

# tiny earth project

**tiny earth project** is an innovative and collaborative scientific initiative aimed at addressing the global crisis of antibiotic resistance through crowd-sourced research and education. This project engages students and citizen scientists worldwide to discover new antibiotics from soil microbes, combining education with cutting-edge scientific research. The tiny earth project harnesses the power of crowdsourcing to increase the chances of finding novel antimicrobial compounds, which are crucial in combating resistant bacterial infections. By integrating authentic research into undergraduate science curricula, the project also enhances STEM education and fosters the next generation of scientists. This article will explore the origins, goals, methodologies, educational impact, and future prospects of the tiny earth project, highlighting its significance in modern microbiology and public health.

- Origins and Purpose of the Tiny Earth Project
- How the Tiny Earth Project Works
- Educational Impact and Student Involvement
- Scientific Contributions and Discoveries
- Future Directions and Global Significance

## Origins and Purpose of the Tiny Earth Project

The tiny earth project was founded in response to the alarming rise of antibiotic-resistant bacteria, which poses a serious threat to global public health. Recognizing the need for new antibiotics and innovative approaches to drug discovery, scientists designed this project to crowdsource the search for novel antimicrobial agents from soil bacteria. The initiative was developed by a team of microbiologists and educators who sought to combine hands-on research with education. Its primary purpose is to empower students and citizen scientists to contribute meaningfully to antibiotic discovery while gaining practical laboratory experience. This approach aims to expand the pool of researchers actively searching for new antibiotics, thereby accelerating the discovery process.

## How the Tiny Earth Project Works

The tiny earth project operates by engaging participants in the systematic collection and analysis of soil samples to isolate bacteria that produce potential antibiotics. These bacteria are then tested for their ability to

inhibit pathogenic microbes, particularly those resistant to existing drugs. The process involves several key steps, which are standardized to ensure data consistency and scientific rigor.

## **Sample Collection and Bacterial Isolation**

Participants collect soil samples from diverse environments, increasing the likelihood of finding unique bacterial strains. These samples undergo processing to isolate individual bacterial colonies, which are cultured for further testing. The diversity of collection sites helps maximize the variety of microbes studied.

## **Screening for Antimicrobial Activity**

Isolated bacteria are screened against known pathogens to identify those producing substances that inhibit microbial growth. This screening helps pinpoint candidate bacteria that may produce novel antibiotics. The project uses standardized assays to evaluate antimicrobial activity, ensuring reliable and reproducible results.

## **Genomic Analysis and Compound Identification**

Bacteria exhibiting promising antimicrobial properties undergo genomic sequencing to identify biosynthetic gene clusters responsible for producing antibiotic compounds. This genomic insight facilitates the characterization and eventual development of new drugs derived from these natural products.

## **Data Sharing and Collaboration**

Findings from the tiny earth project are shared among participating institutions and researchers to foster collaboration and avoid duplication of efforts. This open-science model enhances the efficiency and impact of the antibiotic discovery process.

## **Educational Impact and Student Involvement**

An essential component of the tiny earth project is its role in education, particularly in undergraduate science programs. By embedding authentic research into curricula, the project provides students with valuable hands-on experience in microbiology, molecular biology, and bioinformatics.

## **Curriculum Integration and Training**

The tiny earth project curriculum is designed to teach fundamental laboratory techniques while engaging

students in real-world scientific research. Training modules cover microbial isolation, experimental design, data analysis, and scientific communication, equipping students with practical skills and research literacy.

## **Student Research Experience**

Students participating in the project gain direct experience in the scientific method, from hypothesis development to data interpretation. This involvement fosters critical thinking, problem-solving, and collaboration, enhancing their readiness for careers in science and healthcare.

## **Community Engagement and Citizen Science**

The project also encourages involvement beyond traditional academic settings by inviting citizen scientists to contribute soil samples and participate in data collection. This broadens public understanding of antibiotic resistance and promotes science literacy across diverse communities.

## **Benefits to STEM Education**

By providing a context for meaningful research, the tiny earth project improves student retention in STEM fields and inspires interest in microbiology and drug discovery careers. The authentic research experience bridges the gap between theory and practice, making science education more engaging and relevant.

