## ABRCMS #StayResearching Resources

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wd-sourced science can be used to help students engage in the scientific learning process virtually. Most virtual research projects require dents to analyze results using specific criteria laid out by the primary investigator and submit their results to an online portal. These resources line some formal and informal crowd-sourced research opportunities, particularly for bioinformatics students.		rually. Most virtual research projects require their results to an online portal. These resources atics students.	
Resource Type	Resource Title	Description	Link
Virtual Projects	Rosalind	Platform for learning bioinformatics and	http://rosalind.infp/problems//ocations/
	National Summer Undergraduate Research	A community-driven initiative to create rewarding remote summer research opportunities for BIPOC undergraduate students in the microbial sciences.	
Virtual Projects	Project (NSURP)	Matches to be made by June.	https://nsurp.org/
Publications	Journal of Microbiology & Biology Education, Scientific Citizenship Special Issue	the topic of scientific citizenship, which addresses the following seemingly simple question: How can we engage people in science?	https://www.asmscience.org/content/journal/jmbe/17/1
Table		The PDC is a next-generation proteomics data repository within NCI's Cancer Research Data Commons with corresponding genomics and imaging data sets to enable data access, analysis,	
Tools	NCI Proteomics Data Commons (PDC)	Research projects to which trainees can	https://pdc.cancer.gov/pdc/
Virtual Projects	Zooniverse	contribute with data collection or analysis.	https://www.zooniverse.org/projects
Virtual Projects	iNaturalist	natural world.	https://www.inaturalist.org/
Virtual Projects	SciStarter	A citizen science platform where: (a) anyone can participate, (b) participants use the same protocol so data can be combined and be high quality, (c) data can help scientists come to real conclusions, and (d) a wide community of scientists and volunteers work together and share data to which the nublic as well as scientists have access	https://scistanter.com/
		Data Nuggels are free activities, co-designed by scientists and teachers. When using Data Nuggels students are provided with the details of authentic science research projects, and then get to work through an activity that gives them practice looking for patterns and developing explanations about natural phenomena using the	
Virtual Projects	DataNuggets	scientific data from the study.	http://datanuggets.org/about-nuggets-2/
Virtual Projects	Folding@Home	protein folding, misfolding, aggregation, and related diseases.	https://foldingathome.org/
Virtual Projects	FoldIt	contribute to important scientific research.	https://fold.it/portal/
Website	Biomedical Citizen Science Hub	Empowering citizens to contribute to and become partners in biomedical data science	https://citscibio.org/
Website	OpenWetWare	OpenWetWare is an effort to promote the sharing of information, know-how, and wisdom among researchers and groups who are working in biology & biological engineering.	https://openwetware.org/wiki/Main. Page
Course	BioWork Certificate Program	Videos and eLearning for biotechnology; basics of using lab tools, including chromatography, microscopy, hemocytometer, etc	https://www.ncbionetwork.org/students
Virtual Projects	DREAM Challangea	DREAM Challenges pose fundamental questions	http://decomphallangeo.org/
Virtual Projects	Stargen	Aims to annotate disease samples (such as control and a certain disease) from GEO, enable powerful meta-analysis of a certain disease	Ittp://urealinutatienyes.urg
Virtual Projects	BD2K-LINCS-DCIC Crowdsourcing Portal	Includes crowdsourcing projects (lots of microtasks and megatasks) related with drugs, genes and diseases in Library of Integrated Cellular Signatures (LINCS) and GEO.	http://maayaniab.net/crowdsourcing/index.php
Virtual Projects	Desbian Med	Aims to develop an operating system that is particularly well fit for the requirements for medical practice and biomedical research. The goal of Debian Med is a complete free and open system for all tasks in medical care and research.	https://www.debian.org/devel/debian.med/
		The Open Bioinformatics Foundation (OBF) is a non-profit, volunteer-run group dedicated to promoting the practice and philosophy of Open Source software development and Open Science	
Virtual Projects	Open Bioinformatics Foundation (OBF)	within the biological research community.	https://www.open-bio.org/wiki/Main_Page https://docs.google
Curated List	Online resources for Simulations and online labs	Community curated list	com/spreadsheets/d/18iVSIeOqKjj58xcR8dYJS5rYvzZ4X1UGLWhl3brRzCM/edit#gid=0
Virtual Projects	COVID-19 Open Research Dataset Challenge (CORD-19)	This allows the worldwide AI research community the opportunity to apply text and data mining approaches to find answers to questions within, and connect insights across, this content in support of the ongoing COVID-19 response efforts worldwide.	https://www.kaggle.com/allen-institute-for-al/CORD-19-research-challenge
Virtual Projects	Citizen Science Center	Learn how you can make a difference by doing real science to help solve our planet's most pressing problems.	http://www.citizensciencecenter.com/
		Tiny Earth is a network of instructors and students	
Virtual Projects	Tiny Earth	from soil.	https://tinyearth.wisc.edu/

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Many thanks to the following ir	ndividuals and groups who have con	tributed greatly to this com	pilation of resources.			
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