Dear Cornelia, Olga,

I'm an image/data analyst at ScopeM and I’m writing to let you know about the recent progress I've made on Olga's request to measure lymphatic vessel contractions in both normal and inhibited conditions. Basically, I custom-trained a deep-learning network to segment vessels and monitored their contraction by measuring radius variation over time. As discussed with Olga, I’m confident that the analysis can be applied to the majority of movies, enabling to generate a detailed comparison of how vessel contractions differ between conditions. Please find attached a PDF document and a movie illustrating the analysis procedure/results.

To finish the project, I will need your agreement to start invoicing my working hours via PPMS (a Halin/Gkountidi project already exists on the system). I estimate the total working time to be around 5-6 days (that is 60CHF/hour \* 40-48h = 2400-2880CHF)

I would also like to mention that if my analyses are used for publication, I'd be happy to be credited as one of the authors. In return, I will provide solid support in presenting results (figures, graphs, methods…) as well as setting up an online repository for sharing the code (GitHub).

Please let me know what do you think, and I remain of course available for discussion.

With best regards,

Benoit