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Jimenez Andrade; 5b. Neuropathic pain: basic science Patrick M. Dougherty and Haijun Zhang; 6. Cognitive dysfunction: is chemobrain real? Christina A. Meyers and Jeffrey S. Wefel; 7. Cognitive impairment: basic science Perry N. Fuchs, Jessica A. Boyette-Davis and Adrian J. Dunn; 8. Depression in cancer: pathophysiology at the mind-body interface Andrew H. Miller, Michael A. Burke and Charles L. Raison; 9. Depressive illness: basic science: 9a. Animal models of depressed mood and sickness behavior Adrian J. Dunn; 9b. From inflammation to sickness and depression: the cytokine connection Robert Dantzer and Keith W. Kelly; 10. Cancer-related fatigue: clinical science Xin Shelley Wang; 11. Developing translational animal models of cancer-related fatigue Mary W. Meagher; 12. Cancer anorexia/weight loss syndrome Aminah Jatoti and Nisha Lassi; 13. Appetite loss/cachexia: basic science Tristin D. Brisbois-Clarkson, Wendy V. Wismer and Vickie E. Baracos; 14. Sleep and its disorders: clinical science Sofia Ancoli-Israel and Lianqi Liu; 15. Sleep and its disorders Mark R. Opp and Luca Imeri; 16. Proteins and symptoms Bang-Ning Lee and James M. Reuben; 17. Genetic approaches to treating and preventing symptoms in patients with cancer Quiling Shi and Charles S. Cleeland; 18. Functional imaging of symptoms T. Dorina Papageorgiou, Edward F. Jackson and Javier O. Valenzuela; 19. High-dose therapy and posttransplantation symptom burden: striking a balance Sergio A. Giralt and Loretta A. Williams; Part III. Clinical Perspectives in Symptom Management and Research: 20. Promoting symptom research in cooperative groups Lynne I. Wagner and David Cella; 21. Practical aspects of symptom management in patients with cancer Richard T. Lee and Michael J. Fisch; Part IV. Symptom Measurement: 22. Symptom measurement by patient report Charles S. Cleeland and Tito R. Mendoza; 23. The economics of cancer-related symptoms: valuing supportive care interventions Lesley-Ann Miller and Jane C. Weeks; 24. Longitudinal models for symptoms Diane L. Fairclough; 25. Bayesian adaptive design: a new approach to test the effectiveness of symptom-reducing agents using patient-reported outcomes Valen E. Johnson and Tito R. Mendoza; Part V. Government and Industry Perspectives: 26. Promoting cancer symptom science research Ann O'Mara and Maria Sgambati; 27. Developing symptom management drugs Joanna M. Brell and Lori M. Minasian; 28. Cancer-related symptoms: issues for consideration in drug and therapeutic biological product label claims in the United States Jane A. Scott; 29. Symptom research: looking ahead Charles S. Cleeland, Adrian J. Dunn and Michael J. Fisch; Index.

Sommario/riassunto

Cancer Symptom Science is the first interdisciplinary compilation of research on the mechanisms underlying the expression of cancer-related symptoms. It presents innovations in clinical, animal and in vitro research, research methods in brain imaging, and statistical-descriptive approaches to understanding the mechanistic basis of symptom expression. This volume also provides perspectives from patients, government and industry. By collecting and synthesizing the developing threads of new approaches to understanding cancer-related symptoms, the book promotes a pioneering framework for merging behavioral and biological disciplines to clarify mechanisms of symptom evolution, incorporating new technologies, testing novel agents for symptom control, and improving patient functioning and quality of life both during and after cancer treatment. With an expert editorial team led by Charles S. Cleeland, an internationally-recognized leader in cancer pain assessment and treatment, this is essential reading for surgical, clinical and medical oncologists, academic researchers, and pharmaceutical companies developing new agents to control symptom expression.

