

Samuel Taylor

EDUCATION

(Sep. 2015 – Present) | **Tri-Institutional MD-PhD Program**, New York, NY

- M.D., Ph.D., Expected May 2022
- Atkins Research Fellowship, Dean's Diversity and Healthcare Disparity Research Award, AOA Carolyn L. Kuckein Student Research Fellowship
- USMLE Step 1: 266

(Sep. 2010 – May 2014) | **Yale University**, New Haven, CT

- B.A. in Economics, May 2014, Cumulative GPA: 3.9/4.0
- Magna Cum Laude, Mellon Forum Undergraduate Research Grant
- MCAT: 38

MEMBERSHIP AND HONORARY/PROFESSIONAL SOCIETIES

- Member, American Academy of Family Physicians
- Member, American Medical Association
- Member, American College of Surgeons

CERTIFICATIONS/LICENSURE

- BLS Certified, January 12, 2018 exp. January 2020

WORK EXPERIENCE

(May 2013 – Aug. 2013) | **Global Market Research Intern – Alexion Pharmaceuticals**, Cheshire, CT

- Calculated the market sizes for the company's flagship product as well as 2 pipeline drugs in investigational indications; identified \$500MM in potential additional revenue
- Wrote predictive data mining algorithms to identify and prioritize sales leads
- Average hours/week: 50

RESEARCH EXPERIENCE

(Dec. 2017 – Present) | **Graduate Student – Meyer Cancer Center**, New York, NY

- PIs: Lewis Cantley, PhD & Marcus Goncalves, MD PhD
- Studying metabolism and autophagy in tumorigenesis and cancer cachexia
- Average hours/week: 50

(April 2016 – Dec. 2017) | **Atkins Fellow – Memorial Sloan Kettering Cancer Center**, New York, NY

- PI: Robert Downey, MD
- Developed a novel technique of CT and PET image analysis to measure changes in muscle volume and metabolism during chemotherapy in a large group of patients surgically treated for lung cancer at MSK
- Average hours/week: 10

(July 2014 – July 2015) | **NCI Research Fellow – National Cancer Institute (Gress Branch)**, Bethesda, MD

- PI: Daniel Fowler, MD
- Demonstrated that PD-1 regulates a subset of innate lymphoid cells involved in the immune response to parasitic infection as well as in numerous autoimmune diseases
- Demonstrated that CD4+ Th1 cells expressing the transcription factor Tbet negatively modulate the expression of anti-inflammatory regulatory T cells, leading to more severe autoimmune graft-versus-host disease

- Average hours/week: 50

(June 2012 – Aug. 2012) | **Research Fellow – Aurora St. Luke’s Transplant Research Lab**, Milwaukee, WI

- PI: Martin Oaks, MD
- Demonstrated sialylated antibody binding to the DC-SIGN receptor—suggesting that there exists a carbohydrate-mediated switch between inflammatory and immunosuppressive antibodies, possibly aiding tumor immune escape
- Average hours/week: 50

LEADERSHIP/VOLUNTEER EXPERIENCE

(July. 2018 – Present) | **Mentor – Meyer Cancer Center**, New York, NY

- Supervising and teaching undergraduate and early graduate students in lab
- Average hours/week: 8

(Mar. 2018 – Apr. 2018) | **Executive Director – WCMC Clothing Drive**, New York, NY

- Planned, organized, and executed a clothing drive which collected 1200lbs of donations (estimated resale value: \$14000) to help support The Salvation Army’s adult rehabilitation centers in NYC
- Average hours/week: 3

(Nov. 2017 – Apr. 2018) | **Senior Instructor – ACEing Autism**, New York, NY

- Planning drills and coaching children with autism at the National Tennis Center in Queens, NY
- Average hours/week: 3

(Sep. 2015 – Nov. 2017) | **Clinician, Board Member – Weill Cornell Community Clinic**, New York, NY

- Performed as a junior clinician, senior clinician, and ultimately board member for the community clinic
- As clinician: took patient histories, performed exams, instructed junior clinicians, ordered labs/medications, and documented visits in the chart
- As board member: organized referrals with participating specialists, actively sought out new specialists to augment the clinic’s specialist network
- Average hours/week: 1.5

