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Nota di contenuto	Preface by John Harris -- Part I: Freedom of science: promises and hazards -- Introduction / Simona Giordano -- 1. The influence of infection on society / Peter J. Lachmann -- 2. Scientific progress and longevity: curse or blessing? / Simona Giordano -- 3. Reproductive technologies and the family in the twenty-first century / Daniela Cutas and Anna Smajdor -- 4. New frontiers in surgery: the case of uterus and penis transplantation / Gennaro Selvaggi and Sean Aas -- 5. Freedom, law, politics, genes: the case of mitochondrial transfer / Iain Brassington -- 6. Scientific freedom and responsibility in a biosecurity context / Catherine Rhodes -- 7. Robotic intelligence: philosophical and ethical challenges / David Lawrence -- 8. Big science and small science: reflections on the relationship between science and society from the perspective of physics / Lucio Piccirillo -- Part II: Freedom of science and the need for regulation -- Introduction / Simona Giordano -- 9. Advocating a radical change in science policies and new models to secure freedom and efficiency in funding and communication /

Andrea Ballabeni and Davide Danovi -- 10. Freedom of research and the right to science, from theory to advocacy / Andrea Boggio and Cesare P. R. Romano -- 11. The donation of embryos for research: maintaining trust / Heidi Mertes -- 12. From Galileo to embryos and narcotic drugs: the quest for the right to science / Marco Cappato -- 13. Science, self-control and human freedom: a naturalistic approach / Gilberto Corbellini and Elisabetta Sirgiovanni -- 14. Evidence-based policy and the precautionary principle: friends or foes? / Roberto Baldoli and Claudio M. Radaelli -- 15. Let freedom ring for science: an American perspective / Mary Woolley -- Conclusion / Simona Giordano -- Index.

Sommario/riassunto

"Never has the scope and limits of scientific freedom been more important or more under attack. New science, from artificial intelligence to genomic manipulation, creates unique opportunities to make the world a better place and presents unprecedented dangers, which many believe threaten the survival of humanity and the planet. Ironically the very discoveries which promise so much, themselves create new dangers. This book is about the opportunities and challenges, moral, regulatory and existential that now face both science and society. At stake is both the survival of humankind and the continued existence of our planet. This collection by an international and multi-disciplinary group of leading thinkers addresses three vital questions: 1 How are scientific developments impacting on human life and on the structure of societies? 2 How is science regulated, and how should it be regulated? 3 Are there ethical boundaries to scientific developments in some sensitive areas? (robotic intelligence, biosecurity?) The book is written in a lively approachable style which will be accessible to a wide audience, indeed to anyone interested in these vital issues. The authors are drawn from many countries and disciplines, and approach the issues in diverse ways to secure widest representation of the many interests engaged. Authors include some of the most distinguished academics working in this field as well as young scholars. Readership will likely include the life sciences, law, philosophy, social and political science, astro-physics and medicine and will appeal to policy-makers, and the general public alike." -- Back cover.
