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.  

NHGRI short course:  

Other Molecular Pathology Resources:  

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

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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

https://ascopubs.org/journal/jco/

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

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