

# Stanford

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## Mehmet Ozen

Postdoctoral Research Fellow, Radiology

### Bio

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#### HONORS AND AWARDS

- Size-based Isolation of EVs from iPSC-CM for Diagnosis of Cardiomyopathies, 2018 Seed Grant Competition: Postdocs at the Interface (August 2018- July 2019)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Ege University (2015)

#### STANFORD ADVISORS

- Utkan Demirci, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### LAB AFFILIATIONS

- Utkan Demirci, Bamm Labs (9/1/2015)

### Publications

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#### PUBLICATIONS

- **Total Microfluidic chip for Multiplexed diagnostics (ToMMx).** *Biosensors & bioelectronics*  
Ozen, M. O., Sridhar, K., Ogut, M. G., Shanmugam, A., Avadhani, A. S., Kobayashi, Y., Wu, J. C., Haddad, F., Demirci, U.  
2020; 150: 111930
- **Utility of High-Sensitivity and Conventional Troponin in Patients Undergoing Transcatheter Aortic Valve Replacement: Incremental Prognostic Value to B-type Natriuretic Peptide.** *Scientific reports*  
Kobayashi, Y., Kim, J. B., Moneghetti, K. J., Fischbein, M., Lee, A., Watkins, C. A., Yeung, A. C., Liang, D., Ozen, M. O., Demirci, U., Bowen, R., Fearon, W. F., Haddad, et al  
2019; 9 (1): 14936
- **Multi-stimuli-responsive programmable biomimetic actuator.** *Nature communications*  
Dong, Y., Wang, J., Guo, X., Yang, S., Ozen, M. O., Chen, P., Liu, X., Du, W., Xiao, F., Demirci, U., Liu, B.  
2019; 10 (1): 4087
- **Loss of Endothelium-Derived Wnt5a Is Associated With Reduced Pericyte Recruitment and Small Vessel Loss in Pulmonary Arterial Hypertension** *CIRCULATION*  
Yuan, K., Shamskhov, E. A., Orcholski, M. E., Nathan, A., Reddy, S., Honda, H., Mani, V., Zeng, Y., Ozen, M. O., Wang, L., Demirci, U., Tian, W., Nicolls, et al  
2019; 139 (14): 1710–24
- **INDEPENDENT PROGNOSTIC VALUES OF CLINICAL RISK SCORES, RIGHT VENTRICULAR SYSTOLIC PRESSURE, AND N-TERMINAL PRO-B-TYPE PEPTIDE IN HEART FAILURE WITH PRESERVED EJECTION FRACTION: INSIGHTS FROM SUPERVISED AND UNSUPERVISED MODELS**

Tremblay-Gravel, M., Kobayashi, Y., Boralkar, K., Li, X., Bouajila, S., Nishi, T., Amsallem, M., Moneghetti, K., Selej, M., Ozen, M., Demirci, U., Ashley, E. A., Wheeler, et al

ELSEVIER SCIENCE INC.2019: 718

● **Approaching Higher Dimension Imaging Data Using Cluster-Based Hierarchical Modeling in Patients with Heart Failure Preserved Ejection**

**Fraction.** *Scientific reports*

Kobayashi, Y., Tremblay-Gravel, M., Boralkar, K. A., Li, X., Nishi, T., Amsallem, M., Moneghetti, K. J., Bouajila, S., Selej, M., Ozen, M. O., Demirci, U., Ashley, E., Wheeler, et al

2019; 9 (1): 10431

● **Real-time Biosensing of Proteins on a DVD Nanoplasmonic Grating**

Ahmed, R., Ozen, M., Inci, F., Karaaslan, M., Henrich, T. J., Demirci, U., VoDinh, T., Ho, H. P., Ray, K.

