

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/40299>

ISSUED**December 19, 2025****PLAYER DETAILS**

PLAYER NAME	Jennifer Pearl
REGISTRATION DATE	June 2012
GLOBAL RANK	169 of 424,143
PUZZLES CLEARED	2,024
PUZZLES CREATED	3
ADVANCED TUTORIALS CLEARED	2/10

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 Jennifer Pearl's player profile: <https://eternagame.org/players/40299>

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. ETERNABRAIN: AUTOMATED RNA DESIGN THROUGH MOVE SETS FROM AN INTERNET-SCALE RNA VIDEOGAME

June 2019 [PLOS Computational Biology](#) *Gameplay Contributor*

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

October 2022 [Nature Methods](#) *Gameplay Contributor*

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

March 2018 [Preprint](#) *Gameplay Contributor*

5. DEEP LEARNING MODELS FOR PREDICTING RNA DEGRADATION VIA DUAL CROWDSOURCING

December 2022 [Nature Machine Intelligence](#) *Gameplay Contributor*

6. OPENASO: RNA RESCUE — DESIGNING SPLICE-MODULATING ANTISENSE OLIGONUCLEOTIDES THROUGH COMMUNITY SCIENCE

July 2025 [RNA](#) *Author*

DESIGN SUBMISSIONS

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

	TOTAL (#)	TESTED	BEST (%)
Classic Eterna	5	1	96
First Player Project	4	0	-
Switches	17	5	95
Cloud Lab 1 - Aires by wateronthemoon	1	0	87
Cloud Lab 13 - Alien Party Glasses by Jennifer Pearl	2	2	88
Let's break the barcode	1	1	100
Next Generation Riboswitches On Chip	1	1	62
MS2 Riboswitches On Chip - Round 4	2	2	44
[A] / [B]	2	2	69
[A] / [B] Progression	1	1	69
OpenVaccine: "Roll Your Own Structure", RNA backbone stability in aqueous solution	1	1	100

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

