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## Educational Background

- 1987-1993  
University of Texas at Austin  
(Ph.D. The department of Chemistry)
- 1983-1985  
Seoul National University  
(Master of Science – Department of Chemistry)
- 1978-1982  
Seoul National University  
(Bachelor of Science – Department of Chemistry)

## Major Careers

- 2013-2015  
Dean of the Department of Chemistry
- 2008-2010  
Director of the Research Institute of Applied Chemistry
- 2008-2009  
Head professor of the major of Chemistry
- 1993-1995  
Post-Doc. Texas A&M Univ.

## Publications

- 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.](#)
- 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.](#)
- 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.](#)
- 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](#)

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- 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.](#)
- Song, K., Nimse, S.B., Warkad, S.D., Oh, A.C., Kim, T., Hong, Y.J. Quantification of CYFRA 21-1 and a CYFRA 21-1-anti-CYFRA 21-1 autoantibody immune complex for detection of early stage lung cancer. *Chem Commun*, 2019, 55(68), 10060-10063. [Click here for full paper.](#)
- Warkad, S.D., Nimse, S.B., Song, K., Kim, T. HCV Detection, Discrimination, and Genotyping Technologies. *Sensors*, 2018, 18(10), pii: E3423. [Click here for full paper.](#)
- Warkad, S.D., Nimse, S.B., Song, K., Chantratita, W., Pongthapisith, V., Nawale, L.U., Kim T. Performance of 6 HCV genotyping 9G test for HCV genotyping in clinical samples. *Virology Journal*, 2018, 15(1), 107. [Click here for full paper.](#)
- Song, K., Nimse, S.B., Sonawane M.D., Warkad S.D., Kim T. Ultra-Sensitive NT-proBNP Quantification for Early Detection of Risk Factors Leading to Heart Failure. 2017, (9),2116. [Click here for full paper.](#)
- Song, K., Nimse, S.B., Sonawane, M.D., Lin, Y., Zhou Z., Kim T. Glass Fibre Membrane Platform for Ultra-sensitive Detection of Cardiac Troponin T. *Analyst*, 2017, 3816-3821, [Click here for full paper.](#)
- Sonawane, M.D., Nimse, S.B., Song, K., Kim T. Multiplex detection of cardiac biomarkers. *Analytical Methods* 2017, 9 (25), 3773-3776. [Click here for full paper.](#)
- Sonawane MD., Nimse SB. C-Reactive Protein: A Major Inflammatory Biomarker. *Analytical Methods*, 2017, DOI: 10.1039/C7AY00711F. [Click here for full paper.](#)
- Chantratita, W., Song K., Nimse, S. B., Pongthapisith, V., Thongbaiphet, N., Wongtabtim, G., Pasomsub, E., Angkanavina, K., Sonawane, M.D., Warkad, SD., Kim, T. 6 HCV Genotyping 9G test for HCV 1a, 1b, 2, 3, 4 and 6 (6a, 6f, 6i and 6n) with high accuracy. *Journal of Virological Methods*, 2017, 246, 95–99. [Click here for full paper.](#)
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- Song, K., Nimse, S. B., Cho, N. H., Sung, N., Kim, H., Yang, J., Kim, T., "Accurate Detection of Rifampicin-Resistant Mycobacterium Tuberculosis Strains", *Sensors*, 2016, 16, 376. [Click here for full paper.](#) (IF.= 2.4)
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- Nimse, S. B., Sonawane, M. D., Song, K., Kim, T., "Biomarker Detection Technologies and Future Directions", *Analyst*, 2016, 141, 740-755. [Click here for full paper.](#)