

NIOME Release Plan

Decentralized pharmacogenomics modeling via synthetic
genomic challenges

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NIOME Subnet Contributors

Abstract. NIOME is a decentralized AI subnet that enables privacy-safe genomic intelligence by replacing real human genomes with high-fidelity synthetic genomic profiles. This document represents the controlled transition of a privately launched synthetic-genomics subnet into a fully open, verifiable, and community-operated pharmacogenomics network. It abstracts the journey from internal functionality to public transparency, from isolated experimentation to decentralized participation, and from prototype scoring loops to a stable, incentive-aligned mainnet system. The plan captures how NIOME progressively exposes its code, documentation, synthetic-genome methodology, and validator-miner dynamics while building a community capable of sustaining and improving the subnet.

Keywords: Bittensor; decentralized AI; testnet; mainnet; discord community;

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1. Overview

Subnet Name : NIOME (SN55)

Current Status : Subnet operational; codebase private; validators/miners running on testnet

Goal : guide NIOME's progression from a private subnet launch to a fully public ecosystem by releasing the codebase, onboarding the community, and preparing the network for a stable, mainnet-ready deployment while ensuring transparency for contributors, validators, miners, and ecosystem partners.

2. Release Objectives

2.1 Technical Objectives

- Open-source the full subnet codebase (miner, validator, protocol logic, scoring)
- Provide reproducible setup instructions for miners and validators
- Publish architecture documentation and API references
- Ensure security review and stability before mainnet release

2.2 Community Objectives

- Provide onboarding guides, FAQs, and troubleshooting docs
- Establish communication for updates and governance via discord and x/twitter

2.3 Ecosystem Objectives

- Align with Bittensor governance expectations
- Ensure compatibility with latest Bittensor protocol version

3. Release Phases & Timeline

Phase 1 Internal Stabilization (Present)

Deliverables:

- Basic validator/miner functionality, scoring logic
- Getting Feedback from validators on NIOME
- Internal monitoring dashboards
- Bug fixes and stability improvements

Phase 2 Public Code Release (Week 1 after plan approval)

Deliverables:

- Public Github Repository
- README with Subnet purpose, Architecture overview, Quickstart for miners/validators, Hardware requirements

Acceptance Criteria:

- Anyone can clone and run the subnet locally

Phase 3 Documentation & Developer Experience (Immediately after Code Release)

Deliverables:

- Full Document site - niome.genomes.io/docs
- Topics : Subnet Architecture, Scoring, Miner/Validator Lifecycle

Phase 4 Public Testnet Period (Week 1-2 after Code Release)

Deliverables:

- Open testnet for miners/validators
- Scoring calibration
- Security Review

Acceptance Criteria:

- Stable Scoring

- No critical vulnerabilities
- sufficient miner participation

Phase 5 Mainnet Release (after successful Testnet)

Deliverables:

- Mainnet subnet activation
- Tao Emission enabled
- Final Scoring Logic Locked
- Public Announcement via discord channel
- Long-term roadmap published

Acceptance Criteria:

- Subnet runs continuously with external miners/validators
- Emission distributed correctly
- Community adoption

4. Communication Plan

Channels

- discord
- x/twitter
- telegram

Cadence

- daily / weekly development update
- monthly roadmap update
- immediate announcement after break changes

5. Risk Management

Technical Risks

- Scoring exploits
- Miner spam or lower quality submissions
- Validator instability

Migration

- Security Review before mainnet release
- Rate limiting & validation checks
- Continuous monitoring

6. Responsibilities

- Codebase : NIOME dev team
- Community : SN owners and supporters
- Security : NIOME dev team
- Governance : Genomes.io

7. Final Deliverables Packages

- Public Github repo
- Fully Completed Documents
- Discord Community
- Testnet, Mainnet announcement
- Roadmap for next 6 - 12 months