

# Stanford

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## Amin Aalipour

- MD Student, expected graduation Spring 2021
- Ph.D. Student in Bioengineering, admitted Spring 2016
- MSTP Student

### Bio

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#### HONORS AND AWARDS

- NIH F30 National Research Service Award, National Cancer Institute (2019)
- Paul & Daisy Soros Fellowship for New Americans, Paul & Daisy Soros Foundation (2017)
- Bio-X Graduate Student Fellowship, Stanford University (2017)
- Molecular Imaging Young Investigator Prize Finalist, Stanford University (2017)
- Frederick E. Terman Award for Scholastic Achievement in Engineering, Stanford University (2014)
- Welton J. Crook Award, Stanford Dept. of Materials Science & Engineering (2014)
- Barry M. Goldwater Scholarship, Barry M. Goldwater Foundation (2013)
- Tau Beta Pi Early Inductee, Stanford University (2012)
- President's Award for Academic Excellence, Stanford University (2011)

#### EDUCATION AND CERTIFICATIONS

- Master of Science, Stanford University , Management Science and Engineering (2014)
- Bachelor of Science, Stanford University , Materials Science and Engineering (2014)

### Publications

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#### PUBLICATIONS

- **Engineered immune cells as highly sensitive cancer diagnostics.** *Nature biotechnology*  
Aalipour, A., Chuang, H. Y., Murty, S., D'Souza, A. L., Park, S. M., Gulati, G. S., Patel, C. B., Beinat, C., Simonetta, F., Martini#, I., Gowrishankar, G., Robinson, E. R., Aalipour, et al  
2019
- **Equity more likely in diverse labs** *NATURE*  
Aalipour, A.  
2018; 563 (7732): 473
- **An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo.** *Nature biomedical engineering*  
Vermesh, O., Aalipour, A., Ge, T. J., Saenz, Y., Guo, Y., Alam, I. S., Park, S., Adelson, C. N., Mitsutake, Y., Vilches-Moure, J., Godoy, E., Bachmann, M., Ooi, et al  
2018; 2: 696–705
- **Towards clinically translatable in vivo nanodiagnostics** *Nature Reviews Materials*  
Park, S., Aalipour, A., Vermesh, O., Yu, J., Gambhir, S. S.  
2017; 2

- **Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA.** *Clinical chemistry*  
Aalipour, A., Dudley, J. C., Park, S. M., Murty, S., Chabon, J. J., Boyle, E. A., Diehn, M., Gambhir, S. S.  
2017
- **Temporally resolved direct delivery of second messengers into cells using nanostraws** *LAB ON A CHIP*  
Xu, A. M., Kim, S. A., Wang, D. S., Aalipour, A., Melosh, N. A.  
2016; 16 (13): 2434-2439
- **Molecular profiling of single circulating tumor cells from lung cancer patients** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Park, S., Wong, D. J., Ooi, C., Kurtz, D. M., Vermesh, O., Aalipour, A., Suh, S., Pian, K. L., Chabon, J. J., Lee, S., Jamali, M., Say, C., Carter, et al  
2016; 113 (52): E8379–E8386
- **Determining the Time Window for Dynamic Nanowire Cell Penetration Processes.** *ACS nano*  
Xie, X., Aalipour, A., Gupta, S. V., Melosh, N. A.  
2015; 9 (12): 11667–77
- **Plasma membrane and actin cytoskeleton as synergistic barriers to nanowire cell penetration.** *Langmuir*  
Aalipour, A., Xu, A. M., Leal-Ortiz, S., Garner, C. C., Melosh, N. A.  
2014; 30 (41): 12362-12367
- **Bruton's tyrosine kinase inhibitors and their clinical potential in the treatment of B-cell malignancies: focus on ibrutinib.** *Therapeutic advances in hematology*  
Aalipour, A., Advani, R. H.  
2014; 5 (4): 121-133
- **Quantification of nanowire penetration into living cells.** *Nature communications*  
Xu, A. M., Aalipour, A., Leal-Ortiz, S., Mekhdjian, A. H., Xie, X., Dunn, A. R., Garner, C. C., Melosh, N. A.  
2014; 5: 3613-?
- **Bruton tyrosine kinase inhibitors: a promising novel targeted treatment for B cell lymphomas.** *British journal of haematology*  
Aalipour, A., Advani, R. H.  
2013; 163 (4): 436-443