

Curriculum vitae

Dr. SOJIT TOMO

M.B.B.S, M.D. (Biochemistry) DNB (Biochemistry) MNAMS, MIBCB

Assistant Professor,

Department of Biochemistry

All India Institute of Medical Sciences (A.I.I.M.S), Jodhpur, India

Contact No: 9496370443

ORCID: 0000-0001-5381-4348

E-Mail:sojitomo@gmail.com

Web of Science Researcher ID: AAO-9380-2021

Healthcare Professional ID: 71-6884-0307-8500

Publons: <https://publons.com/researcher/3683936/sojit-tomo/>

ResearchGate: <https://www.researchgate.net/profile/Sojit-Tomo>

ABRIDGEMENT

I completed my Doctor of Medicine (M.D) Biochemistry from **Jawaharlal institute of Postgraduate Medical Education and Research (J.I.P.M.E.R), Pondicherry** and have worked as Senior Resident in Department of Biochemistry, All India Institute of Medical Sciences (A.I.I.M.S), Jodhpur. India. I am currently working as Assistant Professor in Department of Biochemistry, All India Institute of Medical Sciences (A.I.I.M.S), Jodhpur, India from 2022.

- **Corresponding Member in the IFCC Committee of Emerging Technologies in Pediatric Laboratory Medicine (C-ETPLM)**
- **Member of National Academy of Medical Sciences (MNAMS)**
- **Member of Indian Board of Clinical Biochemistry (MIBCB)**

ACADEMIC QUALIFICATIONS

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- **Member of Indian Board of Clinical Biochemistry (MIBCB):** October 2023
 - **M.D.Biochemistry : Doctor of Medicine (Biochemistry)** , Jawaharlal institute of Postgraduate Medical Education and Research, Pondicherry ,INDIA : June 2018
 - **DNB Biochemistry : Diplomate of National Board (Biochemistry)** , New Delhi , INDIA : December 2018

- **M.B.B.S : Bachelor of Medicine and Bachelor of Surgery** , Kerala University , INDIA : 2012
- **Clinical Lab Management Course** : Indian Institute of Management Ahmedabad (IIMA), INDIA
- **SSIEM Metabolic training course : Society for the Study of Inborn Errors of Metabolism (SSIEM) (UK)**
- **Federation of Clinical Immunology Societies (FOCIS):** Asian Advanced course in Basic and Clinical Immunology

EXPERIENCE

- **Senior Resident** in Department of Biochemistry, All India Institute of Medical Sciences (A.I.I.M.S), Jodhpur. India : 3 Years (2018-2021)
- **Assistant Professor** in Department of Biochemistry, Santosh Medical College, Ghaziabad, India: 9 months (August 2021- May 2022)
- **Assistant Professor** in Department of Biochemistry, All India Institute of Medical Sciences (A.I.I.M.S), Jodhpur, India: June 2022- till present

PUBLICATIONS

1. Tomo S, Mohan S, Ramachandrappa VS, Samadanam DM, Suresh S, Pillai AB, et al. Dynamic modulation of DC-SIGN and FcγR2A receptors expression on platelets in dengue. PLoS ONE [Internet]. 2018 Nov 9 [cited 2019 Jan 19];13(11). Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6226166/>
2. Roy D, Tomo S, Modi A, Purohit P, Sharma P. Optimising total RNA quality and quantity by phenol-chloroform extraction method from human visceral adipose tissue: A standardisation study. MethodsX. 2020 Oct 20;7:101113. doi: 10.1016/j.mex.2020.101113
3. Khokhar M, Purohit P, Roy D, Tomo S, Gadwal A, Modi A, Banerjee M, Sharma P. Acute kidney injury in COVID 19 - an update on pathophysiology and management modalities. Arch Physiol Biochem. 2020 Dec 15:1-14 doi: 10.1080/13813455.2020.1856141
4. Tomo S, Karli S, Dharmalingam K, Yadav D, Sharma P. The Clinical Laboratory: A Key Player in Diagnosis and Management of COVID-19. EJIFCC. 2020 Nov 20;31(4):326-346.

