

The Genetics/Genomics Competency Center for Education (G2C2)

<http://g-2-c-2.org>

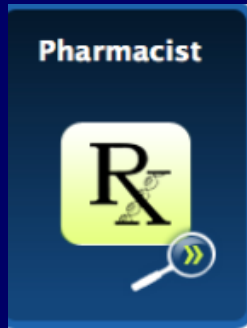
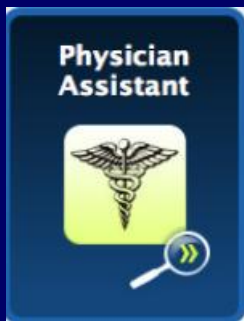
Goal of G2C2 (<http://www.g-2-c-2.org>)

- Health professional educators identified a need for a centralized web resource to :
 - facilitate communication, development, and dissemination of educational resources
 - demonstrate different approaches to achieving genomic competency
 - share resources across disciplines
 - **target audience of educators AND practicing clinicians**



Fostering Education of Genetic/Genomic Information

Visit <http://g-2-c-2.org>



The screenshot shows the homepage of the Genetics & Genomics Competency Center (G2C2). At the top, there is a navigation bar with the logo "GENETICS/GENOMICS COMPETENCY CENTER" and links for "Home", "Competency Map", "Saved Resources", and "Meet the Experts". A red arrow points to the "Home" link. Below the navigation bar is a search bar with the text "Search G2C2". Underneath the search bar are three buttons: "Text Search", "Search By Discipline", and "Search By Topic". A red arrow points to the "Search By Discipline" button. A dropdown menu is open under "Search By Discipline", showing a list of disciplines: "Discipline", "Genetic Counselor", "Nurse", "Pharmacist", "Physician", and "Physician Assistant". Below the search bar are three main content areas: "Competencies", "Saved Resources", and "Resource". The "Competencies" area has a red arrow pointing to it and contains the text: "Match your classroom genetics/genomics searching to competencies." The "Saved Resources" area contains the text: "As you find resources, you can save them and send to yourself or others by email." The "Resource" area contains the text: "Do you have activities, resources or assessments you would like to share?"

G2C2 – Genetics/Genomics Competency Center

NEW – Enhanced Search Tools – **COMPETENCY MAP**



[Home](#)

[Competency Map](#)

[Saved Resources](#)

[Meet the Experts](#)

Competency Map

Competency Map

[Nurse](#)

[Genetic Counselor](#)

[Physician](#)

[Physician Assistant](#)

[Pharmacist](#)

*View the **Competencies Guidelines** for these disciplines:*

- [Genetic Counselors](#)
- [Nurses - \(Competencies to which resources are currently mapped\)](#)
- [Nurses - Essential Genetic and Genomic Competencies for Nurses with Graduate Degrees \(document provided for your information-resources not yet mapped to these competencies\)](#)
- [Pharmacists](#)
- [Physician: Framework for Physician Competencies](#)
- [ISCC Competencies \(coded for resource mapping\)](#)
- [Physician: ACMG Competencies](#)
- [Physician: ISCC Membership](#)
- [Physician Assistants](#)

G2C2 – Genetics/Genomics Competency Center

NEW – Enhanced Search Tools – **SEARCH BY DISCIPLINE**

The screenshot displays the G2C2 website interface. At the top left is the logo with the letters 'G2C2' and the text 'GENETICS/GENOMICS COMPETENCY CENTER'. To the right are navigation links: 'Home', 'Competency Map', 'Saved Resources', and 'Meet the Experts'. Below the navigation is a large banner with a blue background and a molecular structure. On the left of the banner is a photo of three people. The main text in the banner reads: 'Search for Genetics & Genomics Resources to Use in Your Classroom or in Your Practice' and 'Find websites, books, articles and more - enhance your class content with peer-reviewed resources.' Below the banner is a yellow bar with the text 'Search G2C2'. Underneath is a search interface with three tabs: 'Text Search', 'Search By Discipline', and 'Search By Topic'. The 'Search By Discipline' tab is active, showing a dropdown menu with the following options: 'Discipline', 'Genetic Counselor', 'Nurse', 'Pharmacist', 'Physician', and 'Physician Assistant'. Below the search interface are three columns of content. The first column is titled 'Search Competencies' and features an icon of a computer monitor with a checklist, with the text: 'Match your classroom genetics/genomics searching to competencies.' The second column is titled 'View Saved Resources' and features an icon of a person and a document, with the text: 'As you find resources, you can save them and send to yourself or others by email.' The third column is titled 'Submit a Resource' and features an icon of a document with a pencil, with the text: 'Do you have activities, resources or assessments you would like to share?'

