# HGA2023 Variant interpretation and ACMG guidelines

1. Module Developers and Assistants

Grace, Wei Ma - Module Lead

1. List of learning outcomes specific for this module

By the end of this module participants will be able to

* Have an overall understanding of ACMG 2015 guidelines for short variant.
* Understand different resources/databases available for variant classification.
* Understand recommendations for different criteria provided by ClinGen Sequence Variant Interpretation Working Group (SVI WG).
* Hands-on experience on classification of non-canonical truncating/frame-shifting variants

1. Background and summary/objectives

In this module we will cover detailed explanations of all the criteria listed in the ACMG 2015 guideline.

1. Overview of key resources needed
   * + Computer with access to internet for each attendee

1. Activities and exercises

* Introduction lecture - ACMG guideline part 1 by Grace (0.5 hrs)
  + Slides and discussion
* Introduction lecture - ACMG guideline part 2 by Wei (0.5 hrs))
  + Slides and discussion
* Hands-on workshop (1 hrs)
  + Demo cases of problematic truncating/frameshift variants
  + Followed by exercise cases for participants with guidance from speakers.

1. Other resources

* Nil

1. References and acknowledgements