Training/Workshop (e.g. BTEP)
- **Name of Training/Workshop - Date**

EXAMPLE:

Dear CCR Scientist,

The Bioinformatics Training and Education Program (BTEP) is pleased to present a seminar on "Variant Analysis in Next Generation Sequencing Data, Whole Genome, Whole Exome."

The seminar will take place **January 23, 2020** from **11 a.m. to 12 p.m.** in Building 37, Room 4041/4107.

Register for the training here: https://btep.ccr.cancer.gov/classes/variant/
The registration page will have WebEx information for those unable to attend in person.

The training will be presented by Justin Lack, NIAID Collaborative Bioinformatics Resource

Topics will include:
1. Experimental Design Considerations in Variant Analysis
   a. Germline vs Somatic
   b. WGS vs WES
   c. Sample sizes and statistical power
2. WGA/WES Pipelines at NIH
   a. Pipeline performance
   b. Using Pipeliner for internal and external data
3. Variant QC, Annotation and Downstream Analysis
   a. Variant QC and data correction
   b. Variant Annotation
4. Structural variation and multi-omic integration

Questions, comments and/or suggestions may be directed to: NCIBTEP@mail.nih.gov

View upcoming classes on BTEPs website.

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Dr. Peter FitzGerald 240-760-7181