

TABLE OF CONTENTS

CHAPTER ONE: INTRODUCTIONS 1

a. Art and Science: Reflections on Strange Bedfellows by Robert Atkins

b. Neuromedia: A Dialogue Between Media Art and Neuroscience by Esther Stoeckli and Jill Scott

c. Understanding Science in the Museum by Claudia Rütsche

CHAPTER TWO: NEURAL DEVELOPMENT 23

a. Looking at the nervous system of chicken embryos to learn about the wiring of our brain by Esther T. Stoeckli

b. Somatic Reflections: an artistic interpretation of neural tube development by Jill Scott

CHAPTER THREE: VISUAL PERCEPTION 57

a. Behavioural Genetics in Zebrafish to Understand Vertebrate Vision by Oliver Biehlmaier & Stephan C.F. Neuhauss

b. The Electric Retina. Your eyes are the eyes of a fish! by Jill Scott

CHAPTER FOUR: TACTILE PERCEPTION 87

a. Neural Networks and Artificial Skin—Rolf Pfeifer in interview with Jill Scott

b. «eskin»—exploring touch and sound: three stages of a work-in-progress by Jill Scott

CHAPTER FIVE: SKIN AND ENVIRONMENT 117

a. More than skin deep: the science of cutaneous pigmentation from development to disease by Mitch Levesque

b. Dermaland: drawing analogies between our human skin and the “skin” of the earth by Jill Scott

CONCLUSION: NEUROMEDIA 145

Talking into the future.

Esther Stoeckli and Jill Scott

GLOSSARY 153

CONTRIBUTORS 156