



Evolution in a Toxic World: How Life Responds to Chemical Threats

Emily Monosson

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With BPA in baby bottles, mercury in fish, and lead in computer monitors, the world has become a toxic place. But as Emily Monosson demonstrates in her groundbreaking new book, it has always been toxic. When oxygen first developed in Earth's atmosphere, it threatened the very existence of life: now we literally can't live without it. According to Monosson, examining how life adapted to such early threats can teach us a great deal about today's (and tomorrow's) most dangerous contaminants. While the study of evolution has advanced many other sciences, from conservation biology to medicine, the field of toxicology has yet to embrace this critical approach.

In Evolution in a Toxic World, Monosson seeks to change that. She traces the development of life's defense systems—the mechanisms that transform, excrete, and stow away potentially harmful chemicals—from more than three billion years ago to today. Beginning with our earliest ancestors' response to ultraviolet radiation, Monosson explores the evolution of chemical defenses such as antioxidants, metal binding proteins, detoxification, and cell death.

As we alter the world's chemistry, these defenses often become overwhelmed faster than our bodies can adapt. But studying how our complex internal defense network currently operates, and how it came to be that way, may allow us to predict how it will react to novel and existing chemicals. This understanding could lead to not only better management and preventative measures, but possibly treatment of current diseases. Development of that knowledge starts with this pioneering book.

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