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Notice for the PhD Viva Voce Examination

Ms Helen P Azyu, Registration Number: 2090090, PhD Scholar at the School of Law, CHRIST (Deemed to be University) will defend her PhD thesis at the public viva-voce examination on Tuesday, 07 April 2026 at 02.30 pm in Room No. 044, Ground Floor, R&D Block, CHRIST (Deemed to be University), Bengaluru - 560029, Karnataka, India.

- Title of the Thesis** : **Bioethics and Patentability of Biotechnology Inventions Under the Patents Act, 1970: A Comparative Study of the Legal Framework among India, the U.S, and the EU**
- Discipline** : **Law**
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The members of the Research Advisory Committee of the Scholar, the faculty members of the Department and the School, interested experts and research scholars of all the branches of research are cordially invited to attend this open viva-voce examination.


Registrar (Academics)

Place: Bengaluru
Date: 25 March 2026

ABSTRACT

The biotechnology industry continues to expand rapidly, bringing with it complex challenges for patent law, particularly in protecting intangible property vested in biotechnology inventions that rely on naturally occurring biological materials. Patenting biotechnology not only raised legal ambiguity but also have raised moral concerns significantly. The United States does not based morality or contrary to public order in their patent process. In contrast, both India and the European Union incorporate morality based exclusion that prohibits inventions contravened with public order or morality. However, due to the uncertainty of morality provision, its interpretation have often led the patent office to use their discretionary power. The existing literature examines bioethical justification in terms of bioethical principles such as autonomy, beneficence, nonmaleficence, and justice incorporated in biotechnology field. This study explores the legal framework governing morality provision in India, the United States, and the European Union. These three jurisdictions illuminate the convergences and divergences in interpreting morality provisions by referring to various case precedents, statutes, and legal references within the patent laws of the United States and the European Union as a benchmark for evaluating India's patent system. The paper proposes and suggests clarifying the morality clauses of the Patents Act of India to keep up with the advancements in biotechnology inventions by providing a clear definition of morality or contrary to public order, instead of patent controllers exercising their discretionary power unguided. The present research highlights that it is vital to consider moral implications as biotechnology evolves, ensuring that law and morality foster a holistic and informed approach to shaping the future of biotechnological inventions in a global context.

Keywords: *Biotechnology Inventions, Patent Law, Morality, Public Order, Bioethics Principles, India, United States, European Union.*

Publications:

1. **Helen P Azyu & Avishek Chakraborty**, Interface between Legal and Moral Implications on Patenting Biotechnological Inventions: A Comparative Analysis of the Patents Law of India, the US and the EU, *Journal of Intellectual Property Rights (JIPR)*, Vol 30, May 2025, pp 336-348.
2. **Helen P Azyu & Avishek Chakraborty**, Interaction of Ethics and Biotechnology Patent Law: A Comparative Study of India and the European Union, *Handbook on Comparative IPR Law Technology Law and Emerging Legal Domains (2024)*. ISBN: 978-93-95764-85-8.
3. **Helen P Azyu & Avishek Chakraborty**, Patentability of Biotechnology Inventions: Indian Ethical Guidelines, *Journal of Dharma*, Vol. 48, No. 1 (2023).