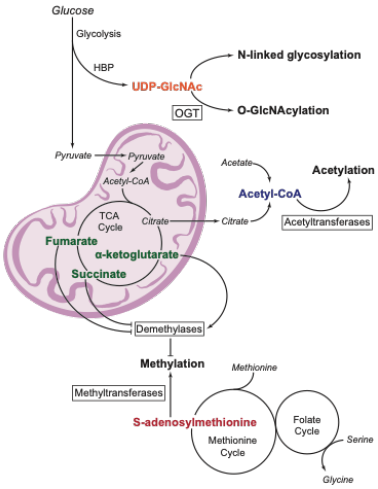
ASRC - City College of New York

Seminar in Biochemistry, Biophysics & Biodesign



View this seminar live via Zoom at:

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ADVANCED SCIENCE RESEARCH CENTER
THE GRADUATE CENTER
CITY UNIVERSITY OF NEW YORK

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Wednesday, October 20, 2021

12:00 – 1:00 PM

Kathryn E. Wellen

Associate Professor and Vice Chair, Dept of Cancer Biology
Abramson Family Cancer Research Institute
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Metabolic compartmentalization and adaptations in cancer

ABSTRACT Cells continually monitor nutrient availability to adapt to their environment and to inform decisions about survival, proliferation, and performance of different functions. Accordingly, many metabolites play crucial roles as signaling molecules, in addition to their functions in energy production and biosynthesis. In this presentation, I will discuss two projects. In the first, I will discuss the application of new methods to assess metabolism in sub-cellular compartments such as the nucleus to glean new insights into mechanisms of crosstalk between metabolism and the epigenome. In the second, I will discuss evidence for engagement of a hexosamine salvage mechanism that cancer cells employ in the face of nutrient deprivation in the tumor microenvironment.