

## Registration

Register below for the Emerging Approaches for Tumor Analyses in Epidemiological Studies Workshop series

OMB No.: 0925-0740  
Expiration Date: 09/30/2025

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**First Name\***

**Last Name\***

**NIH Email\***

**Confirm email\***

**Position\***

- Post-baccalaureate/Post-doctoral
- Research Analyst/Contractor
- Research Fellow/Staff Scientist
- Investigator/Senior Investigator
- Other...

**DCEG Branch/Program\***

- Biostatistics Branch
- Clinical Genetics Branch
- Infections and Immunoepidemiology Branch
- Integrative Tumor Epidemiology Branch
- Laboratory of Genetic Susceptibility
- Laboratory of Translational Genomics
- Metabolic Epidemiology Branch
- Occupational & Environmental Epidemiology Branch
- Radiation Epidemiology Branch
- Trans-Divisional Research Program
- Cancer Genomics Research Laboratory
- Center for Cancer Research (CCR)
- Other...

**Of the 12 sections of the workshop, please select the lectures sections you are interested in**

The lectures are 9:30 - 10:30

*If you participate in all the lectures and hands-on workshop, you will be provided with a certificate of completion from the Division of Cancer Epidemiology & Genetics.*

- All lectures
- Session 1: Nov. 2, 2022: Introduction to Computing Clusters and Bioinformatics
- Session 2: Nov. 9, 2022: Public databases
- Session 3: Nov. 16, 2022: DNA sequencing strategies and quality control
- Session 4: Jan. 11, 2023: Mutation calling and analysis
- Session 5: Jan. 18, 2023: Mutational signatures
- Session 6: Jan. 25, 2023: Structural variant (SV) analysis
- Session 7: Mar. 8, 2023: Somatic copy number alterations (SCNAs)
- Session 8: Mar. 15, 2023: Identifying cancer drivers
- Session 9: Mar. 22, 2023: Clonal evolution
- Session 10: Apr. 26, 2023: Transcriptome-based study designs
- Session 11: May 3, 2023: RNA-seq data mining
- Session 12: May 10, 2023: Data visualization approaches

**Of the 12 sections of the workshop, please select the hands-on sections you are interested in**

The hands-on workshop are 10:45-12:00

*No previous experience on genomics analyses is required to attend the hands-on workshops; however, some basic knowledge on programming (e.g., R or Linux/Shell) and Next Generation Sequencing would be useful.*

*If you participate in all the lectures and hands-on workshop, you will be provided with a certificate of completion from the Division of Cancer Epidemiology & Genetics.*

- All hands-on workshops
- Session 1: Nov. 2, 2022: Introduction to Computing Clusters and Bioinformatics
- Session 2: Nov. 9, 2022: Public databases
- Session 3: Nov. 16, 2022: DNA sequencing strategies and quality control
- Session 4: Jan. 11, 2023: Mutation calling and analysis
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## Additional Questions for Those Attending the Hands-on Workshops

### Computer Operating System

- Mac
- PC
- Other...

**To get a sense of the participants' level of familiarity with Unix, please tell us how long have you been using Unix.\***

- I do not use Unix
- Less than 1 year of experience
- 1 to 3 years of experience
- Over 3 years of experience
- Other...

**To get a sense of the participants' level of familiarity with R programming, please tell us how long have you been programming in R.**

- I do not program in R
- Less than 1 year of experience
- 1 to 3 years of experience
- Over 3 years of experience

**To get a sense of the participants' level of familiarity with High-Performance Computing (HPC) cluster, please tell us how long have you been using an HPC cluster**

- I have not used an HPC cluster
- Less than 1 year of experience
- 1 to 3 years of experience
- Over 3 years of experience

### Please answer this question only if you are from DCEG.

You will need to log into the NIH Biowulf account for the practical sessions. Do you have an NIH Biowulf account?

If you already have an NIH Biowulf account, check the **Yes** box below.

If you do not have an NIH Biowulf account, check the **No** box below and we will create an NIH Biowulf account for you.

**For non-DCEG participants**, please follow the instructions here to obtain an NIH Biowulf account if you do not have one: <https://hpc.nih.gov/docs/accounts.html>

- Yes
- No

### "Ask a Bioinformatician" Help Sessions

There will be four optional "Ask a Bioinformatician" help sessions that will run for 2 hours from 9:30am to 11:30am. No registration is required and access information will be communicated to all participants. The dates for the sessions will be:

- Nov. 23, 2022: "Ask a Bioinformatician" I
- Feb. 1, 2023: "Ask a Bioinformatician" II
- Mar. 29, 2023: "Ask a Bioinformatician" III
- May 17, 2023: "Ask a Bioinformatician" IV

### Experience in somatic genomic data analysis

- None
- 0-1 year of experience
- 1-3 years of experience
- 3+ years of experience

**If you have experience with somatic genomic data analysis, please briefly describe the type(s) of analysis you have conducted**

Submit