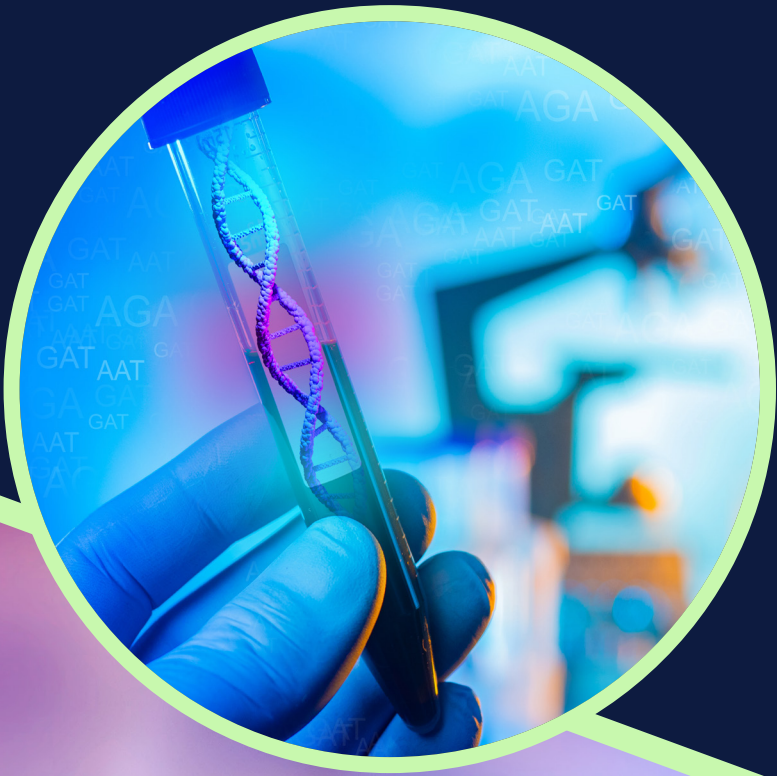


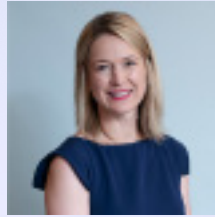
# PROGRAM BOOK

## AMP 2023 MOLECULAR GENETIC PATHOLOGY VIRTUAL REVIEW COURSE

May 16-19, 2023



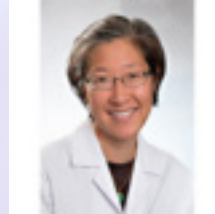
# MEET THE 2023 FACULTY



Lauren L. Ritterhouse, MD, PhD  
*Massachusetts General Hospital*  
*Chair: MGP Review Course*



Yasmine Akkari, PhD  
*Legacy Health*



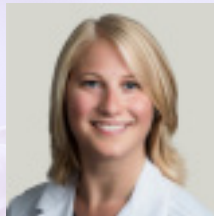
Annette Kim, MD, PhD  
*Brigham and Women's Hospital*



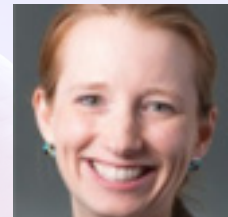
Jason Rosenbaum, MD  
*Kaiser Permanente, Northern California*



Pinar Bayrak-Toydemir, MD, PhD, FACMG  
*University of Utah/ARUP*



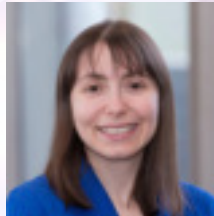
Angela M Lager, PhD  
*University of Chicago*



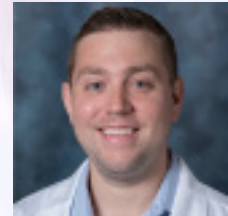
Laura J. Tafe, MD  
*Dartmouth-Hitchcock Health System*



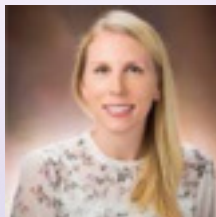
Jesse Cox, MD, PhD  
*University of Nebraska Medical Center*



