



GYRA Newsletter

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EDITORIAL

Ethical Research

Dear GYRAites,

What if you are invited to be part of an experiment where people don't tell you the truth or treat you fairly? Surely, you would protest. Sadly, history has examples where scientists failed to respect people's dignity and rights. For instance, in the Tuskegee Syphilis Study, doctors observed people with a disease but didn't treat them, even when a cure was found. In another case, called the Milgram Experiment, volunteers were told to give others electric shocks, thinking they were causing real pain. These experiments hurt people and broke their trust in science.

As future scientists, you have the power to shape a better world. Research is about learning and discovery but must be done with honesty, respect, and care. When you conduct a study, remember that the people (or animals, or environment) involved depend on you to act responsibly. Ask yourself, "Are we treating others with kindness? Are we being truthful and fair?"

Ethical research is about building trust. When people trust science, they'll support it, which can change the world. Let's work together to be ethical researchers who bring knowledge, integrity, and kindness into everything we do.

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"Research means that you don't know, but are willing to find out"

- Charles F. Kettering

Kettering - American engineer, Invented the electric starter
used in combustion engines

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Upcoming Events

Virtual Symposium

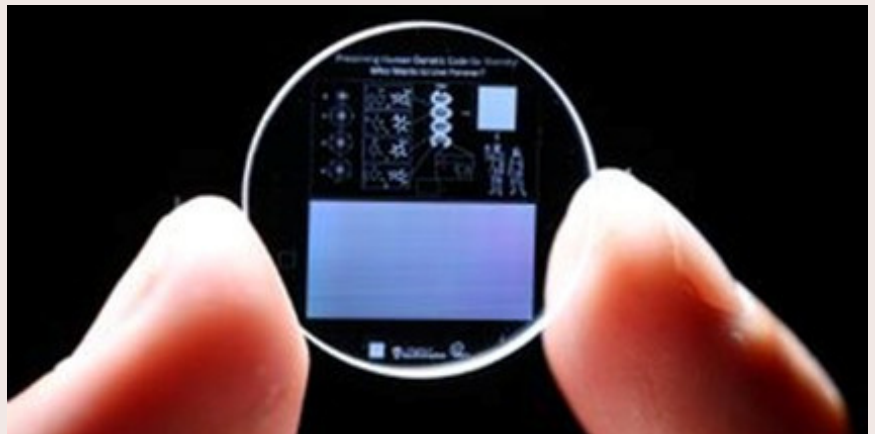
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For those interested in hosting the Virtual Symposium in January, please drop an email to
thinkgyra@gmail.com

CURIOUS FACTS

“ Human genome stored inside near-indestructible '5D memory crystal' that could survive to the end of the universe ”

The record-breaking crystal will act as a DNA time capsule that could be used to bring back humanity after our extinction, researchers say. But not everyone is convinced.

Scientists used lasers to transcribe all 3 billion letters of the human genome onto a "5D memory chip" the size of a coin. (Image credit: University of Southampton). For the first time, scientists have stored a copy of humanity's genetic blueprint inside a near-indestructible "5D memory crystal" — a new data storage format that



could keep the valuable information safe for billions of years, or even potentially to the end of time.

The researchers believe the DNA time capsule could be used to revive our species long after we have gone extinct. But not everyone agrees.

The coin-size crystal, developed by researchers at the University of Southampton in England, is made from a synthetic material that mimics the properties of fused quartz — a glass made of almost pure silica, which is one of the most thermally and chemically stable materials ever discovered. The team first pioneered the crystal in 2014, and it's remained the "most durable data storage material" on the planet ever since, according to Guinness World Records.

