



Reconstructing neural circuits via social computing

- Artificial intelligence (AI)
 - Replace humans with computers
- Intelligence amplification (IA)
 - Amplify human abilities with computers
- IA is currently the only viable strategy for connectomics
 - Serial EM images contain ambiguities.
 - AI speeds up humans but does not replace them.



Scalable social computing

- Hard factors are important
 - Task delivery over internet
- But soft factors dominate
 - Crowd wisdom
 - How to get accurate answers
 - Crowd learning
 - How to create and identify experts
 - Incentives
 - How to motivate people



Fast and accurate neural circuit reconstruction by combining human and artificial intelligence.

Overview

[Start Playing](#)

Starburst Challenge [change cell](#)

Let it grow, let it grow. How fast can you get?
You earn double points for playing this cell.

Online (37): hseung, rprentki, mmweiland, twister6284, rhtrenkampjr, celiad, nkem_test, aesanta1, galarun, nspainter77, jinbean, mmcdermott55, agthomas, grimgoblin910, crazybot, muwave, mamateresa, jabsco, sdunn61781, jesmith_nm, cgilbertmt, lilmoo, grendelkhan, wllindboe, michellewooten, Karenhal, rbandres2, williawa, Lupus27, forsakendaemon, maluta, AmirP, randy.william.moore, reganmccarthy87, AM728136, bi719534, swfdedf

Type /help to see available commands.

Congrats to lobusparietalis yesterday's highscorer of 22,644 points! New chat commands, type /help for more info.

<lilmoo> Good Night peeps :)
<michellewooten> nite nite lilmool
mamateresa earned 202 points
Karenhal earned 153 points

53466 677 8

heat map intensity Jump to cube Jump

Remarkable Eyewirers

today week month

rank	user	points
1	Begonie	19650
2	twister6284	17278
3	jinbean	16870
4	aldof	16387
5	Nseraf	15694
6	susi	14698
7	jabsco	12544
8	MaraTara	12167
9	pkeoughan	9158
10	ronin	9153
11	sdunn61781	7630
12	psimka	7452
13	lobusparietalis	7032
14	anmbia	6216
15	mmcdermott55	5888
16	molluca	5682
17	rutho13	5582
18	Swiper	4718
19	michellewooten	3978
20	b hailev	3698



Teaming

- The social computing technologies in EyeWire can be adapted to other
 - image datasets
 - artificial intelligence
- Potential for partnering with teams that need reconstructions of neural circuits.



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