Filter Search Results containing text "Pediatrics"

▶ [START OVER](#)
▶ [SHOW ALL](#)

- Any Discipline -

- Any Cost -

- Any CME availability -

- Any Activity Type -

- Any Format -

✓ - Any Discipline -

Genetic Counselor

Nurse

Pharmacist

Physician

Physician Assistant

Information in Pediatric Primary Care and Public Health, CDC-Sponsored

Free

Feb. 24-25, 2006

of family history in assessing peoples risk for common diseases and developing effective
tion and prevention.

The Pharmacogenomics Knowledge Base (PharmGKB)

Free

PharmGKB is a comprehensive resource that curates knowledge about the impact of genetic variation on drug response for clinicians and researchers. The PharmGKB Overview presentation provides an introduction to PharmGKB and the information available at www.pharmgkb.org. The Pharmacogenomics Lecture provides an introduction to what pharmacogenomics is and the clinical implementation of pharmacogenet...

Medical Genetics in Pediatric Practice

Paid

This pediatric text provides: - Basics on genetic processes, inheritance patterns, and genetic testing - Concise summaries of common genetic disorders - Recognition, evaluation, diagnosis, and treatment how-to's - Illuminating images of anomalies that may indicate genetic conditions - Case-based examples of ethical issues

Ethical and Policy Issues in Genetic Testing and Screening of Children

Free

This policy statement includes recommendations on genetic testing and screening that were developed collaboratively by the American Academy of Pediatrics and the American College of Medical Genetics and Genomics with respect to many of the scenarios in these tests may be needed.

G2C2 – Genetics/Genomics Competency Center

NEW – Enhanced Search Tools – **SEARCH BY TOPIC**

[Home](#)[Competency Map](#)[Saved Resources](#)[Meet the Experts](#)

Search for Genetics & Genomics Resources to Use in Your Classroom or in Your Practice

Find websites, books, articles and more - enhance your class content with peer-reviewed resources.

Search G2C2

[Text Search](#)[Search By Discipline](#)[Search By Topic](#)

- BASIC GENETIC CONCEPTS
- CANCER GENETICS
- CARDIOVASCULAR GENETICS
- CLINICAL GENETIC SPECIALTIES
- ETHICAL, LEGAL AND SOCIAL IMPLICATIONS

Search Competencies



Match your classroom genetics/genomics searching to competencies.

View Saved Resources



As you find resources, you can save them and send to yourself or others by email.

Submit a Resource



Do you have activities, resources or assessments you would like to share?

G2C2 – Genetics/Genomics Competency Center Home Page



Home

Competency Map

Saved Resources

Meet the Experts



Search for Genetics & Genomics Resources to Use in Your Classroom or in Your Practice

Find websites, books, articles and more - enhance your class content
with peer-reviewed resources.

Search G2C2

Text Search

Search By Discipline

Search By Topic

Enter Search Term or Phrase

Search

Search Competencies



Match your classroom
genetics/genomics searching to
competencies.

View Saved Resources



As you find resources, you can
save them and send to yourself
or others by email.

Submit a Resource



Do you have activities,
resources or assessments you
would like to share?

Search G2C2

Text Search

Search By Discipline

Search By Topic

🔍 Pediatrics

Search

Filter Search Results from discipline

[▶ START OVER](#)[▶ SHOW ALL](#)

"Physician"

- Any Discipline -

- Any Cost -

- Any CME availability -

- Any Activity Type -

- Any Format -

NHGRI Genomics in Medicine Lecture Series

Free

The resource is an archive of a lecture series sponsored by the National Human Genome Research Institute (NHGRI), in collaboration with Suburban Hospital and Johns Hopkins University School of Medicine. Lectures are held approximately monthly at Suburban Hospital and last for 1 hour each. Lectures include: pharmacogenetics, ophthalmic genetics and clinical treatment priorities, diagnosis and mana...

