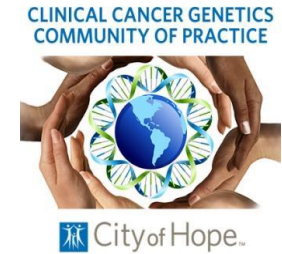


City of Hope  
*Intensive Course and  
Clinical Cancer Genomics Community of  
Practice*

Orientation  
Friday, October 29<sup>th</sup>, 2021  
8:30-10:00 am PT



# Agenda



## Overview/Introductions

- Background/Goals/People
- Delivery/Participation
- Curriculum

## Participation, Assignments and Surveys

- Weekly Distance Modules
  - GCRA Case Assignment
  - Pedigree Drawing, HBOC Risk Assessment, GCRA Practice Surveys
- Weekly Web Conference Review Sessions (Fridays, 8:30-10 am PT)
  - Distance Learning Evaluations
- GCRA Web Case Conferences (5 required)
  - Live (preferred) and/or recorded
  - Case Conference Feedback Forms

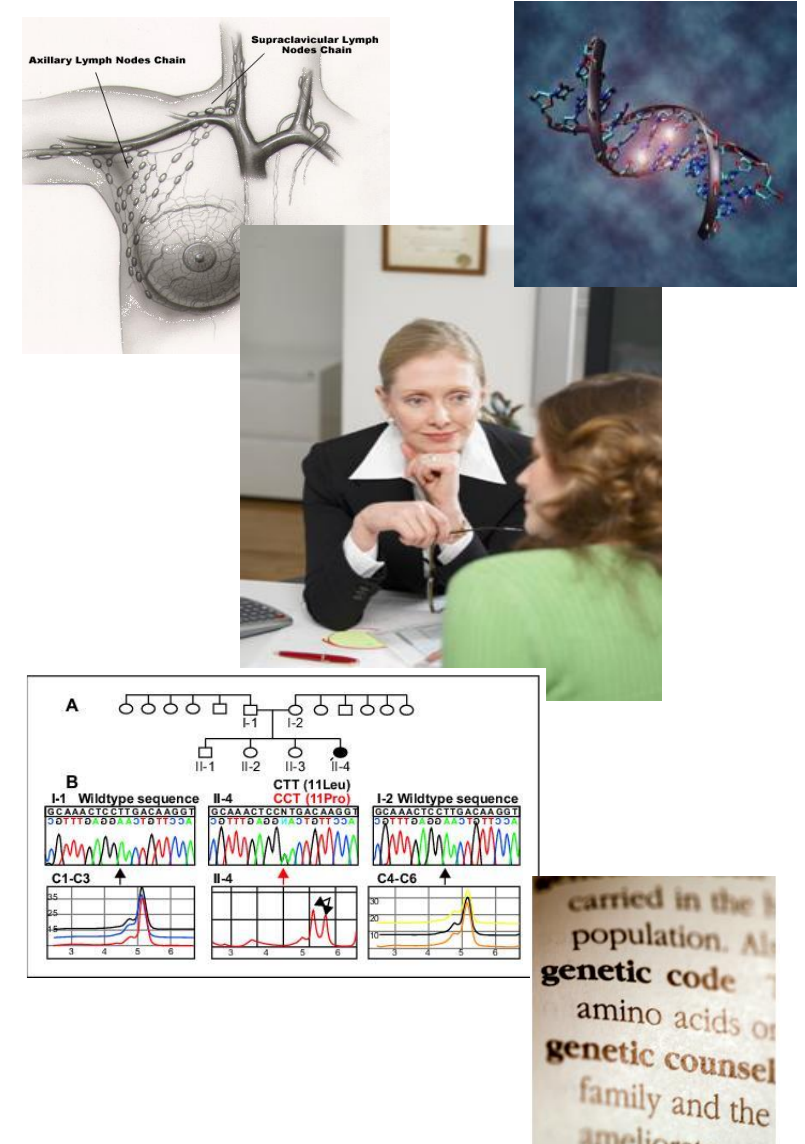
## How to Access and Use Distance Learning Tools

- CCGCoP Portal
- ZOOM Web conferencing
- Discussion Forum
- Quizzes, Tests, Assignments

# Background

- Genetic cancer risk assessment (GCRA) is a standard of care specialty practice that uses genetic/genomic information to
  - Identify individuals with inherited cancer risk
  - Prescribe high-risk screening and preventive care; targeted therapies
  - Identify at-risk family members (cascade testing)
- Market forces and advances in genomic technologies fueling demand for clinicians with proficiency-level expertise in GCRA services

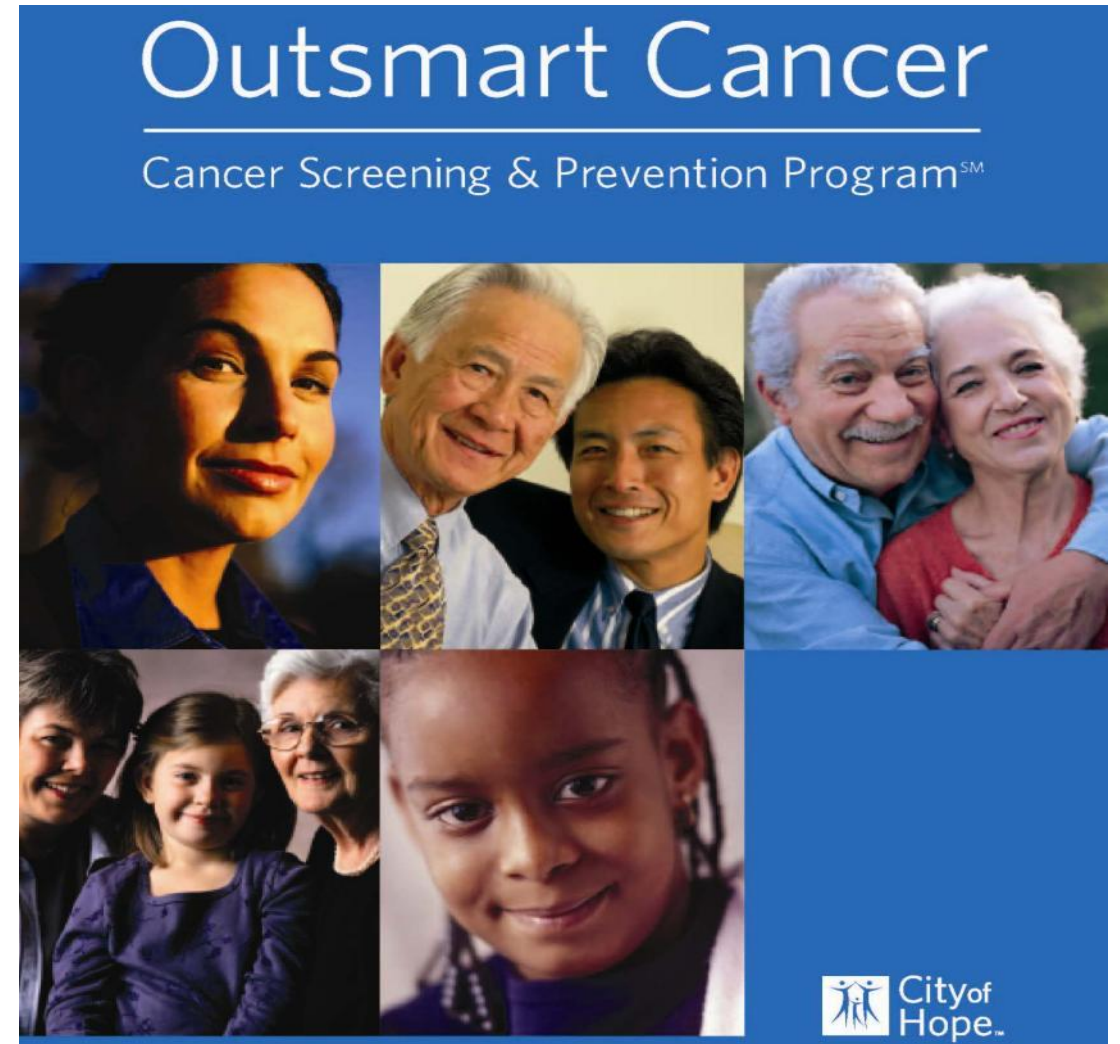
*Lack of clinicians with knowledge and skills in GCRA a significant barrier to care*



# City of Hope Division of Clinical Cancer Genomics (CCG)

Dedicated to *Standards of Excellence*  
in Cancer Genetics

- Patient Care
- Research
- Education and Training







## Intensive Course in Cancer Risk Assessment for Genetic Counselors and Advanced Practice Nurses

10-day course  
February 17, 2001–  
March 1, 2001

*Offered by City of Hope's Center for  
Cancer Genetics Technology Transfer Research*



City of  
Hope

National Medical Center  
*An NCI-designated Comprehensive Cancer Center*

City of Hope Cancer Center  
1500 E. Duarte Road  
Duarte, CA

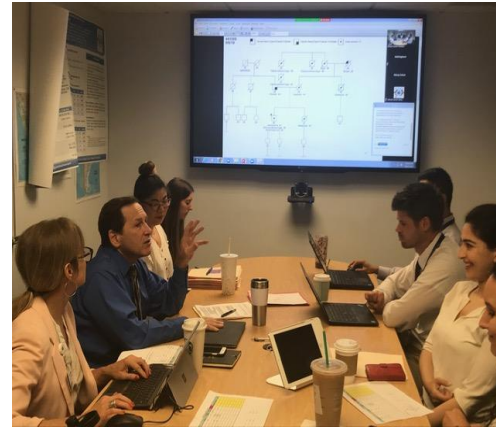
# *Intensive Course and Clinical Cancer Genomics Community of Practice (CCGCoP)*

Supported by NCI R25 (CA112486, CA171998-08)

## Interactive Distance Didactics



## Web-based Case Conferencing



## Face-to-Face Workshops



- ❑ Brings clinicians with different training and practice backgrounds together for learning and skills development
- ❑ Course goals
  - ❑ Increase the number of clinicians with practitioner-level competency in GCRA
  - ❑ Support best practices in GCRA
  - ❑ Promote community-based collaborations in cancer genomics research



*Intensive Course and CCGCoP:  
A distance-mediated community of practice*

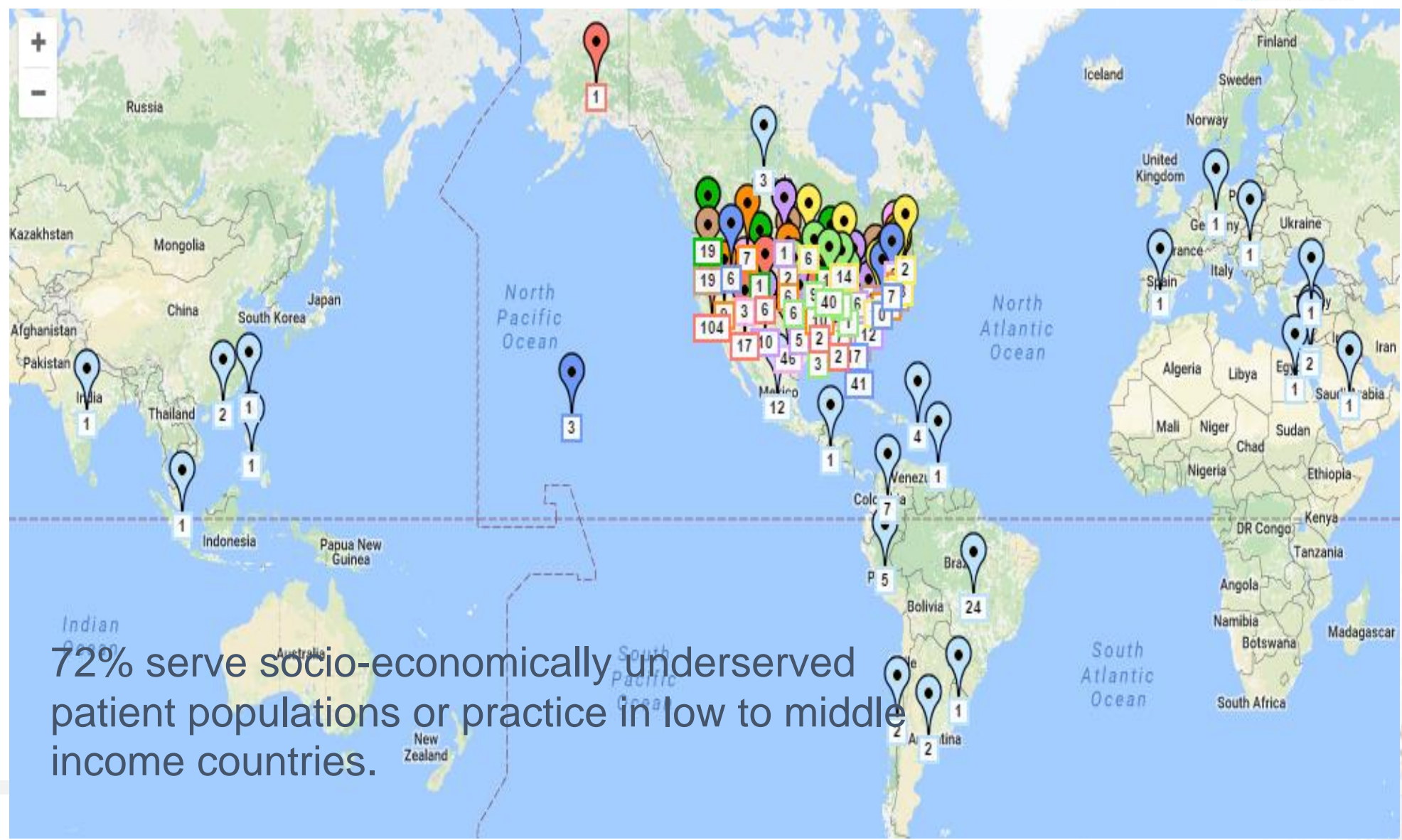


- ❑ Design informed by Situated Learning Theory (Lave and Wenger 1991)
- ❑ Knowledge and skills co-generated through real-world interactions among people with common goals (Wenger, et al., 2002)

