

# VU Research Portal

## Brain Structure and Function in ADHD:

van Ewijk, H.

2015

### **document version**

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

### **citation for published version (APA)**

van Ewijk, H. (2015). *Brain Structure and Function in ADHD: The Role of White Matter and Working Memory*.

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

### **E-mail address:**

[vuresearchportal.ub@vu.nl](mailto:vuresearchportal.ub@vu.nl)

# CONTENTS

<b>CHAPTER 1</b>	<b>10</b>
Introduction	
<b>Part 1 - White Matter Microstructure in ADHD</b>	
<b>CHAPTER 2</b>	<b>26</b>
Diffusion Tensor Imaging in ADHD: A Systematic Review and Meta-analysis	
<b>CHAPTER 3</b>	<b>60</b>
Different Mechanisms of White Matter Abnormalities in ADHD: A DTI Study	
<b>CHAPTER 4</b>	<b>84</b>
White Matter Abnormalities Associated with ODD and CD in ADHD	
<b>CHAPTER 5</b>	<b>104</b>
Smoking and the Developing Brain: Altered White Matter Microstructure in ADHD and Controls	
<b>Part 2 - Visuospatial Working Memory in ADHD</b>	
<b>CHAPTER 6</b>	<b>130</b>
Visuospatial Working Memory in ADHD Patients, Unaffected Siblings and Controls	
<b>CHAPTER 7</b>	<b>152</b>
Neural Correlates of Visuospatial Working Memory in ADHD and Controls	
<b>CHAPTER 8</b>	<b>178</b>
General Discussion	
<b>Appendix</b> (Table with summarized results)	<b>202</b>
<b>Nederlandse samenvatting</b> (Summary in Dutch)	<b>206</b>
<b>Dankwoord</b> (Acknowledgements)	<b>218</b>
<b>PhD portfolio</b> (List of publications & About the author)	<b>224</b>