

Flex Week Proposal:

Title	Personalized Medicine: The Impact of Molecular Testing on Patient Care	
Experience Category [bold your category]	Clinical shadowing Research-related Community Service	Professional Enrichment Courses (PECs) Professional Development Wellness
Goal	Give medical students an insight to Personalized n=medicine with emphasis on the impact of molecular testing on Patient care	
Brief Description	<p>Personalized medicine applies knowledge of molecular data for early disease detection, targeted treatment, and detection of person’s predisposition to a particular disease. It improves diagnosis and treatment of a disease and advances effectiveness of healthcare.</p> <p>This mini-elective is based in the Department of Pathology and will introduce students to principles and current applications of personalized medicine. During mini-elective students will be able to observe and discuss the principles of molecular testing, become familiar with the clinical interpretation of molecular results in all areas of medicine, including oncology, endocrinology, hematology and gastroenterology.</p> <p>The training will be conducted in the clinical Molecular and Genomic Pathology (MGP) laboratory, Department of Pathology, University of Pittsburgh. MGP laboratory is one of the largest laboratories in the US focused on molecular diagnostics of solid tumors. It processes over 22,000 samples each year using high-throughput technologies, such as Next Generation Sequencing (NGS) and a variety of the conventional molecular biology techniques. It performs molecular testing for all hospitals of the UPMC system and serves as reference laboratory for other medical centers across the United States.</p> <p>The students will be exposed to various molecular tests (required for accurate diagnosis, prognosis and treatment of various types of malignancies including hematolymphoid, thyroid, GI, lung, etc.) and learn their implications for clinical practice. They will have opportunity to learn and observe molecular techniques (nucleic acids isolation, PCR, real-time PCR, Sanger and next generation sequencing, and gene expression profiling, etc.) and become familiar with basic technical, safety and quality control issues pertinent to the clinical molecular testing.</p> <p>The course will be based on presentation of individual real-life cases</p>	

	that illustrate the day to day practice in one of the largest molecular laboratories.
Organizer	Dr. Chiosea, Dr. Aggarwal (co-directors)
Admin Coordinator (contact info)	For issues related to sessions held at Presbyterian Hospital - Lynn Wolkenstein, P: 412-647-7065; F: 412-647-7799; wolkensteinl@upmc.edu For issues related to sessions held at Clinical Laboratory Building – Yelissa Sosa; Clinical Lab Building Rm 8032; 3477 Euler Way Pittsburgh, PA 15213 Division Office: 412-802-6797; F 412-802-6799; sosaya2@upmc.edu
Department	Pathology
Capacity (# students)	5
Location	Two sessions at Department of Anatomic Pathology UPMC Presbyterian 200 Lothrop Street 6A-616 Pittsburgh, PA 15213 One session at Clinical Laboratory Building – Yelissa Sosa; Clinical Lab Building Rm 8032; 3477 Euler Way Pittsburgh, PA 15213
Reporting Info/First Day Location	Yelissa Sosa; Clinical Lab Building Rm 8032; 3477 Euler Way Pittsburgh, PA 15213
Maximum # of students	5
Minimum # of students	4

MS1 (Class of 2028)			
Week	Start Date (Mon)	End Date (Fri)	Available?
5	TUE 9/3/2024	9/6/2024	
12	TUE 10/22/2024	10/25/2024	
26	1/27/2025	1/31/2025	yes
30	2/24/2025	2/28/2025	
59	9/16/2025	9/20/2025	
MS2 (Class of 2027)			
Week	Start Date (Mon)	End Date (Fri)	Available?
59	9/16/24	9/20/24	

70	12/2/2024	12/6/2024	yes
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We will provide the course over 3 days of the week (2 hrs each day) in the weeks of 12/2/24 and 1/27/25. The exact days and times will be communicated (M-Thursday)

Weekly Schedule (5 hours/day with 2 hours synchronous activity; Avg. 25 hours per week)

	MON	TUE	WED	THU	FRI
AM					
PM					

Please be as descriptive as possible as schedule will be made available to students

Schedule splitting: Would it be possible for students to take SOME of the weekly schedule (e.g., just mornings or just a few half-days), or would you prefer that a student take the schedule in its entirety? [bold your choice]	Partial OK Full required
If so above, please designate which parts of your schedule this would impact	Since this will only be 2 hrs for 3 days – we would require the students to attend the program in entirety.

NOTES:

- Schedules should have activities for students at least 5hr/dy, with at least 2hr/dy synchronous
- Unlike PEC's, students will not receive grades/certificates for flex week completion