

Stanford



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Bio

BIO

Sirimuvva Tadepalli, Ph.D. is a Research Scientist in the Department of Microbiology and Immunology at Stanford University School of Medicine where she studies the role of myeloid cells during radiotherapy. She received her PhD in Materials Science and Engineering from Washington University in St. Louis and B.Tech. from National Institute of Technology, Warangal. Dr. Tadepalli has received several awards including the American Association of Immunologists award, Merck postdoctoral fellowship from Life Sciences Research Foundation, Dean's postdoctoral fellowship from the Stanford School of Medicine and Graduate Student Gold Award from the Materials Research Society. Dr. Tadepalli's research interests have spanned cancer nanotherapeutics, myeloid cell immunoengineering, biomaterials science and nanotechnology.

HONORS AND AWARDS

- Life Sciences Research Foundation Postdoctoral Fellowship, Merck Research Laboratories (2019-2022)
- Dean's Postdoctoral Fellowship, Stanford School of Medicine (2019)
- Graduate Student Gold Award, Materials Research Society (2017)

EDUCATION AND CERTIFICATIONS

- Doctor of Philosophy, Washington University (2017)
- Bachelor of Technology, National Institute of Technology (2012)

LINKS

- Google Scholar: <https://scholar.google.com/citations?user=Pt-erAYAAAAJ&hl=en>
- LinkedIn: <https://www.linkedin.com/in/sirimuvva-tadepalli-059782229/>
- ResearchGate: <https://www.researchgate.net/profile/Sirimuvva-Tadepalli>

Publications

PUBLICATIONS

- **Rapid recruitment and IFN-I-mediated activation of monocytes dictate focal radiotherapy efficacy.** *Science immunology*
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- **Au@Ag nanostructures for the sensitive detection of hydrogen peroxide.** *Scientific reports*
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- **Plasmonic Nanostructures-Decorated ZIF-8-Derived Nanoporous Carbon for Surface-Enhanced Raman Scattering** *ACS OMEGA*
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- **In vivo bioluminescence imaging of granzyme B activity in tumor response to cancer immunotherapy.** *Cell chemical biology*
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- **Metal-Organic Framework Encapsulation for Biospecimen Preservation** *CHEMISTRY OF MATERIALS*
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- **Extreme Mechanical Behavior of Nacre-Mimetic Graphene-Oxide and Silk Nanocomposites.** *Nano letters*
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- **Ultrarobust Biochips with Metal-Organic Framework Coating for Point-of-Care Diagnosis.** *ACS sensors*
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- **Polarization-Dependent Surface-Enhanced Raman Scattering Activity of Anisotropic Plasmonic Nanorattles** *JOURNAL OF PHYSICAL CHEMISTRY C*
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 - **Plasmonic paper: a porous and flexible substrate enabling nanoparticle-based combinatorial chemistry** *RSC ADVANCES*
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 - **Plasmonic Biofoam: A Versatile Optically Active Material** *NANO LETTERS*
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 - **Size-Dependent Surface Enhanced Raman Scattering Activity of Plasmonic Nanorattles** *CHEMISTRY OF MATERIALS*
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 - **Bio-Enabled Gold Superstructures with Built-In and Accessible Electromagnetic Hotspots** *ADVANCED HEALTHCARE MATERIALS*
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 - **Hydrophilic, Bactericidal Nanoheater-Enabled Reverse Osmosis Membranes to Improve Fouling Resistance** *ACS APPLIED MATERIALS & INTERFACES*
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 - **Au nanostar-enabled multifunctional reverse osmosis membranes for reduced mineral scaling, organic-, and bio-fouling**
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 - **Multiplexed charge-selective surface enhanced Raman scattering based on plasmonic calligraphy** *JOURNAL OF MATERIALS CHEMISTRY C*
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