## **Scientific Contributions and Discoveries**

Since its inception, the tiny earth project has contributed valuable data and bacterial isolates to the scientific community, enhancing the search for new antibiotics. The collaborative nature of the project has led to several noteworthy discoveries and advances.

## **Discovery of Novel Antibiotic Compounds**

The project has identified multiple bacterial strains producing unique antimicrobial agents with potential for drug development. These discoveries contribute to expanding the antibiotic pipeline, crucial for overcoming resistance challenges.

## **Expansion of Microbial Diversity Knowledge**

Through systematic soil sampling and analysis, the project has enriched scientific understanding of

microbial diversity and ecology. This knowledge supports broader microbiological research and informs strategies for natural product discovery.

## **Advancements in Genomic and Bioinformatic Techniques**

Utilizing genomic sequencing and bioinformatics tools, the tiny earth project has refined methods for identifying biosynthetic gene clusters and predicting antimicrobial compound structures. These technological advancements accelerate the path from discovery to drug development.

## **Collaborative Research Network**

The project has established a global network of educators, students, and researchers, fostering open communication and data exchange. This collaborative environment enhances research productivity and innovation in antibiotic discovery.

## **Future Directions and Global Significance**

The tiny earth project continues to evolve, with plans to expand its reach, improve methodologies, and increase its impact on antibiotic discovery and education. Its global significance lies in addressing one of the most pressing health challenges of the 21st century.

## **Scaling Up and Global Participation**

Efforts are underway to involve more institutions and participants worldwide, increasing the diversity of soil samples and accelerating the discovery of novel antibiotics. Expanding global participation enhances the project's scientific and educational reach.

## **Integration of Advanced Technologies**

The project aims to incorporate cutting-edge technologies such as machine learning, high-throughput screening, and synthetic biology to improve the efficiency and accuracy of antibiotic discovery. These innovations promise to transform natural product research.

## **Policy and Public Health Impact**

By generating new antibiotic candidates and raising awareness about antimicrobial resistance, the tiny earth project contributes to public health strategies and policy development. The project supports global efforts to

combat antibiotic resistance through science and education.

## **Long-Term Educational Outcomes**

Continued integration of the tiny earth project into science education is expected to cultivate a skilled workforce equipped to tackle future challenges in microbiology, drug discovery, and public health. Its educational model serves as a blueprint for combining research and learning.

- Engages students and citizen scientists globally
- Combines education with antibiotic discovery
- Utilizes soil microbes as a source of new antibiotics
- Promotes STEM education and scientific literacy
- Advances research in microbial diversity and genomics

## **Frequently Asked Questions**

### **What is the Tiny Earth Project?**

The Tiny Earth Project is a collaborative scientific initiative that engages students and researchers in discovering new antibiotics from soil bacteria to combat antibiotic resistance.

### **How does the Tiny Earth Project work?**

Participants collect soil samples, isolate bacteria, and test them for antibiotic properties, contributing data to a global database to identify potential new antibiotic compounds.

### **Why is the Tiny Earth Project important?**

It addresses the urgent global health issue of antibiotic resistance by crowd-sourcing the discovery of new antibiotics, involving a diverse network of students and scientists worldwide.

### **Who can participate in the Tiny Earth Project?**

The project is designed for undergraduate students, educators, and researchers interested in microbiology

and antibiotic discovery, often integrated into college courses.

## What impact has the Tiny Earth Project had so far?

Tiny Earth has led to the discovery of numerous novel antibiotic-producing bacteria and raised awareness about antibiotic resistance while training the next generation of scientists.

## How can educators get involved with the Tiny Earth Project?

Educators can join the Tiny Earth network by incorporating its curriculum into their courses and accessing resources and training provided by the project to facilitate student participation.

## Additional Resources

### 1. *Exploring Microbial Diversity: The Tiny Earth Project*

This book delves into the fascinating world of microbes uncovered through the Tiny Earth Project. It highlights the global student initiative aimed at discovering new antibiotics from soil bacteria. Readers will learn about the scientific methods used, the importance of microbial diversity, and the potential impact on combating antibiotic resistance.

### 2. *Antibiotic Discovery in the Age of Tiny Earth*

Focusing on the ongoing antibiotic crisis, this book explores how the Tiny Earth Project empowers students worldwide to contribute to new drug discovery. It provides insights into the challenges of antibiotic development and showcases success stories from the project. The narrative bridges scientific research with educational innovation.