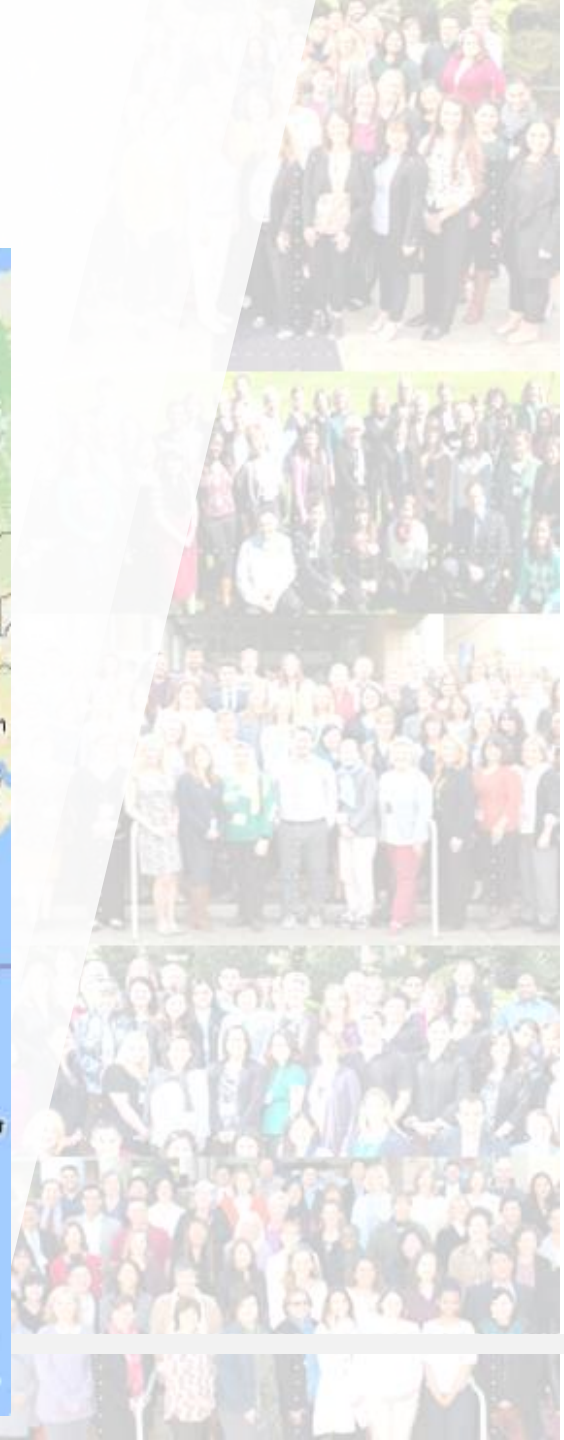


# Clinical Cancer Genomics Community of Practice

>1,350 Alumni across all 50 states and 30 countries



72% serve socio-economically underserved patient populations or practice in low to middle income countries.





- Administrative Team
- COH and Guest Faculty
- You – Our 2022 course participants



# CCGCoP Leadership and Administrative Support Team



Kathleen Blazer, EdD, MS, CGC  
Principle Investigator/Director



Gloria Nunez, MPH  
Program Administrator



Rachelle Manookian, MS, CGC  
Curriculum Coordinator



Phyllis Leung,  
MEd



Dev Tanna,  
BS



John Luna,  
MS

Education Assistants/Administrative Coordinators



# CCGCoP

## Curriculum Committee



Sandra Dreike  
MS, CGC



Lauren Gima  
MS, CGC



Rachelle Manookian  
MS, CGC



Bitu Nehoray  
MS, CGC



Susan Shehayeb  
MS, CGC



Elise Sobotka  
MS, MPH



Ilana Solomon  
ScM, MA, CGC



Elyssa Zukin  
MS, CGC





# City of Hope Faculty



Kathleen R. Blazer  
EdD, MS, CGC



Danielle Castillo, BS



Sandra Dreike  
MS, CGC



Lauren Gima  
MS, CGC



Stacy W. Gray  
MD, MA



Stephen Gruber,  
MD, PhD, MPH



Josef Herzog, BS



Gregory Idos  
MD, MS



Elizabeth King  
RN, FNP



Rachelle Manookian  
MS, CGC



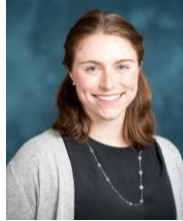
Bitá Nehoray  
MS, CGC



Wai Park, DO



Susan Shehayeb  
MS, CGC



Elise Sobotka  
MS, MPH, CGC



Ilana Solomon,  
ScM, MA, CGC



Elyssa Zukin  
MS, CGC

# Distinguished Guest Faculty



Jane Churpek, MD  
University of  
Wisconsin-Madison



Julie Culver, MS, CGC  
USC Norris Comprehensive Cancer Center



Tobias Else, MD  
University of Michigan



Carol Fabian, MD  
KU Breast Cancer Prevention Center



Judy Garber, MD, MPH  
Dana Farber Cancer Institute



Veda Giri, MD  
Thomas Jefferson University



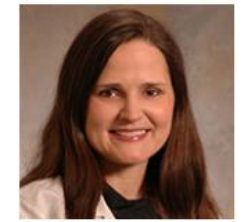
Heather Hampel, MS, CGC  
Ohio State University  
Medical Center



Teresa Heckel, MBA  
Sarah Cannon Research Institute



Karen Hurley, PhD  
Cleveland Clinic



Sonia S. Kupfer, MD  
University of Chicago  
Medical Center



Patrick Lynch, MD  
The University of Texas MD  
Anderson Cancer Center



Brian Shuch, MD  
University of California, Los Angeles



Colin Pritchard, MD, PhD  
University of Washington  
Medical Center



Charité Ricker, MS, CGC  
University of Southern California  
Keck School of Medicine



Jeffrey N. Weitzel, MD  
Professor of Oncology and  
Population Sciences

# Elective & Emeritus Faculty



Patricia Ashton-Prolla,  
MD, PhD, FACMG  
Hospital de Clinicas  
de Porto Alegre



Randall W. Burt, MD  
Huntsman Cancer  
Institute



Stephanie Cohen,  
MS, LCGC  
St. Vincent Hospital



Fergus J. Couch, PhD  
Mayo Clinic



Kevin Davies, PhD  
C&EN American  
Chemical Society



Charis Eng, MD, PhD  
Case Western Reserve



Lucy Langer, MD, MSHS  
Compass Oncology



Katrina Lowstuter,  
MS, CGC  
USC/Norris



Therese M. Mulvey, MD  
MA General Hospital



Karen Tedesco, MD  
NY Oncology  
Hematology



Kenneth Offit, MD, MPH  
Memorial Sloane-  
Kettering Cancer Center



Olufunmilayo Olopade,  
MD, FACP  
University of Chicago  
Medical Center



Mark E. Robson, MD  
Memorial Sloan-  
Kettering Cancer Center



Patricia Rodriguez, MD  
Virginia Cancer  
Specialists



Christina Rybak,  
MS, LCGC  
Human Longevity



Thomas Slavin, MD,  
FACMG, DABMD  
Myriad Genetics



Louise C. Strong, MD  
The University of Texas MD  
Anderson Cancer Center



Sharon Wilczynski, MD, PhD  
City of Hope Comprehensive  
Cancer Center



Janet L. Williams, MS, LGC  
Genomic Medicine Institute,  
Geisinger Health System



Marc S. Williams, MD, FAAP, FACMG  
Genomic Medicine Institute of the  
Geisinger Health System



# IC 2022 Course Participants

## 169 Participants

- 47 Track 1
- 122 Track 2

## Professional Credentials

- MD/DO/MD, PhD = 63
- RN/FNP/APN/DNP = 82
- PA-C = 18
- CGC = 5
- Rad Tech = 1

## Practice Focus

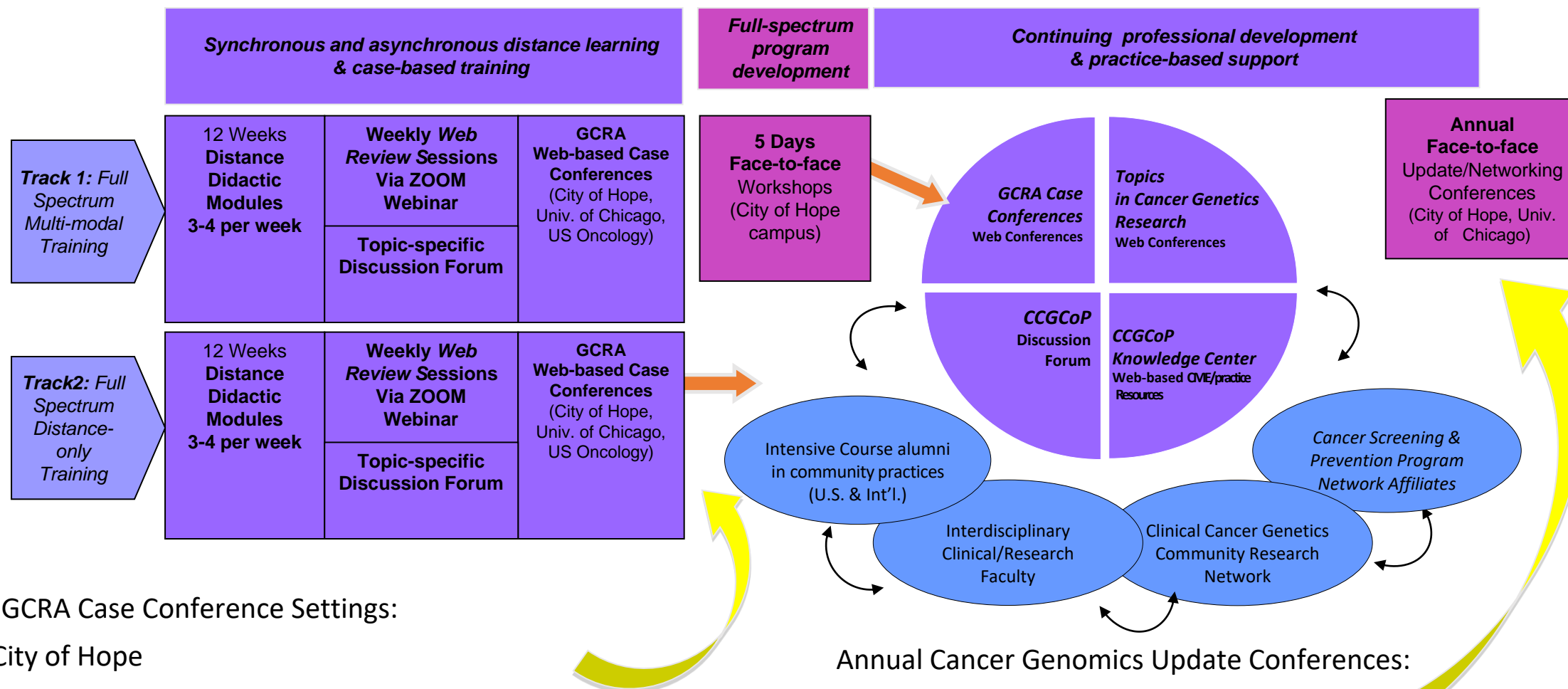
- Oncology
- Genetics
- Primary Care
- Other

**Countries: Brazil, Canada, Mexico, Philippines, Romania, Saudi Arabia, Switzerland, Taiwan, USA**



# City of Hope

## Intensive Course and Clinical Cancer Genomics Community of Practice (CCGCoP)



# CCGCoP Portal: IC Distance Learning Resources

## Course Materials

- Course Requirements, Syllabus, Curriculum Calendar
- Module recordings, materials and weekly quizzes

## Zoom Web Conferences

- Friday Review/Update Sessions
- GCRA Case Conferences
- Topics in Cancer Genetics Research Presentations
- Recorded GCRA Case Conferences

## Intensive Course Discussion Forum

- Topic-specific interactions/support

## Community

- Faculty and Administrative team
- Course participants

<https://www.ccgcop.org>

## Intensive Course Home 2022

Community Homes / Intensive Course Home 2022

COURSE INFO

COURSE PARTICIPANTS

ACCREDITATION

FAQS & TUTORIALS

Welcome to the City of Hope *Intensive Course in Cancer Risk Assessment* home page!  
You will find links to all of the resources you need for participation in the course here



[View Course Modules  
Education Portal](#)



[Join The Conversation:  
Discussion Forum](#)



[GCRA Case Conference  
Recordings](#)

## Course Description

Communities / Intensive Course 2022 / Course Description

INTENSIVE COURSE HOME

COURSE SYLLABUS

EVENT CALENDAR





Education Portal



Courses



Event Calendar



My Communities



Member Directory

## Welcome

Kathleen Blazer ▾

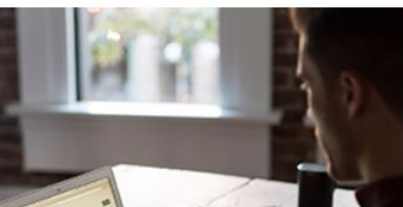
LOG OUT

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[Courses ▾](#)

[Glossary](#)

[Cart \(0 items\)](#)



Courses & Self Paced Learning

BROWSE



## Courses



GCRA Resources



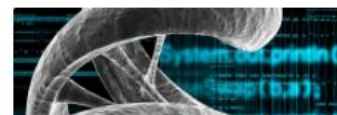
IC 2021

VIEW



IC 2022

VIEW



## IC 2022 Weekly Distance Learning Modules

GCRA CASE CONFERENCE FEEDBACK FORMS

Search Items

Search Agenda Items

×

▸ Week 1: Fundamentals of Genetics	Nov 1-5, 2021
▸ Week 2: Essential Components of the GCRA Practice	Nov 8-12, 2021
▸ Week 3: Genetic/Genomic Testing	Nov 15-19, 2021
▸ Week 4: Hereditary Breast and Ovarian Cancer Syndromes, Part 1	Nov 29-Dec 2, 2021
▸ Week 5: Hereditary Breast and Ovarian Cancer Syndromes, Part 2	Dec 6-10, 2021
▸ Week 6: Hereditary Gastrointestinal Syndromes, Part 1	Dec 13-17, 2021

