

microscope with a near infra-red laser, this method would further extend the measurement depth and achieve high SNR for the wavefront sensor.

Acknowledgments

The results presented herein were obtained at the W.M. Keck Center for Adaptive Optical Microscopy (CfAOM) at University of California Santa Cruz. The CfAOM was made possible by the generous financial support of the W.M. Keck Foundation. We would like to thank Prof. Yi Zuo and Dr. Eric Chen of MCD Biology at UCSC for the mouse tissue samples that were used in these experiments; Marc Reinig for valuable discussions. We also acknowledge the technical support from Ben Abrams in the UCSC Life Sciences Microscopy Center.