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### Lab Phone

646-888-2058

### Email

[olsono@sloankettering.edu](mailto:olsono@sloankettering.edu)

### Dissertation

[Mechanisms of Macrophage-Mediated Chemoprotection in Breast Cancer \(2016\)](#)

## Mentor

Johanna Joyce, PhD

## Start Year

2009

## End Year

2016

## Education

Brown University

Graduate study is hopefully just the beginning of a long, successful scientific career. It is important to identify your career goals and then determine which subset is relevant to your graduate study and what should be saved for later postdoctoral training or your time as a PI. I chose Gerstner Sloan Kettering for my graduate study because of the unique research culture of Memorial Sloan Kettering. Cancer as an integrating framework has exposed me to many topics of basic and translational research that I may have been isolated from at a different institution. GSK capitalizes on this culture with the core curriculum, which focuses on learning directly from the majority of the investigators at the institute. Plus, the location in New York City contributes to the extent and quality of visiting scientist seminars — and you'll always get a steady flow of visitors!

## Fellowships

[Ruth L. Kirschstein Predoctoral Individual National Research Service Award \(NIH F31\)](#) (2012-2016)

Grayer Fellowship (2011-2012)

Geoffrey Beene Graduate Student Fellowship (2010-2011)

## Publications

[Quail DF, Olson OC, Bhardwaj P, Walsh LA, Akkari L, Quick ML, Chen IC, Wendel N, Ben-Chetrit N, Walker J, Holt PR, Dannenberg AJ, Joyce JA. \(2017\) Obesity alters the lung myeloid cell landscape to enhance breast cancer metastasis through IL5 and GM-CSF. \*Nat Cell Biol.\* 19, 974-987.](#)

[Prudova A, Gocheva V, Auf dem Keller U, Eckhard U, Olson OC, Akkari L, Butler GS, Fortelny N, Lange PF, Mark JC, Joyce JA, Overall CM. \(2016\) TAILS N-Terminomics and Proteomics Show Protein Degradation Dominates over Proteolytic Processing by Cathepsins in Pancreatic Tumors. \*Cell Rep.\*, 16, 1762-73.](#)

[Olson OC, Joyce JA. \(2015\) Cysteine cathepsin proteases: regulators of cancer progression and therapeutic response. \*Nature reviews. Cancer.\* 15, 712-29.](#)

[Hughes R, Qian BZ, Rowan C, Muthana M, Keklikoglou I, Olson OC, Tazzyman S, Danson S, Addison C, Clemons M, Gonzalez-Angulo AM, Joyce JA, De Palma M, Pollard JW, Lewis CE. \(2015\) Perivascular M2 Macrophages Stimulate Tumor Relapse after Chemotherapy. \*Cancer Res.\* 75, 3479-91.](#)

[Olson O, Joyce J. \(2013\) A splicing twist on metastasis. \*Sci Transl Med.\* 23, 1-3.](#)

[Pyonteck S, Akkari L, Schuhmacher A, Bowman R, Sevenich L, Quail D, Olson O, Quick M, Huse J, Teixeira V, Setty M, Leslie C, Oei Y, Pedraza A, Zhang J, Brennan C, Sutton J, Holland E, Daniel D, Joyce J. \(2013\) CSF-1R inhibition alters macrophage polarization and blocks glioma progression. \*Nat Med.\* 19, 1264-1272. PMID: PMC3840724.](#)

[Olson O, Joyce J. \(2013\) Microenvironment-mediated resistance to anticancer therapies. \*Cell Res.\* 23, 179-181. PMID: PMC3567818.](#)

[Shree T, Olson O, Elie B, Kester J, Garfall A, Simpson K, Bell-McGuinn K, Zabor E, Brogi E, Joyce J. \(2011\) Macrophages and cathepsin proteases blunt chemotherapeutic response in breast cancer. \*Genes Dev.\* 25, 2465-2479. PMID: PMC3243057.](#)

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