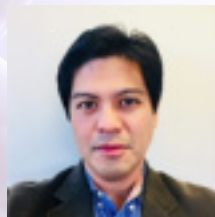
Diana Mandelker, MD, PhD  
*Memorial Sloan Kettering*



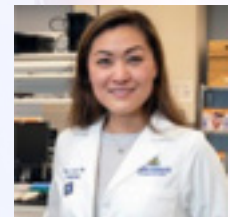
Eric Vail, MD  
*Cedars Sinai*



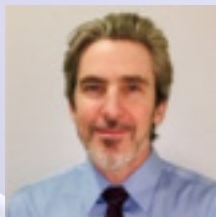
Erin Graf, PhD, D(ABMM)  
*Mayo Clinic Arizona*



Ryan Peña, MD, PhD, D(ABHI)  
*Beth Israel*



Rena Xian, MD, MS  
*Johns Hopkins University*  
*School of Medicine*



Lawrence Jennings, MD, PhD  
*Northwestern University Feinberg*  
*School of Medicine*



Honey V. Reddi, PhD, FACMG  
*Medical College of Wisconsin*



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# LEARNER NOTIFICATION

## DISCLOSURE SUMMARY REPORT

### Association for Molecular Pathology

2023 Molecular Genetic Pathology Review Course

### Disclosure of Conflict of Interest

The following table of disclosure information is provided to learners and contains all financial relationships that each individual in a position to control the content disclosed to ASCP. All of these relationships were treated as a conflict of interest, and have been mitigated.

All individuals in a position to control the content of CE are listed below.

First Name	Last Name	Ineligible Company : Relationship
Eriko	Clements	NA
Melissa	Kauffman	NA
Christal	Ralph	Regeneron Pharmaceuticals: Stock options or bond holdings
Yasmine	Akkari	Bio-Rad: Consulting fees or other remuneration
Pinar	Bayrak-Toydemir	American College of Medical Genetics: Speakers bureau
Jesse	Cox	NA
Erin	Graf	NA
Lawrence	Jennings	NA
Annette	Kim	Multiple Myeloma Research Foundation: Research grants
Angela	Lager	NA
Diana	Mandelker	NA
Honey	Reddi	Biofidelity Inc: Consulting fees or other remuneration
Lauren	Ritterhouse	Amgen: Consulting fees or other remuneration • Merck: Consulting fees or other remuneration • AstraZeneca: Consulting fees or other remuneration positions of influence • PeerView: Honoraria • Medscape: Honoraria • Clinical Care Options: Honoraria • Abbvie: Consulting fees or other remuneration • Personal Genome Diagnostics: Consulting fees or other remuneration • Bristol Myers Squibb: Consulting fees or other remuneration • Loxo Oncology at Lilly: Consulting fees or other remuneration • Sanofi-Genzyme: Consulting fees or other remuneration • EMD Serono Consulting fees or other remuneration
Jason	Rosenbaum	NA
Ryan	Peña	NA
Laura	Tafe	BioNtech: Stock options or bond holdings • Glaxosmithkline: Stock options or bond holdings
Eric	Vail	Bayer: Speakers bureau • Eli Lilly: Speakers bureau • Janssen: Speakers bureau
Rena	Xian	Invivoscribe: Honorarium

### Contact Information

If you have questions regarding the educational material in this activity, please contact AMP at [ampeducation@amp.org](mailto:ampeducation@amp.org).



## Emerging & Evolving Biomarkers:

# RECENT FINDINGS, LABORATORY CONSIDERATIONS, AND CLINICAL IMPLICATIONS

Explore extraordinary advancements in cancer biomarker testing free and at your own pace. Micro-learning modules and CE-eligible webinars now available at **[AMP.org/EEB](https://AMP.org/EEB)**



*This program has been supported through educational grant funding provided by Amgen and Loxo Oncology at Lilly (for further information concerning Lilly grant funding visit [www.lillygrantoffice.com](http://www.lillygrantoffice.com).) Supporting companies had no control over its content. No personally-identifiable information regarding you is provided to any grant supporters.*