NHS National Genetics and Genomics Education Centre

Free

The NHS National Genetics and Genomics Education Centre was established in 2005 and funded by the Department of Health as one of the major initiatives of the 2003 Genetics White Paper 'Our Inheritance, Our Future Realising the potential of genetics in the NHS'. One of the main aims of the Centre was to improve the understanding of genetics among healthcare professionals and its role in modern hea...

PharmGenEd

Free

Pharmacogenomics Education Program (PharmGenEd): Bridging the Gap between Science and Practice™ is an evidence-based program designed for pharmacists and physicians, pharmacy and medical students, nurses, and genetic counselors. The program team at UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences is collaborating with national pharmacy, medical, and healthcare organizations to offer an ...

Hereditary Colorectal Cancer: Is Your Patient at High Risk?

Free

This resource is an online CME program on the topic of hereditary colorectal cancer. Developed by the AMA and the National Coalition for Health Professional Education in Genetics (NCHPEG), the goal of this program is to improve the primary care provider's ability to identify, evaluate, and manage patients at increased risk of hereditary colorectal cancer (CRC). This CME activity is available in ...

Pharmacogenomics: Increasing the safety and effectiveness of drug therapy (electronic brochure)

Free

The AMA, in collaboration with the Critical Path Institute and the Arizona Center for Education and Research on Therapeutics, developed a brochure intended for physicians and other health care providers who may not have extensive experience with pharmacogenomics, and introduces the concept using a case-based approach.

My Cancer Genome: Genetically Informed Cancer Medicine

Free

In January 2011, the Vanderbilt-Ingram Cancer Center (VICC) launched the nation's first web-based personalized cancer medicine knowledge resource, "My Cancer Genome," to enable a genetically informed approach to cancer medicine.

Ethical and Policy Issues in Genetic Testing and Screening of Children

[Go to Resource Links](#) ▾

[Tools](#)  

This policy statement includes recommendations on genetic testing and screening that were developed collaboratively by the American Academy of Pediatrics and the American College of Medical Genetics and Genomics with respect to many of the scenarios in these tests may be needed.

Goals & Learning Objectives

This technical report provides ethical justification and empirical data in support of proposed policy recommendations regarding genetic testing and screening practices in a myriad of settings.

Author(s)	COMMITTEE ON BIOETHICS, COMMITTEE ON GENETICS, AND, THE AMERICAN COLLEGE OF MEDICAL GENETICS AND GENOMICS SOCIAL, ETHICAL, AND LEGAL ISSUES COMMITTEE
Target Audience	generalist, pediatrician
Suggested Audience	physicians, nurses
Activity Type	Self Study
Format	Policy
CME Available	No
Members Only	No
Keywords	Pediatrics , Genetic Screening
Cost	Free
Note	

From the American Academy of Pediatrics

Policy Statement

Ethical and Policy Issues in Genetic Testing and Screening of Children

COMMITTEE ON BIOETHICS, COMMITTEE ON GENETICS, AND, THE AMERICAN COLLEGE OF MEDICAL GENETICS AND, GENOMICS SOCIAL, ETHICAL, AND LEGAL ISSUES COMMITTEE

ABSTRACT

The genetic testing and genetic screening of children are commonplace. Decisions about whether to offer genetic testing and screening should be driven by the best interest of the child. The growing literature on the psychosocial and clinical effects of such testing and screening can help inform best practices. This policy statement represents recommendations developed collaboratively by the American Academy of Pediatrics and the American College of Medical Genetics and Genomics with respect to many of the scenarios in which genetic testing and screening can occur.

