

Learning Objectives Guidelines

- Learning objectives must be written using one behavioral, measurable verb and lead to ONE action or outcome.
- The verbs understand, learn, and know are NOT acceptable verbs as they cannot be measured.
- Start the learning objective with the behavioral verb: ex Compare genomic literacy...
- Suggested verbs:

Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
Define	Classify	Apply	Compare	Argue	Construct
Identify	Indicate	Examine	Contrast	Critique	Design
List	Match	Generalize	Differentiate	Defend	Formulate
State	Select	Illustrate	Discriminate	Evaluate	Hypothesize
Reproduce	Summarize	Record	Examine	Judge	Plan

Examples from past sessions:

Novel associations take novel statistical methods

- 1) Summarize novel statistical methods for genetic data
- 2) Identify machine learning and deep learning methods for genetic data
- 3) State statistical methods to use with summary genetic results

Featured Plenary Abstract Session II

- 1) Evaluate the relationship between DNA methylation and cancer risk
- 2) Critique arguments related to large scale association studies and potential biases
- 3) Evaluate effectiveness of genetic studies in clinical contexts

When, where, and how? Insights from gene regulation - Part II

- 1) Identify context specific expression signatures and QTLs
- 2) Define limitations of current QTLs in terms of expression context
- 3) Hypothesize study designs that incorporate context specific expression

Genomic insights into anthropometry and metabolic disorders

- 1) Investigate the genomic architecture of anthropometry and metabolic disorders
- 2) Summarize the genetic and genomic effects on anthropometry and metabolic disorders
- 3) State novel genomic strategies that enhance insights into anthropometry and metabolic disorders

New approaches for single cell sequencing and analysis

- 1) Examine computational and experimental methods for single cell sequencing and analysis
- 2) Highlight challenges and opportunities in analyzing data from single cells
- 3) State results from multi-omic analyses of single cell data
- 4) Plan for cutting edge single cell research across the ASHG research community