Edited by
Peter J. O'Brien and W. Robert Bruce

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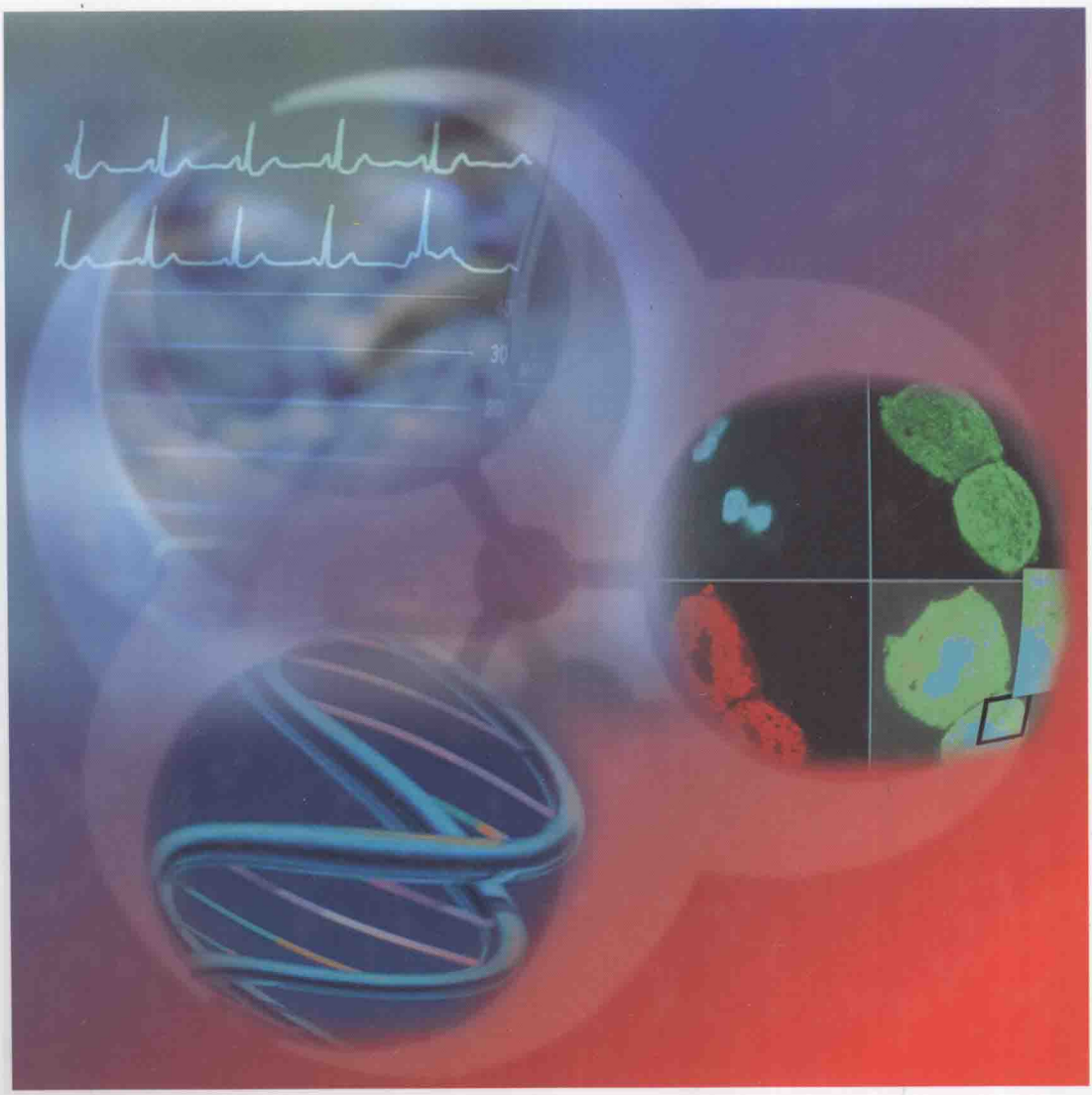
Endogenous Toxins

Targets for Disease Treatment and Prevention

Volume 1



Endogenous Toxins

Diet, Genetics, Disease and Treatment

Edited by
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VOLUME I

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Further Reading

Geacintov, N. E., Broyde, S. (eds.)

The Chemical Biology of DNA Damage

2010
ISBN: 978–3–527–32295–4

Meyers, R. A. (ed.)

Cancer
From Mechanisms to Therapeutic Approaches

2007
ISBN: 978-3-527-31768-4

Külpmann, W. R. (ed.)

Clinical Toxicological Analysis
Procedures, Results, Interpretation

2009
ISBN: 978–3–527–31890–2

Dübel, S. (ed.)

Handbook of Therapeutic Antibodies

2007
ISBN: 978-3-527-31453-9

Knasmüller, S., DeMarini, D. M., Johnson, I., Gerhäuser, C. (eds.)

Chemoprevention of Cancer and DNA Damage by Dietary Factors

2008
ISBN: 978–3–527–32058–5

Brigelius-Flohé, R., Joost, H.-G. (eds.)

Nutritional Genomics
Impact on Health and Disease

2006
ISBN: 978–3–527–31294–8

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Yamagishi, Sho-ichi

Preface

Welcome to this, the first book on *Endogenous Toxins*!

The idea for this "conference in a book" came to us when we examined the likely importance of endogenous toxins in the origins of epithelial cancers and liver disease. We noted that a wide range of studies in different disciplines showed that toxicities originating within the body could contribute to the development of chronic disease. However, there was no book on this subject and there appeared to be little communication between various researchers comparing endogenous toxins assessed in one field of study with those in related fields. We imagined that a book focusing on endogenous toxins would encourage a wider appreciation of the importance of these toxins in various diseases and in the aging processes. Furthermore, it could encourage the development of novel therapies for decreasing endogenous toxins. We thought that this could be to our common benefit. A further understanding of the work of others in the field would identify overlapping interests that could be exploited by any one of us. Such a volume could thus be helpful to epidemiologists, by identifying new hypotheses relating lifestyle factors with endogenous toxins and chronic disease; helpful to chemists and biochemists, by identifying likely important areas of investigation; and helpful to investigators in all disciplines, by providing a broader perspective of the problem and approaches taken by others in this complex field.

Accordingly, we assembled a group of authors who had made significant contributions to the study of endogenous toxins and asked each to contribute a short chapter reviewing their particular field of interest for others unfamiliar with it. The chapters have been arranged in *Endogenous Toxins* in four parts or "sessions".

Part One is concerned with chemistry and biochemistry, and the formation and reactivity of endogenous toxins, particularly those associated with diet; Part Two with the association of increased endogenous toxin levels with inborn errors of metabolism; Part Three with examples of endogenous toxins that appear to be associated with disease; and Part Four with therapeutics that have been proposed for decreasing endogenous toxins. We think that together their contributions encompass the major part of the field of endogenous toxins.

Endogenous Toxins. Diet, Genetics, Disease and Treatment.
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Let the authors speak. We will meet again afterward to begin a discussion which we expect will be continued. . .

Toronto, August 2009

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W. Robert Bruce

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