5. Tomo S, Kumar KP, Roy D, Sankanagoudar S, Purohit P, Yadav D, Banerjee M, Sharma P, Misra S. Complement activation and coagulopathy - an ominous duo in COVID19. *Expert Rev Hematol*. 2021 Feb;14(2):155-173.
6. Yadav D, Birdi A, Tomo S, Charan J, Bhardwaj P, Sharma P. Association of Vitamin D Status with COVID-19 Infection and Mortality in the Asia Pacific region: A Cross-Sectional Study. *Indian J Clin Biochem*. 2021 Feb 3:1-6. doi: 10.1007/s12291-020-00950-1
7. Dharmalingam K, Birdi A, Tomo S, Sreenivasulu K, Charan J, Yadav D, Purohit P, Sharma P. Trace Elements as Immunoregulators in SARS-CoV-2 and Other Viral Infections. *Indian J Clin Biochem*. 2021 Feb 12:1-11. doi: 10.1007/s12291-021-00961-6
8. Sharma A, Maksane S, Das J, Kumar S, Birdi A, Tomo S, Yadav D, Sharma P. (2020). Impact of sanitizers on quality of lipase and triglyceride analytes in clinical laboratory. *Indian Journal of Biochemistry & Biophysics*. 2020;57, 701-706.
9. Roy D, Tomo S, Purohit P and Setia P (2021) Microbiome in Death and Beyond: Current Vistas and Future Trends. *Front. Ecol. Evol*. 9:630397. doi: 10.3389/fevo.2021.630397
10. Tomo S, Saikiran G, Banerjee M, Paul S. Selenium to selenoproteins – role in COVID-19. *EXCLI J*. [Internet]. 2021 Apr. 16 [cited 2021 Apr. 20];20:781-9. Available from: <https://www.excli.de/index.php/excli/article/view/3530>
11. Sharma A, Agrawal A, Sindhwani G, Sharma A, Tomo S, Charan J, Yadav D, Sharma P. Efficacy of procalcitonin and pentraxin-3 as early biomarkers for differential diagnosis of pleural effusions. *Pleura Peritoneum*. 2021 Apr 19;6(2):83-90
12. Tomo S, Mohan S, Ramachandrappa VS, Samadanam DM, Suresh S, Pillai AB, et al. Differential platelet receptor expression for viral capture (DC-SIGN) and plasma leakage in patients with dengue infection. *Journal of Clinical Virology Plus*. 2021;100039.
13. Khokhar M, Tomo S, Purohit P. MicroRNAs based regulation of cytokine regulating immune expressed genes and their transcription factors in COVID-19. *Meta Gene*. 2022;(31),100990.
14. Tomo S, Banerjee M, Sharma P, Garg M. Does dehydroepiandrosterone sulfate have a role in COVID-19 prognosis and treatment? *Endocr Regul*. 2021 Sep 13;55(3):174-181.
15. Pvsn KK, Tomo S, Purohit P, Sankanagoudar S, Charan J, Purohit A, Nag V, Bhatia P, Singh K, Dutt N, Garg MK, Sharma P, Misra S, Yadav D. Comparative Analysis of Serum Zinc, Copper and Magnesium Level and Their Relations in Association with Severity and Mortality in SARS-CoV-2 Patients. *Biol Trace Elem Res*. 2022 Jan 22:1–8.
16. Tomo S, Sankanagoudar S, Kg Shukla R. Enhanced ability of Cordova formula for estimation of LDL cholesterol in distinguishing patient requiring lipid lowering treatment. *Minerva Endocrinol (Torino)*. 2022 Feb 1. doi: 10.23736/S2724-6507.22.03697-1.
17. Khokhar M, Roy D, Tomo S, Gadwal A, Sharma P, Purohit P. Novel Molecular Networks and Regulatory MicroRNAs in Type 2 Diabetes Mellitus: Multiomics Integration and Interactomics Study. *JMIR Bioinform Biotech* 2022;3(1):e32437

18. Harshvardhan, Tomo S, Rawat A, Aggarwal J. The increased prevalence of thyroid dysfunction in first trimester pregnancy in a tertiary care centre and the significance of universal screening. *J Datta Meghe Inst Med Sci Univ* 2021;16:457-61.
19. Tomo S, Sankanagoudar S, Shukla R, Sharma P. Validation of a novel method for determination of low-density lipoprotein cholesterol levels in Indian patients with type 2 diabetes. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* 2022;16(4):102448. Doi:10.1016/j.dsx.2022.102448.
20. Khokhar M, Tomo S, Gadwal A, Purohit P. Multi-omics integration and interactomics reveals molecular networks and regulators of the beneficial effect of yoga and exercise. *Int J Yoga* 2022;15:25-39.
21. Aggarwal J, Batra J, Tomo S, Bhagat R, Katara P. Analysis of Biochemical and Immune Biomarker Abnormalities Associated With Severe Illness and Mortality in COVID -19 Disease. *International Journal of Health Sciences* 2022;6(S1):2021-27.
<https://doi.org/10.53730/ijhs.v6nS1.4980>.
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23. Katara P, Aggarwal J, Tyagi H, Tomo S, Batra J. Assessment of Liver profile in Multi Drugs Resistant (MDR) Tuberculosis Patients on Treatment. *International journal of Life Sciences and Pharma Research*. 2021 Nov: SP17;302-307
24. Tomo S, Birdi A, Yadav D, Chaturvedi M, Sharma P. Klotho: A Possible Role in the Pathophysiology of Nephrotic Syndrome. *EJIFCC*. 2022 Apr 11;33(1):3-10.
25. Tomo S, Aggarwal J, Batra J. Precision medicine in COVID-19 patients. *Santosh University Journal of Health Sciences*. 2022: 8(1):13
26. Aggarwal, J., Tomo, S., Batra, J., & Katara, P. (2022). Comparative retrospective study of biochemical and haematological biomarkers and their alterations in First and Second COVID-19 wave in a tertiary care facility in Ghaziabad. *International Journal of Health Sciences*, 6(S3), 7228–7245. <https://doi.org/10.53730/ijhs.v6nS3.7737>
27. Tomo S, Sankanagoudar S, Shukla R, Sharma P. Calculated small dense LDL-cholesterol and its correlation with the atherogenic index of plasma. *Ann Clin Biochem*. 2022 May 14:45632221102767
28. Tomo S, Sankanagoudar S. Cordova formula, a better alternative to Martin's formula for the calculation of LDL-C in patients with TG above 350 mg/dL. *Turk Kardiyol Dern Ars* 2022;50(4):308-309.
29. Sankanagoudar, S., Tomo, S., Shukla, R. and Sharma, P., 2022. Comparative Study of Calculated LDL-Cholesterol Levels with the Direct Assay in Patients with Hypothyroidism. *Journal of Laboratory Physicians*. 10.1055/s-0042-1748628

