



## The Department of Nutritional Sciences Fall 2020 Seminar Series

### **“Targeting Lipid Metabolism in Cancer”**

**Prof. Dr. Almut Schulze**

Tumour Metabolism and Microenvironment (A410)  
German Cancer Research Center

Host: Harini Sampath, Ph.D.,  
Department of Nutritional Sciences, Rutgers University



**Wednesday, December 2, 2020 2:15 PM**

**Zoom Meeting**

[REGISTER HERE](#)

Lipid synthesis and modification are essential cellular processes that control the conversion of nutrients into metabolic intermediates for membrane biosynthesis, energy storage and production of signalling molecules. Tumours show specific changes in lipid metabolism driven by defined oncogenic events, including the enhanced capacity for the synthesis and modification of fatty acids (FA) induced by the PI3K/AKT/mTORC1 signalling axis. Disruption of this activity leads to imbalance of cellular lipid composition and engages cellular stress response pathways. In this lecture, I will discuss previous and ongoing work regarding the role of cholesterol and mono-unsaturated fatty acids metabolism, as well as alterations in the mevalonate pathway in tumor cell metabolism.



Rutgers University, School of Environmental and Biological Sciences, Department of Sciences is a Continuing Professional Education (CPE) Accredited provider with the Commission on Dietetic Registration (CDR). CDR Credentialed Practitioners will receive 1 Continuing Professional Education units (CPEUs) for completion of this activity. For more information, please contact the DPD Director, Dr. Virginia Quick via email at [vquick@njaes.rutgers.edu](mailto:vquick@njaes.rutgers.edu). CPE Certificate: <https://nutrition.rutgers.edu/CPECertificate.pdf>