KEY WORDS

• genetic testing • genetic screening • newborn screening • predictive testing

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This Article

Published online February 21, 2013
 PEDIATRICS Vol. 131 No. 3 March 1, 2013
 pp. 620-622
 (doi: 10.1542/peds.2012-3680)

- Abstract [Free](#)
- » [Full Text](#) [Free](#)
- [Full Text \(PDF\)](#) [Free](#)

- Article Type

- From the American Academy of Pediatrics

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- eletters

REDESIGN IN PROCESS

Builds on foundational principles of G2C2 while shortening the number of clicks to find a desired resource through:

- 1. homepage search functions**
- 2. direct access to resources through the competency map**

G2C2 Homepage: <http://g-2-c-2.org/> (Expected Sept 2016); centralized box for term/phrase search

G 2 C 2
GENETICS / GENOMICS
COMPETENCY CENTER

Competencies **Meet the Experts** **About** **Browse Topics ▾**

Genetics/Genomics Education for Your Classroom or Practice

Enter Search Term or Phrase

SEARCH


Featured Resource

<p>American Medical Association Family History Tools</p> <p>“ Website that provides a physician/health care provider with useful information about the utility of a family history in identifying disease risk and developing a personalized prevention program. Family history questionnaires to use when gathering a complete and accurate family medical history. Family history readings to assist providers in diagnosis of disease risk. ”</p>	<p>Genetics in Primary Care Institute Webinar Series</p> <p>“ The Genetics in Primary Care Institute, hosted by the American Academy of Pediatrics (https://geneticsinprimarycare.aap.org/Pages/default.aspx), is applicable and useful for nurses and nurse practitioners in all specialties, including those who do not provide primary care. In my lectures, I share this site as a resource for nursing students and practicing nurses, as it provides excellent content on all topics relevant to genomic-focused care. ”</p> <p>– Dr. Anne Ersig, Assistant Professor at the University of Iowa College of Nursing</p>
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View Saved Resources **Submit a Resource**

Dropdown Menu with QuickLinks to Disciplines, Topics (condensed list), Society pages

G 2 C 2
GENETICS / GENOMICS
COMPETENCY CENTER

Competencies	Meet the Experts	About	Browse Topics ▾
		Disciplines <ul style="list-style-type: none">NursePhysician AssistantPharmacistGenetic CounselorPhysician	Topics <ul style="list-style-type: none">Clinical GeneticsEthical, Legal And Social ImplicationsFamily HistoryGeneral GenomicsGenetic ConditionsGenetic CounselingGenetic/Genomic TestingPharmacogenomicsRisk AssessmentOther
		Society <ul style="list-style-type: none">American Board of Pediatrics	
	American Medical Association Family History Tools <p>“ Website that provides a physician/health care provider with useful information about the utility of a family history in identifying disease risk and developing a personalized prevention program. Family history questionnaires to use when gathering a complete and accurate family medical ”</p>	Featured	Genetics in Primary Care Institute Webinar Series <p>“ The Genetics in Primary Care Institute, hosted by the American Academy of Pediatrics (https://geneticsinprimarycare.aap.org/Pages/default.aspx), is applicable and useful for nurses and nurse practitioners in all specialties, including those who do not provide primary ”</p>

Revised Search Results page with multiple filter options in left column

Search Results

There are **478** results that match your search.

You searched for: [Search Again](#)

Display results per page « 1 2 3 4 5 »

Resource Title	Format	CME	Cost
Genetic Testing: Genomic Tests and Family History by Levels of Evidence	Website	No	Free
Gene Tests	Website	No	Free
Genomics for Child Neurology: Results Interpretation and Application Toolkit: Interpreting Genetic Tests Tool	Other	No	Free
NSGC Online Education: Why Choose Just One Gene? Large Panel Tests for Genetic Conditions	Course	Yes	Paid
American Board of Pediatrics	Society	-	-
ACCE Model Process for Evaluating Genetic Tests	Website	No	Free
Genetic Tests and Their Evaluation: Can We Answer the Key Questions?	Article	No	Free
Gene Tests	Website	No	Free
A public health approach to pharmacogenomics and gene-based diagnostic tests	Website	No	Free
Gene Tests	Website	No	Free

Filter Options

Click on the selections below to narrow your search further

[Clear All](#)

Disciplines

- Genetic Counselor (180)
- Nurse (92)
- Pharmacist (67)
- Physician (79)
- Physician Assistant (177)

CME/CE Availability

- All
- Yes (36)
- No (442)

Cost

- All
- Paid (114)
- Free (364)

Formats

- Article (30)
- Book (87)
- Course (57)
- Guideline (45)
- Other (65)

Revised Resource Details page showing competencies from multiple disciplines, also quick access to competency publications

Go Back to Previous Page Resource

[Launch Resource](#)
[Save Resource](#)
[Rate Resource](#)

Gene Tests

Website with links to expert-authored peer-reviewed disease descriptions, an international directory of genetic testing laboratories, an international directory of genetics and prenatal diagnosis clinics, and educational Materials including an illustrated glossary, information on genetic services, PowerPoint® presentations and annotated Internet resources.

