



Congratulations! You passed!

TO PASS 70% or higher

Keep Learning

GRADE
100%

Module 1 Quiz

LATEST SUBMISSION GRADE

100%

1. What details do some modern papers fail to provide that inhibit reproducibility?

1 / 1 point

- ☐ Where the analysis was performed
- ☒ What versions of software was used for the analysis
- ☐ Who funded the research
- ☐ Who performed the analysis



Correct

2. What is reproducibility?

1 / 1 point

- ☐ Provenance
- ☒ None of these options
- ☐ Reusability
- ☐ Correctness



Correct

3. Why is reproducibility important?

1 / 1 point

- ☐ It guarantees that methods can be applied other types of analysis
- ☐ It ensures that the results of scientific research are accurate
- ☒ It is a minimum standard to allow computational research to be reviewed and inspected
- ☐ It is a requirement enforced by all peer-reviewers



Correct

4. Which of the following might be considered necessary to increase reproducibility in modern analysis?

1 / 1 point

- ☒ All of these options
- ☐ Provide access to the primary data
- ☐ Record versions and parameters used in the analysis
- ☐ Computation should be considered an integral part of biomedical research and its methods recorded



Correct

5. Is this challenge surmountable?

1 / 1 point

- ☐ No, the data is too large for modern systems to record
- ☒ Yes, modern software platforms (including Galaxy) were created to help researchers meet these challenges
- ☐ No but reproducibility in science is a secondary concern anyway
- ☐ Yes, but only by hiring a trained bioinformatician because this is all too hard for biologists



Correct

6. Galaxy is available as:

1 / 1 point

- ☐ As a Microsoft Surface App that is free
- ☐ As a complimentary service available to anyone with a subscription to Nature

- ☒ As a website that is free for everyone to use
- ☐ As a desktop application for around ~\$99

✓ Correct

7. How can you extend Galaxy?

1 / 1 point

- ☐ You can contribute to the Galaxy code and documentation using github
- ☐ Since it's open source, you can copy it and make changes to run your own Galaxy website
- ☐ You can write and share new tools
- ☒ All of these options

✓ Correct

8. Galaxy...

1 / 1 point

- ☐ Performs automated experimental design and data analysis
- ☐ Provides unlimited compute and storage resources for free at usegalaxy.org
- ☐ Ensures that your analysis is performed correctly
- ☒ Provides an environment for researchers to easily use existing bioinformatic software and record and share the results

✓ Correct

9. You need what to use the public Galaxy site usegalaxy.org?

1 / 1 point

- ☐ Access to your own supercomputers and at least two IT professionals
- ☐ Your own data in XML format
- ☐ Large hard drives (at least 20TB)
- ☒ An email account and a web browser

✓ Correct

10. For analysis where usegalaxy.org does not provide appropriate computation power or tools, you can:

1 / 1 point

- ☒ All of these options
- ☐ Use any of the ~60 other public Galaxy servers
- ☐ Run Galaxy on the Amazon Cloud
- ☐ Run your own, local Galaxy server

✓ Correct

11. Galaxy...

1 / 1 point

- ☐ Cannot be used by anyone else to start a server
- ☐ Can run as a server on Windows
- ☐ Can only work on one cluster system
- ☒ Is highly configurable for many types of compute infrastructure

✓ Correct