INNBC Project Whitepaper

1. Introduction—The INNBC Genesis (2018-Present)

INNBC was conceived and founded in 2018 by Jonathan Fior, a biomedical research and computer scientist. Originally launched under Innovative Bioresearch Ltd*****, the project was created to bridge the gap between high-level biomedical research and blockchain technology. The **INNBC** project is the original pioneer of the DeSci (Decentralized Science) model, being the first to produce real scientific publications indexed on PubMed and published in highly reputable scientific journals like Springer Nature through a crypto-ecosystem. This vision has gained global academic recognition, with the research being cited by top academic institutions, including Harvard University.

***Note:** This Whitepaper is published by **Innovative Bioresearch Ltd** (20-22 Wenlock Road, London, N1 7GU, UK; company number: 11386871; https://www.innovativebioresearch.com/), acting solely as the software developer and technical contributor for the INNBC protocol. The INNBC L1 Chain is designed as a decentralized infrastructure, owned and operated by its users through a democratic resource model, without a single central issuer (Refer to **MiCA Recital 22**, which excludes crypto-assets that are truly decentralized and have no identifiable issuer from certain prospectus requirements). This document is for informational purposes only and describes the technological evolution of a protocol established in 2018. It does not constitute a public offering of financial instruments or crypto-assets under Regulation (EU) 2023/1114 (MiCAR). The developer does not exercise any control over users' funds, nor does they hold access to private keys or custodial authority over the network's assets.

2. INNBC Core Technologies

- **DeSci Model:** The DeSci (Decentralized Science) model is an innovative approach to applying blockchain technology to scientific research. This model supports drug development and scientific research by allocating a portion of the INNBC token supply. It ensures that all scientific research findings undergo peer-review and are indexed on PubMed, establishing genuine scientific credibility. Peer-review evaluates a study's validity, importance, and originality in order to serve as a filter and guarantee that only high-caliber research is published, especially in reputable journals. The scientific community will only accept as valid those results that have undergone peer-review and have been published in academic scientific journals. INNBC ERC20 token official contract address (Ethereum): 0xB67718b98d52318240c52E71A898335da4A28c42

- **Decentralized Applications (DApps):** Through the INNBC Biomedical DApp, the project has achieved decentralized storage and sharing of scientific data. The DApp provides features such as identity, timestamping, content, and immutability (ITCI), which are useful for scientific research and have wide-ranging applications in other industries.
- **INNBC Gaming:** the INNBC project develops real-world products in the field of game development. High-quality free-to-play games that provide real-world utility to the token, released on Steam. INNBC Starfighter, a shooter with crisp high-resolution graphics and smooth 60fps+ gameplay, is kicking off the INNBC series.
- **Software Excellence:** Building a resilient infrastructure that has survived multiple market cycles since 2018.

3. The INNBC Chain—A Democratic Layer 1 Infrastructure

3.1 The Paradigm Shift: From Asset to Infrastructure

The evolution of the **INNBC** ecosystem culminates in the transition from a legacy token to a sovereign, high-performance Layer 1 (L1) Blockchain. The INNBC Chain is engineered to serve as the permanent, decentralized foundation for the project's Scientific and Gaming ecosystems. By moving to a proprietary infrastructure, the network eliminates dependency on third-party protocols, ensuring long-term sustainability and ultra-low transaction costs tailored for decentralized data storage and real-time gaming interactions.

3.2 The Democratic Resource Model

At the heart of the **INNBC Chain** lies a unique Democratic Resource Model. Unlike traditional protocols that require high financial barriers to participate in network security, the INNBC Chain operates on a Zero-Threshold Staking

architecture.

- **The Voting Power of Resources:** Staking is redefined as a "Resource Vote." Users do not merely "lock" capital; they provide the essential economic resources that guarantee the blockchain’s existence.
- **Inclusive Decentralization:** By removing minimum staking requirements, the network ensures that every holder, regardless of the size of their contribution, has a voice in the network’s stability. This prevents the "cartelization" of nodes and ensures true community-driven governance.