Welcome on Board

Dr. Sharvari Deshpande is a researcher with a Ph.D. in Life Sciences (specialization in Reproductive Biology and Endocrinology)



from ICMR -National Institute for Research in Reproductive Health and University of Mumbai, India, where she studied the effects of paternal obesity on spermatogenesis and its subsequent impact on placenta and embryo. She has 22 publications and has received multiple awards and scholarships for her research. Currently a Post Doctoral Research Fellow at Joslin Diabetes Center and Harvard Medical School in Dr. Laurie Goodyear's Lab, she is investigating the effects of maternal exercise on offspring's health. Her work bridges the gap between reproductive biology and metabolism, aiming to influence future preventive interventions against metabolic diseases and related complications. Her goal at GYRA is to mentor students, assist them in acquiring a scientific attitude, and encourage curiosity and problem-solving skills.

New Leadership for GYRA Global



Dr. Irimpan Mathews President

Dr. Irimpan Mathews, the Lead Scientist of SLAC National Accelerator Laboratory at Stanford University, California, USA., is the new President of GYRA Global. He has 76 publications in various high impact scientific journals to his name. He earned his Ph.D. in Chemistry from the Indian Institute of Science, Bangalore. Dr. Mathews completed his postdoctoral research at Michigan State University and Cornell University and has made significant contributions to life and basic sciences. His expertise and leadership are set to guide GYRA Global in fostering innovation and collaboration among researchers worldwide.



Dr. Vipindev Adat Secretary

Dr. Vipindev Adat Vasudevan, a distinguished researcher and academic, is currently a Postdoctoral Associate at the

Massachusetts Institute of Technology (MIT) with the Network Coding and Reliable Communications Group. Dr. Vipindev holds a B.Tech. in Electronics and Communication Engineering from Mahatma Gandhi University, Kerala (2014), an M.Tech. in Computer Engineering (Cyber Security) from the National Institute of Technology, Kurukshetra (2017), and a Ph.D. in Information and Communication Technologies from the University of Vigo, Spain (2022). His impressive career includes roles as a Marie Curie Fellow at the Wireless Telecommunications Laboratory, University of Patras, Greece, and as a Research Officer in the Commission for Higher Education Reforms under the Kerala State Higher Education Council.



Ms. Divya V V Treasurer

Ms. Divya Vijayan brings over a decade of experience in academia, research, mentoring, and IT to her role as treasurer and mentor with GYRA Global. With a Master's and Bachelor's Degree in Computer Science, her career highlights include

serving as a Research and Development Engineer at Kerala Blockchain Academy and as an Assistant Professor at Sarabhai Institute of Science and Technology. Divya has a strong foundation in education and research, with expertise in technical areas of computer science, including image processing. She has contributed to multiple research publications, conducted technical training programs and workshops, and has a proven track record of mentoring students and fostering academic excellence. As the treasurer of GYRA Global and mentor, Divya is dedicated to guiding young researchers, sharing her expertise, and inspiring the next generation to achieve their potential in cutting-edge research and innovation.



Ms. Devi Gireesh Head of IT

Devi Gireesh serves as the Head of IT at GYRA, bringing her extensive expertise and leadership to the organization. Based in the Bay Area, California, she holds a Bachelor's Degree in Computer Science Engineering and has a professional journey spanning India, Singapore, and the United States.

With a strong foundation in software development, Devi is also deeply committed to community service. She actively volunteers and serves as PTA President at a Bay Area public school, reflecting her passion for fostering growth and collaboration. In her role at GYRA, Devi is dedicated to empowering young researchers by developing a global platform for seamless collaboration, knowledge sharing, and innovation. Her leadership aims to showcase their work and enable them to gain the global recognition they deserve.

Founders' Legacy

GYRA family extends its deepest gratitude to our three founding members: **Dr. Finosh G. Thankam (President), Mr. Raibin Raphy (Secretary), and Mr. Viju Kolattukudy (Treasurer)**, whose visionary guidance and tireless dedication have shaped this pioneering initiative. Their legacy as trailblazers continues to inspire, as they now transition to roles of supporting leadership. We wish the new team every success in carrying this vision forward.

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