Format	Website
CME Available	No
Topics / Sub-Topics	Accessing Information And Resources, Basic Genetic Concepts, Family History
Cost	free
Note	Website with downloadable educational material

Genomic Competencies

Experts from the disciplines listed below have tagged this resource as fulfilling genomic competencies.

Physician Assistant

- ⊕ Advise patients about relevant screening programs as appropriate
- ⊕ Interpersonal and Communication Skills
- ⊕ Manage patients who screened positive for genetic conditions, using accepted guidelines
- ⊕ Medical Knowledge
- ⊕ Patient Care

[Physician Assistant Map](#) [Genomic Competency Reference](#)

Nurse

- ⊕ Demonstrate assessment of patient concerns or understanding about information received from specialty genetic services (i.e., on-line genetic testing results).
- ⊕ Identification

[Nurse Map](#) [Genomic Competency Reference](#)

Revised access to resources (double page symbol) through competency map; access to resource list available at all levels of the competency hierarchy

GENETICS / GENOMICS COMPETENCY CENTER

Competencies | Meet the Experts | About | Browse Topics ▾

Competency Map

Genetic Counselor [Resources Popup]

- ➔ I: GENETICS EXPERTISE AND ANALYSIS
 - 1: Demonstrate and utilize a depth and breadth of understanding and knowledge of genetics and genomics core concepts and principles.
 - 2: Integrate knowledge of psychosocial aspects of conditions with a genetic component to promote client well-being.
 - 3: Construct relevant, targeted and comprehensive personal and family histories and pedigrees.
 - 4: Identify, assess, facilitate, and integrate genetic testing options in genetic counseling practice.
 - 5: Assess individuals' and their relatives' probability of conditions with a genetic component or carrier status based on their pedigree, test result(s), and other pertinent information.
 - 6: Demonstrate the skills necessary to successfully manage a genetic counseling case.
 - 7: Critically assess genetic/genomic, medical and social science literature and information.
- ➔ II: INTERPERSONAL, PSYCHOSOCIAL AND COUNSELING SKILLS
- ➔ III: EDUCATION
- ➔ IV: PROFESSIONAL DEVELOPMENT & PRACTICE

GENETICS / GENOMICS COMPETENCY CENTER

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Genetic Counselor

[Resources Popup]

Resources for Critically assess genetic/genomic, medical and social science literature and information.

- A Guide to Genetic Counseling, 2nd Edition. Chapter 6: Patient Education
- A Guide to Genetic Counseling, 2nd Edition. Chapter 4: Thinking It All Through: Case Preparation and Management
- Genetic Testing: Genomic Tests and Family History by Levels of Evidence
- Genomics for Child Neurology: Genomic Evaluation & Testing Decisions Curriculum: Genomic Evaluation Testing Decisions
- Genomics for Child Neurology: Genomic Evaluation & Testing Decisions Toolkit: Differential Diagnosis
- Genomics for Child Neurology: Results Interpretation and Application Toolkit: Interpreting Genetic Tests Tool
- Genomics Translation: Evaluation of Genomics Applications in Practice and Prevention (EGAPP)
- MedGen
- NSGC Webinar: PubMed and Beyond: Make Your Searches Count, then Count your Citations and Factor in their impact
- NSGC Webinar: Save Yourself Some Time: Utilizing NCBI's Resources for Phenotype (MedGen), Tests (GTR) and Variation (ClinVar)
- TBL: Genetic Testing and Personalized Medicine
- ACMG Genetics Academy
- CDC Public Health Genomics Knowledge Base
- American Society of Clinical Oncology Policy Statement Update: Genetic and Genomic Testing for Cancer Susceptibility
- Basic Concepts and Potential Applications of Genetics and Genomics for Cardiovascular and Stroke Clinicians: A Scientific Statement From the American Heart Association

