Description of filming in Trondheim

Title: Multitimescale Microscopy Methods for the Characterization of Fluorescently Labeled Microbubbles for Ultrasound-Triggered Drug Release

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Filming performed at NTNU in Trondheim.
Participants: Sofie Snipstad and Sigrid Berg
Videographer: Per Henning, NTNU
Date of filming: 31. August 2021

All the files are labeled with the appropriate shot number, and all except the screenshots contain a poster with the number and short description at the beginning.

We would very much appreciate if we could get quick feedback on the quality of the filming. If any of the clips needs to be reshot, please let us know soon. This is especially important for the shots involving animals since it is both time consuming and costly to work with animals.

The interview statement (6.2.1) has some background noise from the lab equipment. If it is not possible to suppress the noise sufficiently, please let us know, and we can retake it in a quieter environment.

4. Imaging Protocol by Intravital Microscopy

List of files:

4.1.1:

There are two files for this step. One which is a bit more shaky than the other. Please choose the one you find is better.

4-1-1-Moving heated holder.mp4

4-1-1_moving heated holder Alternative clip.mp4

4.1.2:

4-1-2 Adding coupling gel.mp4

4.2.1:

The light was shifting a bit during the recording, but we have tried to edit the light.

4-2-1- tail vein catheter edited-light.mp4

4.2.2:

4-2-2- placing mouse.mp4

4.2.3:

This step was filmed twice. One clip is with the mouse's head covered, and the other is without covering the mouse's head.

4-2-3-water droplet mouse head-covered.mp4

4-2-3-water droplet mouse head not covered.mp4

4.3.1:

This step was filmed twice. One clip is with the mouse's head covered, and the other is without covering the mouse's head.

4-3-1 dextran injection mouse-head-covered.mp4

4-3-1-dextran injection mouse head not covered.mp4

Additional clip

Additional clip which might be used between 4.3.1 and 4.3.2 showing one person looking into the ocular of the microscope and the other looking av the computer screen where the film from the camera mounted on top of the microscope is shown. We thought this could be a nice transition from the injection (4.3.1) to the screenshot from the camera-PC (4.3.2). The scene is shot with a handheld mobile phone, so it might be best not to use a long sequence from the video (or maybe use a still shot an pan within the image).

4-3-1-2 Additional shot check-microsope-and-screen.mp4

4.3.2:

4-3-2-screenshot widefield microscope camera.mp4

4.4.1

A recording from a previous experiment is added in the screenshot. This is because we were unable to get microscopy image of acceptable quality from the mouse used for the filming.

4-4-1-screenshot parameter setting microscope.mp4

4.5.1:

4-5-1_ultrasound parameters version1.mp4

4.5.2:

This step was filmed twice. One clip is with the mouse's head covered, and the other is without covering the mouse's head.

4-5-2- MB injection mouse head covered.mp4

4-5-2-MB injection mouse head not covered.mp4

4.5.3:

A recording from a previous experiment is added in the screenshot. This is because we were unable to get microscopy image of acceptable quality from the mouse used for the filming.

4-5-3-screenshot recording with microscope.mp4

6.2.1: Conclusion interview statement by Sofie Snipstad

The original shot is a .MOV-file, but we also added a .mp4-file which is compressed. There is some background noise from the lab equipment. If is it not possible to suppress the noise, we could film this part again in a more quiet environment.

6-2-1-inteview statement Sofie Snipstad.MOV

6-2-1-inteview statement Sofie Snipstad.mp4