THE JACKSON LABORATORY

Kate Reed
Director, Clinical Education
High school
Undergraduates
Graduate students
Researchers
Clinicians
JAX

To discover precise genomic solutions for disease and empower the global biomedical community in our shared quest to improve human health.

Clinical Education

Integrate genomics into healthcare practice

• Promote health professional education;
• Partner with clinical communities;
• Facilitate collaborations; and
• Create programs and resources.
We have active & are developing/planning programs addressing provider genomic literacy

<table>
<thead>
<tr>
<th>Program title(s)</th>
<th>Multiple</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Online, E-books, Workshops, Blended learning</td>
</tr>
<tr>
<td>Strategies</td>
<td>Collaboration, adult education best practices, reinforcement, competency/skill-based</td>
</tr>
<tr>
<td>Evaluation of trainee competence</td>
<td>Pre/post evaluation, for workshops – longer term evaluation (6 months, 12 months)</td>
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<tr>
<td>Systematic evaluation of program</td>
<td>Internal, collaboration with SMEs &amp; target audience</td>
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<tr>
<td>Genetic/genomic expertise</td>
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<tr>
<td>Timeline</td>
<td>Highly variable</td>
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<tr>
<td>Requests for assistance/collaboration</td>
<td>Identifying audience needs, dissemination/marketing, evaluating impact, embed programs into larger topics</td>
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<tr>
<td>Requests for RESEARCH programs</td>
<td>Engagement of target audience, behavior change evaluation, best practice education development</td>
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Providing education for different learners

**ONLINE COURSES FOR CREDIT**

Courses on precision medicine

Courses on cancer genetics risk assessment, testing and management

**LIVE AND BLENDED WORKSHOPS**

Evidence based and tailored to the needs of your institution

It was highly interactive, used many modalities of learning, and reinforced practice of a few key concepts.

- Wolfington Participant

**TOOLS, RESOURCES, AND FACTSHEETS**

- **Breast Cancer**
  Breast cancer resources for health professionals

- **Cancer Resources**
  Cancer resources for professionals in clinical and continuing education

- **Clinical Education**
  Resources for clinical educators teaching genetics

- **Colorectal Cancer**
  Colorectal cancer resources for health professionals

- **Ethical Issues In Genetics**
  Resources about ethical, legal, and social issues (ELSI) related to genetics and genomics in clinical practice

- **Family History**
  Family history resources for health professionals

- **Genetic Testing Management**
- **Prenatal Care**

**www.jax.org/ccep**
**Types: Focus on clinical skills**

<table>
<thead>
<tr>
<th>Topics</th>
<th>Self-directed online courses</th>
<th>In-person workshops</th>
<th>E-books</th>
<th>Online tools</th>
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<tbody>
<tr>
<td>Clinical skills</td>
<td>X</td>
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<tr>
<td>Cancer genomics</td>
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<td>Personalized medicine</td>
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<td>Genetic testing technologies</td>
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Strategies: Best Educational Practices

Cancer Genetics Risk Assessment, Testing, and Management

Watch

Practice

Dig Deeper

Use Tools

Take the Quiz

Family History Collection Tool
A tool to help healthcare providers collect family history information to be able to assess underlying genetic risk.

Pedigree Tool
A tool to assist in the creation and interpretation of standardized human pedigree nomenclature.

Encourage patients to find out more details about their cancer family history.
Strategies: Collaboration

Precision Medicine for Your Practice

Learn how to determine if cell free DNA screening is right for your patient.

NIA
Nick is 27 years of age and at 20 weeks gestation in his third pregnancy. She understands she has an increased risk for fetal chromosome abnormalities due to her age.

SARAH
Sarah is 32 and at 8 weeks gestation in her first pregnancy. She has a history of ultrasound gestational diabetes and this pregnancy was conceived by in vitro fertilization.

ALISHA
Alisha is 28 and currently 16 weeks gestation in her second pregnancy. Her first trimester screen showed an increased nuchal translucency (NT) with an elevated risk for Trisomy 21.

www.jax.org/cepm
Evaluation: Continued engagement

1. Interactive workshop
2. Monthly reinforcement
3. Longer term evaluation
Needs: Collaboration & Support

- Identify and target educational needs
- Engagement and dissemination
- Real-world evaluation