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31. Tomo S, Banerjee M, Karli S, Purohit P, Mitra P, Sharma P, Garg MK, Kumar B. Assessment of DHEAS, cortisol, and DHEAS/cortisol ratio in patients with COVID-19: a pilot study. *Hormones (Athens)*. 2022 Jul 8. doi: 10.1007/s42000-022-00382-x. Epub ahead of print.
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34. Banerjee M, Roy D, Lingeswaran M, Tomo S, Mittal A, Varma P P. Urinary screening in asymptomatic Indian children: a cross sectional epidemiological study. *eJIFCC*. 2022;33(3):242-251
35. Birdi, A., Tomo, S., Yadav, D. et al. Role of Klotho Protein in Neuropsychiatric Disorders: A Narrative Review. *Ind J Clin Biochem* (2022). <https://doi.org/10.1007/s12291-022-01078-0>
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39. Khokhar, M.; Purohit, P.; Tomo, S.; Agarwal, R.G.; Gadwal, A.; Bajpai, N.K.; Bohra, G.K.; Shukla, R.K. PTEN, MMP2, and NF- κ B and Regulating MicroRNA-181 Aggravate Insulin Resistance and Progression of Diabetic Nephropathy: A Case-Control Study. *Kidney Dial*. 2023, 3, 121–138. <https://doi.org/10.3390/kidneydial3010011>.
40. Birdi, A., Tomo, S., Sharma, M. et al. Association of Klotho with Neuropsychiatric Disorder: A Meta-Analysis. *Ind J Clin Biochem* (2023). <https://doi.org/10.1007/s12291-023-01132-5>
41. Ravindran Ragavi, Panneerselvam Muthukumaran, Srividhya Nandagopal, Dinesh Kumar Ahirwar, Sojit Tomo, Sanjeev Misra, Giulia Guerriero, Kamla Kant Shukla. Epigenetics

regulation of prostate cancer: Biomarker and therapeutic potential, Urologic Oncology: Seminars and Original Investigations, 2023, ISSN 1078-1439, <https://doi.org/10.1016/j.urolonc.2023.03.005>.

42. Singh, M., Aggarwal, J., Tomo, S., Batra, J. and Katara, P. (2023) “Study of Metabolic Syndrome in Pre and Post Menopausal Women”, IARS’ International Research Journal. Victoria, Australia, 12(02). doi: 10.51611/iars.irj.v12i02.2022.211.
43. Singh, S., Pvsn, K. K., Kumar, J. P., Tomo, S., Yadav, D., Sharma, P., Rao, M., & Banerjee, M. (2023). Genetic and Epigenetic basis of Drug Induced Liver Injury. Seminars in liver disease, 10.1055/a-2097-0531. Advance online publication. <https://doi.org/10.1055/a-2097-0531>
44. Sankanagoudar, S., Tomo, S., Syiemlieh, A. et al. Assessing Performance of Martins’s and Sampson’s Formulae for Calculation of LDL-C in Indian Population: A Single Center Retrospective Study. Ind J Clin Biochem (2023). <https://doi.org/10.1007/s12291-023-01142-3>
45. Das P, Singh P, Dhandayuthapani S, Tomo S, Mahendran C S. Knowledge, attitudes, and practices in transport workers and gym-goers toward COVID-19: A cross-sectional survey in Ghaziabad, India. Santosh Univ J Health Sci 2023;9:87-90
46. Tomo, S., Kiran Kumar, P., Yadav, D. et al. Association of Serum Complement C3 Levels with Severity and Mortality in COVID 19. Ind J Clin Biochem (2023). <https://doi.org/10.1007/s12291-023-01148-x>

Personal Dossier

- Gender : Male
- Marital Status : Single
- Nationality : Indian
- Languages known :English,Malayalam, Tamil, Hindi
- Telephone :91- 9496370443
- Mail :sojitomo@gmail.com