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Bio

CLINICAL FOCUS

- Radiation Oncology

ACADEMIC APPOINTMENTS

- Instructor, Radiation Oncology - Radiation Therapy

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Radiation Oncology (2023) CA
- Internship: University of North Dakota School of Medicine (2019) ND
- Medical Education: University of Colorado School of Medicine (2018) CO

Publications

PUBLICATIONS

- **Predicting Adverse Cardiac Events After Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer.** *JACC. CardioOncology*
No, H. J., Guo, F. B., Park, N. J., Kastelowitz, N., Rhee, J. W., Clark, D. E., Chin, A. L., Vitzthum, L. K., Horst, K. C., Moding, E. J., Loo, B. W., Diehn, M., Binkley, et al
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- **Radiation Therapy for Primary Cutaneous Gamma Delta Lymphoma Prior to Stem Cell Transplantation.** *Cancer investigation*
Wu, Y. F., Skinner, L., Lewis, J., Khodadoust, M. S., Kim, Y. H., Kwong, B. Y., Weng, W., Hoppe, R. T., Sodji, Q., Hui, C., Kastelowitz, N., Fernandez-Pol, S., Hiniker, et al
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- **Impact of Radiation Dose on Postoperative Complications in Esophageal and Gastroesophageal Junction Cancers** *FRONTIERS IN ONCOLOGY*
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- **Impact of Radiation Dose on Postoperative Complications in Esophageal and Gastroesophageal Junction Cancers.** *Frontiers in oncology*

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- **Continuing Medical Student Education During the Coronavirus Disease 2019 (COVID-19) Pandemic: Development of a Virtual Radiation Oncology Clerkship.** *Advances in radiation oncology*
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2020; 5 (4): 732–36
- **Virtual Radiation Oncology Clerkship During the COVID-19 Pandemic and Beyond.** *International journal of radiation oncology, biology, physics*
Sandhu, N., Frank, J., von Eyben, R., Miller, J., Obeid, J., Kastelowitz, N., Panjwani, N., Soltys, S., Bagshaw, H. P., Donaldson, S. S., Horst, K., Beadle, B. M., Chang, et al
2020; 108 (2): 444–51
- **Impact of radiation dose during neoadjuvant chemoradiation on postoperative complications in esophageal (EC) and gastroesophageal junction cancers (GEJC).**
Kastelowitz, N., Marsh, M. D., McCarter, M., Meguid, R. A., Schefter, T. E., Rooke, D. A., Stumpf, P., Leong, S., Messersmith, W. A., Lieu, C., Leal, A., Davis, S., Purcell, et al
AMER SOC CLINICAL ONCOLOGY.2019
- **Ice-Liquid Oscillations in Nanoconfined Water** *ACS NANO*
Kastelowitz, N., Molinero, V.
2018; 12 (8): 8234–39
- **An iterative computational design approach to increase the thermal endurance of a mesophilic enzyme** *BIOTECHNOLOGY FOR BIOFUELS*
Sammond, D. W., Kastelowitz, N., Donohoe, B. S., Alahuhta, M., Lunin, V. V., Chung, D., Sarai, N. S., Yin, H., Mittal, A., Himmel, M. E., Guss, A. M., Bomble, Y. J.
2018; 11: 189
- **Peptides derived from MARCKS block coagulation complex assembly on phosphatidylserine** *SCIENTIFIC REPORTS*
Kastelowitz, N., Tamura, R., Onasoga, A., Stalker, T. J., White, O. R., Brown, P. N., Brodsky, G. L., Brass, L. F., Branchford, B. R., Di Paola, J., Yin, H.
2017; 7: 4275
- **Comparing Residue Clusters from Thermophilic and Mesophilic Enzymes Reveals Adaptive Mechanisms** *PLOS ONE*
Sammond, D. W., Kastelowitz, N., Himmel, M. E., Yin, H., Crowley, M. F., Bomble, Y. J.
2016; 11 (1): e0145848
- **MARCKS ED Inhibits Fibrin Formation By Blocking Coagulation Protein Complex Assembly on Phosphatidylserine**
Kastelowitz, N., Jarvis, A., White, O. R., Brown, P. N., Brodsky, G., Tamura, R., Di Paola, J. A., Yin, H.
AMER SOC HEMATOLOGY.2015
- **Specific activation of the TLR1-TLR2 heterodimer by small-molecule agonists** *SCIENCE ADVANCES*
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2015; 1 (3)
- **Peptide inhibitors of coagulation factor complex assembly**
Kastelowitz, N., Yin, H.
AMER CHEMICAL SOC.2015
- **Specific activation of the TLR1-TLR2 heterodimer by small-molecule agonists.** *Science advances*
Cheng, K., Gao, M., Godfroy, J. I., Brown, P. N., Kastelowitz, N., Yin, H.
2015; 1 (3)
- **Vapor deposition of water on graphitic surfaces: Formation of amorphous ice, bilayer ice, ice I, and liquid water** *JOURNAL OF CHEMICAL PHYSICS*
Lupi, L., Kastelowitz, N., Molinero, V.
2014; 141 (18): 18C508
- **Exosomes and Microvesicles: Identification and Targeting By Particle Size and Lipid Chemical Probes** *CHEMBIOCHEM*
Kastelowitz, N., Yin, H.
2014; 15 (7): 923–28

- **Experimental Investigations of Single Liposome to Supported Bilayer Binding Events**

Ballast, A., Kastelowitz, N., Yin, H., Spendier, K.

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- **Changes in lipid density induce membrane curvature** *RSC ADVANCES*

de Jesus, A. J., Kastelowitz, N., Yin, H.

2013; 3 (33): 13622–25

- **Liquid to quasicrystal transition in bilayer water** *JOURNAL OF CHEMICAL PHYSICS*

Johnston, J. C., Kastelowitz, N., Molinero, V.

2010; 133 (15): 154516

- **The anomalously high melting temperature of bilayer ice** *JOURNAL OF CHEMICAL PHYSICS*

Kastelowitz, N., Johnston, J. C., Molinero, V.

2010; 132 (12): 124511

- **PHYS 295-Multiple ice phases in hydrophobic confinement**

Kastelowitz, N., Molinero, V.

AMER CHEMICAL SOC.2009