es eterna

Achievements & Contributions

eternagame.org

This record is presented in recognition of contributions to Eterna, the internet-scale molecular design platform. Verify authenticity of this record at: https://eternagame.org/certificate/151903

ISSUED December 14, 2025

PLAYER DETAILS

PERSONAL NAME Luigi Usai

PLAYER NAME luigiusai

REGISTRATION DATE April 2014

GLOBAL RANK 1,116 of 421,190

PUZZLES CLEARED 287

PUZZLES CREATED 100

ADVANCED TUTORIALS CLEARED 1/10

Est 2010

Eterna puzzles are created by the Eterna team or players. They invite players to devise effective procedures for pairing nucleotides in hypothetical or biologically-inspired RNA strands.

Learn more on luigiusai's player profile: https://eternagame.org/players/151903

Achievements & Contributions



PUBLICATION CONTRIBUTIONS

Contributions towards pre-print or peer-reviewed scientific publications.

1. PRINCIPLES FOR PREDICTING RNA SECONDARY STRUCTURE DESIGN DIFFICULTY

February 2016 Journal of Molecular Biology Gameplay Contributor

2. RNA SECONDARY STRUCTURE PACKAGES EVALUATED AND IMPROVED BY HIGH-THROUGHPUT EXPERIMENTS

October 2022 Nature Methods Gameplay Contributor

3. SENTRNA: IMPROVING COMPUTATIONAL RNA DESIGN BY INCORPORATING A PRIOR OF HUMAN DESIGN STRATEGIES

March 2018 Preprint Gameplay Contributor

DESIGN SUBMISSIONS

Contributions towards Eterna biomedical challenges experimentally tested through in-vitro synthesis and structure mapping measurements.

| | TOTAL (#) | TESTED | BEST (%) |
|--|-----------|--------|----------|
| T.thermophilisel6S Hammerhead | 1 | 0 | - |
| Unconventional RNA Structure and Sequence Design | 15 | 15 | 91 |
| Thermodynamic Mimics: A Method for Simulating Functional | | | |
| Riboswitches | 11 | 11 | 98 |
| MS2 Riboswitches On Chip | 6 | 0 | - |
| Eterna History Tour - Introduction to Lab | 12 | 12 | 89 |

Achievements & Contributions



eternagame.org

TOTAL (#): The total number of design submissions made to an Eterna challenge.

TESTED: The total number of design submissions made to an Eterna challenge that were experimentally tested. BEST (%): Player's best score (as a percentage) for experimentally tested design submissions made to an Eterna challenge

