org/content/114/38/E7969>

## THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Osmotaxis through changes in motor speed. Jerko Rosko, Vincent A. Martinez, Wilson C. K. Poon, Teuta Pilizota Proceedings of the National Academy of Sciences Sep 2017, 114 (38) E7969-E7976; DOI: 10.1073/pnas.1620945114

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## CREATED

Feb 13, 2020

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Mar 02, 2021

PROTOCOL INTEGER ID

33093

MATERIALS TEXT

MATERIALS

 [Microscope Slides](#) **Fisher**

**Scientific Catalog #12332098**

 [Coverslip 22x40mm #1](#) **Fisher**

**Scientific Catalog #12332118**

 [Scotch Double Sided Tape](#) **Scotch®**

**Brand Catalog #7100107082**

SAFETY WARNINGS

Coverslips are really sensitive and could break when assembling the tunnel slide. For your safety wear adequate eye protection.

BEFORE STARTING

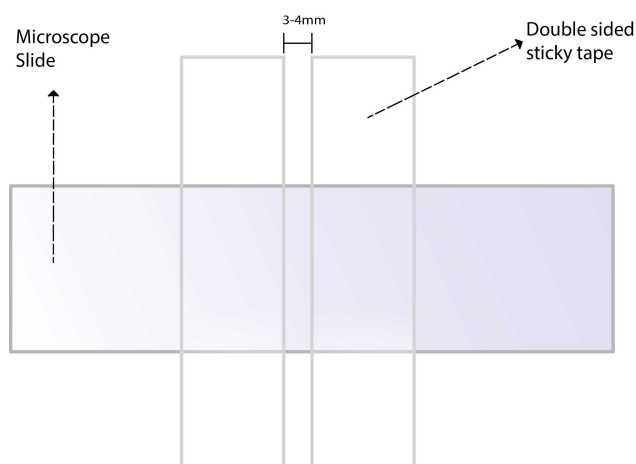
Make sure coverslips and microscope slides are sterile and dust-free

### Tunnel Slide Making

1 Take out 22x40 mm coverslips and standard microscope slides.

2 Cut 2 pieces of Scotch sticky tape and tape them perpendicularly on the microscope slide.

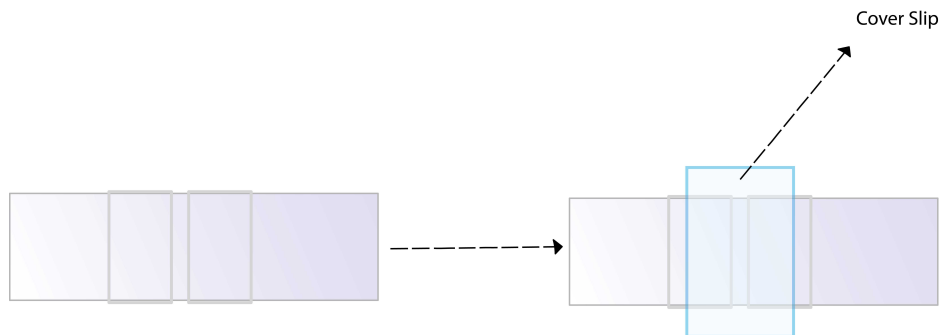
The separation between the tapes should be approximately 3-4mm apart from each other.



3

Cut the excess tape off with a razor and place the coverslip onto the slide gently.

Use pipette tips to push it down gently and to remove air.



4 Once finished, flip the tunnel slide so that you have the coverslip at the bottom and the tunnel entries are accessible .

Note: The channel that was made on the slide has a capacity of 8-10  $\mu$ L.