iScientist

Bringing Scientists to Class

THE DAVIDSON INSTITUTE OF SCIENCE EDUCATION

THE

EDUCATIONAL ARM

OF THE WEIZMANN

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Weizmann Institute

WEIZMANN INSTITUTE OF SCIENCE

How can the Weizmann Institute scientists connect with teachers and their students?

Draw a scientist

Draw a scientist

Prof. Maya Schuldiner and Dr. Yaqub Hanna

Prof. Ernesto Joselevich speaking about his research with 10th grade students
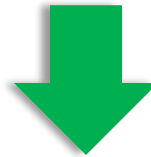
The iScientist Goals

- To make scientists more accessible to students and teachers

- to introduce students to new role models

- to provide a framework for a new pedagogic instruction in the classroom

How?

Specific preparation lessons
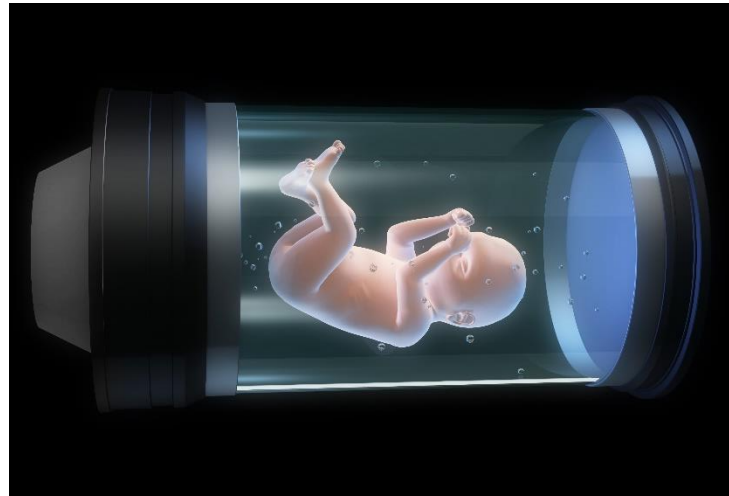
Questions based learning
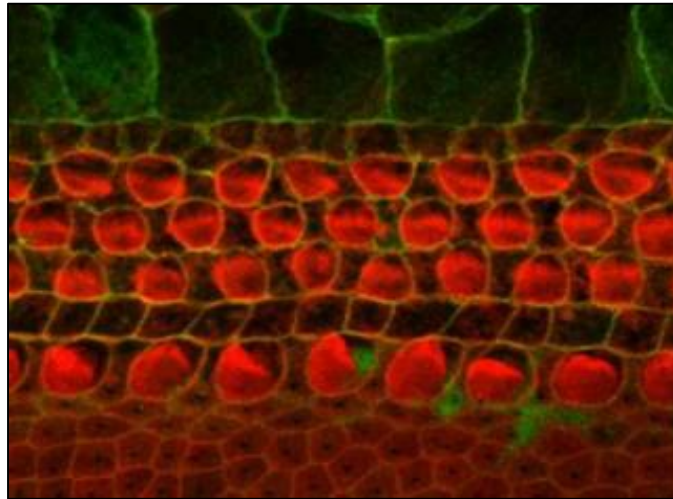
Conversation, instead of lecture

How to raise relevant questions?

Artificial womb

How to raise relevant questions?

