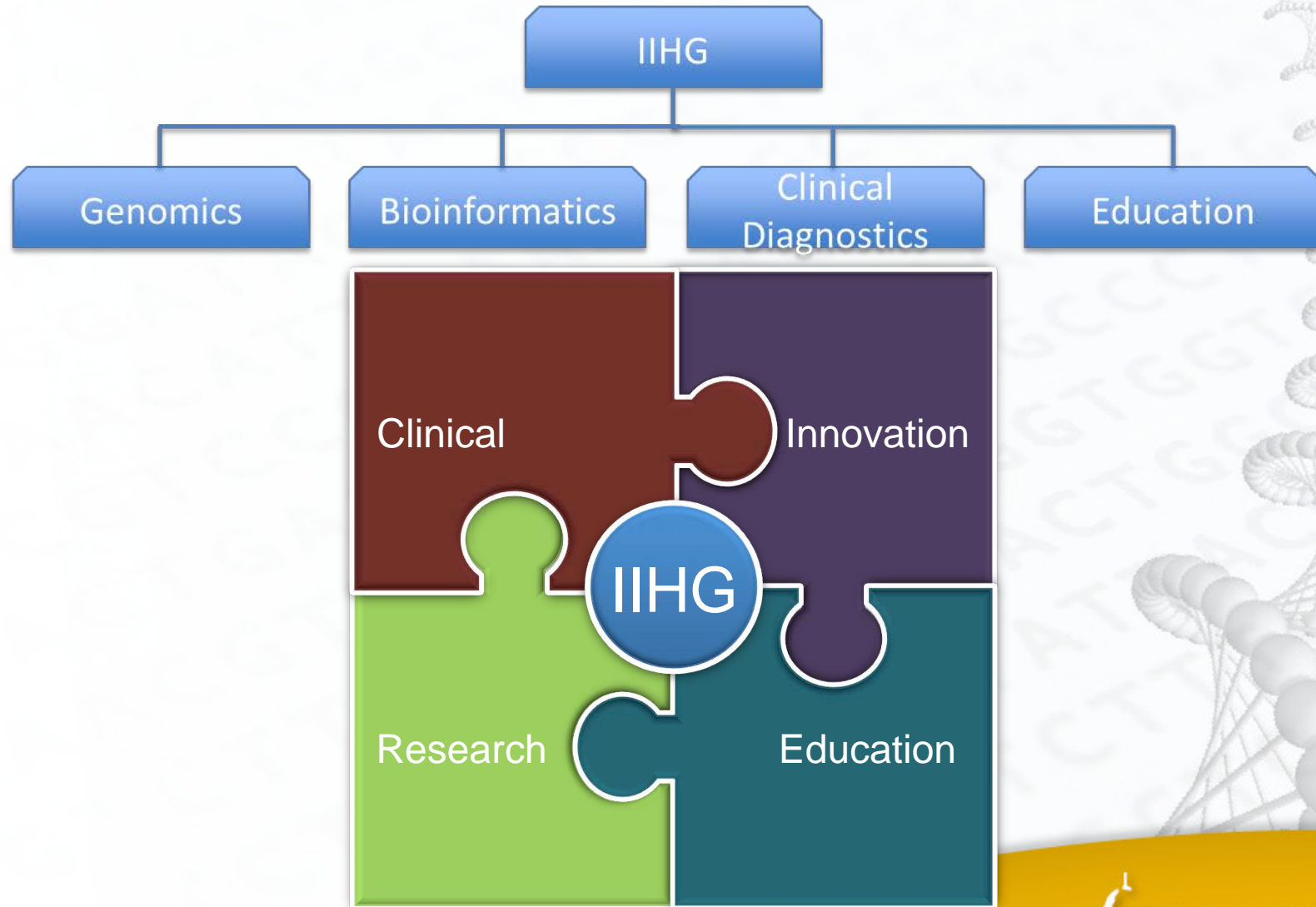


# Iowa Institute of Human Genetics: Bioinformatics Division

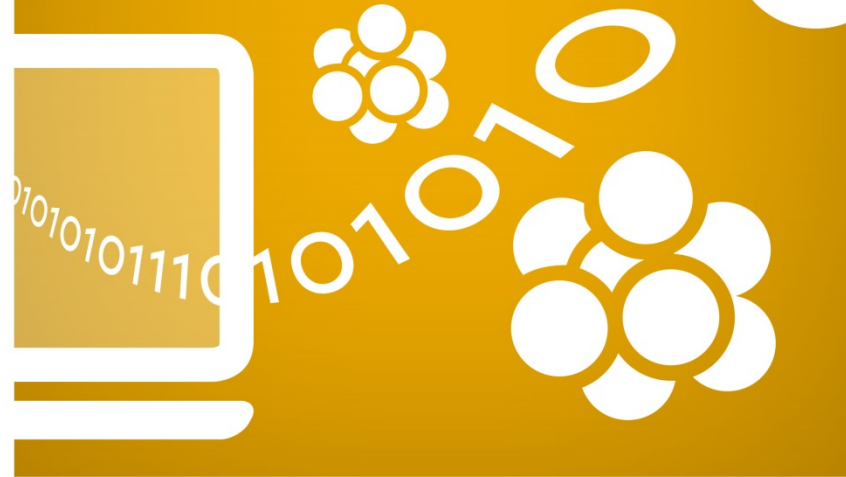
Diana L. Kolbe, Ph.D.

# IIHG Divisions & Supporting Pillars



BIOINFORMATICS DIVISION

Converting complex  
data into biological  
insight.



# Bioinformatics Division

- Data analysis services
  - Exomes, RNAseq, CHIPseq, microarray, etc.
  - Fee for service, or grant support (% effort)
- Provide software – VarSeq, Partek, IPA, Galaxy
- Neon/Argon computing resources

# Personalized Genomic Medicine: Careers in Bioinformatics & Big Data

## Who should attend?

Undergraduate students, academic advisors and graduate students wishing to learn more about careers in bioinformatics.

## Personalized Genomic Medicine Careers in Bioinformatics & Big Data

Personalized genomic medicine is creating multiple opportunities for persons comfortable with handling, processing and analyzing huge datasets.

### Join Us:

- Learn about careers in bioinformatics and big data that are integral to personalized genomic medicine.
- Find out how to become part of the talent pipeline in this rapidly growing area of healthcare.

### Schedule of Events:

- 5:30-5:40pm What is Personalized Genomic Medicine?
- 5:40-6:30pm Panel Discussion
- 6:30-7:30pm Breakout Session (with light snacks)

**02.26.14**

5:30pm-7:30pm  
UCC Conference Center  
2520 D

