DESCRIPTION

A new perspective on the link between inflammation and cancer

Inflammation is the human body’s normal biological response to threats in the modern world, as well as a defense against the harmful influence of pathogens, the environment, and poor nutrition. But what happens when the inflammatory response is triggered repeatedly and sustained for long periods of time? Cancer and Inflammation Mechanisms: Chemical, Biological, and Clinical Aspects discusses the mechanisms by which chronic inflammation can lead to cancer, the various causative agents, and possible prevention methods.

A compilation of the latest information coming out of the various fields of cancer research, this book provides a detailed look at inflammation-related carcinogenesis from the perspective of researchers at the forefront of the field. It takes an interdisciplinary approach to the topic, and provides comprehensive information about the major factors at work in inflammation, cancer, and the intersection of the two conditions. Topics include:

- A general overview of inflammation-related cancer
- The biochemistry of inflammation and its effects on DNA
- Molecular biology and the role of microRNA in carcinogenesis
- Specific causative agents including oncogenic viruses, asbestos, and nanomaterials
Anti-inflammatories, nutraceuticals, and other preventative measures

A deeper understanding of the mechanisms behind inflammation-related carcinogenesis can lead to better patient outcomes by improving diagnostics and prevention, as well as altering the approach to treatment. Cancer and Inflammation Mechanisms: Chemical, Biological, and Clinical Aspects provides the knowledge base researchers need to push the field forward.

 ABOUT THE AUTHOR

YUSUKE HIRAKU is an Assistant Professor and Research Professor of the Department of Environmental and Molecular Medicine at Mie University. In 2009, he received the Young Investigator Award from the Japanese Society for Hygiene for his work on inflammation-related carcinogenesis.

SHOSUKE KAWANISHI is a Dean and Professor of the Faculty of Pharmaceutical Sciences at Suzuka University of Medical Science. He received the Congress Award of the Japanese Society for Hygiene in 2001, the SFRR Japan Prize in 2006, and the Congress Award of the Japanese Environmental Mutagen Society in 2009.

HIROSHI OHSHIMA was a Scientist and Chief of the Unit of Endogenous Cancer Risk Factors at the International Agency for Research on Cancer and is currently a Professor of the School of Food and Nutritional Sciences at the University of Shizuoka. His main research interest is the role of nutritional factors in the causation of human chronic diseases.

For additional product details, please visit https://www.wiley.com/en-sg