## Learn about these and other biomarkers in our ongoing virtual educational series:

### **MGMT**

*Speaker: Tejus Bale, MD, PhD*

### **HRD Score**

*Speaker: Melinda Telli, MD*

### **METex14**

*Speaker: Nikoletta Sidiropoulos, MD*

### **NTRK**

*Speaker: Lynette M. Sholl, MD*

### **ERBB2 (HER2) in Colorectal Cancer**

*Speaker: Sinchita Roy-Chowdhuri, MD, PhD*

### **Myeloid Malignancy MRD**

*Speaker: David Wu, MD, PhD*

### **KRAS**

*Speaker: Craig Mackinnon, MD, PhD*

### **Methylation Profiling**

*Speaker: Brent Orr, MD, PhD*

### **Immunoglobulin & T-cell Receptor Gene Sequencing**

*Speaker: Rena Xian, MD*

### **Mutational Signatures in Cancer**

*Speaker: Fei Dong, MD*

### **Microsatellite Instability (MSI) Testing for Cancer**

*Speaker: Sameek Roychowdhury, MD, PhD*

### **Being eNRGy Conscious: Understanding NRG1 Fusions**

*Speaker: Stephan Liu, MD*

# TUESDAY, MAY 16, 2023

All times are in Eastern Time Zone

**9:00-9:15 AM**

**Welcome**

Lauren L. Ritterhouse, MD, PhD | *Massachusetts General Hospital*

**9:15-10:00 AM**

**Technology: Nucleic Acids Extraction, Pre-Analytic Considerations**

Lauren L. Ritterhouse, MD, PhD | *Massachusetts General Hospital*

**CME/CMLE: 0.75**

**10:00-10:45 AM**

**Technology: Microarrays with Clinical Examples**

Angela M. Lager, PhD | *University of Chicago*

**CME/CMLE: 0.75**

**10:45-11:00 AM**

**Break**

**11:00 AM-12:00 PM**

**Identity Testing with Case Studies**

Jesse Cox, MD, PhD | *University of Nebraska Medical Center*

**CME/CMLE: 1.00**

**12:00-12:45 PM**

**Technology: Sanger Sequencing with Clinical Examples**

Honey V. Reddi, PhD, FACMG | *Medical College of Wisconsin*

**CME/CMLE: 0.75**

**12:45-1:30 PM**

**Lunch**

**1:30-3:30 PM**

**Technology: NGS**

Jason Rosenbaum, MD | *Kaiser Permanente*

**CME/CMLE : 2.00**

**3:30-3:45 PM**

**Break**

**3:45-5:00PM**

**NGS Bioinformatics**

Jason Rosenbaum, MD | *Kaiser Permanente, Northern California*

**CME/CMLE: 1.25**

**5:00-6:00 PM**

**Technology: Nucleic Acid Amplification Techniques with Case Examples**

Eric Vail, MD | *Cedars Sinai*

**CME/CMLE: 1.0**

**6:00-6:30 PM**

**Meet the Faculty**



# Molecular in a Minute

Microlearning from  
The Association for  
Molecular Pathology



## The Molecular Pathology Competency Series

These microlearning modules are targeted to practicing laboratory professionals and cover many aspects of competency in the laboratory. They are short (10-15 minute) presentations covering Core (basic proficiency)

or

Advanced (specialized and/or recently updated) concepts in a particular area of laboratory training.

This content addresses specific advances in training, technology, and laboratory operations and acts as review and/or updates in important principles for laboratorians over the full arc of their careers.

<https://www.amp.org/education/amp-molecular-in-a-minute-microlearning-modules-in-molecular-pathology/>

