

Contents

Preface		vii
Chapter I	Tidying up a Molecular Catastrophe: <i>In Vitro</i> and <i>In Vivo</i> Repair of Unique DNA-Protein Cross Links <i>David J. Baker, Arthur D. Riggs and Timothy R. O'Connor</i>	1
Chapter II	<i>In Vivo</i> Mutagenic Effects of Alkylating Agents Eliciting Different DNA-Adducts <i>Henriqueta Louro and Maria João Silva</i>	39
Chapter III	DNA Adduct Formation and Genotoxicity Assessment in Plants <i>Frédérique Weber-Lotfi, Pierre Guillemaut, Benoît Rether and André Dietrich</i>	61
Chapter IV	Diet, Life-Style Habits and Malondialdehyde- Deoxyguanosine Adducts in a Group of Subjects Resident in the Rayong Province, Thailand <i>M. Peluso, P. Srivatanakul, A. Munnia, M. Ceppi, A. Jedpiyawongse, S. Sangrajrang, S. Piro and P. Boffetta</i>	83
Chapter V	Drug-DNA Adducts Formed by Formaldehyde Activation of Anthracyclines and Related Anti-Cancer Agents <i>Don R. Phillips, Lonnie Swift, Kate Coldwell, Damian Spencer, Rebecca Bilardi, Benny Evison, Oula Mansour, Abraham Nudelman, Ada Rephaeli, Tad H. Koch and Suzanne M. Cutts</i>	103
Chapter VI	Differential Modulation of Benzo[a]pyrene-Derived DNA Adducts in MCF-7 Cells by Marine Compounds <i>Jamal M. Arif, Mohammed Kunhi, Yunus M. Siddiqui, Khalid A. El Sayed, Khaled Y. Orabi, Amal Al-Hazzani, Mohammed N. Al-Ahdal and Fahad M. Al-Khodairy</i>	127

Chapter VII	Potency of Air Pollutants at DNA Adduct Formation and Assessment by <i>In Vivo</i> Mutagenesis <i>Yasunobu Aoki, Akiko H. Hashimoto, Hiromi Sato and Michi Matsumoto</i>	143
Chapter VIII	GSTM1 and XRCC3 Polymorphisms: Effects on the Levels of Aflatoxin B1-DNA Adducts <i>Xi-Dai Long, Yun Ma, Jin-Gang Yao, Fu-Zhi Ban, Yuan-Feng Zhou, Zhong-Hui Lin, Hong-Dong Huang and He-Ping Yang</i>	155
Chapter IX	Oxidative DNA Damage and DNA Adducts Induced by Polycyclic Aromatic Hydrocarbons and Aromatic Amines <i>Shosuke Kawanishi and Shiho Ohnishi</i>	169
Chapter X	The Usefulness of Bulky DNA Adduct Formation as a Biological Marker of Exposure to Airborne Particulate Matter (PM2.5) in In Vitro Cell Lung Models: A Comparative Study <i>Sylvain Billet, Véronique André, Imane Abbas, Jérémie Le Goff, Anthony Verdin, François Sichel, Pirouz Shirali and Guillaume Garçon</i>	181
Index		213