

# Stanford

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## Josquin Foiret

Instructor, Radiology - Rad/Molecular Imaging Program at Stanford

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#### ACADEMIC APPOINTMENTS

- Instructor, Radiology - Rad/Molecular Imaging Program at Stanford

#### PROFESSIONAL EDUCATION

- Ph.D., Pierre and Marie Curie University, Paris, France , Biomedical Engineering (2013)
- M.S., Denis Diderot University, Paris, France , Physical Acoustics (2009)
- B.S., Denis Diderot University, Paris, France , Physics (2007)

### Publications

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#### PUBLICATIONS

- **Tumor-specific delivery of gemcitabine with activatable liposomes.** *Journal of controlled release : official journal of the Controlled Release Society*  
Tucci, S. T., Kheirloom, A., Ingham, E. S., Mahakian, L. M., Tam, S. M., Foiret, J., Hubbard, N. E., Borowsky, A. D., Baikoghli, M., Cheng, R. H., Ferrara, K. W.  
2019
- **Localized nanodelivery combined with immunotherapy promotes curative anti-tumor responses in a murine breast cancer model**  
Kheirloom, A., Silvestrini, M. T., Ingham, E. S., Mahakian, L. M., Tam, S. M., Tumbale, S. K., Foiret, J., Hubbard, N. E., Borowsky, A. D., Murphy, W. J., Ferrara, K. W.  
AMER ASSOC CANCER RESEARCH.2019
- **Activatable nanodelivery of high payload gemcitabine augments therapeutic efficacy in murine breast and pancreatic cancer models**  
Tucci, S. T., Kheirloom, A., Ingham, E. S., Mahakian, L. M., Tam, S. M., Foiret, J., Hubbard, N. E., Borowsky, A. D., Baikoghli, M., Cheng, R., Ferrara, K. W.  
AMER ASSOC CANCER RESEARCH.2019
- **Combining activatable nanodelivery with immunotherapy in a murine breast cancer model** *JOURNAL OF CONTROLLED RELEASE*  
Kheirloom, A., Silvestrini, M. T., Ingham, E. S., Mahakian, L. M., Tam, S. M., Tumbale, S. K., Foiret, J., Hubbard, N. E., Borowsky, A. D., Ferrara, K. W.  
2019; 303: 42–54
- **Combining activatable nanodelivery with immunotherapy in a murine breast cancer model.** *Journal of controlled release : official journal of the Controlled Release Society*  
Kheirloom, A., Silvestrini, M. T., Ingham, E. S., Mahakian, L. M., Tam, S. M., Tumbale, S. K., Foiret, J., Hubbard, N. E., Borowsky, A. D., Ferrara, K. W.  
2019
- **Nonviral ultrasound-mediated gene delivery in small and large animal models.** *Nature protocols*  
Bez, M., Foiret, J., Shapiro, G., Pelled, G., Ferrara, K. W., Gazit, D.  
2019
- **Simultaneous Axial Multifocal Imaging Using a Single Acoustical Transmission: A Practical Implementation** *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*

- Ilovitsh, A., Ilovitsh, T., Foiret, J., Stephens, D. N., Ferrara, K. W.  
2019; 66 (2): 273–84
- **Enhanced microbubble contrast agent oscillation following 250kHz insonation.** *Scientific reports*  
Ilovitsh, T., Ilovitsh, A., Foiret, J., Caskey, C. F., Kusunose, J., Fite, B. Z., Zhang, H., Mahakian, L. M., Tam, S., Butts-Pauly, K., Qin, S., Ferrara, K. W.  
2018; 8 (1): 16347
  - **Imaging beyond ultrasonically-impenetrable objects** *SCIENTIFIC REPORTS*  
Ilovitsh, T., Ilovitsh, A., Foiret, J., Ferrara, K. W.  
2018; 8: 5759
  - **Acoustical structured illumination for super-resolution ultrasound imaging.** *Communications biology*  
Ilovitsh, T., Ilovitsh, A., Foiret, J., Fite, B. Z., Ferrara, K. W.  
2018; 1
  - **Modular fabrication and assembly of large 2D arrays with interface ASICs, PIN-PMN-PT composite, and 3D printed backing**  
Wodnicki, R., Kang, H., Adhikari, J., Jung, H., Chen, R., Chen, Z., Jiang, L., Cabrera-Munoz, N., Zhang, R., Liu, Y., Chiu, V., Foiret, J., Stephens, et al  
IEEE.2018
  - **Ultrasound localization microscopy to image and assess microvasculature in a rat kidney** *SCIENTIFIC REPORTS*  
Foiret, J., Zhang, H., Ilovitsh, T., Mahakian, L., Tam, S., Ferrara, K. W.  
2017; 7: 13662
  - **Dynamic contrast enhanced MRI detects changes in vascular transport rate constants following treatment with thermally-sensitive liposomal doxorubicin** *JOURNAL OF CONTROLLED RELEASE*  
Fite, B. Z., Kheirrolomoom, A., Foiret, J. L., Seo, J. W., Mahakian, L. M., Ingham, E. S., Tam, S. M., Borowsky, A. D., Curry, F. E., Ferrara, K. W.  
2017; 256: 203–13
  - **Supersonic transient magnetic resonance elastography for quantitative assessment of tissue elasticity** *PHYSICS IN MEDICINE AND BIOLOGY*  
Liu, Y., Liu, J., Fite, B. Z., Foiret, J., Ilovitsh, A., Leach, J., Dumont, E., Caskey, C. F., Ferrara, K. W.  
2017; 62 (10): 4083–4106
  - **In vitro characterization and in vivo ultrasound molecular imaging of nucleolin-targeted microbubbles** *BIOMATERIALS*  
Zhang, H., Ingham, E. S., Gagnon, M. J., Mahakian, L. M., Liu, J., Foiret, J. L., Willmann, J. K., Ferrara, K. W.  
2017; 118: 63–73
  - **Development of a spherically focused phased array transducer for ultrasonic image-guided hyperthermia** *PHYSICS IN MEDICINE AND BIOLOGY*  
Liu, J., Foiret, J., Stephens, D. N., Le Baron, O., Ferrara, K. W.  
2016; 61 (14): 5275–96
  - **HIFU Power Network Optimization for Catheter Based Cardiac Interventions**  
Stephens, D. N., Foiret, J., Lucero, S., Ferrara, K. W., Shivkumar, K., Khuri-Yakub, P., IEEE  
IEEE.2016
  - **10 MHz Catheter-based Annular Array for Thermal Strain Guided Intramural Cardiac Ablations**  
Stephens, D. N., Foiret, J., Lucero, S., Ferrara, K. W., Shivkumar, K., Khuri-Yakub, P., IEEE  
IEEE.2015