

## Lappin Voices for Science – Additional Documentation

The central focus of this science communication initiative is to translate existing astrobiology and origin of life research, enhanced with my independent mixed modality research and case studies, into the healthcare and medical field, emphasizing the science as well as economic and legal implications.

See: <https://interogenesis.com>

This informal study has identified principles within astrobiology, origin of life, and protocell structures and mechanism of action that when translated and promoted with outreach will help solve systemic inefficiencies in the healthcare and medical field – thus reducing costs and increasing benefits.. This means that the astrobiology/origin of Life (OOL) research will help people be more healthy across the life cycle, and help reduce the cost and burden of illness.

Specifically this initiative will examine the deep evolution of OOL/ cosmo-chemistry and protocell model into modern human anatomy and physiology, and the insights provided to mental, emotional, visceral states of the human body that influence health.

The design of this initiative is to launch an astrobiology/OOL informed public health initiative. This is an infrastructure initiative that has been in development for some time. The initiative is at the intersection of astrobiology, medicine/healthcare, economics, and law. The research in astrobiology helps reveal the opportunity at the intersection of these disciplines, as they share a common foundation in principles of biology.

To give a time marker for the foundation and magnitude of this initiative, please see this letter from the former Chairman of the Board of Governors of the Federal Reserve, Alan Greenspan. His letter facilitated a phone conversation with the Nancy Goodman Co-Chair of the Committee on Public Information at The Fed. Ms. Goodman expressed that The Fed was interested in research such as I was pursuing.

<https://interogenesis.com/images/files/Alan-Greenspan.pdf>

I have been building a network of contacts within the health and medical industry, legal industry, and economic industry, ranging from researchers, clinicians, to top executives.

This initiative will be catalyzed by my recent research and activities in space sciences and astrobiology.

I am an invited member in NASA Astrobiology Science Guild

See: <https://astrobiology.nasa.gov/resources/scicomm-guild/>

And

[https://docs.google.com/spreadsheets/d/1rYx9bMq7WxgkWqpZY\\_-VMXFAXsYARgTSqQtJPzGoD\\_k/edit?pli=1#gid=634347005](https://docs.google.com/spreadsheets/d/1rYx9bMq7WxgkWqpZY_-VMXFAXsYARgTSqQtJPzGoD_k/edit?pli=1#gid=634347005)

As well, I have been selected to participate (Tier 2) the NASA Workshop:

Communicating Discoveries in the Search for Life in the Universe

See:

<https://astrobiology.nasa.gov/events/communicating-discoveries-in-the-search-for-life-i/>

My outreach activities will be informed by my attendance at:

AGU Fall Meeting – 2019, 2023

The Astrobiology Science Conference – 2022, 2024 (planned)

I have already offered briefings to some of these organization, see:

<https://interogenesis.com/references-testimonials.html#Letter>

If AGU selects me to participate in the Voices for Science, I will offer briefings and education courses (live and online) to the organizations and individuals listed below over the course of this year. As this is a large roster, some have higher priority than others. I will be very active, more than the once per month minimum for the Voices for Science position.

As this outreach initiative may be outside the norm for previous AGU Voices for Science awardees, I invite you to contact me with any questions to clarify, discuss or expand upon what has been submitted in this application

Thank you for the opportunity to submit this application.

Regards

Daniel J. Lappin BA, CMP

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Organizations that will be offered a briefing, education opportunity:

## NASA

Chief Health and Medical Officer, Dr. James Polk

Office of Communication – Gary Willis, project manager, NASA Economic impact

Contact has been established. They have expressed interest in the project.

NASA, Heliophysics Science Division, Antti Pulkkinen, Deputy Director

Contact has been established. They have expressed interest in the project.

NASA Chief Artist – offer a briefing related to a commemorative art piece and lecture series (astrobiology informed) celebrating the lunar landing of the first woman, and first African American on the moon.

NASA/ John W. Kluge Center at the Library of Congress – a lecture series in collaboration with the upcoming Artemis Lunar landing, exploring astrobiology, humanity and lunar exploration.

See: <https://www.loc.gov/programs/john-w-kluge-center/chairs-fellowships/chairs/blumberg-nasa-chair-in-astrobiology/>

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Jenny Mottar, Art Director for NASA Science, NASA Headquarters

## American Geophysical Union

Billy Williams, Executive Vice President, Diversity, Equity, and Inclusion

Contact has been established. He Has expressed interest in the project.

Joshua Weinberg, Vice President, Strategic Communications and Marketing

Contact has been established. He Has expressed interest in the project.

Dr. Samantha Streamer Veneruso, Dir. Of Learning.

Contact has been established. They have expressed interest in the project.

## Federal Reserve Bank Public Information Office

Contact has been established. They have expressed interest in the project.

## Economics

Nobel Laureate in Economics, Prof James Heckman, Professor of Economics, The University of Chicago

Contact has been established. He has expressed interest in the project.

## Department of Health and Human Services

Assistant Secretary for Preparedness and Response

Daniel Dodgen, Senior Advisor, Strategy, Policy, Plans & Requirements

Contact has been established. He has expressed interest in the project.

National Academies of Science, Engineering, and Medicine

Victor Dzau, President, National Academy of Medicine

Contact has been established. He has expressed interest in the project

## California Surgeon General, Dr. Diana Ramos

Contact has been established.

## University of California San Francisco (UCSF)

Office of the Chancellor

Contact has been established

UCSF Department of Obstetrics, Gynecology, and Reproductive Health.

Dr. Andrea Jackson, Chair

Contact has been established. They have expressed interest in the project.

UCSF Catalyst Innovation – Rare Disease Symposium

UCSF Space Medicine, Aenor Sawyer MD

Contact has been established.

## Kaiser Permanente

Office of the Chairman

Contact has been established. They have expressed interest in the project.

Clinical Mental Health Department.

Contact has been established. They have expressed interest in the project.

## The American Bar Foundation

Contact has been established with one of their research Associates, Prof. James Heckman

## Marin County Bar Association – Family law section

Contact has been established. They have expressed interest in the project.

## California Schools of Nursing:

University of California Davis

University of California San Francisco

Kaiser Permanente Nursing Department

## Various University Earth and Space Scientists.

At the AGU Fall Meeting 2023, approximately a dozen researchers from various universities expressed interest in a briefing on the research.

## San Francisco Bay Area community outreach

LGBTQ Community Center

Native American Indian Health Resource Center

Schurig Center for Brain Injury and Recovery

High school athletics departments