

Accessibility Statement: *Our commitment and approach to maintaining an accessible web presence across multiple platforms of online bioinformatics training*

Pine Biotech is committed to:

- **maintaining an accessible web presence for all users.** We state our commitment to this in our Customer Charter.
- ensuring that this website achieves “Level AA” conformance to the Web Content Accessibility Guidelines (WCAG) 2.0, to comply with the National Disability Authority’s Code of Practice on Accessibility of Public Services and Information Provided by Public Bodies.
- ensuring that all new information on the website will achieve “Level AA” conformance to the Web Content Accessibility Guidelines (WCAG) 2.0.
- **including accessibility when we procure** 3rd-party systems or upgrades to existing systems.

This website’s conformance with official accessibility guidelines

Omics Logic training resources include cloud-tools for data analysis, educational online courses, and project examples sourced from public-domain repositories (such as NCBI, etc.). The courses utilize 3 platforms for data analysis (<https://server.t-bio.info/>), asynchronous education (<https://edu.t-bio.info/>) and coding exercises in R and Python (<https://code.omicslogic.com>).

- 1) The **T-BioInfo platform** was designed for bioinformatics analysis of big multi-omics data while hiding the complexities of data processing, analysis, and integration behind a user friendly and intuitive interface. Developed by a team of renowned experts in computational biology at the Tauber Bioinformatics Research Center (University of Haifa, Israel). The platform offers a consistent, logical web-based interface to process a variety of unstructured datasets. These include Next Generation Sequencing, Mass-Spectroscopy, Structural and phenotypic data. Organized by data type and analysis category, the interface offers AI guidance to help users select appropriate analysis steps for the data inputs and pipeline execution. System flexibility and transparency are ensured by informative pop-ups that explain each method and section with references to publications and tutorials. Completed pipelines are documented for reproducibility, reporting and publication purposes.
- 2) **Online courses & projects:** These are independent courses & projects that allow users to learn by going through visual tutorials describing topics in detail, these tutorials describe Basic Biology, comparison of methods, New technology, Data types, Data analysis, and interpretation by going through a published research problem. The student earns a certificate after finishing each course that comprises quizzes and assignments. The courses are developed by experts that guide students from Basic biology to advance data analysis by performing hands-on analysis.
- 3) **R and Python Code Playground:** The OmicsLogic Code platform provides an interactive online learning environment to run R and Python bioinformatics code quickly online without

the need to manage libraries and packages. Utilizing online self-paced lessons with points and achievements to teach you the underlying code and algorithms used in real world research, from reading large biological datasets for analysis to machine learning and A.I. to extract meaning and value from datasets.

These websites are currently being enhanced to achieve conformance to the Web Content Accessibility Guidelines (WCAG) 2.1. Our most recent web accessibility audit for this website was on July 2020.

Areas for improvement and timelines

We are aware of some areas on the website where we could improve accessibility. We are currently working to achieve this. We hope that this website will achieve "Level AA" conformance to the Web Content Accessibility Guidelines (WCAG) 2.0 by December 2020.

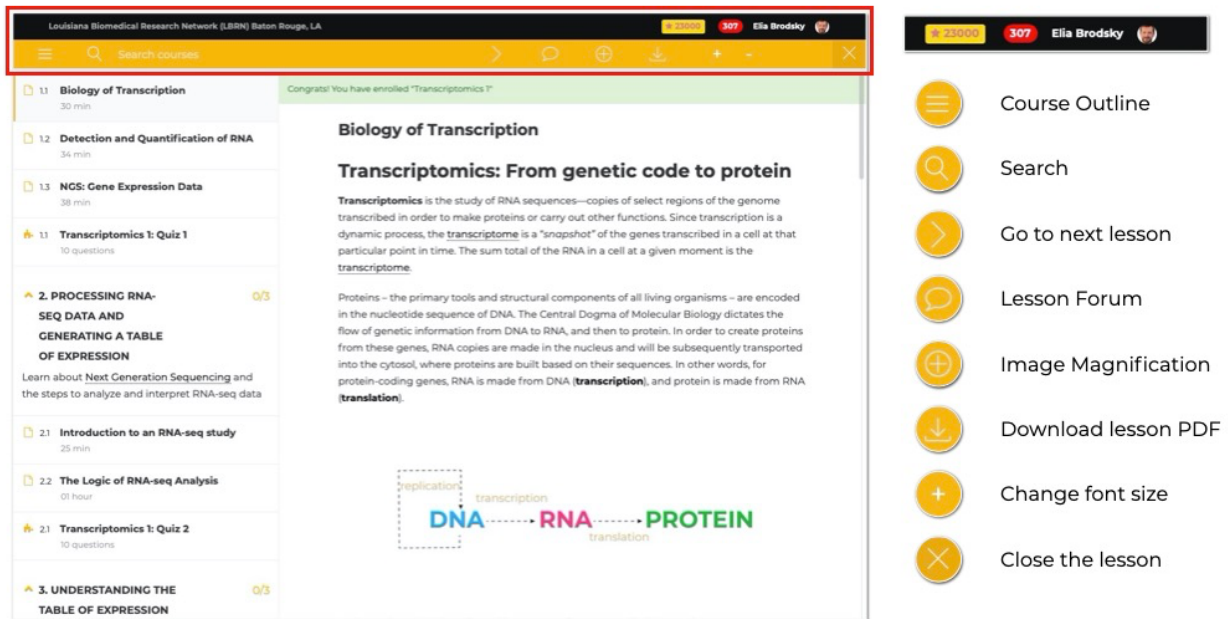
Areas for improvement, timelines for improvement, and alternatives			
Section of website	Need for improvement	Timeline for improvement	Alternative access
Server.T-Bio.Info	Reliance on mouse, point-and click interface	We hope to have improved the accessibility of the server pipeline builder section of the website by December 2021	If you have problems using the pipeline builder section of the website, email us for assistance
Edu.T-Bio.Info	Loading speed, mobile access	We hope to have improved the accessibility of the educational portal section of the website by December 2021.	If you have problems using the pipeline builder section of the website, email us for assistance

How to send feedback on this website's accessibility

We welcome feedback on the accessibility of this website.

- Email us at support@pine.bio

Accessibility features already implemented:



The screenshot shows a course page for 'Biology of Transcription' with a toolbar on the right. The toolbar includes the following features:

- Course Outline
- Search
- Go to next lesson
- Lesson Forum
- Image Magnification
- Download lesson PDF
- Change font size
- Close the lesson

Resizable text: we have implemented options to resize font on all edu.t-bio.info lessons. This will help students with impaired vision to adjust font size.

Magnification of lesson images: Some images contain subtle details that can be difficult to see for visually impaired, so we provide magnification of images inside the lesson toolbar.

Download Lesson PDF: For interrupted internet access, we offer downloadable PDFs with clear guides that can be printed out.

Alt tags for most images used in lessons: most images used in educational content are equipped with alt tags for better readability

Video recordings of text materials: for those having difficulty following the text version of each lesson, a video recording is provided and vice-versa, text and images are provided for those unable to see the video.

Lesson Forum: any accessibility issues related to course content can be directly reported to the content review team