### 3. *Soil Microbes and Human Health: Insights from Tiny Earth*

This volume examines the critical role soil microbes play in human health and medicine. Inspired by the Tiny Earth Project, it discusses techniques for isolating and studying soil bacteria that could lead to breakthrough antibiotics. The book also explores environmental factors influencing microbial populations.

### 4. *Citizen Science and the Tiny Earth Initiative*

Highlighting the power of citizen science, this book tells the story of how students and educators contribute to real-world scientific research through Tiny Earth. It features practical guides on participating in the project and emphasizes the educational benefits alongside scientific outcomes. The book aims to inspire more community involvement in science.

### 5. *From Soil to Solution: The Tiny Earth Approach to Antibiotic Resistance*

This book outlines the step-by-step process Tiny Earth uses to combat antibiotic resistance by sourcing novel compounds from soil bacteria. It combines scientific explanation with case studies of discoveries made by student researchers. Readers gain an understanding of both the problem and the innovative grassroots solution.

#### 6. *Innovations in Microbiology Education: Lessons from Tiny Earth*

Focusing on pedagogy, this book explores how the Tiny Earth Project transforms microbiology education through hands-on research experiences. It discusses curriculum development, student engagement, and assessment strategies that have proven successful. Educators will find valuable tools for incorporating authentic research into their teaching.

#### 7. *Global Collaboration in Antibiotic Research: Tiny Earth's Network*

This book investigates the international collaboration fostered by the Tiny Earth Project. It highlights how students and scientists across continents work together to identify new antibiotics and share data. The text emphasizes the importance of global partnerships in addressing public health challenges.

#### 8. *The Science Behind Tiny Earth: Microbial Ecology and Drug Discovery*

Offering a deep dive into the scientific foundations of Tiny Earth, this book covers microbial ecology, genetics, and biochemistry relevant to antibiotic discovery. It explains how understanding microbial interactions and gene expression aids in finding effective new drugs. The book is suitable for readers with a strong interest in microbiology.

#### 9. *Empowering Students Through Research: The Tiny Earth Experience*

This inspirational book shares personal stories from students who participated in Tiny Earth, highlighting the impact on their academic and career paths. It discusses how hands-on research fosters critical thinking, creativity, and a passion for science. The book aims to motivate educators and students to embrace research-based learning.

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**tiny earth project: Tools, Techniques, and Strategies for Teaching in a Real-World Context With Microbiology** Davida Smyth, Nichole A. Broderick, Laura Bowater, Carlos C. Goller, 2021-12-02

**tiny earth project: STEM Education for the 21st Century** Bryan Edward Penprase, 2020-04-07  
This book chronicles the revolution in STEM teaching and learning that has arisen from a convergence of educational research, emerging technologies, and innovative ways of structuring both the physical space and classroom activities in STEM higher education. Beginning with a historical overview of US higher education and an overview of diversity in STEM in the US, the book sets a context in which our present-day innovation in science and technology urgently needs to provide more diversity and inclusion within STEM fields. Research-validated pedagogies using active learning and new types of research-based curriculum is transforming how physics, biology and other fields are taught in leading universities, and the book gives profiles of leading innovators in science education and examples of exciting new research-based courses taking root in US institutions. The

book includes interviews with leading scientists and educators, case studies of new courses and new institutions, and descriptions of site visits where new trends in 21st STEM education are being developed. The book also takes the reader into innovative learning environments in engineering where students are empowered by emerging technologies to develop new creative capacity in their STEM education, through new centers for design thinking and liberal arts-based engineering. Equally innovative are new conceptual frameworks for course design and learning, and the book explores the concepts of Scientific Teaching, Backward Course Design, Threshold Concepts and Learning Taxonomies in a systematic way with examples from diverse scientific fields. Finally, the book takes the reader inside the leading centers for online education, including Udacity, Coursera and EdX, interviews the leaders and founders of MOOC technology, and gives a sense of how online education is evolving and what this means for STEM education. This book provides a broad and deep exploration into the historical context of science education and into some of the cutting-edge innovations that are reshaping how leading universities teach science and engineering. The emergence of exponentially advancing technologies such as synthetic biology, artificial intelligence and materials sciences has been described as the Fourth Industrial Revolution, and the book explores how these technologies will shape our future will bring a transformation of STEM curriculum that can help students solve many the most urgent problems facing our world and society.