### **CORE: Biomarkers for Immunotherapy**

*Speaker: Honey V. Reddi, PhD, FACMG*

### **ADVANCED: Biomarkers for Immunotherapy**

*Speaker: Honey V. Reddi, PhD, FACMG*

### **CORE: Germline / Somatic Variants**

*Speaker: Alanna Church, MD*

### **ADVANCED: Germline / Somatic Variants**

*Speaker: Alanna Church, MD*

### **CORE: Lymphoid Clonality Testing**

*Speaker: Nathan Montgomery, MD PhD*

### **CORE: Fluorescence in Situ Hybridization (FISH): Methodology and Clinical Utility**

*Speaker: Lori Ramkissoon, MD*

### **CORE: Fusion Detection by Next Generation Sequencing Using RNA**

*Speaker: Alanna Church, MD*

### **CORE: Quantitative PCR**

*Speaker: Lawrence Jennings, MD*

### **CORE: PCR and Sanger Sequencing**

*Speaker: Va Lip*

### **ADVANCED: Detection of a Cryptic Gene Fusion in a B-ALL**

*Speaker: Valentina Nardi, MD*

# WEDNESDAY, MAY 17, 2023

All times are in Eastern Time Zone

**9:00-9:02 AM**

## Welcome and Updates

Lauren L. Ritterhouse, MD, PhD | *Massachusetts General Hospital*

**9:02-10:15 AM**

## Math 101: Applications of Bayesian Analysis in Molecular Testing

Annette Kim, MD, PhD | *Brigham and Women's Hospital*

**CME/CMLE:** 1.25

**10:15-11:15 AM**

## Cytogenetics and Case Studies

Yasmine Akkari, PhD | *Legacy Health*

**CME/CMLE:** 1.00

**11:15-11:30 AM**

## Break

**11:30 AM-12:15 PM**

## FISH and Cases

Angela M Lager, PhD | *University of Chicago*

**CME/CMLE:** 0.75

**12:15-1:15 PM**

## HLA and Case Studies

Ryan Peña, MD, PhD, D(ABHI) | *Beth Israel*

**CME/CMLE:** 1.00

**1:15-2:00 PM**

## Lunch

1:00-2:00

**2:00-2:45 PM**

## Germline Cancer Syndromes

Diana Mandelker, MD, PhD | *Memorial Sloan Kettering*

**CME/CMLE:** 0.75

**2:45-4:00 PM**

## Inherited Conditions I and Case Studies

Pinar Bayrak-Toydemir, MD, PhD, FACMG | *University of Utah/ARUP*

**CME/CMLE:** 1.25

**4:00-4:15 PM**

## Break

**4:15-6:00 PM**

## Inherited Conditions II and Case Studies

Pinar Bayrak-Toydemir, MD, PhD, FACMG | *University of UTAH/ARUP*

**CME/CMLE:** 1.75

**6:00-6:30 PM**

## Meet the Faculty



# AMP 2022



## On-demand Recordings

[amp22.amp.org/recordings](https://amp22.amp.org/recordings)

# THURSDAY, MAY 18, 2023

All times are in Eastern Time Zone

**9:00-9:02 AM**

**Welcome and Updates**

Lauren L. Ritterhouse, MD, PhD | *Massachusetts General Hospital*

**9:02-10:00 AM**

**Hematopathology I and Case Studies (Myeloid)**

Annette Kim, MD, PhD | *Brigham and Women's Hospital*

**CME/CMLE: 1.00**

**10:00-11:00 AM**

**Molecular Pathology Pearls in Lymphoid Malignancies**

Rena Xian, MD, MS | *Johns Hopkins University School of Medicine*

**CME/CMLE: 1.00**

**11:00-11:15 AM**

**Break**

**11:15 AM-12:15 PM**

**Key Molecular Laboratory Management Concepts that Impact Patient Care**

Erin Graf, PhD, D(ABMM) | *Mayo Clinic Arizona*

**CME/CMLE: 1.00**

**12:15-1:15 PM**

**Laboratory Finances: Reimbursement, Laboratory Budgets and Implications for your Routine Practice**

Erin Graf, PhD, D(ABMM) | *Mayo Clinic Arizona*

**CME/CMLE: 1.00**

**1:15-2:00 PM**

**Lunch**

**2:00-3:45 PM**

**Molecular Oncology I and Case Studies**

Laura J. Tafe, MD | *Dartmouth-Hitchcock Health System*

**CME/CMLE: 1.75**

**3:45-4:00 PM**

**Break**

**4:00-5:00 PM**

**Molecular Oncology II and Case Studies**

Laura J. Tafe, MD | *Dartmouth-Hitchcock Health System*

**CME/CMLE: 1.00**

**5:00-6:15 PM**

**Pharmacogenomics and Case Studies**

Lawrence Jennings, MD, PhD | *Northwestern University Feinberg School of Medicine*