**Live Orientation Webinar:** Friday, October 29, 2021, 8:30-10:00 am PST



**NOTE GCRA Case Assignment Due Dec 17 – Sending TODAY**



### **Week 1: Fundamentals of Genetics – November 1-5, 2021**

Live Web Session – Friday, November 5, 2021, 8:30-10:00 am PST

Modules	Assignments
Basic Genetics Primer, Part 1 ( <i>Gima</i> )	Due: • Week 1 Quiz • Week 1 Distance Evaluation Assigned: • Pedigree Drawing Assignment Due Nov 12
Basic Genetics Primer, Part 2 ( <i>Shehayeb</i> )	
Basic Science of Cancer Genetics ( <i>Weitzel</i> )	

**Weekly**

Attend GCRA Case  
Conferences and  
submit feedback form



### **Week 2: Essential Components of the GCRA Process – November 9-13, 2021**

Live Web Session – Friday, November 13, 2021, 8:30-10:00 am PST\*

Modules	Assignments
The Fundamentals of GCRA ( <i>Nehoray</i> )	Due: • Week 2 Quiz • Week 2 Distance Evaluation • Pedigree Drawing Assignment
Documenting the Family Cancer History ( <i>Ricker/Blazer</i> )	
Reading the Pathology Report through the Genomics Lens ( <i>Nehoray</i> )	

**>5 Total during  
course**

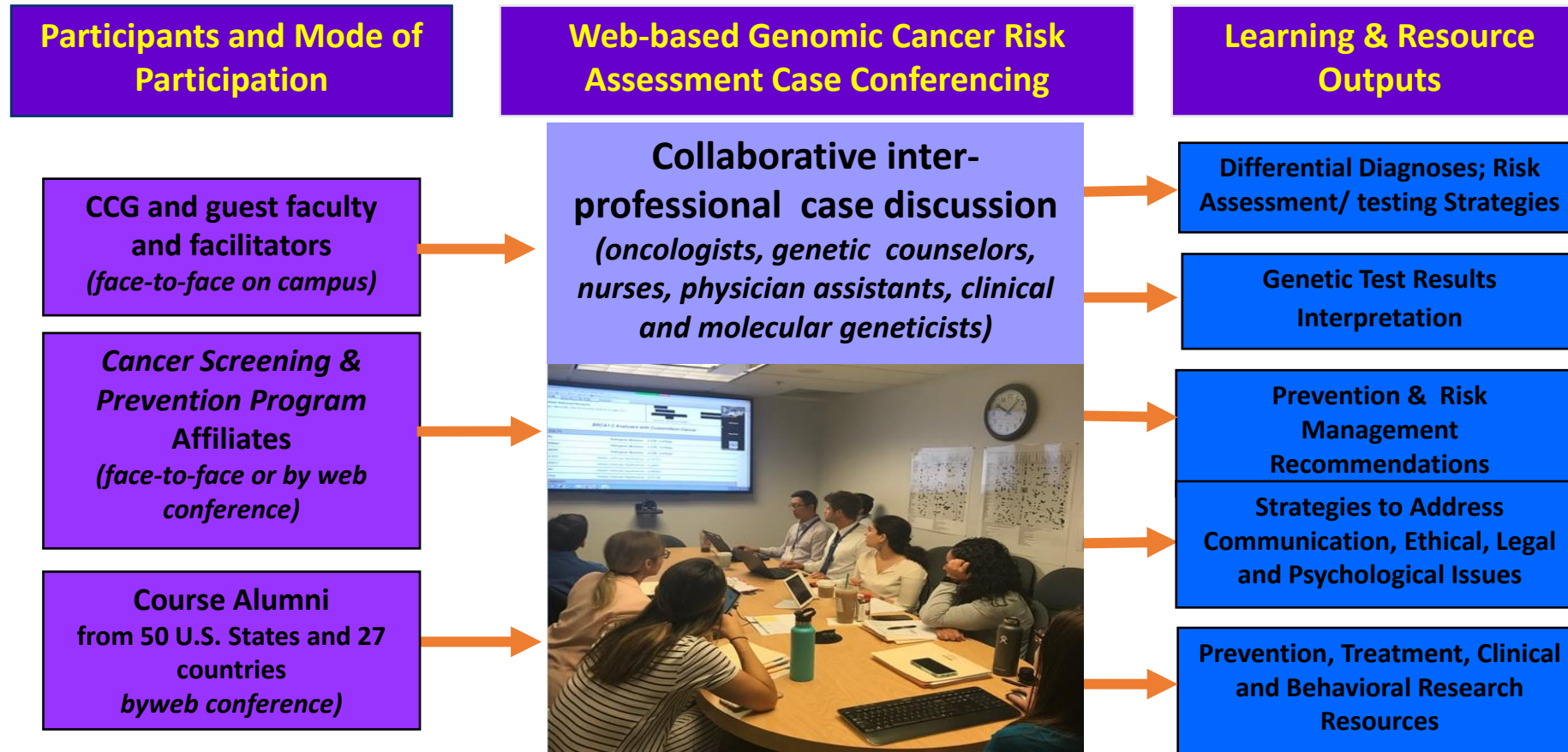
# Genetic Cancer Risk Assessment (GCRA) Case Assignment

- Assignment Link going out today via email
- GCRA Case from your practice (yours or a colleague's)\*
  - Anonymized
    - Pedigree
    - Genetic test report(s) and/or other medical documents as needed
- Submit on or before December 17<sup>th</sup>, 2021
  - Option to present at upcoming case conference, Friday web review or case-based workshop (Dev will email to schedule)

\*email [dtanna@coh.org](mailto:dtanna@coh.org) if you have no case and need alternate assignment



# GCRA Web-based Case Conferences



- Embodies tenets of *Situated Learning Theory* (Lave & Wenger, 1991)
- Course Requirements:
  - Attend  $\geq 5$  sessions during Distance learning
  - Complete *Case Conference Feedback Form* after each session
  - Present  $\geq 1$  Case from participant's practice (Case Assignment)
- Conducted at COH, UChicago and USON



### Week 3: Genetic/Genomic Testing – November 16-20, 2021

Live Web Session – Friday, November 20, 2021, 8:30-10:00 am PST

Modules	Assignments
Laboratory Methods for Inherited Cancer Susceptibilities (Pritchard)	Due: <ul style="list-style-type: none"><li>• Week 3 Quiz</li><li>• Week 3 Distance Evaluation</li><li>• Community of Practice Survey</li></ul> Assigned: <ul style="list-style-type: none"><li>• HBOC Risk Assessment Homework Due Dec 9</li></ul>
Characterization and Clinical Interpretation of Germline Genomic Variants (Pritchard)	
Mutation Nomenclature: Reading and Interpreting Genetic Test Results (Castillo)	

**Micro Learning:** Navigating Cases with Variants of Uncertain Significance (Nehoray)

Attend GCRA Case Conferences and submit feedback form

>5 Total during course



### Thanksgiving Holiday: November 22-26, 2021 – No Web Session

Enjoy time with your family!

Please take this time to catch up on and review video modules, view an archived Topics webinar, and/or view GCRA Case Conference recordings and complete feedback forms (5 required).

**Reminder:** GCRA Case Assignment Due Dec 17



## Week 4: Hereditary Breast and Ovarian Cancer Syndromes Part 1 – November 29 – December 3, 2021

Live Web Session – Friday, December 3, 2021, 8:30-10:00 am PST

Modules	Assignments
Hereditary Breast/Ovarian Cancer Syndromes Part 1 (Weitzel)	Due: <ul style="list-style-type: none"><li>• Week 4 Quiz</li><li>• Week 4 Distance Evaluation</li></ul>
Hereditary Breast/Ovarian Cancer Syndromes Part 2: Other Genes on Panel (Weitzel)	
Hereditary Breast/Ovarian Cancer Risk Assessment (Culver)	

**Micro Learning:** Prepping a Breast Case for GCRA (*Nehoray*); Prepping a GYN Case for GCRA (*Shehayeb*)

Attend GCRA Case  
Conferences and  
submit feedback form

>5 Tot  during  
course



## Week 5: Hereditary Breast and Ovarian Cancer Syndromes Part 2 – December 6-10, 2021

Live Web Session – Friday, December 10, 2021, 8:30-10:00 am PST

Modules	Assignments
Clinical Management of Hereditary Breast & Ovarian Cancers, Part 1 (Garber)	Due: <ul style="list-style-type: none"><li>• Week 5 Quiz</li><li>• Week 5 Distance Evaluation</li><li>• HBOC Risk Assessment Homework</li></ul>
Clinical Management of Hereditary Breast & Ovarian Cancers, Part 2: Chemoprevention (Fabian)	





## Week 6: Hereditary Gastrointestinal Syndromes Part 1 – December 13-17, 2021

Live Web Session – Friday, December 17, 2021, 8:30-10:00 am PST

Modules	Assignments
Hereditary Gastrointestinal Cancer Syndromes, Part 1: Lynch syndrome ( <i>Kupfer</i> )	Due: <ul style="list-style-type: none"> <li>• Week 6 Quiz</li> <li>• Week 6 Distance Evaluation</li> <li>• GCRA Case Assignment</li> </ul>
Hereditary Gastrointestinal Cancer Syndromes, Part 2: Polyposis ( <i>Idos</i> )	
Hereditary Gastrointestinal Cancer Syndromes, Part 3: Gastric Pancreatic ( <i>Kupfer</i> )	

**Micro Learning:** Prepping a Colon Polyposis Case for GCRA (*Manookian*)

|

Attend GCRA Case  
Conferences and  
submit feedback form



## Winter Holiday: December 20-31, 2021 – No Web Sessions

Have a Happy New Year!

Please take this time to catch up on and review video modules, view an archived Topics webinar, and/or view GCRA Case Conference recordings and complete feedback forms (5 required).

>5 Total  during  
course

## Week 7: Hereditary Gastrointestinal Syndromes Part 2 – January 3-7, 2022

Live Web Session – Friday, January 7, 2022, 8:30-10:00 am PST

Modules	Assignments
Significance and Practical Applications for Tumor Phenotyping (IHC/MSI) Hereditary Cancer Risk Assessment ( <i>Hampel</i> )	Due: <ul style="list-style-type: none"> <li>• Week 7 Quiz</li> <li>• Week 7 Distance Evaluation</li> </ul>
Clinical Management of Hereditary Gastrointestinal Cancers ( <i>Lynch</i> )	

**Micro Learning:** Prepping a Colon Case for GCRA (*Gima*); Mismatch Repair Deficiency Primer (*Erwin*)



## Week 8: Pediatric, Hematologic, and Genodermatosis Syndromes – January 10-14, 2022

Live Web Session – Friday, January 14, 2022, 8:30-10:00 am PST

Modules	Assignments
Pediatric Cancer Syndromes ( <i>Dreike</i> )	Due: <ul style="list-style-type: none"> <li>• Week 8 Quiz</li> <li>• Week 8 Distance Evaluation</li> </ul>
Hereditary Hematologic Cancer Syndromes ( <i>Churpek</i> )	
Hereditary Genodermatoses ( <i>Park</i> )	
Hereditary Melanoma ( <i>Park</i> )	

Attend GCRA Case Conferences and submit feedback form



## Week 9: Hereditary Endocrine and Genitourinary Cancer Syndromes – January 17-21, 2022

Live Web Session – Friday, January 21, 2022, 8:30-10:00 am PST

Modules	Assignments
Hereditary Endocrine Neoplasias ( <i>Else</i> )	Due: <ul style="list-style-type: none"> <li>• Week 9 Quiz</li> <li>• Week 9 Distance Evaluation</li> </ul> Assigned: <ul style="list-style-type: none"> <li>• GCRA in Your Practice Survey</li> </ul>
Genitourinary Cancer Syndromes ( <i>Shuch</i> )	
Hereditary Prostate Cancer ( <i>Giri</i> )	

**Micro Learning:** Prepping a Genitourinary Case for GCRA (*Manookian*)

≥5 Total during course



## Week 10: Tumor/Germline Testing; Understanding and Interpreting Clonal Hematopoiesis – January 24-28, 2022

Live Web Session – Friday, January 28, 2022, 8:30-10:00 am PST

Modules	Assignments
TUMOR/Germline Analysis in GCRA Practice, Part 1 (Gray)	Due: <ul style="list-style-type: none"><li>• Week 10 Quiz</li><li>• Week 10 Distance Evaluation</li></ul>
TUMOR/Germline Analysis in GCRA Practice, Part 2 (Rajagopal)	
Navigating Complex Genetic Test Results - Clonal Hematopoiesis (Weitzel)	

**Micro Learning:** When to Suspect & How to Work-up a Case with Clonal Hematopoiesis (*Nehoray*)

Attend GCRA Case Conferences and submit feedback form



## Week 11: Ethical, Legal and Social Implications; Psychosocial and Family Dynamics – January 31-February 4, 2022

Live Web Session – Friday, February 4, 2022, 8:30-10:00 am PST

Modules	Assignments
Ethical, Legal, and Social Issues in Cancer Genetics (Solomon)	Due: <ul style="list-style-type: none"><li>• Week 11 Quiz</li><li>• Week 11 Distance Evaluation</li><li>• GCRA in Your Practice Survey</li></ul>
Psycho-social and Family Dynamics of Hereditary Cancers (Hurley)	

>5 Total  during course





## **Week 12: GCRA Counseling Strategies – February 7-11, 2022**

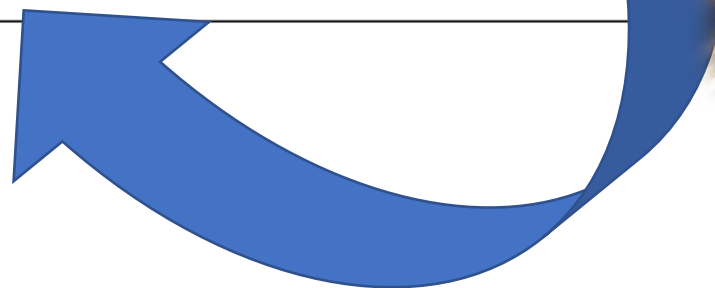
Live Web Session – Friday, February 11, 2022, 8:30-10

<b>Modules</b>
Cancer Risk Assessment Counseling Strategies Part 1: Initial GCRA Session Part 2: Results Disclosure GCRA Session <i>(CCG Faculty)</i>



<b>TRACK 1 ONLY – Virtual Orientation</b> February 21-25, 2022
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<b>CCGCOP Orientation &amp; Graduation Ceremony – All Tracks</b> February 25, 2022, 12:00pm PST
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# CCGCoP Portal: professional development and practice support resources



CLINICAL CANCER GENOMICS  
COMMUNITY OF PRACTICE

CITY OF HOPE DIVISION OF CLINICAL CANCER GENOMICS

Cc

## Welcome to CCGCoP

A comprehensive program of interprofessional education, skills development and point of care practice support for clinicians.

