

# **ATGU TRIVIA** **w/ANSWERS**

2023 edition

Daniel Howrigan

Jack Fu

## ***Part 1: Life outside the lab***

# **ATGU TRIVIA!**

2 points

**Question 1: What was the name of the Weeknd/Drake “AI collab” song that went viral in April 2023?**

- A) Ghost writer
- B) **Heart on my sleeve**
- C) Could've had the world
- D) Giving you my best
- E) Creepin'
- F) Search and rescue

## ***Part 1: Life outside the lab***

# **ATGU TRIVIA!**

2 points

**Question 2: When Queen Elizabeth died in 2022, she had reigned as Queen of England for:**

- A) **70 years**
- B) 65 years
- C) 60 years
- D) 55 years
- E) 50 years
- F) 45 years

## ***Part 1: Life outside the lab***

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2 points

**Question 3: The US supreme court recently preserved patient access to this drug**

- A) pembrolizumab
- B) molnupiravir
- C) paxlovid
- D) **mifepristone**
- E) adalimumab
- F) abortivab

## ***Part 1: Life outside the lab***

# **ATGU TRIVIA!**

2 points

**Question 4: Who has NOT announced their candidacy for the 2024 US presidential election?**

- A) Donald Trump
- B) **Mike Pompeo**
- C) Robert F Kennedy Jr
- D) Vivek Ramaswamy
- E) Marianne Williamson
- F) Ron DeSantis
- G) Tim Scott

## ***Part 1: Life outside the lab***

# **ATGU TRIVIA!**

2 points

**Question 5: Which state recently signed legislation to ban Tik Tok from the Apple and Google app store?**

- A) **Montana**
- B) Florida
- C) Texas
- D) Arizona
- E) New York
- F) Louisiana
- G) Alabama

## ***Part 1: Life outside the lab***

# **ATGU TRIVIA!**

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**Question 6: Who is not a Kardashian?**

- A) Khloe
- B) Kim
- C) Kourtney
- D) **Kaitlin**
- E) Kris
- F) Kendall
- G) Kylie

## ***Part 1: Life outside the lab***

# **ATGU TRIVIA!**

2 points

**Question 7: In 2023, this professional US sports team set the new league record for wins in a single season**

***Boston Bruins***

***Should spell:  
BAD BAD Bruins***



## Part 2: Markets, compute, or genetics?

## ATGU TRIVIA!

Match the description with the abbreviation (1 point each)

- 1) **FOX** Settled a \$787 million dollar lawsuit for defamation
- 2) **FTP** Network protocol invented in 1972 to move data
- 3) **FTT** Native crypto token of the bankrupt crypto derivatives exchange
- 4) **FTX** Crypto exchange that went belly up in November 2022
- 5) **FXS** Genetic disorder on the X chromosome
- 6) **SBF** Former crypto exchange CEO
- 7) **SMS** Network Protocol to send text over mobile devices
- 8) **SNV** Nucleotide base change
- 9) **SVB** Victim of a 2023 bank run
- 10) **SWF** Adobe flash multimedia file format
- 11) **TXT** Unformatted ASCII character file extension
- 12) **UBS** Bought Credit Suisse
- 13) **USB** Interface for connecting compute devices
- 14) **VUS** One ACMG designation for a genetic variant
- 15) **XBB** Predominant Covid variant in US
- 16) **XRP** Crypto token in the middle of an SEC lawsuit starting in Dec 2020
- 17) **XVF** Unzipped tar file extraction

### Abbreviation

FTP

SVB

UBS

XVF

FTT

SNV

USB

~~VHS~~

~~SPF~~

~~XBT~~

FTX

SMS

VUS

FXS

SBF

XBB

FOX

SWF

TXT

XRP

*Its in alphabetical order*

## Part 3: Do you even Broad?

# ATGU TRIVIA!

Match the technology/software name with the Broad Institute headline (2 points each)

- 1) **CODEC** New method improves accuracy of DNA sequencing 1000-fold to detect rare genetic mutations. XXX could help scientists find early-stage cancer from blood samples, other disease-causing mutations, and more.
- 2) **Fit4Function** How one lab uses machine learning to solve a key gene therapy problem. A bioengineer and a computer scientist team up to find better adeno-associated viruses for gene delivery.
- 3) **Zoonomia** Genomes from 240 mammalian species reveal what makes the human genome unique. Studies from the XXX Project pinpoint key parts of the human genome that have remained unchanged after millions of years of evolution and may shed light on disease and unusual traits.
- 4) **FALCON** Systematic study of free fatty acids reveals new roles in metabolic diseases. Researchers have developed a technology, XXX, to analyze the effects of free fatty acids in any cell type and found type 2 diabetes genes that may further boost diabetes risk when cells are in a high-fat environment.
- 5) **TEMPOmap** New method tracks gene expression in single cells over space and time. XXX can follow thousands of newly made RNA molecules within a cell simultaneously, revealing new insight into how genes are controlled.

Name

**Micro-C**

**CODEC**

**Fit4Function**

**Zoonomia**

**FALCON**

**TEMPOmap**

*Answers are  
same order  
as questions*

## Part 3.2: Do you even Broad? **ATGU TRIVIA!**

Match the technology/software name with the Broad Institute headline (2 points each)

- 1) **STACI** New method identifies spatial biomarkers of Alzheimer's disease progression in animal model. XXX enables scientists to simultaneously analyze gene expression, cell nuclear structure, and cell location in tissue.
- 2) **RADARS** RNA-sensing system measures and controls protein expression in cells. A new technology called XXX allows scientists to detect and target specific cell types, opening up potential applications in diagnostics and therapeutics.
- 3) **STARmap PLUS** Researchers map brain cell changes in Alzheimer's disease. Study reveals key cell structures and gene expression changes near amyloid plaques and tau tangles in mouse brain tissue.
- 4) **DELIVER** Gene-delivering viruses reach the brain in a step toward gene therapy for neurological diseases. Researchers have engineered a family of adeno-associated viral vectors that cross the blood-brain barrier in primate models.
- 5) **eCIS** Bacterial injection system delivers proteins in mice and human cells. With further development, the programmable system could be used in a range of applications including gene therapy and cancer therapy.

Name

~~FusionInspector~~

**STACI**

**RADARS**

**STARmap PLUS**

**DELIVER**

**eCIS**

*Answers are  
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# **ATGU TRIVIA!**

**Team Names – 20 pts possible**

**Part 1 – 14 pts possible**

**Part 2 – 17 pts possible**

**Part 3 - 20 points possible**

**71 total points so far**

## ***Part 4: Finale***

# **ATGU TRIVIA!**

5 points each - 20 total points at stake!

**Question 1: Which country beat Argentina in the 2022 FIFA mens world cup?**

**Question 2: Which broadie co-authored the book “Viral: The Search for the Origin of COVID-19”?**

**Question 3: Which African-born entrepreneur co-founded OpenAI?**

**Question 4: What is the brand name of the initial Pfizer-BioNTech vaccine?**

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**Part 2 – 17 pts possible**

**Part 3 - 20 points possible**

**Part 4 – 20 points possible**

**91 total points**

**2023**  
**ATGU TRIVIA**  
**CHAMPIONS**