**CME/CMLE: 1.25**

**6:15-6:45 PM**

**Meet the faculty**



**An Online  
Learning  
Experience**

#### **AVAILABLE ON-DEMAND**

- Basic Biology and Detection of Cell-Free DNA
- Practical Analytical and Clinical Validation Strategies for Cell-Free Tumor DNA Assays
- Opportunities and Challenges Toward the Clinical Application of ctDNA MRD Testing in Solid Cancers
- Cell-Free (cf)DNA-based Prenatal Screening: Lessons Learned and Future Strategies
- Current and Emerging Applications of Cell-Free DNA Tumor Tests
- Cell-Free DNA: Predictive Tissue Injury Maps in COVID-19
- Utility of Clinical Metagenomic Next-Generation Sequencing for Diagnosis of Infections
- Hereditary Cancer Surveillance Using Cell-free DNA Sequencing

# **Utility of Cell-Free DNA in the Clinic:**

## **Current State and Future Directions**

To register or learn more about this **FREE** eight part series, visit:  
[www.amp.org/LiquidBiopsy](http://www.amp.org/LiquidBiopsy)



# FRIDAY, MAY 19, 2023

All times are in Eastern Time Zone

**9:00-9:02 AM**

**Welcome and Updates**

Lauren L. Ritterhouse, MD, PhD | *Massachusetts General Hospital*

**9:02-10:15 AM**

**Infectious Diseases I: Overview of an Appropriate Infectious Diseases Molecular Menu and How it Should be Used with Case Studies**

Erin Graf, PhD, D(ABMM) | *Mayo Clinic Arizona*

**CME/CMLE: 1.25**

**10:15-11:30 AM**

**Infectious Disease II: Important Limitations and Stewardship Approaches to Infectious Disease Molecular Testing with Case Studies**

Erin Graf, PhD, D(ABMM) | *Mayo Clinic Arizona*

**CME/CMLE: 1.25**

**11:30-11:45 AM**

**Break**

**11:45 AM-12:15 PM**

**Faculty Panel and Closing Remarks**

# AVAILABLE NOW!

## OVARIAN CANCER VIRTUAL EDUCATION SERIES

In collaboration with the European Society of Pathology, MSD, and AstraZeneca, the Association for Molecular Pathology (AMP) is pleased to present a new online learning experience. The Ovarian Cancer Virtual Education Series is freely available now at [educate.amp.org](https://educate.amp.org).

- The Ovarian Cancer Virtual Education Series are now available for registration on AMPED™
- Learning modules on diagnostic testing in ovarian cancer have been co-created with expert pathologists and molecular geneticists in collaboration with AstraZeneca and MSD

### Modules:

- **Theory:** Learn more about the background to ovarian cancer including epidemiology, HRRm tumour biology, diagnosis workflows, and treatment options
- **Practical:** Understand the concepts and techniques involved in tissue and germline BRCA testing, as well as HRD testing in ovarian cancer
- **Best Practice:** Learn the latest best practice guidance on molecular sequencing in ovarian cancer from testing to reporting

Each module will include a short summary video and a self assessment module to support your learning.

All modules of this free online learning experience are available now at AMPED™.  
[educate.amp.org](https://educate.amp.org)

This educational curriculum is not supported by CME points. These educational materials are co-developed and funded by AstraZeneca and MSD.  
Z4-48417; Date of Preparation: September 2022



# BOOK LIST

The following books are suggested for those preparing for the Molecular Genetic Pathology board exam administered by the American Board of Medical Genetics and the American Board of Pathology.

This list represents the recommendations of the MGP Review Course faculty and the AMP Training and Education Committee; endorsement by the ABMG or the ABP is not implied.