Register and Learn More Online: [www.medicine.uiowa.edu/humangenetics](http://www.medicine.uiowa.edu/humangenetics)

 UNIVERSITY OF IOWA  
HEALTH CARE  
Iowa Institute of Human Genetics

 UNIVERSITY OF IOWA  
HEALTH CARE

Iowa Institute of Human Genetics

# Summer Bioinformatics Internships

- 8 weeks in duration, 40 hours per week
- Project-based hands-on experience in IIHG or an affiliated research lab



# Summer Bioinformatics Course

- Annual summer courses
  - Target audience - clinicians, molecular scientists, geneticists
  - Bioinformatic analysis of genomic data
  - Mix of current research results and lectures and workshops on computational analysis methods and resources



# Next Generation Sequencing User Group Meetings

- Open to everyone
- Investigators that are currently performing or are planning to start studies using the Next Gen Sequencing platforms are encouraged to attend
- Meetings monthly during academic year

## Next Generation Sequencing (NGS) Interest Group

### Gene Targeting Strategies to Solve the Focal Epilepsies



Michael Hildebrand, PhD  
Neurogeneticist  
University of Melbourne, AU

**When:** Wednesday, June 18  
2:00 pm to 3:00 pm

**Where:** Seebohm Conference Room (283 EMRB)

Dr. Hildebrand will be discussing two genome partitioning strategies: (i) molecular inversion probe technology to identify somatic epilepsy mutations and (ii) exome capture to identify rare familial focal epilepsy genes.