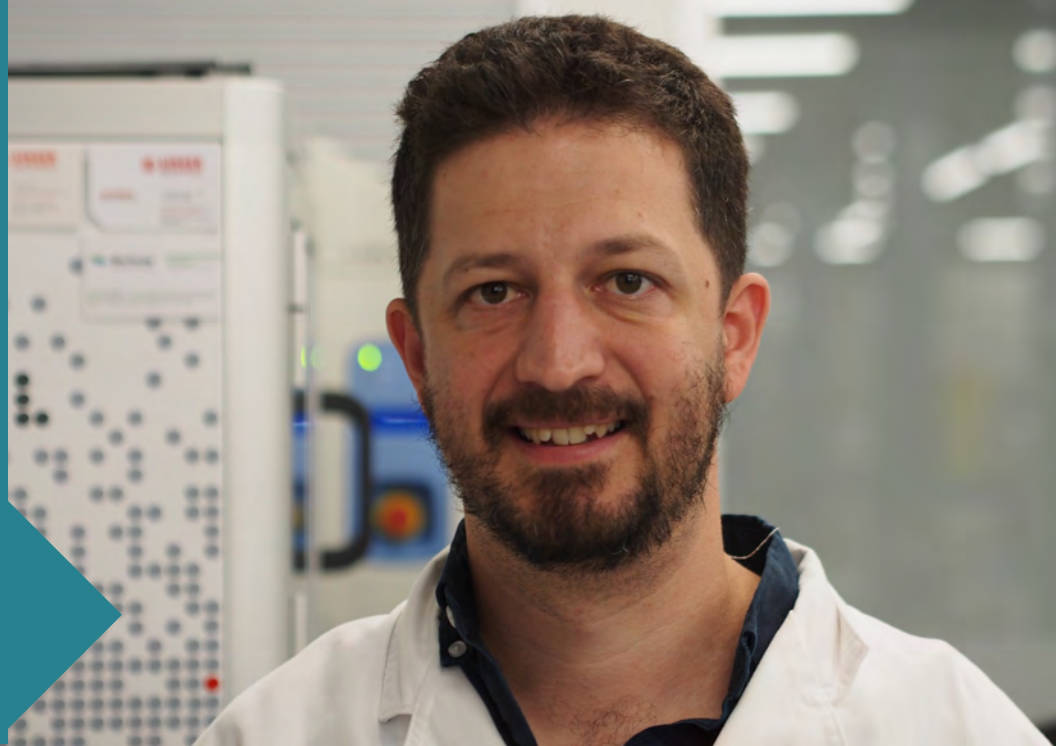


# Synthetic Biologist

## Purpose

Yeast 2.0 is the world's first designed eukaryotic organism. Ten laboratories around the world are working together to come up with an entire DNA sequence for a whole organism and to put them together inside a living cell.



## Personal attributes

- You need to be able to deal with a lot of unexpected problems
- Patience
- To be able to work in a team in difficult situations which last quite a long time.

## How does this support the work of NSW DPI?

DNA is relevant to any living organism from plants and trees to people to small microbes like e-coli and yeast. A lot of the work completed on different organisms is transferrable, so, for example the work in the immune system of mice and humans has relevance to work on algae to make biofuels and work putting together large pieces of DNA inside a cell.

## Quote

“It's a very fulfilling role when your trial works and you know that you are the first person to achieve something that's going to have global impact it's very, very rewarding.”

## Education and training for this role

Bachelor degree and a PhD

For more schools resources go to: <https://www.dpi.nsw.gov.au/education-and-training/school-resources>

# Dr Hugh Goold

Yeast 2.0

For more detail  
about Hugh's role  
watch his video