Close

Society pages (expected October 2016): Provide both **internal** links to that Society's G2C2 mapped resources as well as **external** links to genomic educational resources the Society provides, and are regularly being updated at the Society's website

GENETICS / GENOMICS COMPETENCY CENTER

Competencies Meet the Experts About Browse Topics

Go Back to Previous Page Society

American Board of Pediatrics

egergerdfdfgergererg

For more educational resources and information from ABP, visit their website:
<https://www.abp.org/>

ABP Educational Resources Mapped to G2C2 Genomic Competencies

Resource Title	Format	CME	Cost
Internal link 1	Website	No	Free
Internal link 2	Website	No	Free

ABP External Resources

Resource Title
External link 1

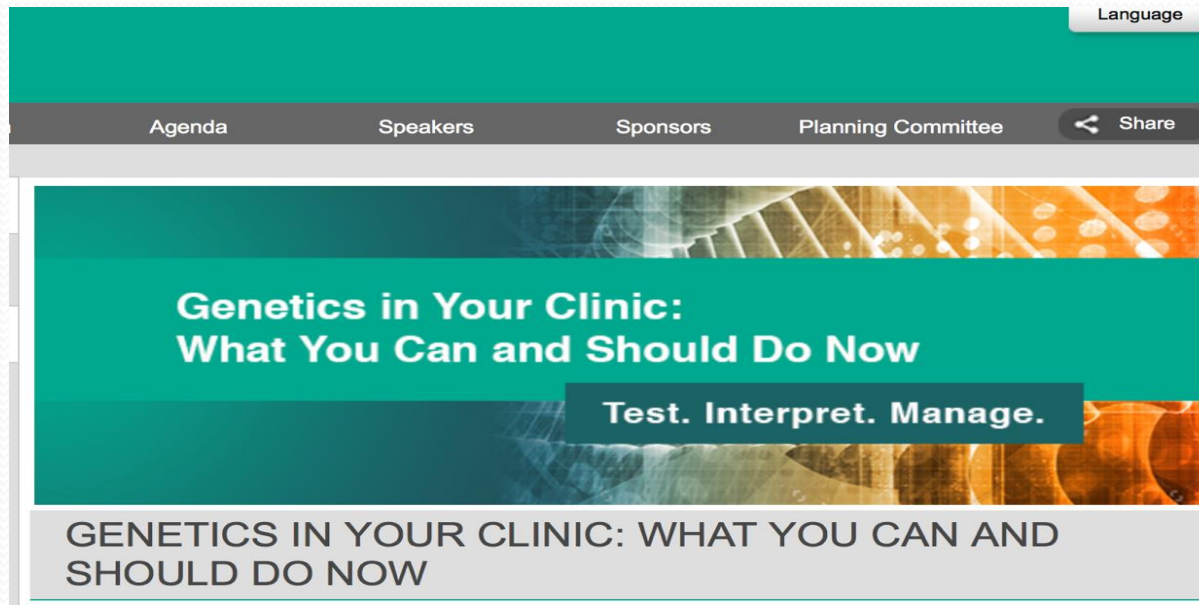
New Directions

- Other Disciplines
- Nurse Researcher Resources
- International Resources
- Other options?

Another way to find resources

<http://engage.vevent.com/index.jsp?eid=782&seid=1617>

- ASHG Webinar and Virtual Toolkit
- Talks, as well as the Toolkit and speaker powerpoints, are available free and on-demand until October 22nd



The screenshot shows a webpage for a webinar. At the top right, there is a 'Language' dropdown menu. Below it is a navigation bar with links for 'Agenda', 'Speakers', 'Sponsors', 'Planning Committee', and a 'Share' button with a left-pointing arrow. The main content area features a large banner with a background image of a DNA double helix and laboratory equipment. The banner text reads: 'Genetics in Your Clinic: What You Can and Should Do Now' in white text on a teal background, followed by 'Test. Interpret. Manage.' in white text on a dark teal background. Below the banner, the text 'GENETICS IN YOUR CLINIC: WHAT YOU CAN AND SHOULD DO NOW' is displayed in a smaller, grey font on a light grey background.

Questions?

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301-547-1897