3.3 Economic Consensus and Maintainer Accountability

The **INNBC Chain** introduces a transparent accountability loop between the protocol and its contributors:

- **The Consensus Mechanism:** Security is maintained through a refined Proof-of-Stake (PoS) system where the probability of block validation is proportional to the community's collective resource contribution.
- **The Role of Maintainers:** Technical execution—such as server optimization, node maintenance, and protocol upgrades—is performed by designated Maintainers. These entities act as the "technical muscles" of the network but lack administrative control over user assets.
- **The Check-and-Balance System:** The community holds the ultimate power. If the quality of the infrastructure or the technical stewardship fails to meet the required standards, users can dynamically withdraw their staking resources. This withdrawal acts as a "vote of no confidence," effectively halting the protocol and ensuring that the network exists only as long as it serves its users’ interests.

3.4 Technical Performance & Scalability

To support the intensive demands of DeSci (Decentralized Science) and high-fidelity Gaming (Steam integration), the INNBC Chain is optimized for:

- **High Throughput:** Capable of processing thousands of Transactions Per Second (TPS) to ensure seamless gaming experiences.
- **EVM Compatibility:** Full support for Ethereum Virtual Machine (EVM) smart contracts, allowing for easy migration of existing DApps and

integration with the wider Web3 ecosystem.

- **INNBC Wallet:** The INNBC wallet will natively support the chain advanced features such as Universal Wallet Compatibility and Multi-Chain Interoperability
- **Native Utility Integration:** The INNBC token serves as the "gas" of the network, with a redistribution model that rewards stakers directly from transaction fees, creating a non-inflationary, real-yield economy.

3.5 Environmental Sustainability and Energy Consumption

The INNBC L1 Chain is built upon a **Proof-of-Stake (PoS)** consensus mechanism, which is fundamentally designed for energy efficiency. Unlike legacy Proof-of-Work (PoW) systems that require massive computational power and electricity, the INNBC protocol secures the network through resource staking.

- **Low Carbon Footprint:** By eliminating the need for intensive mining hardware, the network's energy consumption is negligible, aligning with global standards for environmental sustainability

- **Efficiency by Design:** The architecture is optimized to process high transaction volumes (High Throughput) with minimal electrical overhead per transaction, making it one of the most eco-friendly infrastructure solutions in the DeSci and Gaming sectors.

4. Scientific Publications produced by Innovative Bioresearch

- Fior J. INNBC DApp, a decentralized application to permanently store biomedical data on a modern, proof-of-stake (POS), blockchain such as BNB Smart Chain. BMC Med Inform Decis Mak. 2024;24(1):109. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC11046759/
- Fior J. SupT1 Cell Infusion as a Possible Cell-Based Therapy for HIV: Results from a Pilot Study in HuPBMC BRGS Mice. Vaccines. 2016;4(2):13. https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/27128948
- Fior J. Salamander regeneration as a model for developing novel regenerative and anticancer therapies. J Cancer. 2014;5(8):715-9. https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/25258653
- Fior J. Is a pacific coexistence between virus and host the unexploited path that may lead to an HIV functional cure? Viruses. 2013;5(2):753-7. https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/23430684
- Fior, J. An initial in vitro investigation into the potential therapeutic use of SupT1 cells to prevent AIDS in HIV-seropositive individuals. PLoS ONE. 2012;7(5):e37511. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3359297

5. Latest News

- The INNBC Dapp study, the first official DeSci study on the real-world use of blockchain technology for biomedical data storage and sharing has been published: https://doi.org/10.1186/s12911-024-02498-z

SPRINGER NATURE

- Published in the prestigious journal "BMC Medical Informatics and Decision Making" by Springer-Nature, one of the world's most prestigious scientific publishers, the INNBC DApp study has been recently cited by Harvard University in a new paper authored by Peter Novak that focuses on a "Digital twin framework for postural tachycardia syndrome and autonomic disorders and published in the prestigious journal Frontiers in Neurology." Our work on decentralized blockchain technology for health data is now recognized as a possible key component in advanced digital twin health solutions.
- **INNBC STARFIGHTER:** The INNBC Starfighter Steam store page is officially approved and live as Coming Soon. Wishlist now and join the revolution!

