

Examples for author contributions (examples from theses by PhD students of the GCB):

Author Contributions: *This project was a highly collaborative effort of BS, FT, and XF, who share first authorship. All three contributed equally to intellectual content, design and execution of experiments. Main contributions of XF the quantification of compartment crossing events (Fig. 5 A and B) and T cell migration in vivo after inhibitor treatments (Fig 3). Overall, XF performed ~50% of the intravital 2PM imaging, ~25% of the FACS stainings (Fig S1 and S5), ~10% of confocal microscopy, ~10% of under agarose assays (Fig4), ~90% of WD injections, and ~70% of figure preparation. The manuscript was written by JS and modified for this thesis by XF.*

My contribution:

I performed the work together with a former post-doctoral scientist in our laboratory. In addition to performing the experiments together with him, I was responsible for all the *in vivo* treatments.

Conception and design

Development of methodology

Acquisition of data, analysis and interpretation of data

Revision of the manuscript

Figure 3, Figure 4, Figure 5, part of Figure 6, Figure 7

Supplementary Figure 1, Figure 2, Figure 3, part of Figure 4

Contribution: U. Baumgartner and S. Langsch contributed equally to this article

Conception and design, Development of methodology, Acquisition of data, Analysis and interpretation of data, Writing, review and/or revision of the manuscript, Administrative, technical, or material support

Figure 1A and 1C, Figure 3A, 3B, 3E and 3H, Figure 4, Figure 5C, 5D and 5F and Figure 6

Key words: apoptosis, chemoresistance, epithelial growth factor receptor, microRNA, non-small cell lung cancer, nuclear factor kappaB signaling, TNFAIP3 (A20)

2.2.3 Contribution to this study

I was deeply involved in the protocol and experimental design and optimization, as well as in all experiments. I performed all post-processing and data analysis, and as co-first author, wrote a majority of the manuscript and prepared all the figures.

Journal articles:

Hasler D. and D. Obrist. *Three-dimensional flow structures in the SOV*. PLOS ONE, submitted, 2017 (All experimental work, data processing and analysis was performed by D. Hasler)

Hasler D., A. Landolt and D. Obrist. *Tomographic PIV behind a prosthetic heart valve*. Exp Fluids 57(80), 2016 (All experimental work, data processing and analysis was performed by D. Hasler)

Jahren S. E., P. P. Heinisch, D. Hasler, B. Winkler, S. Stortecky, T. Pilgrim, M. Correa Londono, T. Carrel, H. von Tengg-Kobligk and D. Obrist. *Can bioprosthetic valve thrombosis be promoted by aortic root morphology? An in vitro study*. Europ J Cardiothor Surg, submitted, 2017 (D. Hasler developed a generic scheme that was used for the geometry of the aortic root phantom and contributed in the editing process of the manuscript) //

Contribution: I provided Figure 1C, performed the STED microscopy, and wrote the parts of the manuscript that were in context with the figures concerning my data. I also assembled all figures.

Contribution

Programming of the IT sequence including an asymmetric adiabatic inversion pulse for the different 3T scanners (Trio, Verio, Prisma, Siemens, Erlangen, Germany). Experimental validation of the pulse profile and test, retest experiment with 14 volunteers (2 needed to be repeated due to poor shimming). Data analysis and writing of the manuscript draft.

My contribution to this study included contributing to study design and method development, all experimental work, data collection (except for cytochrome c release), and data analysis. In addition, I was contributing to manuscript preparation and Journal correspondence.