(Sep. 2015 – Dec. 2015) | **Volunteer – Heart to Heart**, New York, NY

- Provided free health screening services to underserved populations in Queens and Brooklyn, NY
- Transported and set up equipment, greeted and registered patients, collected blood samples, and performed exams
- Average hours/week: 5

(Sep. 2011 – May 2014) | **Tutor – Yale Science and Quantitative Reasoning Center**, New Haven, CT

- Tutored Yale students enrolled in economics, organic chemistry, and computer science courses
- Increased test scores by 12% on average
- Average hours/week: 5

PUBLICATIONS

1. **Taylor S**, Ramsamooj J, Liang RJ, et al. Dietary Fructose Improves Intestinal Cell Survival and Nutrient Absorption. *Nature* (Accepted May 2021)
2. Liang RJ, **Taylor S**, Nahiyaan N, et al. 2021. GLUT5 (SLC2A5) enables fructose-mediated proliferation independent of ketohexokinase. *Cancer Metab.* 9(1):12. PMID: 33762003; PMCID: PMC7992954

3. Goncalves MD, Lu C, Tutnauer J, Hartman TE, Hwang SK, Murphy CJ, Pauli C, Morris R, **Taylor S**, Lekaye CL, Roper J, Kim Y, Chen Q, Gross SS, Rhee KY, Cantley LC, Yun J. 2019. High-fructose corn syrup enhances intestinal tumor growth in mice. *Science*, 363(6433):1345-1349. PMID: 30898933; PMCID: 30898933
4. Goncalves MD, **Taylor S**, et al. 2018. Imaging skeletal muscle volume, density, and FDG uptake before and after induction therapy for non-small cell lung cancer. *Clin. Radiol.* 73:505.e1-505.e8. PMID: 29317048; PMCID: PMC6785997
5. **Taylor S**, Huang Y, Mallett G, et al. 2017. PD-1 regulates KLRG1+group 2 innate lymphoid cells. *J Exp Med.* 214(6):1663-1678. PMID: 28490441; PMCID: PMC5461001
6. Amarnath S, Laurence A, Zhu N, Cunha R, Eckhaus MA, **Taylor S**, et al. 2017. Tbet is a critical modulator of FoxP3 expression in autoimmune graft-versus-host disease. *Haematologica.* 102(8):1446-1456. PMID: 28473623; PMCID: PMC5541878
7. Oaks M, **Taylor S**, Shaffer J. 2013. Autoantibodies targeting tumor-associated antigens in metastatic cancer: Sialylated IgGs as candidate anti-inflammatory antibodies. *Oncoimmunology.* 2(6):e24841. PMID: 23894724; PMCID: PMC3716759

PRESENTATIONS

1. **Taylor S**, Halpenny DF, Jones L, Downey R, Goncalves M. (Dec. 2016) A Novel Method for Assessing Cachexia: Insights from the MSKCC Non-Small Cell Lung Cancer Cohort. Oral Presentation at the Joint Atkins Curriculum and Obesity Conference. New York, NY
2. **Taylor S**, Halpenny DF, Jones L, Downey R, Goncalves M. (Oct. 2016) Body Composition Changes during Induction Chemotherapy in Patients with Non-Small Cell Lung Cancer. Poster Presentation at the Weill Cornell Medical College Medical Student Research Day. New York, NY
3. **Taylor S**, Amarnath A, Laurence A, Kanno Y, Sciume G, Eckhaus MA, Fowler DH. (April 2015) Tbet Represses FoxP3 Through Cell Intrinsic and Extrinsic Pathways. Poster Presentation at the NIH Post-Baccalaureate Poster Day. Bethesda, MD
4. **Taylor S**, Shaffer J, Oaks M. (July 2012) Anti-Inflammatory Antibodies and the DC-SIGN Receptor. Oral Presentation at the Aurora Summer Student Research Conference. Milwaukee, WI

SKILLS/INTERESTS

Tennis, alpine and Nordic skiing, sailing (former Yale varsity co-ed skipper), wakeboarding, "Escape the Room"

LANGUAGES

English (native speaker), spanish (conversant)