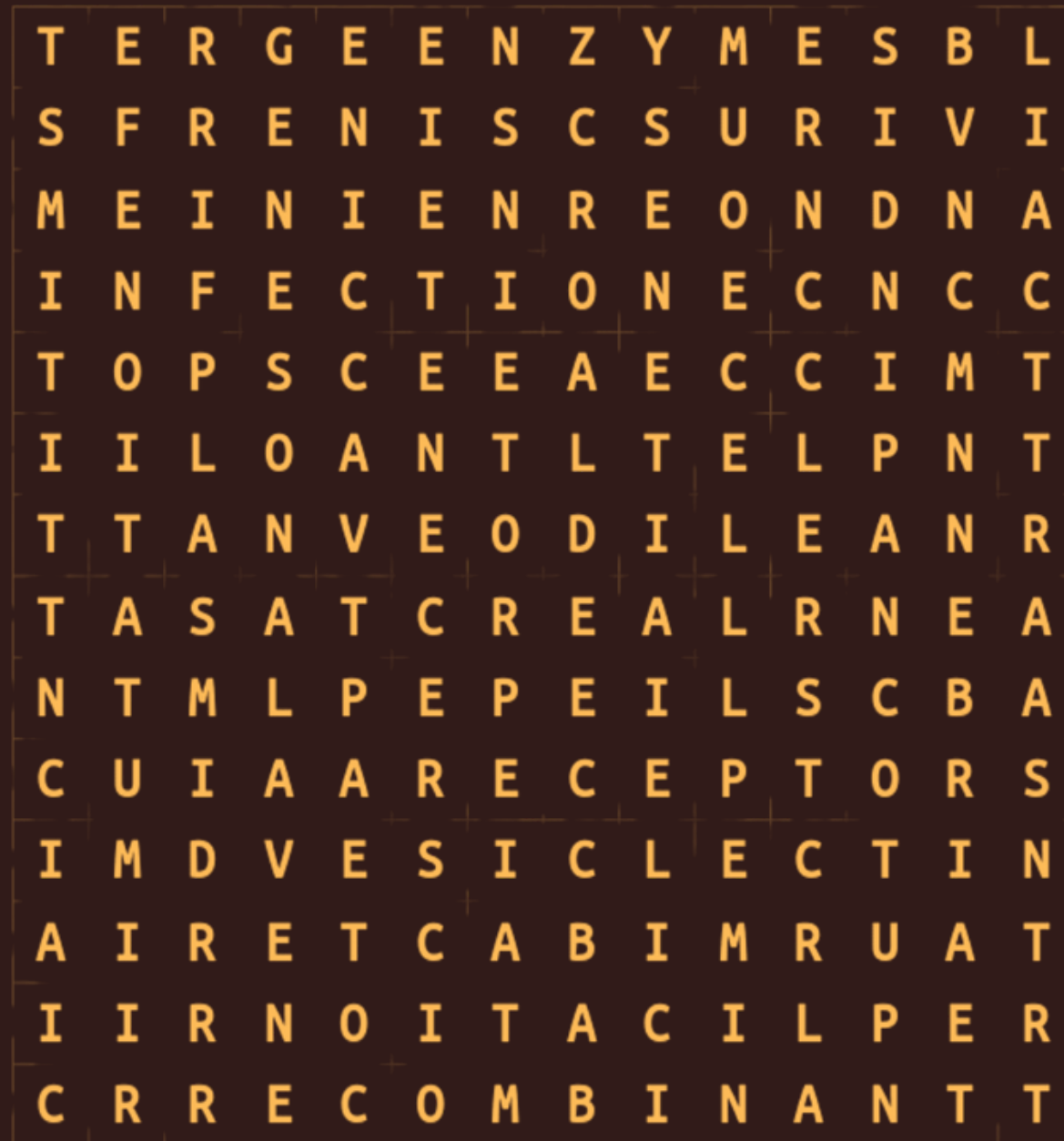


Worksheet



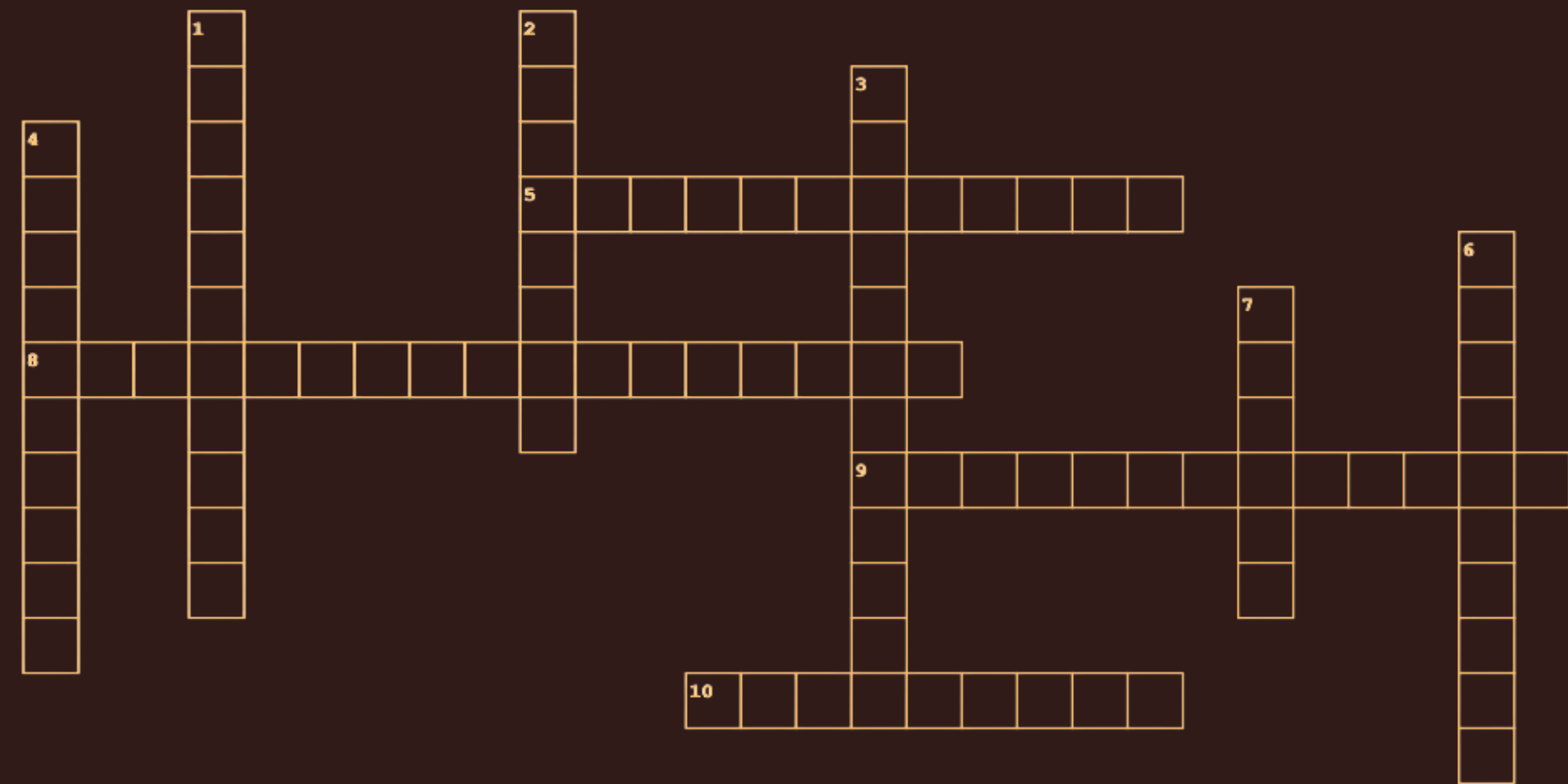
Synbio word search



- RECEPTOR
- BACTERIA
- RNA
- INFECTION
- CELL
- PROTIENS
- RECOMBINANT
- GENES
- DNA
- VIRUS
- VESICLE
- REPLICATION
- ENZYMES
- VACCINE
- MUTATION
- PLASMID



Famous scientists in biology



ACROSS

- 5. Created a plot to understand protein
- 8. Dark Lady of DNA
- 9. father of evolution
- 10. father of synthetic biology

DOWN

- 1. double helix of dna
- 2. complementary base pairing in dna double helix of dna
- 3. first observed dead cell under microscope first
- 4. discovered jumping genes
- 6. father of genetics

Two Truths and a Lie

- ▶ Synthetic biology is bio-engineering of new system
- ▶ Synthetic biology is redesigning old systems to serve a useful purpose
- ▶ Synthetic biology is bulk production of naturally occurring biological products

Using synthetic biology, it is legal to:

- ▶ Biosynthesis microorganisms
- ▶ Biosynthesis new biomolecules
- ▶ Gene editing of human babies

- ▶ Biological nitrogen fertilizer for corn is a product of synthetic biology.
- ▶ High-oleic oil from soybeans are products of synthetic biology.
- ▶ Human protein replacement is a product of synthetic biology.

Two Truths and a Lie

- Synthetic biology is bulk production of naturally occurring biological products
- Synthetic biology is a new stream of biology that studies how to synthesise novel biomolecules.
- Synthetic biology is not interdisciplinary

Using synthetic biology, it is legal to:

- Biosynthesis microorganisms
- Biosynthesis new biomolecules
- Gene editing of human babies