## GENERAL MOLECULAR PATHOLOGY

*Thompson & Thompson Genetics in Medicine, 8th edition.* Nussbaum RL et al., eds. Elsevier, 2015

*Molecular Pathology: The Molecular Basis of Human Diseases 2nd edition.* Coleman WB and Tsongalis GJ, eds. Elsevier, 2018

*Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing.* Coleman WB and Tsongalis GJ, eds. Elsevier, 2016

*Molecular Basis of Human Cancer, 2nd edition.* Coleman WB and Tsongalis GJ, eds. Elsevier, 2017

*Molecular Diagnostics: Fundamentals, Methods, and Clinical Applications 3rd edition.* Buckingham L. ASCP, 2021

*Genomic Medicine: A Practical Guide.* Tafe LJ and Arcila ME, eds. Springer, 2020

## CYTOGENETICS

*Gardner and Sutherland's Chromosome Abnormalities and Genetic Counseling, 5th edition.* McKinlay Gardner RJ, Amor DJ. Oxford University Press, 2018

*The Principles of Clinical Cytogenetics, 3rd edition.* Gersen SL and Keagle MB, eds. Human Press, 2013

*Human Chromosomes, 4th edition.* Miller OJ and Therman E, eds. Springer Press, 2000

Vance GH, Khan WA. *Utility of Fluorescence In Situ Hybridization in Clinical and Research Applications.* Advances in Molecular Pathology 2020; 3:65-75.

*ISCN 2020: An international System for Human Cytogenomic Nomenclature (2020).* Jean McGowan-Jordan et al. S. Karger 2020

## FORENSICS / HLA TYPING

*Fundamentals of Forensic DNA Typing.* Butler JM. Elsevier Academic Press, 2010

*Advanced Topics in Forensic DNA Typing: Methodology.* Butler JM. Elsevier Academic Press, 2012

*Advanced Topics in Forensic DNA Typing: Interpretation.* Butler JM. Elsevier Academic Press, 2015

*Transplantation Immunology: Methods and Protocols.* Zachary AA and Leffell MS, Eds. Humana Press 2013

*HLA Disease Associations. The Autoimmune Diseases Site Histocompatibility & Immunogenetics.* Kallon D. eBook

# BOOK LIST CONTINUED...

## LABORATORY MANAGEMENT

*Molecular Pathology in Clinical Practice, 2nd edition.* Leonard DGB, ed. Springer, 2016

*Henry's Clinical Diagnosis and Management by Laboratory Methods, 23rd edition.* McPherson RA and Pincus R, eds. WB Saunders Company, 2016

*Clinical Laboratory Management, 2nd edition.* Garcia LS, ASM Books, 2014

Clinical and Laboratory Standards Institute (CLSI). *Quality Management for Molecular Genetic Testing: Approved Guideline.* CLSI Document MM20-A (ISBN 1-56238-859-2 [Print]; ISBN 1-56238-860-6 [Electronic]. Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne Pennsylvania 19087 USA, 2012

*Laboratory Administration for Pathologists, 2nd edition.* College of American Pathologists, January 1, 2019

## MEDICAL GENETICS

*Thompson & Thompson Genetics in Medicine, 8th edition.* Nussbaum RL et al., eds. Elsevier, 2015

*Vogel and Motulsky's Human Genetics: Problems and Approaches.* Speicher MR, Antonarakis SE, Motulsky AG, eds. Springer, 2010

*Atlas of Genetic Diagnosis and Counseling, 3rd edition.* Chen H. Springer, 2017

*The Metabolic and Molecular Basis of Inherited Disease, 8th edition.* Scriver CR, et al. eds. McGraw-Hill Professional, 2000

Note: Scriver's OMMBID (online version of the above) available to subscribers online at <http://www.genetics.accessmedicine.com>

*Smith's Recognizable Patterns of Human Malformation, 7th edition.* Jones, K, Jones MC, del Campo MWB. Saunders Company, 2013

## METABOLIC GENETICS

*The Metabolic and Molecular Basis of Inherited Disease, 8th edition.* Scriver CR et al. eds. McGraw-Hill Professional, 2000

Note: Scriver's OMMBID (online version of the above) available to subscribers online at <http://genetics.accessmedicine.com>

