

Contents

Preface	vii
Editors	ix
Contributors	xi
1	Green Tea and Black Tea
	Manufacturing and Consumption
	<i>Xiaochun Wan, Daxiang Li, and Zhengzhu Zhang</i>
2	Pu-erh Tea
	Its Manufacturing and Health Benefits
	<i>Huai-Yuan Chen, Shoei-Yn Lin-Shiau, and Jen-Kun Lin</i>
3	White Tea
	Its Manufacture, Chemistry, and Health Effects.....
	<i>He-Yuan Jiang</i>
4	Biological Functions and Manufacturing of GABA Tea
	<i>Andi Shau-mei Ou, Yung-sheng Tsai, and Hsueh-fang Wang</i>
5	Production of Theaflavins, Theasinensins, and Related
	Polyphenols during Tea Fermentation
	<i>Takashi Tanaka, Yosuke Matsuo, and Isao Kouno</i>
6	Analytical Methods for Bioactive Compounds in Teas.....
	<i>Chi-Chun Wong, Ka-Wing Cheng, Jianfei Chao, Xiaofang</i>
	<i>Peng, Zongping Zheng, Jiajun Wu, Feng Chen, and Mingfu Wang</i>
7	Bioavailability and Metabolism of Tea Catechins in Human
	Subjects.....
	<i>Ting Sun, Chi-Tang Ho, and Fereidoon Shahidi</i>
8	Antioxidant Properties and Mechanisms of Tea Polyphenols ...
	<i>Xiaochun Wan, Daxiang Li, and Zhengzhu Zhang</i>

vi	Tea and Tea Products: Chemistry and Health-Promoting Properties	
9	Mechanisms of Cancer Chemoprevention by Tea and Tea Polyphenols	161
	<i>Jen-Kun Lin</i>	
10	Effect of Tea and Tea Constituents on Inflammation	177
	<i>Divya Ramji, Mou-Tuan Huang, Fereidoon Shahidi, and Chi-Tang Ho</i>	
11	Inhibition of Breast Cancer Cell Proliferation by Theaflavins and Epigallocatechin 3-gallate through Suppressing Proteasomal Activities	191
	<i>Jen-Kun Lin, Yu-Wen Chen, and Shoei-Yn Lin-Shiau</i>	
12	Suppression of Prostate Carcinogenesis by Tea Polyphenols through Inhibiting Microsomal Aromatase and 5α-Reductase	211
	<i>Jen-Kun Lin</i>	
13	Green Tea-Induced Thermogenesis Controlling Body Weight	221
	<i>John Shi, Sophia Jun Xue, and Yukio Kakuda</i>	
14	Fermented Tea Is More Effective Than Unfermented Tea in Suppressing Lipogenesis and Obesity	233
	<i>Jen-Kun Lin and Shoei-Yn Lin-Shiau</i>	
15	Trapping of Methylglyoxal by Tea Polyphenols	245
	<i>Di Tan, Chih-Yu Lo, Xi Shao, Yu Wang, Shengmin Sang, Fereidoon Shahidi, and Chi-Tang Ho</i>	
16	Chemistry and Biological Properties of Theanine	255
	<i>Xiaochun Wan, Zhengzhu Zhang, and Daxiang Li</i>	
17	Flavor Stability of Tea Drinks	275
	<i>Hideki Masuda</i>	
	Index	301