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Summer 2018

## The Path Report Volume 2 Issue 1

Pathology Department, New York Medical College

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## The Path Report

VOLUME II, ISSUE I

SUMMER 2018

### Spotlight on Research:

### The Genomics Core

The Genomics Core Laboratory at New York Medical College (NYMC), houses Illumina MiSeq and NextSeq short-read sequencing systems, Oxford MinION long-read nanopore sequencing system, Beckman Coulter Biomek FXp automation system, and other next-generation sequencing (NGS)-related equipment. The Genomics Core Laboratory has been conducting NGS-related research and developing a variety of genomics workflows and bioinformatics pipelines to serve the research community for various genomics-related studies.

The NGS services include:

- Whole Genome Sequencing (WGS)
- Whole Exome Sequencing (WES)
- Target gene panel sequencing
- Whole Transcriptome Sequencing (RNAseq)
- Small RNA (or microRNA) sequencing
- Metagenomics or metatranscriptomics sequencing of microbiome
- Sequencing with chromatin immunoprecipitation (ChIP-seq)
- Sequencing RNA-binding protein immunoprecipitation (RIP-seq)
- Other custom-designed sequencings

The bioinformatics services include:

- De novo assembly of genome/transcriptome
- Alignment- and mapping-based analysis of genetic variants
- Differential expression analysis of genes/microRNAs
- Pathway and network analysis of genes
- Species detection & gene identification in microbiome study
- Others with custom instructions and/or requests

Pricing for services can be found here: <https://tinyurl.com/ycx5vhe4>

Genomics Core Laboratory is located at Basic Sciences Building Room 409 at Pathology Department. Investigators are welcome to visit, consult, and request services of genomics and bioinformatics. Please contact Dr. Weihua Huang for more information [(914) 594-3928, [weihua\\_huang@nymc.edu](mailto:weihua_huang@nymc.edu)].

Consultation before sequencing service is strongly recommended.

#### Department Chair

J T Fallon, MD, PhD

#### Research

Z Darzynkiewicz, MD, PhD

N Dimitrova, PhD

J Duan, MD

H Halicka-Ambroziak, MD, PhD

N Haque, PhD

W Huang, PhD

S Jain, PhD

T Kobets, MD, MSPH

A Kumar, PhD

B Mopidevi, PhD

G Williams, MD

D Xu, PhD

C Yin, MD, MS

X Zhou, MD, PhD

#### Clinical

P Adem, MD

A Arnold, PhD

S Barasch, MD

A Belmonte, MD

L Debelenko, MD, PhD

C Gault, MD

S Goriah, MD

L Han, MD, PhD

H Islam, MD, PhD

G Kleinman, MD

C Kumar, PhD

S Narayanan, PhD

T Poon, MD

J Sandhu, MD

F Shakil, MD, PhD

G Wang, MD, PhD

A Yancoskie, DDS

Y Yusuf, MD

X Zhang, MD

H Zhao, PhD

M Zhong, MD, PhD

S Zomorrodian, DO

#### Teaching

C Carbonaro, PhD

P Chander, MD

P Lento, MD

A Mares, MD

F Moy, PhD

C Ojaimi, PhD

M Sutton, MD

#### Active Retired

I Argani, MD

H Godfrey, MD

M Iatropoulos, MD, PhD

R Zachrau, MD

# CONGRATULATIONS!

## Departmental Awards

**Annual Resident Research Award:** Christian Salib, MD, “PD-L1 Protein Expression in Primary vs. Metastatic Lung Adenocarcinoma in Formalin-Fixed, Paraffin-Embedded Tissue”

**Annual Journal Club Award:** Faisal Saeed, MD, “Adaptive Reprogramming of De Novo Pyrimidine Synthesis is a Metabolic Vulnerability in Triple-Negative Breast Cancer”

**Annual QA/QI Project Award:** Taliya Farooq, MD, “Utilizations of Creatine Kinase-MB (Obsolete Test) in Evaluating Patients with Suspected Acute Myocardial Infarction at Westchester Medical Center”

**Annual Resident Teaching Award:** Faisal Saeed, MD & Taliya Farooq, MD

**And . . . The American Society for Clinical Pathology's 40 Under Forty:** Dana Razzano, MD

From left: Dr. Fallon, Dr. Farooq, Dr. Saeed, Dr. Mares, and Dr. Islam.



From left: Dr. Fallon, Dr. Islam, and Dr. Salib.

*Photos courtesy of Ursula Melo*

**Certificate of Research Excellence:** Weihua Huang, PhD

**Certificate of Service Excellence:** Frederick H Moy, PhD

**Certificate of Clinical Excellence:** Patricia V Adem, MD

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## Contact Us:

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