

## 8.2 Acknowledgements

There are lots of people I would like to thank for a huge variety of reasons.

Firstly, I thank Prof. Peter Donner and Prof. Maria Arménia Carrondo for being the world's best supervisors, for always trusting and encouraging me. I could not have imagined having better advisors for my PhD. I would also like to thank Maria Arménia and her husband Manuel for letting me stay in their house when I was working in Portugal, for their great hospitality and for making my stays unforgettable.

To achieve a PhD at the Free University Berlin the dissertation must be reviewed by a professor in the area of research. I was fortunate to have Prof. Wolfram Saenger, who is an outstanding researcher in the scientific community. I would like to thank him for his continuous support, for acting as a referee when I applied for fellowships and for dedication to reviewing my work.

Many thanks to my bright collaborator Dr. Pedro Matias from the ITQB in Portugal. He is a real professional in protein structure determination knowing all the programs and tricks. I certainly learned a lot from him and benefited from his knowledge.

I thank Dr. Bernard Haendler for being a great critical reader. He carefully read through the hundred pages of this dissertation and gave me excellent feedback which has been integrated into this final version. I also thank him for our in-depth discussions and for his continuous support.

I would also like to thank Prof. Martin Schneider, Prof. Rainer Metternich, Dr. Klaus Bosslet and Dr. Dominik Mumberg, who supported last year's publications of parts of this thesis.

I thank Dr. Anke Müller-Fahrnow for reviewing my thesis and giving helpful comments.

I greatly thank my dear colleagues Anja Wegg and Norbert Otto for answering all my protein purification questions and for the suggestions about the best approaches to improve the purity of my proteins. Monica Thomaz and both Sandras from the IBET in Portugal also provided invaluable help in protein purification.

I thank Marina Isernhagen, the cloning queen, who always helped me finding the right strategy to clone various constructs.

I also thank Dr. Vera Pütter for sharing her knowledge with me in order to establish a proper helicase assay.

I would like to thank Dr. Volker Badock for confirming by mass spectrometry that more than 95 % of the methionine residues were replaced by selenomethionines in the Se-Met derivative of RuvBL1.

I thank Dr. Roman Hillig for his support in modelling RuvBL2 and helpful discussions about the best way to mutate RuvBL1 and RuvBL2 for crystallization.

I also thank the secretaries Mafalda Mateus, Marina Drawert and Klaudia Blankertz, who have been extremely helpful. They helped to organise my trips, even provided my own drivers in Portugal and dealt with finances.

I would like to say a particular “Thank you” to all my colleagues from the Proteinchemistry lab at BSP and the Crystallography group at the ITQB in Portugal for making my PhD thesis special. They are the reason why I had so much fun doing my work.

I also thank the department of Protein Supply and of Oncology at Bayer Schering Pharma, and the ITQB in Oeiras for providing resources and funding for my research throughout this PhD.

On behalf of the Lady-Lunch Crew I would like to express gratitude to the Bayer Schering Cafeteria for providing copious amounts of finest ice cream, cakes, cappuccino and hot chocolate.

There are also people who do not work with me but have been friends for many years and I would like to thank them for their support – especially Yvonne, Robert and Yasmin.

On a different note, I would like to thank my bicycle, my jogging shoes and my boxing-trainer Sanne for keeping me fit and healthy.

I greatly thank Janos for making me happy, encouraging me and improving this work with ideas and criticism.

Most importantly of all, I would like to thank my parents and my sister for supporting me for the last 27 years. It is through their encouragement and care that I have made it through all the steps to reach this point in life, and I couldn't have done it without them.

I am convinced that I had the best PhD experience the world could offer. I really enjoyed it!

Best regards

Sabine