

Sanna Elizabeth Herwald

- Affiliate, Dean's Office Operations - Dean Other
- Resident in Radiology

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Sanna Herwald received her M.D. and Ph.D. degrees from Tufts University. Her Ph.D. research in the field of Microbiology focused on the opportunistic fungal pathogen *Candida albicans*. During her time in the M.D.-Ph.D. program she discovered her interest in Radiology, and the possibilities for visualizing the interaction between microorganisms and the human body.

PROFESSIONAL EDUCATION

- Internship, California Pacific Medical Center , Internal Medicine (2020)
- MD, Tufts University School of Medicine (2019)
- PhD, Tufts University, Department of Molecular Biology and Microbiology , Molecular Microbiology (2019)
- BA, Pomona College , Molecular Biology (2010)

Publications

PUBLICATIONS

- **Radiofrequency Ablation, Cryoablation, and Microwave Ablation for T1a Renal Cell Carcinoma: A Comparative Evaluation of Therapeutic and Renal Function Outcomes** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Zhou, W., Herwald, S. E., McCarthy, C., Uppot, R. N., Arellano, R. S.
2019; 30 (7): 1035–42
- **Risk Assessment of Chronic Kidney Disease following Microwave Ablation for Stage T1 Renal Cell Carcinoma** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Zhou, W., Herwald, S. E., Uppot, R. N., Arellano, R. S.
2018; 29 (12): 1685–91
- **Image-Guided Thermal Ablation for Non-resectable Recurrence of Renal Cell Cancer Following Nephrectomy: Clinical Experience with Eleven Patients** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*
Zhou, W., Herwald, S. E., Uppot, R. N., Arellano, R. S.
2018; 41 (11): 1743–50
- **The two transmembrane regions of *Candida albicans* Dfi1 contribute to its biogenesis** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Herwald, S. E., Zucchi, P. C., Tan, S., Kumamoto, C. A.
2017; 488 (1): 153–58
- **Anticipated Supply and Demand for Independent Interventional Radiology Residency Positions: A Survey of Department Chairs** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Herwald, S. E., Spies, J. B., Yucel, E.
2017; 14 (2): 242–46
- **Irreversible Electroporation for Treatment of Hepatocellular Carcinoma Adjacent to the Gallbladder** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Herwald, S. E., Chen, J. H., Arellano, R. S.

2016; 27 (7): 1093–94

- **The game theory of *Candida albicans* colonization dynamics reveals host status-responsive gene expression** *BMC SYSTEMS BIOLOGY*
Tyc, K. M., Herwald, S. E., Hogan, J. A., Pierce, J. V., Klipp, E., Kumamoto, C. A.
2016; 10: 20
- ***Candida albicans* Niche Specialization: Features That Distinguish Biofilm Cells from Commensal Cells** *CURRENT FUNGAL INFECTION REPORTS*
Herwald, S. E., Kumamoto, C. A.
2014; 8 (2): 179–84
- **Structure and Substrate Specificity of the Pyrococcal Coenzyme A Disulfide Reductases/Polysulfide Reductases (CoADR/Psr): Implications for S-0-Based Respiration and a Sulfur-Dependent Antioxidant System in *Pyrococcus*** *BIOCHEMISTRY*
Herwald, S., Liu, A. Y., Zhu, B. E., Sea, K. W., Lopez, K. M., Sazinsky, M. H., Crane, E. J.
2013; 52 (16): 2764–73
- **Purification of high yields of catalytically active lysyl oxidase directly from *Escherichia coli* cell culture** *PROTEIN EXPRESSION AND PURIFICATION*
Herwald, S. E., Greenaway, F. T., Lopez, K. M.
2010; 74 (1): 116–21