*Atlas of Inherited Metabolic Diseases, 4th edition.* Nyhan WL and Hoffmann GF. CRC Press, 2020

## MOLECULAR GENETICS / BIOLOGY

*Human Molecular Genetics, 5th edition.* Strachan TS and Read AP. CRC Press, 2019

*Color Atlas of Genetics, 4th edition.* Passarge E. Thieme, 2012

# BOOK LIST CONTINUED...

## MOLECULAR HEMATOLOGY, HEMATOPATHOLOGY, AND ONCOLOGY

*WHO-Tumours of Haematopoietic and Lymphoid Tissues, revised 4th edition, 2017.* Robbins and Cotran Pathologic Basis of Disease, 10th edition

Kumar V, Abbas AK, Aster JC. Elsevier, 2020 *Diagnostic Pathology: Molecular Oncology, 2nd edition.* Vasef MA and Auerbach A. Elsevier, 2019. <https://tumourclassification.iarc.who.int/welcome/>

*Virchows Archives, Volume 482, issue 1, January 1.* Annual Review Issue: Advances in the classification of myeloid and lymphoid neoplasms as revealed in the International Consensus Classification. Issue editors Daniel A Arber, Elias Campo, Elaine S. Jaffe. <https://link.springer.com/journal/428/volumes-and-issues/482-1>

Genomic Medicine: A Practical Guide 1st ed. 2020 Edition, by Laura J. Tafe (Editor), Maria E. Arcila (Editor)

Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing 2nd Edition by William B. Coleman (Editor), Gregory J. Tsongalis PhD HCLD CC FNACB (Editor)

## MOLECULAR MICROBIOLOGY

*Manual of Clinical Microbiology, 12th edition (2 volumes).* Jorgenson JH and Pfaller MA, eds. ASM Press, 2019

*Molecular Diagnostics, 3rd edition.* Patrinos GP and Ansong WJ. Academic Press (Elsevier), 2016

*Molecular Microbiology: Diagnostic Principles and Practice, 3rd edition.* Persing DH, et al., eds. ASM Press, 2016

*Clinical Microbiology Procedures Handbook, 3 Volume Set, 4th edition.* Leber, AL ed. ASM Press, 2016

*Advanced Techniques in Diagnostic Microbiology.* Tang, Y-W and Stratton, CW eds. Springer, 2013

*Jawetz, Melnick & Adelbergs Medical Microbiology, 28th edition.* Riedel S., Morse SA, Mietzner T, Miller S, McGraw Hill. 2019

## PHARMACOGENETICS

*Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 6th edition.* Rifai N, Horvath AR, Wittwer CT, eds. Elsevier, 2018

*Principles of Pharmacogenetics and Pharmacogenomics.* Altman RB, Flockhart D, Goldstein DB. Cambridge University Press, 2012

*Molecular Pathology in Clinical Practice, 2nd edition.* Leonard DGB, ed. Springer, 2016

Clinical Pharmacogenetics Implementation Consortium (CPIC®). <https://cpicpgx.org/>

PharmGKB. <https://www.pharmgkb.org/>

PharmVar. <https://www.pharmvar.org/genes>

## RISK ASSESSMENT AND GENETIC COUNSELING

*Thompson & Thompson Genetics in Medicine, 8th edition.* Nussbaum RL et al., eds. Elsevier, 2015

*Atlas of Genetic Diagnosis and Counseling, 3rd edition.* Chen H. Springer, 2017

*Chromosome Abnormalities and Genetic Counseling, 4th edition.* Gardner RJ, Sutherland GR, McKinlay RJ. Oxford University Press, 2012

*Practical Genetic Counseling for the Laboratory.* Goodenberger ML Thomas BC, Krusselbrink T eds. Oxford University Press, 2017





# EUROPE 2023

Milan, Italy

**June 18–20, 2023**

NH Milano Congress Centre



[www.amp-europe-congress.com](http://www.amp-europe-congress.com)

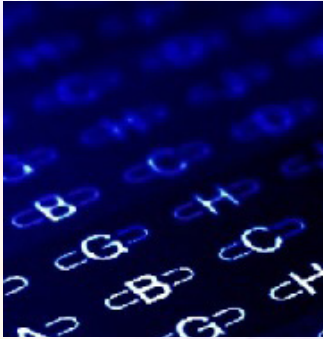


ASSOCIATION  
FOR MOLECULAR  
PATHOLOGY



# RESOURCES

Click on the titles for links:



## [THE FELLOWSHIP IN-SERVICE EXAM \(FISE\) QUESTION BANK](#)

These exam questions were written by MGP faculty from many MGP-Fellowship institutions and cover a range of topics.