Cell to cell communication

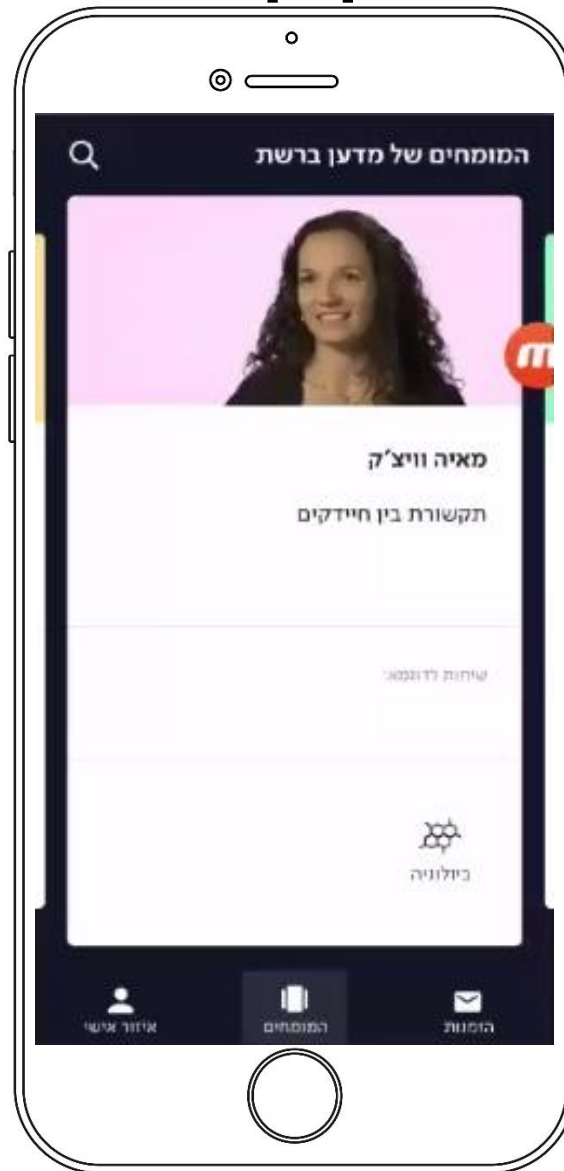# Active preparation lessons

Questions asked by students

- Can a cell communicate with his neighbor and "tell" him what his role is?

- Does a cell communicate only with his closest neighbors or can it communicate with cells further away as well?

- What happens when a cell gets conflicting messages?

Teachers' training & support
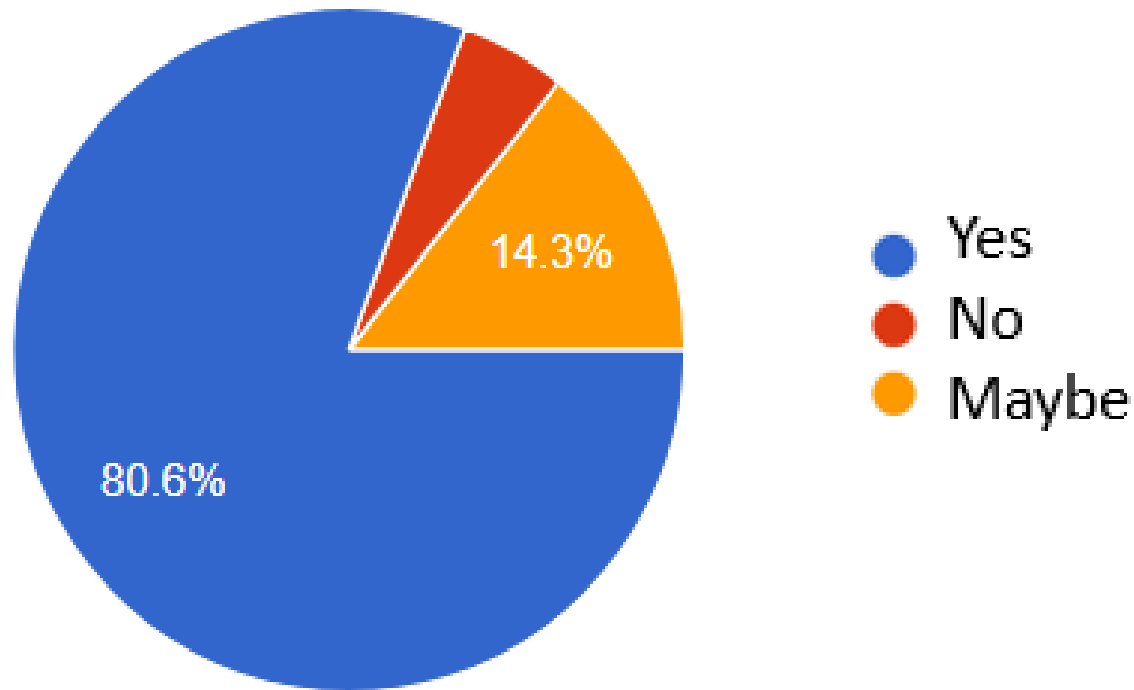
Mobile application

Numbers so far...

100 scientists

180 teachers

42 conversations

1200 students

Would you like to participate again in such a lesson?

Legend:
- Yes
- No
- Maybe

80.6%
14.3%

98 students

Students' comments

"It is a great way to transfer information"

"I would like to study physics in the future like you"

"You explain really, really well!"

"I hope that your research is successful"

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Teachers' citations

"The scientist was so pleasant, understandable, interesting, and respectful; it was a pure pleasure to work with him"

"The students did not stop asking questions, and when the conversation disconnected after more than 35 minutes, the students asked to try and reconnect and so we did"

Vision for the future

- Implementing questions based learning tools

- Large scale

- Standard teaching tool

Thanks   תודה

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