**tiny earth project: *The Next Happiest Place on Earth*** Greg Triggs, 2016-03-12 Frances Fiore is saying good-bye, New York, hello, Central Florida. Her new employer is a theme park bunny named Binger with delusions of Mickey Mouse grandeur. Her landlady is an aging but forever elegant southern belle. Theres an office romance to deal with despite an unresolved feeling or two for her ex-husband and what happened between them. Divorce was hard, but healing will be harder, especially when youre working full-time in the next happiest place on Earth.

**tiny earth project: *Regaining Sanity for the Earth*** Klaus Nürnberger, 2011-06-02 For centuries science and faith have been drifting apart. Science lost its transcendent foundations, faith lost its credibility. Science conquered the future; faith got stuck in the past. Science unleashed unprecedented powers; faith became a private pastime. The economic and ecological consequences are catastrophic. Science and faith must reconnect and lead the way out of the crisis.

**tiny earth project: *Blue Ribbon Science Fair Projects*** Glen Vecchione, 2008-02-05 Contains fun science fair projects that encourage learning and could win you a blue ribbon.

**tiny earth project: *Iniciatives to educational and teaching innovation*** Ma del Rocío Bonilla Quijada, 2023-11-22

**tiny earth project: *Nanosatellites*** Rogerio Atem de Carvalho, Jaime Estela, Martin Langer, 2020-03-16 Nanosatellites: Space and Ground Technologies, Operations and Economics Rogerio Atem de Carvalho, Instituto Federal Fluminense, Brazil Jaime Estela, Spectrum Aerospace Group, Germany and Peru Martin Langer, Technical University of Munich, Germany Covering the latest research on nanosatellites Nanosatellites: Space and Ground Technologies, Operations and Economics comprehensively presents the latest research on the fast-developing area of nanosatellites. Divided into three distinct sections, the book begins with a brief history of nanosatellites and introduces nanosatellites technologies and payloads, also explaining how these are deployed into space. The second section provides an overview of the ground segment and operations, and the third section focuses on the regulations, policies, economics, and future trends. Key features: Payloads for nanosatellites Nanosatellites components design Examines the cost of development of nanosatellites. Covers the latest policies and regulations. Considers future trends for nanosatellites. Nanosatellites: Space and Ground Technologies, Operations and Economics is a comprehensive reference for researchers and practitioners working with nanosatellites in the aerospace industry.

**tiny earth project: *Apple Vision Pro for Creators*** John Ray, 2024-08-22 For those who want to explore, imagine, and truly “Think different,” welcome to a journey of creation through the Apple Vision Pro. Apple Vision Pro for Creators: A Beginner’s Guide to Building Immersive Experiences

introduces the Apple Vision Pro headset to creative enthusiasts, offering a guide to crafting experiences that leverage its unique features. Not a developer? No worries—code and concepts are introduced and explained in easy-to-understand terms. You'll learn how to code 2D/3D applications, create immersive spaces, design procedural materials, use photogrammetry to build detailed 3D models, track user gestures, play spatial audio, and deliver your creations through the App Store or TestFlight. Cut through complexity and jargon using this guide and the accompanying exercises that make the most of Apple's latest software. Readers will learn to leverage cutting-edge development tools and techniques as they Learn Apple Vision Pro core concepts and AR/VR terminology Master Apple development tools and languages while building interactive projects Explore how to scale experiences from simple windows to fully immersive spaces Build interactive 3D scenes with your own objects and materials Add lighting and spatial audio effects to enhance realism Seamlessly mix the real and virtual worlds with advanced object behaviors Implement assistive technologies to bring your work to a diverse audience

**tiny earth project:** Native Heart Gabriel Horn, 2003-05-01 Most lives are lived solely in the present. But some lives are also lived with a spiritual and historical connection to the past. These lives grant us a sense of hope for the future. NATIVE HEART is the story of Gabriel Horn and his attempt to live a modern man's life that's true to the indigenous spirit of this land we call America. As a teacher in the American Indian Movement Survival Schools, and as a writer, activist, husband, and father, Horn presents a challenging and haunting perspective on our new world culture and values. Whether it's revealing a genocide Western historians choose to ignore, enabling Native American prisoners to pray with the pipe, or teaching his own Native children the lessons of nature and history, Horn stays true to his heart and to the vision that inspired his journey. His encounters with the shadow people, his relationship to the Earth, and his quest for understanding and purpose within the Great Holy Mystery are retold in this intimate autobiographical novel.

