

Table of Contents

Abstract	vii
Zusammenfassung.....	viii
Samenvatting.....	ix
Table of Contents	ix
Table of Figures	xiii
Table of Tables.....	xiv
List of Scientific Publications.....	xv
Abbreviations.....	xvii
I Synopsis.....	1
II Introduction.....	5
2.1 Two different routes to social cognition.....	5
2.2 Functional brain correlates of social cognition	7
2.3 Impaired socio-affective and socio-cognitive processing	12
2.4 Inter-individual differences in the healthy population	14
2.5 Plasticity and the training of social skills.....	15
2.6 The ReSource study	18
III Methods: Studying brain anatomy in vivo	21
3.1 Cortical thickness	21
3.2 Statistical inferences on surface-based measures	23
IV Empirical investigations.....	27
V Socio-cognitive phenotypes differentially modulate large-scale structural covariance networks	29
5.1 Introduction.....	30
5.2 Materials and Methods.....	33
5.3 Results.....	39
5.4 Discussion	45
5.5 Supplementary Materials.....	52
VI Structural Plasticity of the Social Brain: Differential change after socio-affective and - cognitive mental training.....	55
6.1 Introduction.....	56
6.2 Results.....	59
6.3 Discussion	64
6.4 Materials and Methods	68
6.5 Supplementary Materials	79
VII Selective disruption of sociocognitive structural brain networks in autism and alexithymia	91
7.1 Introduction	92
7.2 Materials and Methods	95
7.3 Results	99
7.4 Discussion	104
7.5 Supplementary Materials	110
VIII Multi-center mapping of structural network alterations in autism.....	115
8.1 Introduction.....	116
8.2 Materials and Methods	117

8.3	Results.....	122
8.4	Discussion	125
8.5	Supplementary Materials	129
IX	Summary and Conclusions	131
9.1	Overall synopsis	131
9.2	Relation to other work	134
9.3	Further considerations and implications	138
9.4	Limitations and future research	140
9.5	Conclusions.....	141
X	Bibliography.....	143
XI	Declaration of independent work	163
XII	Curriculum Vitae / Lebenslauf.....	165
XIII	Substrates of metacognition on perception and metacognition on higher-order cognition relate to different subsystems of the mentalizing network.....	169
13.1	Introduction	170
13.2	Materials and Methods	171
13.3	Results.....	176
13.4	Discussion	184
13.5	Supplementary Materials	189