For each examination, a total of 45 questions populate from a large question bank. At the end of the exam, participants receive results, an explanation of the correct choice, and references for further information.

## [MOLECULAR IN MY POCKET™](#)

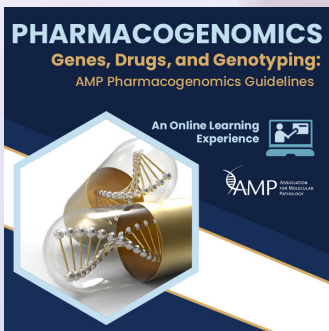
Molecular in My Pocket™ reference card series is for anyone looking to quickly reference molecular diagnostics information in a convenient format.

There are now more than 20 of the popular Molecular in My Pocket cards, available at no cost by downloading from the AMP website.

Cards were assembled, and are reviewed annually, by subject matter experts on the AMP Training and Education Committee.



## [Pharmacogenomics: Genes, Drugs, and Genotyping: AMP Pharmacogenomics Guidelines](#)



This course is an AMP Certificate Program on the introduction to pharmacogenomics and a review of AMP's expert consensus recommendations for standardization of alleles for clinical pharmacogenomic genotyping assays.

Participants can earn a certificate after passing an examination on the content.

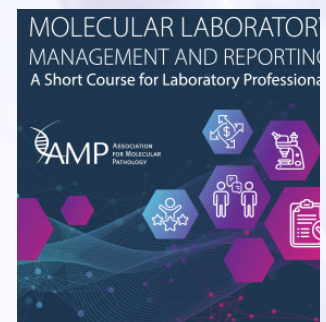
This course is free for AMP members.

## [MOLECULAR LABORATORY MANAGEMENT SHORT COURSE](#)

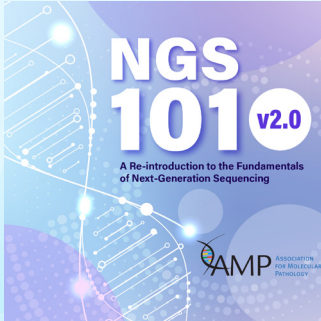
An AMP Certificate Program to provide training in laboratory management and soft skills required for operating clinical molecular laboratories.

It includes approximately 10 hours of lecture content from an expert faculty as well as templates, exercises, and reference materials.

Participants can earn a certificate after passing an examination on the content. This course is offered free for everyone.



# RESOURCES



## NGS101 v2.0 SHORT COURSE

This course is an AMP Certificate Program on the fundamentals of Next-Generation Sequencing. It provides a comprehensive overview on implementing and running NGS in your laboratory. Participants can earn a certificate after passing an examination on the content.

This course is free for AMP members.

## REVIEW FLASHCARDS

Use these flashcards for quick review. We are continually adding more flashcards so check back often.

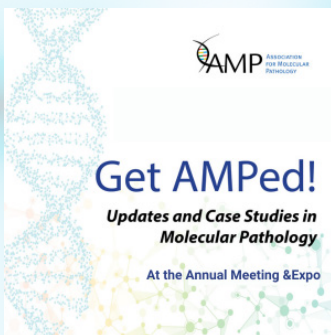
The flashcards are free for AMP members.



## GetAMPed! COURSE

This yearly course is held live the day before the AMP Annual Meeting & Expo.

The course features presentations and case studies designed to update learners on the most current technologies and molecular pathology principles.





# AMP2023

ANNUAL MEETING & EXPO

NOVEMBER 14-18, 2023 • SALT LAKE CITY, UT, USA

[AMP23.AMP.org](https://AMP23.AMP.org)