LEARN MORE

### *Connections*

- Faculty
- Course participants
- Alumni (Community Members)

### *Web Conference links*

- Weekly Case Conferences
- Topics in Cancer Genomics Webinars

### *Discussion Forum*

- Topic-specific interactions among participants, faculty, alumni
- Point-of-care practice support



# Annual Cancer Genomics Update Conferences



# GENETICS IN CLINICAL CANCER CARE:

## 2022 *REUNION* *Live in Chicago!*

**SAVE THE DATE:**  
APRIL 22-24, 2022 | FAIRMONT CHICAGO MILLENNIUM PARK, CHICAGO, IL

AT THE FOREFRONT  
**UChicago Medicine**

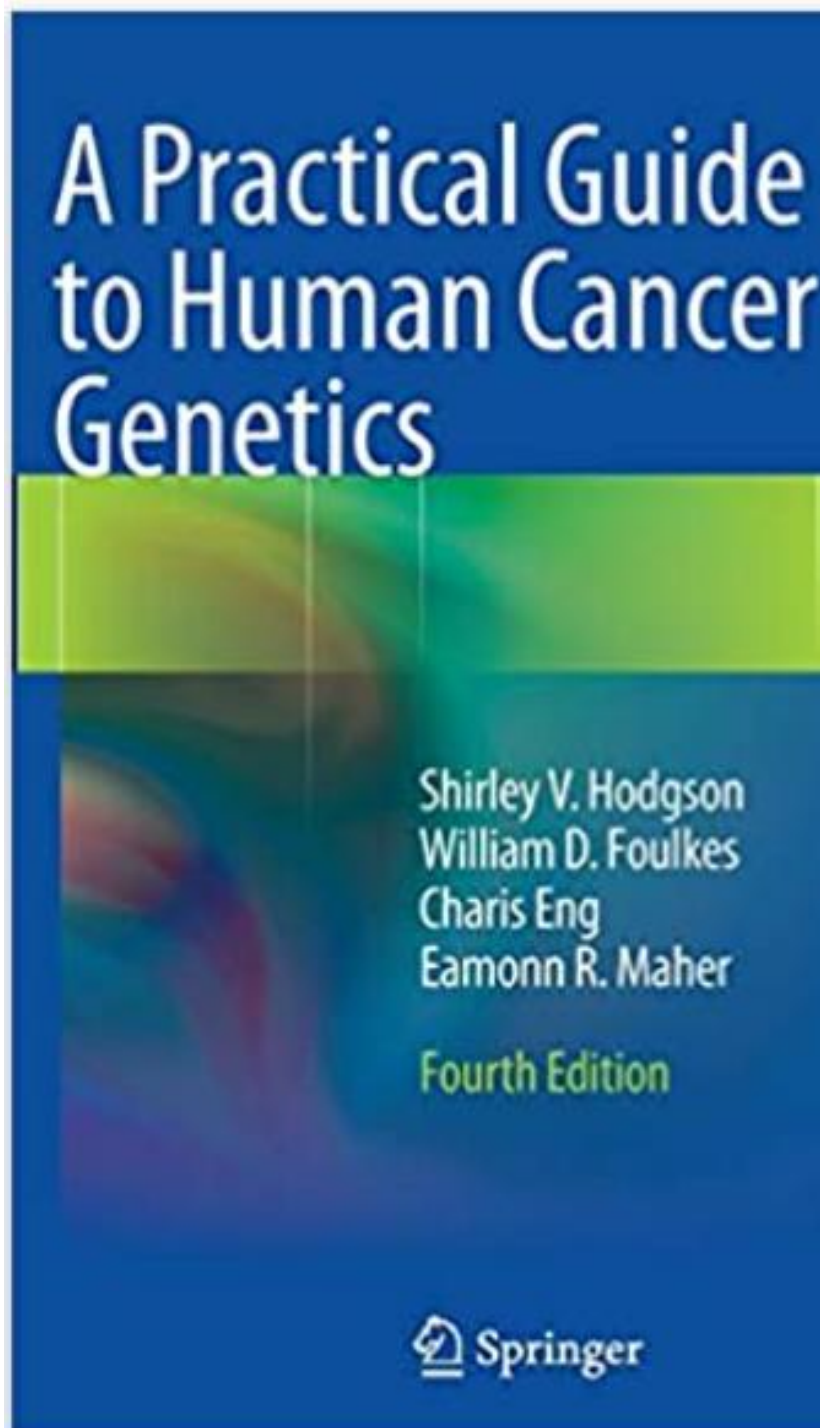
IN PARTNERSHIP WITH:

City of Hope  
RESEARCH • TREATMENT • CURES

For information regarding this course,  
email [Heather@MeetingAchievements.com](mailto:Heather@MeetingAchievements.com)

10<sup>th</sup> Annual Conference April 22-24, 2022





## Supplemental Resources

### ***Supplemental Textbook:***

***Practical Guide to Human Cancer Genetics.*** 4<sup>th</sup> Edition, Hodgson, S. V., Foulkes, W. D., Eng, C., & Maher, E. R. (2013) Cambridge University Press, **ISBN-13:** 978-1447171720; **ISBN-10:** 1447171721


<https://www.nccn.org/default.aspx> - National Comprehensive Cancer Network (NCCN) Clinical Practice Guidelines in Oncology (registration required to access guidelines)

<http://www.ncbi.nlm.nih.gov/books/NBK1116/> - GeneReviews™ (catalogue of genetic syndromes and features)


<http://www.cancer.gov/cancertopics/pdq/genetics> - NCI PDQ on Clinical Cancer Genetics






<http://www.genome.gov/10000464> - National Human Genome Research Institute education and resources

# Essential Resource: NCCN Guidelines

**National Comprehensive Cancer Network®**

National Comprehensive Cancer Network



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Clinical & Business Resources

NCCN Global

NCCN Oncology Research Program

Patient Resources

## NCCN Guidelines®

About The NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Development and Update of the NCCN Guidelines

Recent Updates to NCCN Guidelines®

NCCN Guidelines Panels - Meeting Schedule

NCCN Categories of Evidence and Consensus

NCCN Categories of Preference

NCCN Guidelines® Steering Committee

Transparency: Process and Recommendations

Submission Request to the NCCN

## NCCN Guidelines® & Clinical Resources

### NCCN Guidelines®

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) are posted with the latest update date and version number.

The NCCN Guidelines are copyrighted by the NCCN. All rights reserved. NCCN Guidelines and illustrations (including algorithms) may not be reproduced in any form for any purpose without the express written permission of the NCCN. [Permissions Requests Section](#).

[Click here to view the NCCN Guidelines Panel Members individual disclosures](#)

#### NCCN Guidelines for Treatment of Cancer by Site

#### NCCN Guidelines for Detection, Prevention, & Risk Reduction

#### NCCN Guidelines for Supportive Care

#### NCCN Guidelines for Specific Populations

#### NCCN Guidelines for Patients

The NCCN guidelines are FREE! Register for a free account, then click on the cancer types below to display a drop down of options. If you are still having an issue, please [contact us](#).

### Quick Links

Clinicians

[COVID-19 Resources](#)

[NCCN Guidelines® - FREE](#)

[NCCN Compendium®](#)

[NCCN Biomarkers Compendium®](#)

[NCCN Imaging AUC™](#)


[NCCN Radiation Therapy Compendium™](#)

[NCCN Templates®](#)

[Educational Events](#)

[CME/CE Programs](#)

[NCCN Guidelines for Patients®](#)

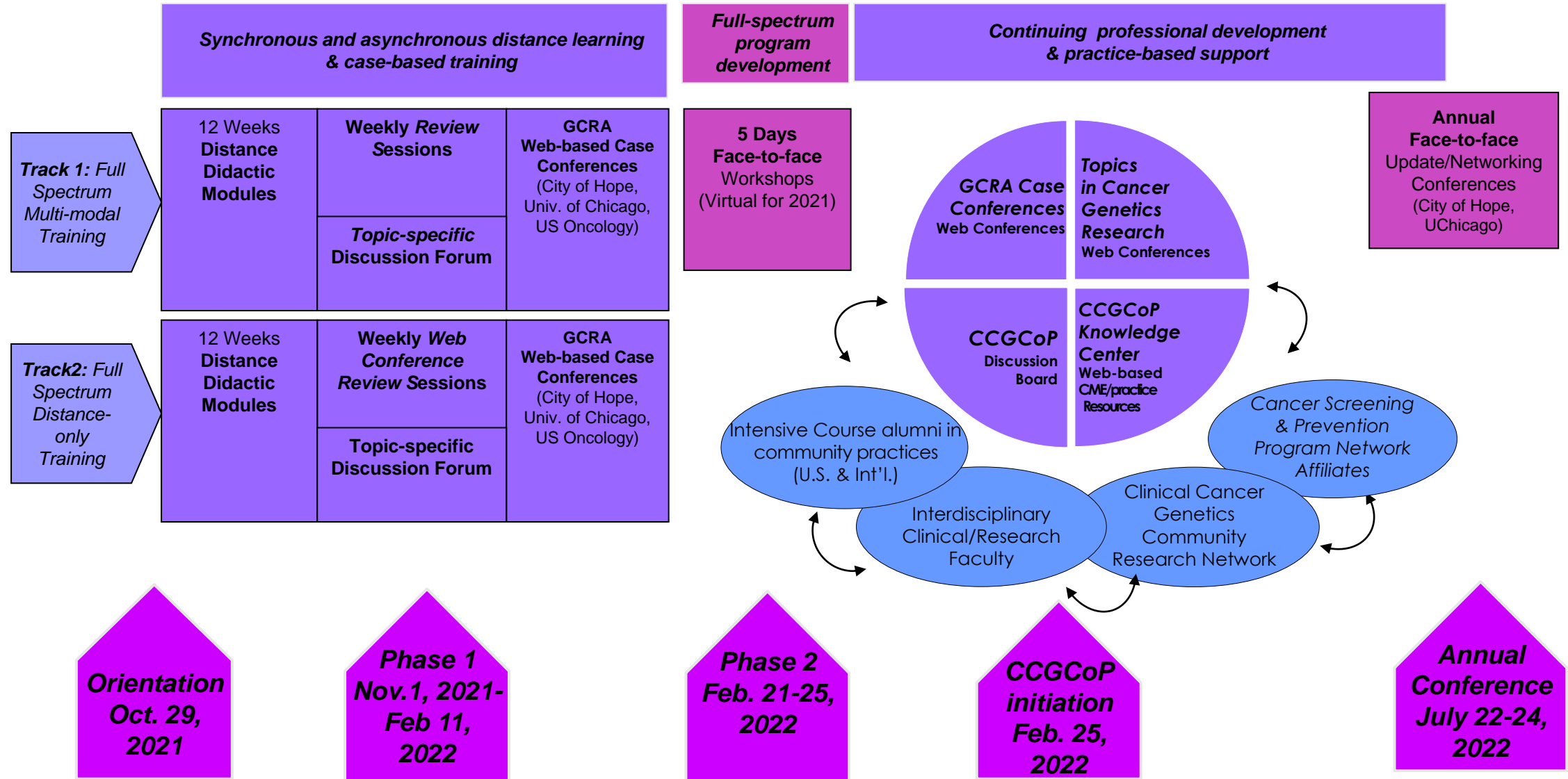
**National Comprehensive Cancer Network®**

[https://www.nccn.org/professionals/physician\\_gls/default.aspx](https://www.nccn.org/professionals/physician_gls/default.aspx)

# City of Hope

## Clinical Cancer Genetics Community of Practice (CCGCoP)

R25CA171998-09





# Welcome to the Intensive Course in Cancer Risk Assessment, 2022

# Attendance

- We track your attendance through Zoom Logs
  - Log in with Full Name
  - If you call in Only, then please email me your name and phone you used, in order for us to match you to the Log
- Friday Attendance is required and if you need to miss 1 session, please let us know
- Attendance for GCRA Case Conferences are also tracked via logs from Zoom and WebEx (for other sessions)

# Technical Issues

- If you experience technical issues when trying to log in, please email [cgep@coh.org](mailto:cgep@coh.org).
- If you experience technical issues with modules and want to send comments on the discussion board, please use the General/Technical Issues Board. This is moderated by our Admin team, and we will respond to you individually or collectively.

When submitting an email or post, make sure to provide as much detail as possible about your issue and include screenshots if relevant. We will do our best to assist you.

CLINICAL CANCER GENOMICS  
COMMUNITY OF PRACTICE



City of Hope.

