



•Field Organic Chemistry  
Medicinal Chemistry

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## Educational Background

- 2007-2011  
Hallym University (Ph.D. –Department of Chemistry)
- 2003-2005  
Biju Patnaik University of Technology, India (M.S. –Department Pharmaceutical Chemistry)
- 1998-2002  
Pune University, India (B.S. –Pharmaceutical Sciences)

## Major Careers

- 2011-present: Department of Chemistry, Hallym University, Assistant Professor
- 2009-2011: Biometrix technology Inc., Senior Visiting Scientist
- 2005-2007: Pune University, PDVVPF's College of Pharmacy, Lecturer
- 2002-2003: Mcleods Pharmaceuticals, India, Marketing Manager

## Major research Interests

- New Drug Discovery and Development
- Denovo Drug Design
- Biomarker Detection
- Fluorescent Probe Development
- Molecular Recognition in Biological Systems
- Supramolecular Assemblies / Synthetic Enzymes

## Publications

- Song, K.<sup>†</sup>; **Nimse, S.B.<sup>†</sup>**; Kim, J.; Warkad, S.D.; Kim, T.\* ID-Checker Technology for the Highly Selective Macroscale Delivery of Anticancer Agents to the Cancer Cells. *J. Med. Chem.* 2022, <https://doi.org/10.1021/acs.jmedchem.2c00646>.
- Patil, M.M.; Park, S.J.; Yeom, G.S.; Bendre, R.S.; Kuwar, A.; **Nimse, S.B.\*** Fluorescence 'turn-on' probe for nanomolar Zn (II) detection in living cells and environmental samples, *New J. Chem.* 2022,

<https://doi.org/10.1039/D2NJ02012B>. [Click here for a full paper](#). (IF.= 3.9).

- Yeom, G.S.; Song, I.; Park, S.J.; Kuwar, A.; **Nimse, S.B.\*** Development and application of a fluorescence turn-on probe for the nanomolar cysteine detection in serum and milk samples, *J. Photochem. Photobiol. A: Chemistry* 2022, 114074. [Click here for a full paper](#). (IF.= 5.1).
- Saha, S.†; Yeom, G.S.†; Pal, D.; **Nimse, S.B.\*** Combination Therapy of Ledipasvir and Itraconazole in the Treatment of COVID-19 Patients Coinfected with Black Fungus: An In Silico Statement, *BioMed Research International* 2022, 2022, 5904261. [Click here for a full paper](#). (IF.= 3.4)
- Song, I.; Yeom, G.S.; Kuwar, A.; **Nimse, S. B.\*** Elimination Reaction-Based Benzimidazole Probe for Cysteine Detection and Its Application in Serum Sample Analysis, *Biosensors* 2022, 12(4), 224. [Click here for a full paper](#). (IF.= 5.7)
- Pal, D.; Song, I.; Warkad, S. D.; Song, K.; Yeom, G.S.; Saha, S.; Shinde, P.B.; **Nimse, S. B.\*** Indazole-Based Microtubule-Targeting Agents as Potential Candidates for Anticancer Drugs Discovery, *Bioorganic Chemistry* 2022, 10573. [Click here for a full paper](#). (IF.= 5.3)
- Lee, J.; Song, I.; Warkad, S. D.; Yeom, G. S.; Shinde, P. B.; Song, K.; **Nimse, S. B.\*** Synthesis and evaluation of 2-aryl-1H-benzo[d]imidazole derivatives as potential microtubule targeting agents. *Drug Development Research* 2022, 1– 14. [Click here for a full paper](#). (IF.= 5.0)
- Song, K.†; **Nimse, S.B.†**; Warkad, S.D.; Kim, J.; Kim, H.; Kim, T. Detection and Quantification of Tp53 and p53-Anti-p53 Autoantibody Immune Complex: Promising Biomarkers in Early Stage Lung Cancer Diagnosis. *Biosensors* 2022, 12(2), 127. [Click here for a full paper](#). (IF.= 5.7)
- Saha, S.; Pal, D.; **Nimse, S.B.** Indazole Derivatives Effective against Gastrointestinal Diseases. *Curr. Topics Med. Chem.* 2022, DOI:10.2174/1568026621666211209155933. [Click here for a full paper](#). (IF.= 3.5)
- Lee, J.; Song, I.; Warkad, S.D.; Yeom, G.S.; **Nimse, S.B.\*** An Abiotic Fluorescent Probe for the Detection and Quantification of Carcinoembryonic Antigen. *Bioorganic Chemistry*, 2021, 105490. [Click here for full paper](#). (IF.= 5.3)
- Yeom, G.S.; Song, I.H.; Warkad, S.D.; Shinde, P.B.; Kim, T.; Park, S.M.; **Nimse, S.B.\*** Development of a Novel Benzimidazole-Based Probe and Portable Fluorimeter for the Detection of Cysteine in Human Urine. *Biosensors* 2021, 11, 420. [Click here for full paper](#). (IF.= 5.5)
- Song, I.; Torawane, P.; Lee, J.; Warkad, S.D.; Borase, A.; Sahoo, S.K.; A. Kuwar, **Nimse, S.B.\*** The detection of Al<sup>3+</sup> and Cu<sup>2+</sup> ions using isonicotinohydrazide-based chemosensors and their application to live-cell imaging. *Material Advances* 2021, 2, 6306-6314. [Click here for full paper](#). (IF.= pending)
- **Nimse, S.B.†**, Song, K.; Warkad, S.D.; Kim, T.A Novel Method That Allows SNP Discrimination with 160: 1 Ratio for Biosensors Based on DNA-DNA Hybridization. *Biosensors* 2021, 11(8), 265. [Click here for full paper](#). (IF.= 5.5)
- Singh, S.; **Nimse, S.B.†**, Mathew, D.E.; Dhimmar, A.; Sahastrabudhe, H.; Gajjar, A.; Ghadge, V.A.; Kumar, P.; Shinde, P.B. Microbial melanin: Recent advances in biosynthesis, extraction, characterization, and applications. *Biotechnology Advances* 2021, 107773. [Click here for full paper](#). (IF.= 14.2)
- Pal, D.; Mukherjee, S.; Song, I.H.; **Nimse, S.B.\*** GSK-3 Inhibitors: A new class of drugs for Alzheimer's Disease Treatment. *Curr. Drug Targets* 2021, 22, 1725-1737. [Click here for full paper](#). (IF.= 2.6)
- Saha, S.; Pal, D.; Nimse, S.B. Recent Advances in the Discovery of GSK-3 Inhibitors from Synthetic