**tiny earth project:** Soviet Life , 1987

**tiny earth project:** *Developing Your Sixth Sense* Stuart Wilde, 2022-09-20 Most of us go through life experiencing only the material world, using our five physical senses - and not to their full potential, at that. But on rare occasions, we will catch a glimpse of the hidden, mysterious aspect of our existence, a flash of insight or inspiration received through the sixth sense. What we call the sixth sense is a natural, intuitive state of higher consciousness and spiritual awareness, a special power of inner knowing and psychic ability. Everyone has it, although it lies dormant in most people. But if nurtured and developed - a process easier than one might think - the sixth sense can be awakened, honed, and used to achieve greater joy and understanding in every aspect of your life, from your relationships to your financial affairs. In *Developing Your Sixth Sense*, world-renowned author and lecturer Stuart Wilde will show you practical ways to tap into this profound ability to improve the quality of your life's journey. You will learn: Seven levels of supersensory communication. How to win people over and discover the real meanings behind their words. How to control your etheric body. An action plan for creating your own luck. How to be a powerhouse of creativity. Energy patterns for loving relationships. The ESP of easy money. A system for recognizing types of people and avoiding the demands they can place on you. How to open and energize your chakras for healing. Why it's important not to interfere. How to protect yourself from negative energy. Techniques for communicating with other realms of existence. And much more... an infinite adventure.

**tiny earth project:** Life Inside Our Bodies Mehdi Alem, Ph.D., 2013-12-17 A scientist who has been originally trained as a biologist and has always been interested in life on Earth and outside the universe proposes a project to investigate the presence of a different form of life in the universe. This scientist has fifty years' experiences in different aspects of life. He also has updated knowledge about our planet, our galaxy, our universe, and other possible universes. He is familiar with the latest findings and improvements in the field of theoretical physics and investigations that had been so far done and had been focused on finding lives in other solar systems. To obtain approval and funds for his project, he contacts one of the highly advanced scientific societies in the United States

and presents a series of scientific talks. In his presentations, he states, “Why, out of over two million different species living on Earth, only humans (*Homo sapiens*) are considered the most advanced one, and why, if we are looking for lives outside our planet, are we always looking for some sort of humanlike creature?” He tries to convince the scientists that there must be billions of other types of beings in our universe and other universes. These different types of lives can be much smaller or much larger than us. They can be much more intelligent and highly advanced creatures when compared with humans on Earth. They may not necessarily need water, moderate temperature, simple energy sources, etc. They may not reproduce the way that we do and may not even die, which is the final chapter in our lives. Finally, he will convince several distinguished scientists to support his project. With the help of several additional young scientists who are experts in different fields of science, in a highly advanced scientific institution, finally they prove that lives could be much simpler and at the same time more advanced than us. By doing extensive research, they finally find creatures that are extremely smaller than us and start communicating with them. Although this book presents a science fiction story, the processes by which the scientists discover these small creatures are completely and purely based on the latest and updated scientific findings, which means the story may become a true story in the coming years.

**tiny earth project: Regionalists on the Left** Michael C. Steiner, 2015-02-02 “Nothing is more anathema to a serious radical than regionalism,” Berkeley English professor Henry Nash Smith asserted in 1980. Although regionalism in the American West has often been characterized as an inherently conservative, backward-looking force, regionalist impulses have in fact taken various forms throughout U.S. history. The essays collected in *Regionalists on the Left* uncover the tradition of left-leaning western regionalism during the 1930s and 1940s. Editor Michael C. Steiner has assembled a group of distinguished scholars who explore the lives and works of sixteen progressive western intellectuals, authors, and artists, ranging from nationally prominent figures such as John Steinbeck and Carey McWilliams to equally influential, though less well known, figures such as Angie Debo and Américo Paredes. Although they never constituted a unified movement complete with manifestos or specific goals, the thinkers and leaders examined in this volume raised voices of protest against racial, environmental, and working-class injustices during the Depression era that reverberate in the twenty-first century. Sharing a deep affection for their native and adopted places within the West, these individuals felt a strong sense of avoidable and remediable wrong done to the land and the people who lived upon it, motivating them to seek the root causes of social problems and demand change. *Regionalists on the Left* shows also that this radical regionalism in the West often took urban, working-class, and multicultural forms. Other books have dealt with western regionalism in general, but this volume is unique in its focus on left-leaning regionalists, including such lesser-known writers as B. A. Botkin, Carlos Bulosan, Sanora Babb, and Joe Jones. Tracing the relationship between politics and place across the West, *Regionalists on the Left* highlights a significant but neglected strain of western thought and expression.

