

Contents

Part I Pharmacological Bases of Metronomic Chemotherapy

- 1 Development and Evolution of the Concept of Metronomic Chemotherapy: A Personal Perspective. 3**
Robert S. Kerbel
- 2 Mechanisms of Action of Low-Dose Metronomic Chemotherapy 23**
Ella Fremder and Yuval Shaked
- 3 Effects of Metronomic Chemotherapy on Immunity 39**
Mamoru Harada
- 4 Preclinical Activity of Metronomic Regimens with Alkylating Agents and Antimetabolites 53**
Marta Vives, Berta Laquente, and Francesc Viñals
- 5 Metronomic Chemotherapy Regimens Using Microtubule-Targeting Agents: Mechanisms of Action, Preclinical Activity and Future Developments 69**
Eddy Pasquier, Maria Kavallaris, and Nicolas Andre

Part II Clinical Activity of Metronomic Chemotherapy

- 6 Metronomic Chemotherapy in Breast Cancers. 93**
Elisabetta Munzone, Francesco Bertolini, and Marco Colleoni
- 7 Overview of Metronomic Chemotherapy in SWOG Breast Cancer Cooperative Group Clinical Trials 111**
Zeina A. Nahleh
- 8 Clinical Trials of Low-Dose Metronomic Chemotherapy in Castration-Resistant Prostate Cancer 119**
Keemo Delos Santos, Lavarnan Sivanathan, Kelly Lien, and Urban Emmenegger

9	The Role of Metronomic Chemotherapy in the Treatment of Metastatic Colorectal Cancer Patients	135
	Lisa Salvatore, Federica Zoratto, Fotios Loupakis, and Alfredo Falcone	
10	Clinical Activity of Metronomic Chemotherapy in Central Nervous System Cancers.	143
	Doo-Sik Kong and Do-Hyun Nam	
11	Metronomic Chemotherapy in Pediatric Malignancies	157
	Narges Baluch, Sushil Kumar, Reza Mokhtari, and Sylvain Baruchel	
12	Metronomic Chemotherapy in Hematological Malignancies.	173
	Pannee Praditsuktavorn and Jia Ruan	
13	Clinical Activity of Metronomic Chemotherapy in Liver Cancers.	189
	Yu-Yun Shao, Ann-Lii Cheng, and Chih-Hung Hsu	
14	Metronomic Chemotherapy in Gynecological Cancers	203
	Victoria A. Forte and Agustin A. Garcia	
15	Metronomic Chemotherapy in Non-Small-Cell Lung Cancer.	217
	Athanasios Kotsakis, Nikolaos Kentepozidis, and Vassilis Georgoulas	
 Part III Clinical Pharmacology of Metronomic Chemotherapy		
16	Pharmacokinetics and Pharmacogenetics of Metronomic Chemotherapy	229
	Guido Bocci and Giulio Francia	
17	Metronomics: Potential Social Impact and New Business Models to Improve Availability of Cancer Treatments.	247
	Yuliya Snihur, Eddy Pasquier, Graciela Scharovsky, and Nicolas Andre	
18	Adverse Side Effects Associated with the Use of Low-Dose Metronomic Chemotherapy	263
	Keemo Delos Santos, Kelly Lien, Soley Georgsdottir, Lavarnan Sivanathan, and Urban Emmenegger	

Part IV Metronomic Chemotherapy in Veterinarian Clinic

19 Clinical Studies of Metronomic Chemotherapy in Dogs 283
Veronica Marchetti and Mario Giorgi