

Contents

Acknowledgements	iii
Résumé	v
Summary	vii
List of Tables	xi
Chapter 1 Introduction	13
1.1 Transcription factor retention on mitotic chromosomes: regulatory mechanisms and impact on cell fate decisions	13
1.1.1 Introduction	14
1.1.2 Main text	15
1.1.3 Conclusions and Perspectives	22
1.2 Sequence-specific and non-specific binding to DNA	26
1.3 Pioneer transcription factors	28
1.4 Aims of the thesis	29
Chapter 2 Results and Methods	31
2.1 Mitotic chromosome binding predicts transcription factor properties in interphase	31
2.1.1 Introduction	32
2.1.2 Results	34
2.1.3 Discussion	47
2.1.4 Acknowledgments	51
2.1.5 Methods	51
2.1.6 Supplementary material	62
Chapter 3 Discussion	93
Chapter 4 Conclusions and Outlook	97
References	99
Mahé Raccaud Curriculum Vitae	107