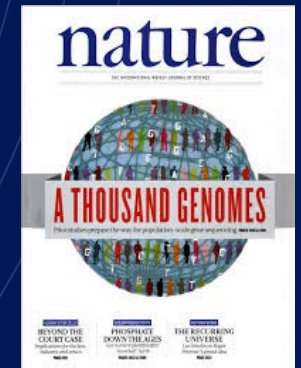


Grant-Writing Strategies for Computational Methods Development

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2023 International Statistical Genetics Workshop



National Human Genome
Research Institute

The **Forefront**
of **Genomics**[®]

Introduction

- Lots of general information on **NIH grant writing**

<https://grants.nih.gov/grants/how-to-apply-application-guide/format-and-write/write-your-application.htm>

- Today: grant-writing strategies for statistical genetics methods development

General analysis methods as resources

- Developing general analysis methods vs applying analysis methods to specific diseases
- Analysis methods as resources – multiple diseases
- Not hypothesis-driven

Evaluation of applications

A C G
C G T
A C G

- Importance of the problem
 - Apply to many diseases / conditions?
 - Enduring value of the work
 - Compare other methods – sometimes better
- Technical competence of the methods
 - Power calculations
 - Understanding data errors
- Innovation (more or less)

Other topics

A C G
C G T
A C G

- Human subjects – explain either way
- Diverse populations
- Data and software sharing – broad is good!