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Chasing RNA and its Secrets About Diseases For devastating disorders in which the brain or its nerve connections gradually disintegrate, maybe it's time to look south of the neck—towards the gut.

Treating the Brain Through the Stomach: Tweaking the Gut Microbiome Slowed ALS in Mice

"The EPA has a long history of rubbing elbows with the companies that they regulate," Carey Gillam, author of *The Monsanto Papers* ... to say "produced with genetic engineering".

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without a second thought... Yet the gut-brain connection has emerged ...

Treating The Brain Through The Stomach
Proponents of the theory that COVID-19 originated as a result of work performed at the Wuhan Institute of Virology keep repeating the same misinformation.

The 'Occam's Razor Argument' Has Not Shifted
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Inside the risky bat-virus engineering that

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links America to Wuhan

Historians Alessandro Vezzosi and Agnese Sabato have spent a decade delving through records to piece together the male line of the da Vinci family.

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mother, and ...

Presents articles that offer different opinions on genetic engineering and related issues, and provides information on composing expository essays on this subject, including sample essays and topics.

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Acknowledgments Introduction 1. Framework for Understanding the Thinning of a Public Debate 2. Setting the Stage: The Eugenicists and the Challenge from Theologians 3. Gene Therapy, Advisory Commissions, and the Birth of the Bioethics Profession 4. The President's Commission: The "Neutral" Triumph of Formal Rationality 5. Regaining Lost Jurisdictional Ground and the Triumph of the Bioethics Profession 6. "Reproduction" as the New Jurisdictional Metaphor: Autonomy and the Internal Threat to the Bioethics/Science Jurisdiction 7. Conclusion: The Future of Public Bioethics and the HGE Debate Appendix:

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"A gifted and thoughtful writer, Metzl brings us to the frontiers of biology and technology, and reveals a world full of promise and peril." – Siddhartha Mukherjee MD, New York Times bestselling author of The Emperor of All Maladies and The Gene
Passionate, provocative, and highly illuminating, Hacking Darwin is the must read book about the future of our species for fans

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of Homo Deus and The Gene. After 3.8 billion years humankind is about to start evolving by new rules... From leading geopolitical expert and technology futurist Jamie Metzl comes a groundbreaking exploration of the many ways genetic-engineering is shaking the core foundations of our lives – sex, war, love, and death. At the dawn of the genetics revolution, our DNA is becoming as readable, writable, and hackable as our information technology. But as humanity starts retooling our own genetic code, the choices we make today will be the difference between realizing breathtaking advances in human well-

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being and descending into a dangerous and potentially deadly genetic arms race. Enter the laboratories where scientists are turning science fiction into reality. Look towards a future where our deepest beliefs, morals, religions, and politics are challenged like never before and the very essence of what it means to be human is at play. When we can engineer our future children, massively extend our lifespans, build life from scratch, and recreate the plant and animal world, should we?

The central thesis of this book is that the

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genetic structures of living beings are internal biological expressions of the ecosystems they need to survive. That is why living beings contribute to the reproduction of ecosystems by their everyday acts of living, in a global-scale symbiosis. Inter-species genetic engineering creates new types of living beings, which could not arise naturally and which are being introduced without a sound understanding of their ecological impacts. The potential for nasty ecological surprises, possibly greater than anything seen with chemicals, is outlined in this monograph, which is based on fundamental

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theoretical arguments, illustrated with many examples.

Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and

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those of our children. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and dominion that fails to appreciate

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the gifted character of human powers and achievements. Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way philosophers discuss ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world. Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them

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is the task of this book, by one of America's preeminent moral and political thinkers.

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