SPIE-INT SOC OPTICAL ENGINEERING.2019

● **A Novel On-Chip Method for Differential Extraction of Sperm in Forensic Cases** *ADVANCED SCIENCE*

Inci, F., Ozen, M. O., Saylan, Y., Miansari, M., Cimen, D., Dhara, R., Chinnasamy, T., Yuksekkaya, M., Filippini, C., Kumar, D., Calamak, S., Yesil, Y., Durmus, et al

2018; 5 (9): 1800121

● **Investigation of in vitro digestibility of dietary microalga *Chlorella vulgaris* and cyanobacterium *Spirulina platensis* as a nutritional supplement** *BIOTECH*

Kose, A., Ozen, M. O., Elibol, M., Oncel, S. S.

2017; 7: 170

● **High-throughput Characterization of HIV-1 Reservoir Reactivation Using a Single-Cell-in-Droplet PCR Assay.** *EBioMedicine*

Yucha, R. W., Hobbs, K. S., Hanhauser, E., Hogan, L. E., Nieves, W., Ozen, M. O., Inci, F., York, V., Gibson, E. A., Thanh, C., Shafiee, H., El Assal, R., Kiselinova, et al

2017

● **Biocompatible polymeric coatings do not inherently reduce the cytotoxicity of iron oxide nanoparticles** *Turkish Journal of Biology*

SENDEM#R URKMEZ, A., BAYIR, E., BILGI, E., OZEN, M. O.

2017; 41: 322-332

● **Monitoring Neutropenia for Cancer Patients at the Point of Care.** *Small methods*

Inan, H., Kingsley, J. L., Ozen, M. O., Tekin, H. C., Hoerner, C. R., Imae, Y., Metzner, T. J., Preiss, J. S., Durmus, N. G., Ozsoz, M., Wakelee, H., Fan, A. C., Tüzel, et al

2017; 1 (9)

● **Biocompatible polymeric coatings do not inherently reduce the cytotoxicity of iron oxide nanoparticles** *TURKISH JOURNAL OF BIOLOGY*

Sendemir Urkmez, A., Bayir, E., Bilgi, E., Ozen, M. O.

2017; 41 (2): 322-332

● **Advances in biosensing strategies for HIV-1 detection, diagnosis, and therapeutic monitoring** *ADVANCED DRUG DELIVERY REVIEWS*

Lifson, M. A., Ozen, M. O., Inci, F., Wang, S., Inan, H., Baday, M., Henrich, T. J., Demirci, U.

2016; 103: 90-104

● **Engineering long shelf life multilayer biologically active surfaces on microfluidic devices for point of care applications** *SCIENTIFIC REPORTS*

Asghar, W., Yuksekkaya, M., Shafiee, H., Zhang, M., Ozen, M. O., Inci, F., Kocakulak, M., Demirci, U.

2016; 6

● **Supercritical fluid extraction of phycocyanin and investigation of cytotoxicity on human lung cancer cells** *JOURNAL OF SUPERCRITICAL FLUIDS*

Deniz, I., Ozen, M. O., Yesil-Celiktas, O.

2016; 108: 13-18

● **Screening of cytotoxic and antimicrobial activity potential of Anatolian *Macrovipera lebetina obtusa* (Ophidia: Viperidae) crude venom** *FRONTIERS IN LIFE SCIENCE*

Ozen, M. O., Igci, N., Yalcin, H. T., Gocmen, B., Nalbantsoy, A.

2015; 8 (4): 363-370

● **Multitarget, quantitative nanoplasmonic electrical field-enhanced resonating device (NE2RD) for diagnostics.** *Proceedings of the National Academy of Sciences of the United States of America*

Inci, F., Filippini, C., Baday, M., Ozen, M. O., Calamak, S., Durmus, N. G., Wang, S., Hanhauser, E., Hobbs, K. S., Juillard, F., Kuang, P. P., Vetter, M. L., Carocci, et al  
2015; 112 (32): E4354-63

- **Effect of Ottoman Viper (*Montivipera xanthina* (Gray, 1849)) Venom on Various Cancer Cells and on Microorganisms** *CYTOTECHNOLOGY*  
Yalcin, H. T., Ozen, M. O., Gocmen, B., Nalbantsoy, A.  
2014; 66 (1): 87-94