**tiny earth project: Dinner on Mars** Lenore Newman, Evan D. G. Fraser, 2022-10-11 “This culinary cosmic outing is as creative as it is informative.” — STARRED review, Publishers Weekly From Impossible Burgers to lab-made sushi, two witty, plugged-in food scientists explore leading-edge AgTech for the answer to feeding a settlement on Mars — and nine billion Earthlings too Feeding a Martian is one of the greatest challenges in the history of agriculture. Will a Red Planet menu involve cheese and ice cream made from vats of fermented yeast? Will medicine cabinets overflow with pharmaceuticals created from engineered barley grown using geothermal energy? Will the protein of choice feature a chicken breast grown in a lab? Weird, wonderful, and sometimes disgusting, figuring out “what’s for dinner on Mars” is far from trivial. If we can figure out how to sustain ourselves on Mars, we will know how to do it on Earth too. In *Dinner on Mars*, authors Fraser and Newman show how setting the table off-planet will supercharge efforts to produce food sustainably here at home. For futurists, sci-fi geeks, tech nuts, business leaders, and anyone interested in the future of food, *Dinner on Mars* puts sustainability and adaptability on the menu in the face of our climate crisis.

**tiny earth project:** *Hearings, Reports and Prints of the Senate Committee on Aeronautical and Space Sciences* United States. Congress. Senate. Committee on Aeronautical and Space Sciences, 1974

**tiny earth project:** *NASA Authorization for Fiscal Year 1975* United States. Congress. Senate. Committee on Aeronautical and Space Sciences, 1974

**tiny earth project: Future Space Programs** United States. Congress. House. Committee on Science and Technology, 1978

**tiny earth project:** *Popular Science* , 1943-01 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

**tiny earth project:** Hope and Community Veli-Matti Kärkkäinen, 2017 The culmination of Kärkkäinen's multivolume magnum opus This fifth and final volume of Veli-Matti Kärkkäinen's ambitious five-volume systematic theology develops a constructive Christian eschatology and ecclesiology in dialogue with the Christian tradition, with contemporary theology in all its global and contextual diversity, and with other major living faiths--Judaism, Islam, Buddhism, and Hinduism. In Part One of the book Kärkkäinen discusses eschatology in the contexts of world faiths and natural sciences, including physical, cosmological, and neuroscientific theories. In Part Two, on ecclesiology, he adopts a deeply ecumenical approach. His proposal for greater Christian unity includes the various dimensions of the church's missional existence and a robust dialogical witness to other faith communities.

**tiny earth project:** *EXODUS to NEW ISRAEL* Carlos Henri Cohen, 2015-10-29 Between the years 2020 to 2034 more than nine million Jews, inspired and led by a remarkable man, migrate from the insecurity and uncertainty of Israel in the Middle East to a secure and peaceful New Israel in the Baja California peninsula of Mexico. In this story, Dr. Yohan Cohen details the life of Ari Netanyahu and his messianic mission to deliver the Jewish people away from the hostility of the Arab world. Confronting the terrible drug cartel wars that torment Mexico with incredible violence and high death tolls, Ari Netanyahu and his associates from Mossad, the Israeli secret service, lead an anti-drug cartel campaign that eventually eliminates the cartel threat in Mexico and Central America. Dire predictions and warnings by climate scientists about global warming become reality as chilling views are seen of what a hotter world will be in twenty-two years. Mark Twain said, "Whiskey is for drinking; water is for fighting over," and water soon becomes more precious than gold. In the Middle East, water becomes more sought after than oil. Major future geopolitical events occur in the Middle East and the Far East, and Dr. Cohen's story ends in 2037 with a catastrophic event in the State of Palestine shortly after all Jews have resettled in their new homeland of Nuevo Israel in Mexico.

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