How To Navigate  
The CCGCoP Portal

and

Intensive Course Pages



# Terms of Service, User conduct, and Privacy



## Community Rules & Etiquette and Privacy Guidelines

Thank you for being part of our community. To ensure the best possible experience for all members, we have established some basic guidelines for participation.

By joining and using this community, you agree that you have read and will follow these rules and guidelines. You also agree to reserve discussions and shared files and content to that best suited to the medium. This is a great medium with which to solicit the advice of your peers, benefit from their experience, and participate in an ongoing conversation. Questions should be directed to our member services department via the **Contact Us** link on this site.

Please take a moment to acquaint yourself with these important guidelines. If you have questions, contact the member services department. In order to preserve an environment that encourages both civil and fruitful dialogue, we reserve the right to suspend or terminate membership in this community for anyone who violate these rules.

### The Rules

- Respect others. Focus on the content of posts and not on the people making them. Please extend the benefit of the doubt to newer guests and members; there's no such thing as a stupid question.
- Respect the purpose of the community. Use the community to share successes, challenges, constructive feedback, questions, and goals instead of products or services that you provide. If you've found a product or service helpful, please share your experience with the group in a respectful way.
- Use caution when discussing products. Information posted on the discussion groups and in the libraries is available for all to see, and comments are subject to libel, slander, and antitrust laws.
- All defamatory, abusive, profane, threatening, offensive, or illegal materials are strictly prohibited. Do not post anything that you would not want the world to see or that you would not want anyone to know came from you.



## Learn more about the Quality Practice Certificate

Document your commitment to ongoing practice-centered learning and excellence in GCRA services at your institution.

[LEARN MORE](#)



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About Us

## Clinical Cancer Genomics Community of Practice

The Clinical Cancer Genomics (CCG) Community of Practice brings cancer genomics practitioners from diverse practice settings together for professional learning, enduring patient-centered support and dynamic community-based research collaborations to promote quality care and improved patient outcomes across the U.S. and internationally.

[LEARN MORE](#)

+ Genomic Cancer Risk Assessment Case Conferences (CCG Working Group)

+ TICGR Topics in Cancer Genomics Research

+ The Cancer Genomics Community Discussion Board (for CCGCoP [members](#))

+ Clinical Cancer Genomics Community Research Network

# Member Login Page



## CLINICAL CANCER GENOMICS COMMUNITY OF PRACTICE

CITY OF HOPE DIVISION OF CLINICAL CANCER GENOMICS

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\*Password

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**Acknowledgement of Support:** The Clinical Cancer Genomics Community of Practice (CCGCoP) is supported in part by funding from Award No. R25CA171998 from the National Cancer Institute of the National Institutes of Health.


# CCGCoP Member Home Page




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Welcome back,  
**Gloria Chavez**


 1 unread messages


**Profile Completion**  

20%

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**Get Started**


[INTENSIVE COURSE HOME](#)[ADD A PROFILE PHOTO](#)[BROWSE DISCUSSIONS](#)[POST A DISCUSSION](#)


**Featured Post**


Welcome to the Intensive Course 2022!


Welcome to the Intensive Course home page. Please view the Welcome Video to learn more about what you can do! Please note that the course modules will be locked until after ...

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Announcement: Welcome to the new CCGCoP Community




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Welcome back, Gloria Nuñez, MPH

 50 unread messages


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News & Announcements

Add

Welcome to the Intensive Course 2022!



By: [Phyllis Leung](#), an hour ago

Welcome to the Intensive Course home page. Please view the [Welcome Video](#) to learn more about what you can do! Please note that the course modules will be locked until after Orientation on October 29. Reach out to [cgep@coh.org](mailto:cgep@coh.org) if you have any questions or ... [More](#)


[IC FAQs & Tutorials](#)

Member Spotlight

Our newest member spotlight features **Beth Herrick**. Read more about her & answer her question:

*When do you envision the technology to be developed enough to intervene in those with germline mutations on the cellular level to correct or offset the mutations to eliminate the risk of cancer development?*

CONNECT



Beth Herrick

Radiation Oncologist and Director of Cancer Genetics Counseling at St. Elizabeth's Medical Center

Quick Links

Submit a Case

Submit a case to present during an upcoming GCRA Case Conference Web Session.

Quality Practice Certificate

Be recognized for continuing professional development and Best Practices in GCRA.

IC FAQs & Tutorials

Check out answers to frequently asked questions about the Intensive Course here.

Contact Us


Reach out to us for additional questions or inquiries.

CCGCoP Home Page-  
with Collapsed “Get  
Started Features”

In this view, the  
Focus is on the Main  
Tool Bar, Recent  
Discussions,  
Member Spotlight  
and QuickLinks

# General Tool Bars

The general tool bar is tailored by community and membership type




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GCRA Case Conferences


Topics in Cancer Genetics Research (TICGR)


Annual Conference

Upcoming Events




Welcome back, **Gloria Chavez**


 1 unread messages




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# CCGCOP Home Landing Page- Continued

## Upcoming Events & Meetings

[VIEW ALL EVENTS](#)

[SAVE THE DATE](#)

April 20-23, 2022

### Annual Clinical Cancer Genomics Conference

Join us for Annual City of Hope/University of Chicago Clinical Cancer Genomics Conference April 20-23, 2022. More information coming soon.

Recurring Meeting

City of Hope GCRA Case Conference Session "Working Group"

Recurring Meeting

University of Chicago GCRA Case Conference

Recurring Meeting

City of Hope GCRA Case Conference Session "Working Group"

## Recent Discussions



### BRCA1 VUS

I have a VUS in BRCA1 c.552dup (p.Asp.185\*) Invitae reports that loss of functions variants in BRCA1 are expected to be pathogenic, however, an in frame BRCA1 isoform lacking exons 8 and 9 is highly expressed in blood from unaffected individuals and ....

## Profile

Directory / Member Directory / Profile



Actions ▾

**IC Manager**

Administrative  
Program Manager

✉ 52 new  
messages

### Contact Details

1500 E. Duarte Rd.  
Duarte, CA

✉  
Fax: (626) 218-5495  
[GNunez@coh.org](mailto:GNunez@coh.org)

### Social Links

Actions ▾

in

### Survey Link

<https://redcap.coh.org/surveys/?>

## Ms. Gloria Nuñez, MPH

Administrative Program Manager

✉ 52 new messages

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My Contributions ▾

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Admin

### Bio

Gloria Nuñez, MPH, is the Administrative Program Coordinator in the City of Hope Department of Clinical Cancer Genetics. She received her Masters in Health Services Administration at San Diego State University. Ms. Nuñez then worked with Prostate Cancer Programs at UCSD and UCLA for 4 years as the Administrative Data Analyst. Ms. Nunez joined City of Hope in 2008, where she Co-Directed the Latina Patient Conferences and coordinates the annual Intensive Course in Cancer Risk Assessment courses, as well as the Annual Genomics Conferences at City of Hope. In addition, she is responsible for assuring all Clinical Studies are current, in regards to IRB reports and regulations. Finally, she collaborates with the clinical and nonclinical staff to assure the educational platforms used to productively communicate with our Global Clinical Cancer Genetics Community of Practice (CCGCoP) are seamless.

### Education

+ Add

#### San Diego State University

San Diego, California, United States

Masters in Public Health, 2000

Public Health, Health Services Administration

1998 To 2000

Dissertation: Long Term Health Care in San Diego

Advisor: Dr. Koch

#### University of California, Irvine

Irvine, California, United States

Bachelors in Arts, 1996

Spanish Literature and Public Health Minor

1991 To 1996

### Professional Associations

+ Add

Alliance for Continuing Education in the

### Job History

Provide an overview of employment experience

Add

### Honors and Awards

List past accolades and recognition

Add

Profiles are  
loaded.....





## Intensive Course Home 2022

Community Homes / Intensive Course Home 2022

COURSE INFO

COURSE PARTICIPANTS

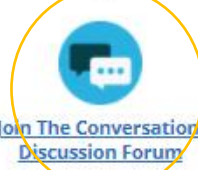
ACCREDITATION

FAQS & TUTORIALS

Welcome to the City of Hope *Intensive Course in Clinical Cancer Genomics* home page!  
You will find links to all of the resources you need for participation in the course here



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### Announcements List

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#### Welcome to the Intensive Course 2022!

By: [Phyllis Leung](#), an hour ago

Welcome to the Intensive Course home page. Please view the [Welcome Video](#) to learn more about what you can do!

Please note that the course modules will be locked until after Orientation on October 29. Reach out to [cgep@coh.org](mailto:cgep@coh.org) if you have any questions or issues.

[IC FAQs & Tutorials](#)

### Latest Discussion Posts

**Post to this Discussion** This Discussion has no recent posts. Your new post to this Discussion will display here and be sent via email to subscribed Community members.

[Post to this Discussion](#)

### Upcoming Events

#### Intensive Course Weekly Friday Web Session

Oct 29, 08:30 - 10:00 (PT)

THE INTENSIVE  
COURSE 2022  
COMMUNITY  
PAGES

## IC Track 1

Communities / Intensive Course 2022 / IC Track 1

[INTENSIVE COURSE HOME](#)
[TRACK 1 PARTICIPANTS](#)
[TRACK 2 PARTICIPANTS](#)

### Intensive Course 2022 - Track 1 Course Participants



**Jeffery Noel Abando, RN, BSN**

A passionate, innovative, solution-focused oncology generalist RN, in the summer of 2020, Mr. Abando's started his role as a Phase I Trials Infusion nurse, which incorporates an exceptional blend of empathy, creativity, and clinical experience. As part of the research team, Mr. Abando is aware that the diffusion of genetics and genomics into cancer care hinges on the ability of oncology healthcare providers, including nurses, to incorporate this information and technology into practice. In 2018, Mr. Abando received his Bachelors in Science of Nursing degree, from Stevenson University just outside of Baltimore, MD, while practicing as a full time traveling Oncology Infusion RN in a busy 24-bed Hematology-Oncology unit in Billings, Montana. He is a current member of the Oncology Nursing Society, the national professional association of more than 35,000 members committed to promoting excellence in oncology nursing and the transformation of cancer care.



**Viviane Alencar, MD**

Viviane Alencar is a clinical oncologist at Centro de Oncologia Especializada, in São José dos Campos/Brazil. She has finished her residency program at A.C Camargo Cancer Center in 2021. During that time, she participated in research activities focused on lung cancer treatment and heredity. She published a review on inherited lung cancer and, more recently, a meta-analysis on the use of immunotherapy for patients with previously untreated non-small cell lung cancer brain metastases. The meta-analysis was published in the Journal of Thoracic Oncology (JTO), reference in the area. She is an Estudiar Foundation fellow (2013) and a Lemann Foundation Health fellow (2020) - competitive scholarships that yearly select young talents with the purpose of helping change Brazil. She is also a member of the American Society of Clinical Oncology and the Brazilian Society of Clinical Oncology.



**Carol Antequera, DMSc, PA-C**

Carol has been a Physician Assistant in the division of Gastroenterology at The University of Miami for nine years. During this time, she has played an integral role in the development of our APP practice. She is faculty of the Gastroenterology and Hepatology Advance Practice Providers (GHAPP) where she is also co-chair of the engagement committee. At The University of Miami, she is a member of the executive committee for Global APP orientation and assist with the onboarding of new APPs. This year she earned a Doctor of Medical Science degree from the University of Lynchburg. She is a member of the Florida Association of Physician Assistants (FAPA) and participates in their leadership academy. She is also a member of the American Society of Human Genetics. She works closely with Dr. Daniel Sussman colorectal cancer expert in the multidisciplinary cancer clinic at the University of Miami.



**Rachel Baer, MD**

## IC Track 2

Communities / Intensive Course 2022 / IC Track 2

[INTENSIVE COURSE HOME](#)
[TRACK 1 PARTICIPANTS](#)
[TRACK 2 PARTICIPANTS](#)

### Intensive Course 2022 - Track 2 Course Participants



**Jenna Addison, DNP**

Jenna A. Addison is a breast specialist DNP at the Yale New Haven Health breast center and a certified breast care nurse. Since joining the breast center in 2016, Jenna has specialized in assessing and treating patients with benign breast disease and managing surgical oncology patients. Jenna also has a special interest in high risk populations and cancer survivorship, and has taken an active role in building a long term survivorship clinic for breast cancer patients. She has initiated quality improvement measures in coordinating post mastectomy education between ambulatory and inpatient units in addition to assessing effectiveness of lymphedema surveillance methods. Jenna is a member of the Connecticut APRN Society.



**Aimee Allen, AOCNP**

Aimee Allen, AOCNP, specializes in hematology and oncology at Ochsner Health Center in Lake Charles, La. She has been caring for cancer patients for 10 years and provides patient and family support, as well as, education and survivorship throughout the cancer care continuum. In addition to working in collaboration with oncologist to provide care for patients undergoing active treatment and for patients who have complete treatment, Aimee also provides cancer prevention education and screening. She is a member of the Advance Society of Clinic Oncology and the Advanced Practitioner Society of Hematology and Oncology.



**Santhosh Ambika, MD**

Santhosh Ambika, MD, currently works as an oncologist in Reno, NV. He is a community oncologist and also carries the role of clinical assistant professor at University of Nevada School of Medicine in Reno. Dr. Ambika is involved in teaching UNR medical students along with being an investigator in multiple clinical trials including intergroup trials. He is a member of ASCO, ASH, Nevada Oncology Society, and Community Oncology Association.



