Curriculum Vitae

Name	**James Moon, PhD**
Current Position & Affiliation	**John Gideon Searle Associate Professor Department of Pharmaceutical Sciences Department of Biomedical Engineering University of Michigan, Ann Arbor**
Country	**USA**

Educational Background

1998- 2002	B.S., Bioengineering, Univ. of California at Berkeley, CA. Advisor: Dr. Song Li & Dr. Luke Lee
2003- 2008	Ph.D., Bioengineering, Rice University, Houston, TX. Advisor: Dr. Jennifer West Dissertation: Synthesis of Biomimetic Hydrogels for Neovascularization in vivo.
2008- 2012	Postdoctoral Associate. Advisor: Dr. Darrell Irvine Materials Science & Engineering and Biological Engineering, MIT/HHMI, Cambridge, MA

Professional Experience

2018- present	John Gideon Searle Associate Professor, with tenure, Department of Pharmaceutical Sciences, College of Pharmacy, University of Michigan, Ann Arbor, MI.
2018- present	Associate Professor, Department of Biomedical Engineering, without tenure, College of Engineering, University of Michigan, Ann Arbor, MI
2016- present	EVOQ Therapeutics, LLC. Co-Founder and Chief Scientific Officer.
2016- present	Member, Graduate Program in Immunology, University of Michigan
2012- 2018	John Gideon Searle Assistant Professor, Department of Pharmaceutical Sciences, College of Pharmacy, University of Michigan, Ann Arbor, MI.

2012- 2018 Assistant Professor, Department of Biomedical Engineering, College of Engineering, University of Michigan, Ann Arbor, MI.

Main Scientific Publications

PUBLICATIONS (> 95 publications, > 8300 Google Scholar Citations, *h*-index = 41)

https://scholar.google.com/citations?hl=en&user=A_sDT6oAAAAJ

1. Park KS, Sun X, Aikins ME, **Moon JJ**§. Non-viral COVID-19 vaccine delivery systems, In Press, **Advanced Drug Delivery Reviews**.
2. Nam J, Son S, Park KS, **Moon JJ**§. Modularly programmable nanoparticle vaccine based on polyethyleneimine for personalized cancer immunotherapy, In Press, **Advanced Science**.
3. Aikins ME, Xu C, **Moon JJ**§. Engineered Nanoparticles for Cancer Vaccination and Immunotherapy. doi.org/10.1021/acs.accounts.0c00456, 2020, **Accounts of Chemical Research**.
4. Xu C, Hong H, Lee Y, Park KS, Sun M, Wang T, Aikins ME, Xu Y, **Moon JJ**§. Efficient Lymph Node-Targeted Delivery of Personalized Cancer Vaccines with Reactive Oxygen Species-Inducing Reduced Graphene Oxide Nanosheets. doi.org/10.1021/acsnano.0c05062, 2020, **ACS Nano**.
5. Scheetz L*, Kadiyala P*, Sun X*, Son S, Najafabadi AH, Aikins, M, Lowenstein PR, Schwendeman A§, Castro MG§, **Moon JJ**§. Synthetic high-density lipoprotein nanodiscs for personalized immunotherapy against gliomas. doi: 10.1158/1078-0432.CCR-20-0341, 2020, **Clinical Cancer Research**.
6. Lee Y, Sugihara K, Gillilland MG 3rd, Jon S, Kamada N, **Moon JJ**§. Hyaluronic acid–bilirubin nanomedicine for targeted modulation of dysregulated intestinal barrier, microbiome and immune responses in colitis. 19, 1, 118-126, 2020, **Nature Materials**.
7. Scheetz L*, Park KS*, Li Q, Lowenstein PR, Castro MG, Schwendeman A, **Moon JJ**§. Engineering patient-specific cancer immunotherapies. 3, 10, 768-782, 2019, **Nature Biomedical Engineering**.
8. Nam J*, Son S*, Park KS, Zou W, Shea L, **Moon JJ**§. Cancer nanomedicine for combination cancer immunotherapy. 4, 398-414, 2019, **Nature Reviews Materials**.
9. Kuai R*, Yuan W*, Xu Y, Fan Y, Schwendeman A§, **Moon JJ**§. Elimination of established tumors with nanodisc-based combination chemoimmunotherapy. 4,4, eaao1736, 2018, **Science Advances.**
10. Nam J*, Son S*, Ochyl LJ, Kuai R, Schwendeman A, and **Moon JJ**§. Chemo-photothermal therapy combination elicits anti-tumor immunity against advanced metastatic cancer. 9, 1, 1074, 2018, **Nature Communications.**

11. Kuai R, Ochyl LJ, Bahjat KS, Schwendeman A[§] and **Moon JJ[§].** Designer vaccine nanodiscs for personalized cancer immunotherapy. 16, 4, 489-496, 2017, **Nature Materials**. [§]Co-corresponding authors.
12. Li AV*, **Moon JJ***, Abraham W, Elkhader J, Suh K, Yen M, Im EJ, Barouch DH, and Irvine DJ. Generation of robust effector memory T-cell-based mucosal and systemic immunity with pulmonary nanoparticle vaccination. 5, 204, 204ra130, 2013, **Science Translational Medicine**. *Authors contributed equally.
13. **Moon JJ**, Suh H, Li AV, Ockenhouse CF, Yadava A, and Irvine DJ. Enhancing humoral responses to a malaria antigen with nanoparticle vaccines that expand Tfh cells and promote germinal center induction, 109, 1080-5, 2012, **PNAS.**
14. **Moon JJ**, Suh H, Bershteyn A, Stephan MT, Liu H, Huang B, Sohail M, Luo S, Um SH, Chiu W, and Irvine DJ. Interbilayer-crosslinked multilamellar vesicles for potent humoral and cellular immune responses, 10, 243-251, 2011, **Nature Materials.**
15. Stephan MT, **Moon JJ**, Um SH, Bershteyn A, and Irvine DJ. Therapeutic cell engineering with surface-conjugated synthetic nanoparticles, 16, 1035-41, 2010, **Nature Medicine.**