

Development of aptamer-based sensing of protein using gold nanoparticles

M. Sc. project report

Submitted by
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Supervisor

Prof. Pradeepkumar P. I.



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आज़ादी का
अमृत महोत्सव



Date: 27th February, 2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Misbaha A. M.**, a student from Sir Syed College, Taliparamba, affiliated to Kannur University, Kerala, has successfully completed the project work titled : **DEVELOPMENT OF APTAMER - BASED SENSING OF PROTEIN USING GOLD NANOPARTICLES** under the supervision of Prof. Pradeepkumar P. I., Department of Chemistry, during the Period from 26th December, 2023 to 23rd February, 2024.

Date of issue: 27th February, 2024

Place: **IIT Bombay**



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Quantum mechanical calculation and force field development of TNA modification

MSc project report

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Date: 27th February, 2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. ALEENA MARY D'SOUZA**, a student from Sir Syed College, Taliparamba, affiliated to Kannur University, Kerala, has successfully completed the project work titled : **QUANTUM MECHANICAL CALCULATION AND FORCE FIELD DEVELOPMENT OF TNA MODIFICATION** under the supervision of Prof. Pradeepkumar P. I., Department of Chemistry, during the Period from 26th December, 2023 to 23rd February, 2024.

Date of issue: **27th February, 2024**

Place: **IIT Bombay**

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