Origin in the Treatment of Neurological Disorders. *Curr. Drug Targets* 2021, 22, 1437-1462. [Click here for full paper.](#) (IF.= 2.6)

- Choe, W.; Chae, J.D.; Lee, B.H.; Kim, S.H.; Park, S.Y.; **Nimse, S.B.**; Kim, J.; Warkad, S.D.; Song, K.S.; Oh, A.C.; Hong, Y.J.; Kim, T. 9G Test™ Cancer/Lung: A Desirable Companion to LDCT for Lung Cancer Screening. *Cancers* 2020, 12(11), E3192. [Click here for full paper.](#) (IF.= 6.1)
- Lee, J.S.; Warkad, S.D.; Shinde, P.B.; Kuwar, A.; **Nimse, S.B.\*** A highly selective fluorescent probe for nanomolar detection of ferric ions in the living cells and aqueous media. *Arabian J. Chem.* 2020, 13 (12) 8697-8707. [Click here for full paper.](#) (IF.= 6.2)
- Yu, S.†; **Nimse, S.B.†**; Kim, J.; Song, K.; Kim, T. Development of a Lateral Flow Strip Membrane Assay for Rapid and Sensitive Detection of the SARS-CoV-2. *Anal. Chem.* 2020, 92 (20), 14139-14144. [Click here for full paper.](#) (IF.= 8.0)
- Lee, J.S.; Song, I.H.; Shinde, P.B.; **Nimse, S.B.\*** Macrocycles and Supramolecules as Antioxidants: Excellent Scaffolds for Development of Potential Therapeutic Agents. *Antioxidants* 2020, 9 (9), 859. [Click here for full paper.](#) (IF.= 5.01)
- Ghadge, V.; Kumar, P.; Singh, S.; Mathew, D.E.; Bhattacharya, S.; **Nimse, S.B.**; Shinde, P.B. Natural Melanin Produced by the Endophytic Bacillus subtilis 4NP-BL Associated with the Halophyte Salicornia brachiata. *J. Agric. Food Chem.* 2020, 68 (25), 6854–6863. [Click here for full paper.](#) (IF.= 4.19)
- Warkad, S.D.†; **Nimse, S.B.†**; Song, K.; Kim, T. Development of a Method for Screening and Genotyping of HCV 1a, 1b, 2, 3, 4, and 6 Genotypes. *ACS Omega* 2020, 5 (19), 10794–10799. [Click here for full paper.](#) (IF.= 2.87)
- Lee, J.S.; Zeller, M.; Warkad, S.D.; **Nimse, S.B.\*** Synthesis, Characterization, and Crystal Structure of N-(3-nitrophenyl)cinnamamide. *Crystals*, 2019, 9(11), 599. [Click here for full paper.](#) (IF.= 2.06)
- Warkad, S.D.; Song, K.S.; Pal, D.; **Nimse, S.B.\*** Developments in the HCV Screening Technologies Based on the Detection of Antigens and Antibodies. *Sensors*, 2019, 19(19), 4257. [Click here for full paper.](#) (IF.= 3.0)