**Maria Amoreli, MD**

Dr. Maria Amorelli is a Hematologist with 14 years of experience in Hematological cancers, treating leukemias, lymphomas, Multiple Myelomas and Myelodysplasia. She began studying genetics four years ago and found answers to long last questions and

# Getting to know your fellow participants

## Course Description

Communities / Intensive Course 2022 / Course Description

[INTENSIVE COURSE HOME](#)[COURSE SYLLABUS](#)[EVENT CALENDAR](#)

*Division of Clinical Cancer Genomics and Clinical Cancer Genetics Community of Practice (CCGCoP)*

## Intensive Course 2022

### General Course Description

City of Hope *Intensive Course* and *Clinical Cancer Genetics Community of Practice (CCGCoP)* is a multifaceted program of genetic cancer risk assessment (GCRA) training and practice support. Distance delivery of a modular curriculum (*Phase 1*) responds to the practical time constraints of working clinicians and allows for flexible, self-directed study. Distance-learning modules are delivered over fourteen weeks, with discussion board (asynchronous) and weekly Web conference (synchronous) interactions with co-participants and course faculty to discuss evidence-based updates and address questions. Concurrent participation in Working Group Web case conferences during distance learning reinforces didactic learning and promotes GCRA skills development. *Phase 2* (Track 1 only) consists of four days of interdisciplinary team-based training and program development at the City of Hope campus in Duarte, California. Upon completion of training, all participants engage in on-going self-directed professional development activities as members of the CCGCoP to support the integration of newly-acquired knowledge and skills into practice.

This project is supported in part by funding from the National Cancer Institute of the National Institutes of Health under award numbers R25 CA112486 and R25 CA171998.

### Learning Objectives

At the conclusion of the course, the participants should be able to:

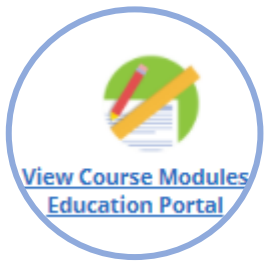
- **Integrate** cancer genetics and oncology knowledge relevant to GCRA into clinical practice
- **Apply** skills commensurate with practitioner-level proficiency into GCRA practice
- **Recommend** risk-appropriate options for cancer surveillance and prevention
- **Incorporate** understanding of the medical, legal, and psychosocial ramifications of cancer risk counseling and testing into clinical practice and research collaboration
- **Learn about** clinical research methodologies in cancer genetic epidemiology and cancer prevention trials for high-risk cohorts
- **Recognize** the roles and practical issues related to Human Subjects Protection, Informed Consent, Institutional Review Board and HIPAA in clinical research
- **Provide** resources and information on hereditary cancer registries, cancer epidemiology and cancer prevention studies to patients and professional colleagues
- **Utilize** research training and support to participate in collaborative research activities
- **Realize** greater professional self-efficacy related to cancer risk counseling and research participation skills
- **Develop** a sense of connectedness and belonging to the CCGCoP learning community
- **Improve** GCRA practice proficiencies through post-training engagement in the CCGCoP

### Course Requirements

Remote learning will take place over the course of 12-weeks from November to February with a break for Thanksgiving and the Winter Holidays. Each week a different GCRA topic will be covered. Participants must complete all components of the course to receive CME certification.

Course Syllabus and  
Calendar can be  
downloaded





[View Course Modules Education Portal](#)



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[GCRA Case Conference Recordings](#)

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CITY OF HOPE DIVISION OF CLINICAL CANCER GENOMICS

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Courses



Event Calendar



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Phyllis Leung ▾

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## Latest TICGR/TOPICS Sessions

2021 - July 30 -  
Gorlin/nevoid basal cell carcinoma syndrome:  
Genetic testing in a woman with clinical disease



Courses & Self Paced Learning



Topics In Cancer Genomics Research (TICGR)



Cancer Gene Summaries



GCRA Resources



Quality Practice Certificate



Annual Conferences



# Courses in Education Portal



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Courses



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## Courses



IC 2021

VIEW



IC 2022

VIEW



COH/KGI Genomics  
Course

VIEW



Self Directed

VIEW

[Latest TICGR/TOPICS Sessions](#)

# Intensive Course 2022 Session

[BACK TO INTENSIVE COURSE HOME](#)

Please note that the Course Modules will be locked until after Orientation on October 29, 2021.

## IC 2022 Weekly Distance Learning Modules

[GCRA CASE CONFERENCE FEEDBACK FORMS](#)

Search Items

Search Agenda Items

×


- ▶ **Week 1: Fundamentals of Genetics** Nov 1-5, 2021
- ▶ **Week 2: Essential Components of the GCRA Practice** Nov 8-12, 2021
- ▶ **Week 3: Genetic/Genomic Testing** Nov 15-19, 2021
- ▶ **Week 4: Hereditary Breast and Ovarian Cancer Syndromes, Part 1** Nov 29-Dec 2, 2021
- ▶ **Week 5: Hereditary Breast and Ovarian Cancer Syndromes, Part 2** Dec 6-10, 2021
- ▶ **Week 6: Hereditary Gastrointestinal Syndromes, Part 1** Dec 13-17, 2021
- ▶ **Week 7: Hereditary Gastrointestinal Syndromes, Part 2** Jan 3-7, 2022
- ▶ **Week 8: Pediatric, Hematologic, and Genodermatosis Syndromes** Jan 10-14, 2022
- ▶ **Week 9: Hereditary Endocrine and Genitourinary Cancer Syndromes** Jan 17-21, 2022

▶ **Week 10: Family/Genetic Testing, Understanding and Interpreting Genetic Results** Jan 24-28, 2022

# Intensive Course 2022 Session

▼ Week 1: Fundamentals of Genetics

Nov 1-5, 2021

 [VIEW CONTENT](#)

**Module Objectives**

## Basic Genetics Primer, Part 1

**Objectives**

- Define the basic principles of gene structure, function, and regulation
- Appreciate the nature and consequences of major types of gene mutations

## Basic Genetics Primer, Part 2

**Objectives**

- Outline the principles of Mendelian inheritance
- Identify the features of incomplete penetrance and variable expressivity
- Recognize how genetic mechanisms such as de novo mutations, mosaicism and imprinting can affect the pattern of cancer in a family

## The Basic Science of Cancer Genetics

**Objectives**

- Distinguish the differences between somatic and germline mutations
- Describe the roles of oncogenes and tumor suppressor genes in signal transduction and cell cycle control
- Review the mechanisms of DNA damage

# Module Objectives

[← Back to IC Modules](#)

Week 1 2022

[MANAGE PRODUCT](#)

✓ You are registered!

Module Objectives

[Speaker\(s\)](#)

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## Basic Genetics Primer, Part 1

### Objectives

- Define the basic principles of gene structure, function, and regulation
- Appreciate the nature and consequences of major types of gene mutations

## Basic Genetics Primer, Part 2

### Objectives

- Outline the principles of Mendelian inheritance
- Identify the features of incomplete penetrance and variable expressivity
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## The Basic Science of Cancer Genetics

### Objectives

- Distinguish the differences between somatic and germline mutations
- Describe the roles of oncogenes and tumor suppressor genes in signal transduction and cell cycle control
- Review the mechanisms of DNA damage

Quiz and weekly evaluation are located under Modules/Evals Tab

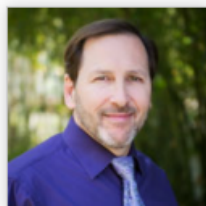


**Lauren Gima, MS, LCGC***Genetic Counselor**City of Hope*

Lauren Gima, MS, CGC is a board-certified, licensed genetic counselor at City of Hope in Duarte, CA where she specializes in clinical cancer genomics. She earned her MS degree in Genetic Counseling from Northwestern University and BS degree in Human Biology from University of California San Diego. Her primary clinical responsibilities include providing cancer genetic counseling services for City of Hope's patient population. She is a clinical rotation supervisor for students of the Keck Graduate Institute (KGI) Genetic Counseling program, the University of California Irvine Genetic Counseling program, and the University of California Los Angeles Genetic Counseling program. She also serves as a community mentor for the KGI Genetic Counseling program, providing ongoing support and guidance for new genetic counseling students. Lauren is a member of the National Society of Genetic Counselors, the Collaborative Group of the Americas on Inherited Gastrointestinal Cancers, the Southern California Genetic Counselors, and the Minority Genetics Professionals Network.

**Susan Shehayeb, MS, CGC***Genetic Counselor**City of Hope*

Susan Shehayeb, MS, CGC, is a licensed board-certified genetic counselor specializing in cancer genetics. She has a Master's of Science degree in genetic counseling from University of California Irvine. Previous to completing her master's degree, Ms. Shehayeb earned her bachelor's degree in molecular, cell and developmental biology from University of California Los Angeles. Ms. Shehayeb joined the City of Hope Division of Clinical Cancer Genomics in 2017, having previously undergone clinical training at City of Hope. She is fluent in Arabic and is in the process of achieving fluency in Spanish. She has participated in the training of genetic counseling students from multiple programs, including assuming the role of rotation supervisor. Ms. Shehayeb's clinical role has centered on widening patient access to genetic counseling and testing throughout the City of Hope network as the lead genetic counselor for the City of Hope | South Pasadena site. Her past research investigated lifestyle choices in the context of genetic counseling and genetic testing for cancer risk. She is a member of the National Society of Genetic Counselors and the Southern California Genetic Counselors.

**Jeffrey Weitzel, MD***Professor of Oncology and Population Sciences*

Jeffrey N. Weitzel, MD, is board Certified in Medical Oncology and Clinical Genetics, and founded the Clinical Cancer Genomics Community Research Network. He co-founded the Clinical Cancer Genomics Community of Practice with Dr. Blazer. A Breast Cancer Research Foundation Scholar and an honorary Professor of Oncology for the Latin American School of Oncology, he is also the ASCO Conquer Cancer Research Professor in Breast Cancer Disparities. At the vanguard of precision prevention, Dr. Weitzel's multidisciplinary clinical, research, and training experience emphasize translational research in cancer disparities, genomic cancer risk assessment, chemoprevention, targeted therapy, clinical and psychosocial outcomes, genetic epidemiology and health services research, with a focus on underserved populations. Dr. Weitzel received the American Society of Human Genetics

# Faculty Profiles

[← Back to IC Modules](#)

Week 1 2022

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✓ You are registered!

[Module Objectives](#)

[Speaker\(s\)](#)

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▶ **Basic Genetics Primer, Part 1**

Open to view video.

Define the basic principles of gene structure, function and regulation Learn the principles of Mendelian inheritance Recognize the features of penetrance, variable expressivity, sex-limited expression Appreciate the nature and consequences of major types of genetic mutations

[VIEW VIDEO](#)

[MARK AS COMPLETED](#)

★ **Basic Genetics Primer, Part 2**

Open to view video.

★ **The Basic Science of Cancer Genetics**

Open to view video.

🔒 **Quiz Week 1**

9 Questions | Unlimited attempts | 0/22 points to pass

★ **Week 1 Distance Learning Evaluation**

8 Questions

# Week 1 2022

✓ You are registered!

Registered: 08/31/2021

First Accessed: 10/18/2021



20%

1/5 total components  
0/2 required components

[Module Objectives](#)[Speaker\(s\)](#)[Modules / Evals](#)[Slide Handouts](#)[Supplemental](#)[Discussion](#)

## Basic Genetics Primer, Part 1

Select the "VIEW VIDEO" button to begin.



## Basic Genetics Primer, Part 2

Select the "VIEW VIDEO" button to begin.



## The Basic Science of Cancer Genetics

Open to view video.



## Quiz Week 1

9 Questions | Unlimited attempts | 0/22 points to pass



## Week 1 Distance Learning Evaluation

8 Questions

Please respond to the statements in this evaluation as they relate to your experiences with this week's Distance Learning Modules and Friday Web Conference Review session. This survey will take less than 3 minutes to complete. This survey should be completed AFTER you have viewed the week's modules and attended the Friday web session.

[FILL OUT SURVEY](#)[MARK AS COMPLETED](#)

# Week 1 2022

**Registered:** 08/31/2021

**First Accessed:** 10/18/2021



20%

1/5 total components  
0/2 required components



## Week 1 2022

✓ You are registered!

Slides and  
Supplemental  
Materials

Module Objectives

Speaker(s)

Modules / Evals

Slide Handouts

Supplemental

Discussion

Basics of Genetic Primer, Part 1

Week 01: Shehayeb, Basics of Genetic Primer Part 2

The Basic Science of Cancer Genetics

## Week 1 2022

✓ You are registered!

Module Objectives

Speaker(s)

Modules / Evals

Slide Handouts

Supplemental

Discussion

### Supplemental Materials for Science of Cancer Genetics

1. Couch FJ, et al. Genome-Wide Association Study in BRCA1 Mutation Carriers Identifies Novel Loci Associated with Breast and Ovarian Cancer Risk. *PLOS Genetics*. 2013;9(3):e1003212.
2. Domchek SM, Bradbury A, Garber JE, Offit K, Robson ME. Multiplex genetic testing for cancer susceptibility: out on the high wire without a net? *J. Clin. Oncol*. 2013;31(10):1267-1270.
3. MacConaill LE. Existing and Emerging Technologies for Tumor Genomic Profiling. *J. Clin. Oncol*. 2013;31(15):1815-1824.
4. Weischer M, Nordestgaard BG, Pharoah P, et al. CHEK2\*1100delC Heterozygosity in Women With Breast Cancer Associated With Early Death, Breast Cancer-Specific Death, and Increased Risk of a Second Breast Cancer. *J. Clin. Oncol*. 2012;30(35):4308-4316.
5. Berg JS, Khoury MJ, Evans JP. Deploying whole genome sequencing in clinical practice and public health: meeting the challenge one bin at a time. *Genet Med*. 2011;13(6):499-504.
6. Manolio, T. A. (2010). Genomewide Association Studies and Assessment of the Risk of Disease. *N Engl J Med*, 363(2), 166-176.

# Discussion Board Links

[← Back to IC Modules](#)

## Week 1 2022

✓ You are registered!

