

Molecular Pathology Educational Resources

Interactive Teaching Tools

Disclaimer: Please note that AMP's Education Community of Practice (EdCoPs) and AMP do not endorse any particular resource but are providing these resources crowd-sourced from our members as a reference.

Teaching tools:

Real time quizzes/clickers: can assist with interaction and engagement. Apps like "top hat" for interactive quizzes

<https://tophat.com/classroom/classroom-app/>

Case discussion and polls.

Jeopardy style game: for more introductory topics (teams can seem less scary than individuals).

Pre- and post-lecture/rotation tests: help with attention and retaining more lecture. Pretest helps assess where the learner is and allows us to teach to their level. Post-test helps know whether we've done a good job.

Flipped classroom: a more interactive process.

<http://padlet.com/erikatSFSC/flipped>

Interactive Venn-diagrams, methodologies/processes/reactions: residents/fellows can do before or after a lecture to help them apply concepts.

Articulate Storyline software: <https://articulate.com/360>

Medialab: subscription platform for education and you can also build your own competency quizzes.

<https://www.medialab.com/compliance-ce-laboratories>

Molecular Pathology/Laboratory Teaching Curriculum/Courses:

Training Residents in Genomics curriculum:

<https://www.pathologylearning.org/trig>

AMP's Lab Management course: covers a lot of QA/QC, coding, etc. Parts of that would be great for technologists to review. <https://educate.amp.org/local/catalog/view/product.php?productid=203>

NHGRI short course: <https://www.genome.gov/video/2020-NHGRI-Short-Course-in-Genomics>

Other Molecular Pathology Resources:

Illumina training videos: <https://www.illumina.com/science/technology/next-generation-sequencing/beginners.html>

ASCP YouTube lectures: <https://www.youtube.com/user/ASCPChi/featured>



CAP lectures: <https://learn.cap.org/lms/home>

AMP Case Reports in CAP Today: Interesting cases to use as examples
<https://www.captodayonline.com/category/amp-case-reports/>

SeqItOut YouTube series: includes Ion Torrent NGS info among other things. They help understand library prep, emulsion PCR and the actual sequencing
<https://www.youtube.com/watch?v=e2G5zx-OJlw>

Collection of cases with discrepancies or unusual/unexpected results: Example cases with common laboratory questions. Collect some of local cases to show residents. Spurs conversations about limitations of testing and appropriate test utilization.

Cancer Genomic Consortium:
<https://www.cancergenomics.org/>

GENOM:
<https://www.hematology.org/education/educational-programs/genom>

Journal of Clinical Oncology series for HemePath Genomics: short-ish articles.
<https://ascopubs.org/journal/jco/>

Molecular Heme Case Conference: Monthly conference going over interesting heme/molecular case.

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How to join EdCoPs:

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- For "Category" select "Member Interest Group"
- For "Topic" select "EdCoPs Interest Group Discussions"
- Click "Add"
- You're now a member of AMP EdCoPs!
- Send a message introducing yourself to the rest of the group at ampedcops@amp.org