

Contents

1	Brain Iron Metabolism and CNS Diseases	1
	Anand Thirupathi and Yan-Zhong Chang	
2	Cellular Iron Metabolism and Regulation	21
	Guofen Gao, Jie Li, Yating Zhang and Yan-Zhong Chang	
3	Brain Iron Metabolism and Regulation	33
	Peng Yu and Yan-Zhong Chang	
4	Iron Pathophysiology in Parkinson Diseases	45
	Hong Jiang, Ning Song, Qian Jiao, Limin Shi and Xixun Du	
5	Iron Pathophysiology in Alzheimer's Diseases	67
	Tao Wang, Shuang-Feng Xu, Yong-Gang Fan, Lin-Bo Li and Chuang Guo	
6	Iron Pathophysiology in Stroke	105
	Mohammed M. A. Almutairi, Grace Xu and Honglian Shi	
7	Iron Pathophysiology in Friedreich's Ataxia	125
	Kuanyu Li	
8	The Role of Iron in Amyotrophic Lateral Sclerosis	145
	Xian-Le Bu, Yang Xiang and Yansu Guo	
9	Iron Pathophysiology in Neurodegeneration with Brain Iron Accumulation	153
	Sonia Levi, Anna Cozzi and Paolo Santambrogio	
10	Diagnostics and Treatments of Iron-Related CNS Diseases	179
	Huan Xiong, Qing-zhang Tuo, Yu-jie Guo and Peng Lei	