[Module Objectives](#)

[Speaker\(s\)](#)

[Modules / Evals](#)

[Slide Handouts](#)

[Supplemental](#)

[Discussion](#)

### **WEEK 01: FUNDAMENTALS OF GENETICS**

Join the conversation click here: [WEEK 01: FUNDAMENTALS OF GENETICS](#)

# IC Discussion Board

[COURSE INFO](#)[COURSE PARTICIPANTS](#)[ACCREDITATION](#)[FAQS & TUTORIALS](#)

Welcome to the City of Hope *Intensive Course in Cancer Risk Assessment* home page!  
You will find links to all of the resources you need for participation in the course here



[View Course Modules  
Education Portal](#)



[Join The Conversation:  
Discussion Forum](#)



[GCRA Case Conference  
Recordings](#)

## Announcements List

[Add](#)

### Welcome to the Intensive Course 2022!

By: [Phyllis Leung](#), 14 days ago

Welcome to the Intensive Course home page. Please view the [Welcome Video](#) to learn more about what you can do!

Please note that the discussion forum and course modules will be locked until after Orientation on October 29. Reach out to [cgep@coh.org](mailto:cgep@coh.org) if you have any questions or issues.

[IC FAQs & Tutorials](#)



## Latest Discussion Posts

**Post to this Discussion** This Discussion has no recent posts. Your new post to this Discussion will display here and be sent via email to subscribed Community members.

[Post to this Discussion](#)

## Upcoming Events

**Intensive Course Weekly Friday Web Session** 🇺🇸

Oct 29, 08:30 - 10:00 (PT)

# IC Discussion Board

[INTENSIVE COURSE HOME](#)[GENERAL ISSUES FORUM](#)[Create a New Community](#)

13 total

All Communities

Alphabetical

20 per page

## General IC Announcements & Issues Forum

[admin](#) last person joined 3 days ago

Discussions 0

Libraries 0

Members 212

## Week 01: Fundamentals of Genetics

[admin](#) last person joined 3 days ago

Discussions 3

Libraries 0

Members 220

## Week 02: Essential Components of the GCRA Process

[admin](#) last person joined 3 days ago

Discussions 0

Libraries 0

Members 215

## Week 03: Genetic/Genomic Testing

[admin](#) last person joined 3 days ago

Discussions 0

Libraries 0

Members 221

## Week 04: Hereditary Breast and Ovarian Cancer Syndromes Part 1

[admin](#) last person joined 3 days ago

Discussions 0

Libraries 0

Members 220

## Week 05: Hereditary Breast and Ovarian Cancer Syndromes Part 2

[admin](#) last person joined 3 days ago


Discussions 0

Libraries 0

Members 220



# Discussion Board



Welcome back,  
**Gloria Nuñez, MPH**

50 unread messages

Profile Completion

97%

My Inbox My Contributions  
My Contacts My Settings


ADD A PROFILE PHOTO  
BROWSE DISCUSSIONS  
HELP YOUR COLLEAGUES  
**POST A DISCUSSION**  
CONNECT WITH MEMBERS

COLLAPSE

Education Portal Event Calendar My Communities Member Directory

Locating the CCGCoP Discussion Board  
Couldn't be easier!

## Recent Discussions



**RE: High risk family, negative test result ...**

Dear Julie, This is certainly a challenging case. Discerning when to apply a "syndromic" label is to some extent a moving target, that we applied more often when there were such limitations in genetic testing. The osteosarcoma is a "core ...

By: [Jeffrey Weitzel](#), 7 hours ago  
Posted in: [CCGCoP](#)

## Member Spot

Our newest member s  
Yanin Chavarri Guerra  
her!

**CONNECT**

## Discussion Posts

Browse / Discussion Posts

Most Recently Updated Posts in my communities 50 per page **Post New Message**

Thread Subject	Replies	Last Post	Community Name
<a href="#">High risk family, negative test result ...</a>	1	<a href="#">7 hours ago</a> by <a href="#">Jeffrey Weitzel</a> Original post by <a href="#">Julie Dutil</a>	CCGCoP
<a href="#">ANNOUNCEMENT: Working Group Cancelled for 10/28/2020</a>	0	<a href="#">11 hours ago</a> by <a href="#">Randy Lee</a>	CCGCoP
<a href="#">JOIN US FOR THE CCGCOP PORTAL RELAUNCH INFO SESSION!</a>	2	<a href="#">12 hours ago</a> by <a href="#">Phyllis Leung</a>	CCGCoP
<a href="#">PALB2 research Study</a>	3	<a href="#">yesterday</a> by <a href="#">Kathleen Mott</a> Original post by <a href="#">Raenell Povner</a>	CCGCoP

# IC2022

Communities / IC2022

INTENSIVE COURSE HOME

GENERAL ISSUES FORUM

13 total

All Communities

Alphabetical

20 per page

## General IC Announcements & Issues Forum

admin last person joined 26 days ago

Discussions 0

Libraries 0

Members 4

## Week 01: Fundamentals of Genetics

admin last person joined 26 days ago

Discussions 3

Libraries 0

Members 16

## Week 02: Essential Components of the GCRA Process

admin last person joined one month ago

Discussions 0

Libraries 0

Members 7

## Week 03: Genetic/Genomic Testing

admin last person joined 26 days ago

Discussions 0

Libraries 0

Members 18

## Week 04: Hereditary Breast and Ovarian Cancer Syndromes Part 1

admin last person joined 26 days ago

Discussions 0

Libraries 0

Members 17

## Week 05: Hereditary Breast and Ovarian Cancer Syndromes Part 2

Each week has it's own forum- where you can post question on the modules assigned that week

# Lets' talk about Good Subject Lines and tags



 Community Navigator

Create a New Community

1 total

All Community Types



All Communities



Alphabetical



20 per page

Week 01: Fundamentals of Genetics

admin

last person joined yesterday

Discussions 0

Libraries 0

Members 31

## POST A MESSAGE

Last auto saved at: 11/01/2019 00:00

### ▼ Signature

 EDIT YOUR DEFAULT SIGNATURE

Gloria Nuñez, MPH  
Administrative Program Manager  
Duarte CA

Attachment(s)

 ATTACH

SEND

SCHEDULE

SAVE AS DRAFT

DELETE DRAFT

CANCEL

Suggested Tags

#Announcements

#Practice Development

#GCRA Case Conference Questions

#Breast Cancer

#Ovarian Cancer

#ELSI- Ethical, Legal, Social Issues

#Endocrine Neoplasias



# Subscription options

## COMMUNITY JOIN AND NOTIFICATIONS

### JOIN MODULE: BASICS GENETICS PRIMER, PART 2, CHRISTINA RYBAK

Email Address:

GNunez@coh.org

Please choose how you would like to receive messages for this Discussion:

☐ Real Time - One email for each message

☒ Daily Digest - One email containing all posted messages from the previous day

☐ I would like to opt-out of receiving email messages

SAVE

CANCEL



- We added flexibility, but recommend you stay as connected as possible.

# Presentations Tab

- Module Recordings
- Quizzes
- Weekly Evaluations
- GCRA Case Conference Evaluations

Welcome

Getting Started

FAQs

News

Podcasts

ARE YOU LOOKING FOR?

2020- June 26th - "Fertility preservation in BRCA1/2 mutation carriers: safety, efficacy, and special considerations"

2020- May 29th - "Gene Review - BAP1"

2020- May 8th - "Optimizing germline and somatic integration in cancer management"

Week 2

Manage Product

✓ You are registered!

Module Objectives

Speaker(s)

Presentations (9)

Slide Handouts

Supplement

Discussion

➔

🎥 The Fundamentals of GCRA

Open to view video.

Describe fundamentals of the genetic cancer risk assessment (GCRA) process Take a comprehensive cancer family history Draw the family history in the form of a pedigree Explain the importance of and strategies for confirming key cancers Identify sporadic, familial, and hereditary cancer patterns

View Video

Mark as Completed

★

📅 Documenting the Cancer Family History and the Fundamentals of GCRA

Select the "View On-Demand Recording" button to begin.

★

🎥 Pedigree Drawing Fundamentals Supplement

Open to view video.

★

🎥 Reading the Pathology Report Through a Genomics Lens

Open to view video.

★

🔔 Quiz Week 2

4 Questions | 1 attempt | 0/4 points to pass

★

🔔 Week 2 Distance Learning Evaluation

8 Questions

★

🔔 GCRA Case Conference Feedback Form

7 Questions



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[GCRA Case Conference  
Recordings](#)

# GCRA Case Conference Recordings from COH



## INTENSIVE COURSE HOME

**GCRA Case Conference Recordings for City of Hope:**  
Recordings will be made available here for a limited time

**RECORDING HERE**

Due to HIPPA, please do not attempt to download or save these recordings. Thank you.

### GCRA Case Conferences Requirements

Case conferencing is a long-standing tradition that facilitates the integration of evidence into patient care. Engagement in Web-based GCRA case conferencing has been demonstrated to help CCGCoP course participants identify individual learning needs and successfully integrate new GCRA knowledge and skills into practice. Participants are introduced to case conferencing at the outset of GCRA distance learning.

The primary purpose of GCRA case conferencing is to address challenges and decisions directly related to patient care. Case content and discussion can vary significantly from session to session. The pace of discussion is often fast, and terminology, tools and resources used are not always explained or defined.

**IMPORTANT:** If you have limited clinical GCRA experience you may initially find the environment challenging. Engagement and learning will become more comfortable over time, as you develop a better understanding of the language, problem-solving processes and resources employed during sessions.

#### ALL COURSE PARTICIPANTS ARE REQUIRED TO:

- Attend a **MINIMUM of five (5) GCRA Case Conference** sessions during the 12 weeks of distance learning (via live Web conferencing or viewing recording).
  - Dates/times and links to Live Web conferences sessions can be found in the Event Calendar: <https://www.ccgcop.org/events/calendar>
  - Attendance requirements can be fulfilled through participation in City of Hope (COH), University of Chicago (UChicago) and/or U.S. Oncology Network (USON) Web-based case conference sessions.
    - University of Chicago – Tuesdays, 6:30-7:30am PST
    - U.S. Oncology Network – 3<sup>rd</sup> Tuesday of the month, 10:00-11:00am PST
    - City of Hope – Wednesdays, 10:00-11:30am PST
- SUBMIT five (5) corresponding Case Conference Feedback Forms** these can be found in the Education Portal on the Course page: <https://education.ccgcop.org/p/gcra-form-22>
- GCRA Case Assignment:** Submit at least one case from their practice during the course. Instructions for this assignment will be provided.

**Find Live GCRA Case Conferencing schedule and Zoom links:**

**EVENT CALENDAR**


**Reminder:** You are required to attend or view 5 GCRA Case Conference Sessions. For each session, you must complete a Case Conference Feedback form.

**FEEDBACK FORM**



# Course calendar

Located under Course Requirements



CLINICAL CANCER GENOMICS  
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CITY OF HOPE DIVISION OF CLINICAL CANCER GENOMICS

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GCRA Case Conferences


Topics in Cancer Genetics Research (TICGR)

Annual Conference


Upcoming Events




Education Portal



Event Calendar



My Communities



Member Directory



A close-up, blue-tinted photograph of a microscope's objective lenses and eyepiece, serving as a background for the header.

# Upcoming Events

Events / Upcoming Events

# City of Hope GCRA Case Conference Session "Working Group"

Events / Event Description

## Calendar

« ‹ › » today

month week day list

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1	2
3	4	5	6	7	8	9
			10:00 AM City of Hope G			
10	11	12	13	14	15	16
		6:30 AM University of Ch	10:00 AM City of Hope G			
17	18	19	20	21	22	23
		6:30 AM University of Ch	10:00 AM City of Hope G			
24	25	26	27	28	29	30
		6:30 AM University of Ch	10:00 AM City of Hope G		8:30 AM Intensive Course	
31	1	2	3	4	5	6
	12:05 AM IC 2022 - Week 1: Fundamentals of Genetics					
		6:30 AM University of Ch	10:00 AM City of Hope G		8:30 AM Intensive Course	

Password: FjieK364

[Download to Your Calendar](#)

# Topics in Cancer Genomics Research



CLINICAL CANCER GENOMICS  
COMMUNITY OF PRACTICE

CITY OF HOPE DIVISION OF CLINICAL CANCER GENOMICS

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Phyllis Leung ▾

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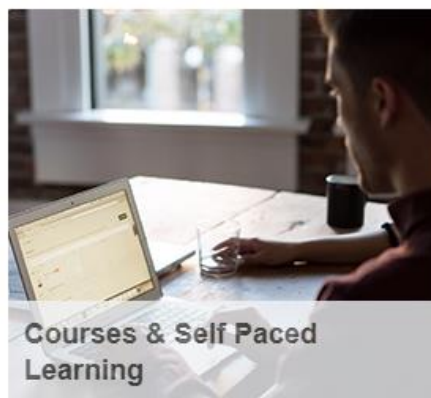
[FAQs](#)

[Glossary](#)

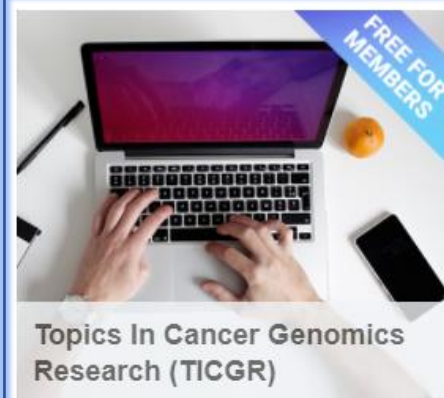
[Cart \(0 items\)](#)

## Latest TICGR/TOPICS Sessions

2021 - July 30 -  
Gorlin/nevoid basal cell  
carcinoma syndrome:  
Genetic testing in a woman  
with clinical disease



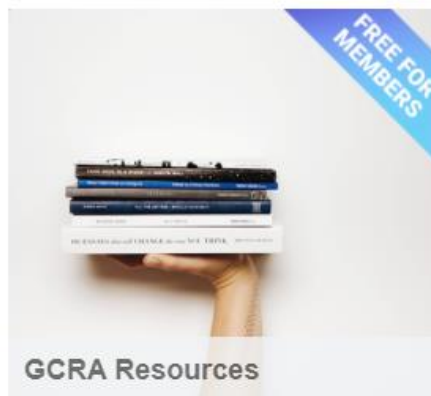
Courses & Self Paced  
Learning



Topics In Cancer Genomics  
Research (TICGR)