6. Conclusion: Toward a Sovereign and Democratic Ecosystem

Through the INNBC project, we disrupt the traditional pharmaceutical and research paradigms with Web3 technology. By implementing the powerful combination of peer-reviewed scientific research and blockchain immutability, we are bringing unprecedented innovation and possibilities to the biomedical field. INNBC not only provides practical tools and transparent data architecture for researchers but also offers a seamless gateway for ordinary users to participate in the scientific revolution and for gamers to become an active part of a high-performance ecosystem.

The Next Frontier: The future of the project lies in the upcoming technological upgrade to the INNBC L1 Chain. This sovereign infrastructure represents the final step toward full decentralization. By transitioning to a proprietary Layer 1 protocol, INNBC will offer:

- **Total Economic Democracy:** Through the zero-threshold staking model, the community becomes the true engine of the network, providing the necessary resources for its existence and evolution.
- **Infrastructure for Innovation:** A dedicated environment where scientific data (DeSci) and gaming assets (Steam integration) can coexist with ultra-fast speeds and negligible costs.
- **Architectural Stewardship:** A model where technical development remains at the service of the community's resources, ensuring that the network remains future-proof, secure, and always aligned with the interests of its participants.

In conclusion, the **INNBC L1 Chain** is not just a technological upgrade, but a commitment to a decentralized future where science, gaming, and finance converge into a single, community-powered reality. We are moving from a tokenized asset to a global infrastructure that belongs to its users.

7. Disclaimer and Risk Factors

INNBC is a utility token meant as a means of accessing the project ecosystem and products. **INNBC** is not proposed as an investment. The purchase of INNBC token (hereinafter in this article “Risk Factors” referred to as the "Token" or "Tokens") may be associated with a high degree of risk. To protect the interests of Tokens’ potential purchasers, the development team conducted an analysis of such potential risks and outlined the result in this section of the Whitepaper.

IMPORTANT: THE LIST OF RISK FACTORS DESCRIBED BELOW IS NOT EXHAUSTIVE. IN ADDITION TO THE RISKS DISCLOSED IN THIS WHITEPAPER, THERE MAY BE EXISTING OTHER RISKS WHICH THE DEVELOPERS AT PRESENT CAN NOT REASONABLY FORECAST. Prior to acquiring Tokens, each potential Token purchaser is advised to carefully review all the information and assess the risks of such purchase.

1. Technical and technological risks

- 1.1. Risks of the blockchain: Malfunction of the blockchain protocol may lead to a restriction in the use of Tokens, and / or to the fact that Tokens or the platform will function in an unforeseen manner.
- 1.2. Risk of hacker attacks: Tokens can be expropriated and / or stolen by hacking or other attempts to intervene in smart contracts. In the event of such an error or weakness of the software, there can be no remedy, and token owners are not guaranteed any compensation.
- 1.3. Risk of loss of private keys: The loss of the necessary keys associated with a digital wallet can lead to loss of access to Tokens. **The Developers** assume no liability for such losses.
- 1.4. Risk of using new technologies: Tokens and blockchain are relatively untested technologies. There is no guarantee that in the future these technologies will not fail or become incompatible with new inventions.
- 1.5. Risk of incompatibility: The wallet service provider chosen by the tokenholder must be technically compatible with Tokens. **The Developers** assume no responsibility for errors related to the wrong determination of compatibility.
- 1.6. Financial risk: INNBC is neither proposed as an investment nor promised the generation of profits. Token holders must be warned about the potential risks associated with the volatility and liquidity of the crypto markets. **The Developers and Maintainers of the protocol** assume no responsibility for any financial loss related to the above.