

# NCI CCR Bioinformatics Training and Education Program (BTEP)

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# About BTEP

- **What is BTEP?**

- NCI → CCR → Office of Science and Technology Resources (OSTR) → Bioinformatics Training and Education Program (BTEP)

- **Mission**

- Centralized resource for education on all aspects of bioinformatics
- **B**ioinformatics **T**rained and **E**mpowered **P**rofessionals

- **How do we do achieve this?**

- Seminars
- Workshops (NGS Series thorough June)
- Webinars
- Collaboration with experts at other NIH ICs

# Important Websites to Bookmark

- <https://ostr.cancer.gov/bioinformatics> - OSTR
- <https://bioinformatics.cancer.gov/btep> - BTEP
- <https://service.cancer.gov/selfservice/> - NCI CBIIT

# WORKSHOPS & EVENTS

BTEP website: <https://bioinformatics.cancer.gov/btep>

2017 NGS Series:

<https://bioinformatics.cancer.gov/btep/agenda>

Future Events:

<https://bioinformatics.cancer.gov/btep/UpcomingEvents>

Past Workshops:

<https://bioinformatics.cancer.gov/btep/archive>

The poster features a blue header with the NIH logo and 'NATIONAL CANCER INSTITUTE'. Below this, the BTEP logo is displayed with the text 'Center for Cancer Research' and 'Bioinformatics Training & Education Program'. The main title 'NEXT-GENERATION SEQUENCING (NGS) WORKSHOP SERIES' is in large, bold, yellow and white letters. The body of the poster lists workshop topics for Winter and Spring 2017, including 'Best Practices: Experimental Design, Sample Preparation, NGS Technologies', 'Stepping into the Regulome: ChIP-Seq/ENCODE Data Analysis', 'From the Beginning: Exome-Seq Data Analysis', 'Making Sense of the Data: Visualization, Pathway and Enrichment Analysis', 'Comprehending the Message: RNA-Seq Data Analysis', and 'The Art and Science of Data Mining'. A footer contains contact information and a registration notice.

**NIH** NATIONAL CANCER INSTITUTE

Center for Cancer Research  
**BTEP**  
Bioinformatics Training & Education Program

**NEXT-GENERATION SEQUENCING (NGS) WORKSHOP SERIES**

**The Bioinformatics Training and Education Program (BTEP)**, Office of Science and Technology Resources (OSTR) is excited to announce a series of workshops focused on the analysis of Next-Generation Sequencing (NGS) data. The in-depth, comprehensive series includes lecture and hands-on components on the most popular and relevant topics for the CCR scientific community.

**WINTER 2017 (JAN-MAR)**

**January 23**  
**Best Practices: Experimental Design, Sample Preparation, NGS Technologies**

**February 21-22**  
**From the Beginning: Exome-Seq Data Analysis**  
*Identifying Clinically Impactful Variants*

**March 20-21**  
**Comprehending the Message: RNA-Seq Data Analysis**  
*Differential Expression and Beyond*

**SPRING 2017 (APR-JUN)**

**April 17-18**  
**Stepping into the Regulome: ChIP-Seq/ENCODE Data Analysis**  
*Probing DNA-Protein Interactions*

**May 22-23**  
**Making Sense of the Data: Visualization, Pathway and Enrichment Analysis**  
*Visualizing the biology*

**June 19-20**  
**The Art and Science of Data Mining**  
*Harvesting the Wealth of Public Data (TCGA, ICGC, etc.)*

For more information about the BTEP program in general and details of these workshops visit our website at:  
**<http://bioinformatics.cancer.gov/btep>**

There is no charge for attending any of the workshops, but **registration is required**. Detailed agenda and registration link will be shared at least 2 weeks prior to the start of the workshop. For more information and questions, please send e-mail to **[ncibtep@mail.nih.gov](mailto:ncibtep@mail.nih.gov)**.

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# Consulting and Collaborating Groups

- Office of Science and Technology Resources (OSTR)
  - Emerging software solutions
  - Pilot trials
- NCI CBIIT
  - Evaluation and purchase of new software
  - Webinars on licensed scientific tools
- CCR Collaborative Bioinformatics Resources (CCBR)
  - Benchmarking and creating NGS analytical pipelines
  - Analysts with expertise in a particular domain
- Other NIH institutions
  - NIH Library
  - NIDCD

# Partial List of Scientific Software through OSTR funds

- Partek Genomics Suite (NCI-wide)
- iPathwayGuide (currently, only CCR)
- Ingenuity Pathway Analysis (NCI-wide)
- GeneGo MetaCore (NCI-wide)
- Genomatix Suite (NCI-wide)
- Biodiscovery Nexus (NCI-wide)
- GeneSpring (NCI-wide)
- Geneious Pro (currently, CCR; Leidos has own set of group licenses)

<https://ostr.cancer.gov/btep/software>

## BTEP Team

Peter C. Fitzgerald, Ph.D., Director

Carl McIntosh, M.S., Analyst

Anand S. Merchant, Ph.D., Scientific Program Manager

**Contact us – [ncibtep@mail.nih.gov](mailto:ncibtep@mail.nih.gov)**