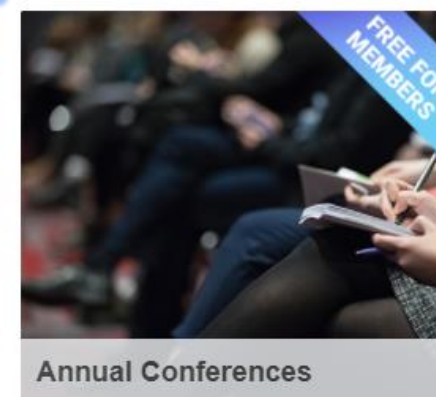
Cancer Gene Summaries



GCRA Resources



Quality Practice Certificate



Annual Conferences



## Welcome

Phyllis Leung ▾

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### Latest TICGR/TOPICS Sessions

2021 - July 30 -  
Gorlin/nevoid basal cell carcinoma syndrome: Genetic testing in a woman with clinical disease

2021 - June 25 - A Nurse Practitioner Led Hereditary Cancer Genetic Risk Assessment, Testing, and Counseling Program Implementation in a Rural Setting

2021 - June 4 - Community Oncology Genetics Services: US Oncology GREAT Program Overview

2021 - May 28 - When Primary Care is Not that Primary: The Complex Role of the Gynecologist in Women's Cancer Prevention and Survivorship

## All TOPICS Webinars

SEARCH THIS LIST

2021 - July 30 - Gorlin/nevoid basal cell carcinoma syndrome: Genetic testing in a woman with clinical disease

2021 - June 25 - A Nurse Practitioner Led Hereditary Cancer Genetic Risk Assessment, Testing, and Counseling Program Implementation in a Rural Setting

2021 - June 4 - Community Oncology Genetics Services: US Oncology GREAT Program Overview

2021 - May 28 - When Primary Care is Not that Primary: The Complex Role of the Gynecologist in Women's Cancer Prevention and Survivorship

2021 - May 7 - Case Presentation: Fanconi Anemia

< 1 2 3 4 5 6 7 8 ... 12 13 >

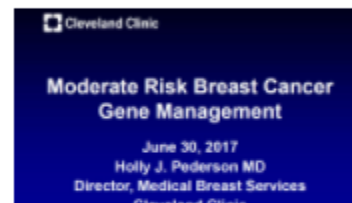
## Popular TOPICS Webinars



2019 - May 24th - "Breast Cancer Risk Prediction Models: Which One is Best?"  
Breast cancer prediction models



2019 - June 21st - "Implementation of a Cancer Risk Assessment Program"  
Barbara Young discusses her experience in creating a cancer Risk assessment program in St.



2017 - June 30th - "Moderate Risk Breast Cancer Gene Management"  
Moderate Risk Breast Cancer Gene Management







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Courses



Event Calendar



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Phyllis Leung ▾

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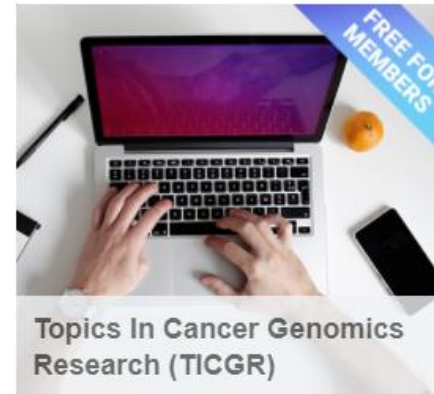
[Cart \(0 items\)](#)

## Latest TICGR/TOPICS Sessions

2021 - July 30 -  
Gorlin/nevoid basal cell  
carcinoma syndrome:  
Genetic testing in a woman  
with clinical disease



Courses & Self Paced  
Learning



Topics In Cancer Genomics  
Research (TICGR)



Cancer Gene Summaries



GCRA Resources



Quality Practice Certificate



Annual Conferences

- GCRA Resources is currently under revision



## GCRA RESOURCES

For Clinicians

For Patients

## Resources for Clinicians

### Genetics and Oncology Societies

- [American Society of Human Genetics](#)
- [American Society of Clinical Oncology](#)
- [National Society of Genetic Counselors](#)
- [International Society of Nurses in Genetics](#)
- [Collaborative Group of the Americas on Inherited Colorectal Cancer](#)
- [American College of Medical Genetics](#)

### General oncology, genetics and cancer genetics resources

- [OMIM](#) : *Online Mendelian Inheritance in Man*
- [Gene Tests](#): *directory of genetic testing laboratories and genetic clinics*
- [GeneReviews™](#) (*catalogue of genetic syndromes and features*)
- [National Coalition for Health Professional Education in Genetics](#): *Core Competencies in Genetics, family history taking, gene facts*
- [National Human Genome Research Institute](#) education and resources
- [Essentials of Genetics](#): *Genetics/genomics resources*
- [University of Kansas Medical Center](#) Genetic education center
- [Lynch Syndrome Screening Network](#)
- [NORD](#) (National Society for Rare Disorders)

# Stay connected

## Member Directory

Directory / Member Directory

Basic Search

Advanced Search

Find Anyone (Admin only)

First Name

Last Name

Company Name

Email Address

Find Members

Clear All

# Directory- Opt-in

- Upon graduation, we will shift your membership to the CCGoP Membership.
- One of the items we will ask you, is if you want to be part of the CCGCoP Directory that will be accessible by everyone, including guest
  - Benefits, include being accessible to various groups around the country that are looking for graduates in Cancer Risk Assessment



## People

About Us / People

► CCG Faculty, Guest Faculty, and  
CCG Research & Education Team

### CCG Faculty

GUEST FACULTY

CCG RESEARCH & EDUCATION TEAM



**Kathleen R. Blazer, EdD, MS, CGC**

**Assistant Professor, Director of Cancer Genomics Education Program**

Kathleen R. Blazer is a Clinical Assistant Professor in the Department of Population Sciences, Director of the Cancer Genomics Education Program (CGEP), and a bilingual licensed, board-certified cancer risk genetic counselor with the Division of Clinical Cancer Genetics at City of Hope. Dr. Blazer has worked with Co-Principal Investigator Dr. Jeffery Weitzel in the development, administration and assessment of the National Cancer Institute-funded initiatives of the CGEP (a multifaceted cancer genetics education and training program for physicians, allied health care professionals and post-doctoral researchers) since joining the division in 1998. She has first-authored a number of peer-reviewed publications reporting the development and outcomes of the professional education and

training research activities conducted by the CGEP. Her doctorate in education research worked within the setting of the CGEP to examine the effectiveness of distance-mediated approaches to cancer genetics training. The outcomes and theoretical framework of her dissertation research serve as the cornerstone of the Intensive Course and Clinical Cancer Genomics Community of Practice (CCGCoP), which brings cancer genetics practitioners from diverse practice settings together for professional learning, enduring patient-centered support and community-based research collaborations across the U.S. and internationally. Drs. Blazer and Weitzel were co-recipients of the 2019 American Society of Human Genetics Arno Motulsky-Barton Childs Award for Excellence in Human Genetics Education in recognition of the scope and reach of their education initiatives. Dr. Blazer is a member of the American Society of Human Genetics, the National Society of Genetic Counselors, the American Association of Cancer Education, and the National Human Genome Research Institute Inter-Society Coordinating Committee for Practitioner Education in Genomics.



**Danielle Castillo, BS**

**Senior Research Associate**

Danielle Castillo, BS, is a Senior Research Associate in the Department of Clinical Cancer Genetics Molecular Laboratory at the City of Hope, where she assists Mr. Herzog in the maintenance of the Breast Cancer Registry, Hispanic Mutation Project, LIFTUP Project and other research endeavors. After spending a good part of her senior year working on water conservation at Stellenbosch University in Cape Town, South Africa Mrs. Castillo graduated with a bachelor's degree in biology from Whittier College in 2008 Mrs. Castillo worked as a biologist for Irvine Scientific before coming to the City of Hope in early 2009.



**Sandra Dreike, MS, CGC**

**Genetic Counselor**

Sandra Dreike, MS, CGC is a licensed board-certified genetic counselor who specializes in cancer genetics. She received her Master of Science degree in Genetic Counseling from University of California, Irvine and her bachelor's degree in Biology from California Polytechnic State University, San Luis Obispo. Sandra joined the City of Hope Division of Clinical Cancer Genomics in 2019. She previously practiced as a genetic counselor in Honolulu, HI where she specialized in cancer genetics and general pediatric and adult



## CCG Education Team



**Gloria Nuñez, MPH**

### **Administrative Program Manager**

Gloria Nuñez, MPH, is the Administrative Program Manager in the City of Hope Department of Health Services Administration at San Diego State University. Ms. Nuñez has 16 years experience working in clinical research. Ms. Nuñez worked at UCSD and UCLA for 4 years as the Administrative Data Analyst. She then joined City of Hope and manages the annual Intensive Course in Cancer Risk Assessment and Patient Conferences. In addition, she is responsible for assuring all Clinical Studies are current and compliant with all regulatory requirements.

Finally, she collaborates with the clinical and nonclinical staff to assure the educational platforms are current and effective to effectively communicate with our Global Clinical Cancer Genomics Community of Practice (CCGCoP). She is a member of the City of Hope and LMS Platform Teams. She oversees that all aspects of the CCGCoP Projects are aligned with the goals of the City of Hope. She is the lead on obtaining accreditation for the educational courses from CME and NSGC.



**Phyllis Leung, MEd**

### **Education Assistant**

Phyllis Leung is the Educational Assistant for the Cancer Genetics Education Program in Postsecondary Administration and Student Affairs at the University of San Diego. She has a Master's degree in Communication and in Sociology from the University of California, San Diego. She has experience in fostering community to cultivate learning and collaboration. At City of Hope, she is responsible for the administrative development of the Intensive Course, Self-Paced Program, TIGCR, and the CCGCoP Portal.



**Dev Tanna**

### **Education Assistant**

Dev Tanna is an Educational Assistant for the Cancer Genetics Education Program at the University of California, Riverside. At UCR, Dev conducted bioinformatics analysis of data produced by pathogenic bacteria under Dr. Adam Godzik. After graduation, Dev did a postdoctoral fellowship at the County Department of Public Health's COVID-19 response task force. At City of Hope, he is responsible for the administrative development of the Intensive Course, Self-Paced Program, TIGCR, and the CCGCoP Portal.



**John Luna, MS**

### **Education Assistant**

John Luna is an Educational Assistant for the Cancer Genetics Education Program at the University of California, San Diego. He has a Bachelor of Science in Biomedical Sciences from Rosalind Franklin University and his Bachelor of Science in Biology from the University of California. He has experience as a volunteer in STEM education outreach, a research assistant, and a medical scribe in an urgent care. At City of Hope, John assists with developing the Intensive and Self Paced courses.

## CCG FACULTY

## GUEST FACULTY

## CCG Research Team



**Gubidxa Gutierrez Seymour, MSTM**

### **CCGCRN Coordinator**

Gubidxa Gutierrez Seymour, MSTM, is the DCC Project Administrator in the Division of Clinical Cancer Genomics at City of Hope. He earned a Master of Science in Translational Medicine from a joint program by Keck Graduate Institute and Irell & Manaster Graduate School of Biological Sciences at City of Hope. As part of his master's thesis and under the guidance of Dr. Jeffrey Weitz, he investigated the origin and distribution of recurrent CHEK2 and PALB2 germline variants in the Americas. In his current role, he oversees data management operations, training, and quality assurance activities for the Clinical Cancer Genomics Community of Practice Research Network (CCGCRN). He conducts daily clinical research operations and is responsible for supporting the efforts of the research network members throughout site initiation and maintenance.

He plays a key role in the LIFT UP study, including enrolling participants and their families, collecting data and biospecimens. He is co-founder and president of City of Hope's newest employee resource group, the Indigenous Peoples of the Americas at City of Hope. He is also a member of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) and the Summer internship for Indigenous Peoples in Genomics (SING) Consortium.



**Aleck Cervantes, BS**

### **Clinical Research Assistant**

Aleck Cervantes is the Clinical Research Assistant for Clinical Cancer Genomics division at City of Hope. He received his Bachelor's degree in Neuroscience from the University of California, Los Angeles. While at UCLA Aleck worked in an ophthalmic genetics laboratory under Dr. Anthony Aldave which studied various corneal diseases including Posterior Polymorphous Corneal Dystrophy and Corneal Dystrophy. At City of Hope Aleck assists Gubidxa Seymour with maintaining quality assurance in data collection and analysis.

He is also responsible for coordinating the Li-Fraumeni Exploration Consortium which collaborates with multiple hospitals to gather data and study Li-Fraumeni Syndrome. Aleck also works on data collection and analysis for the Li-Fraumeni & TP53: Understanding & Prevention project which aims to understand multiple aspects of Li-Fraumeni syndrome.



**Kevin Tsang, BS**

### **Clinical Research Assistant**

Kevin Tsang is the Education Assistant and Clinical Research Assistant for the Cancer Genetics Education Program at City of Hope. He received his bachelor's degree in Biochemistry from University of California, Los Angeles, and is currently enrolled in University of Southern California for MS Applied Data Science. During his time at UCLA, he worked as an undergraduate research assistant for Caius Radu and his post doc fellow Thuc Le. He performed Mass Spectrometry operation for pharmacokinetics and metabolism studies on nucleotide biosynthesis mechanism in pancreatic ductal adenocarcinoma. At City of Hope, Mr. Tsang formerly worked as a research assistant for the Cancer Genetics Education Program.

He assisted with development, piloting, updating, administration and data collection for all pre and post course assessments and evaluations. Additionally, he assisted Gloria Nunez with the course administration and management. He is responsible for developing and maintaining the CCGCoP Portal and providing bibliographic database and providing literature searches for continuous refinement of the curriculum.

Contact us for questions

[cgep@coh.org](mailto:cgep@coh.org)

Thank you for your attention!