

The true laboratory is the mind, where behind illusions we uncover the laws of truth.

..... J. C. Bose

(Botanist)



TEZPUR UNIVERSITY
(Established by an act of Parliament)
DEPARTMENT OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY
Tezpur – 784028, Assam, India

Prof. A.K. Mukherjee, M.Sc. Ph.D
Professor and Head

Ph: 03712- 267007-9 Ext. 5401 (0)
Fax: 03712- 267005/6 (0)
E- mail: akm@tezu.ernet.in

CERTIFICATE BY THE HEAD OF THE DEPARTMENT

This is to certify that **Miss Maitreyee Sharma**, a student of the Department of Molecular Biology and Biotechnology, Tezpur University, Assam has successfully completed the project work entitled “ **Encoating of biopolymer on nanoparticle for targeted drug delivery**” as a part of partial fulfillment of her Master of Science in Molecular Biology and Biotechnology, Tezpur University under the supervision of Prof. B.K. Konwar, Department of Molecular Biology and Biotechnology, Tezpur University.

Place: Tezpur

Date: 28/5/10

A. K. Mukherjee

Professor and Head

Deptt. Of MBBT

Tezpur University



TEZPUR UNIVERSITY
SCHOOL OF SCIENCE & TECHNOLOGY
NAPAAM, TEZPUR – 784 028, ASSAM, INDIA

B. K. Konwar, Ph D (London), DIC
Professor (Mol. Biol. & Biotech) & Dean

Ph (O): 03712-267007-9 x 5402 (D):-267172
Mobile (O): 9954449458 (R) 9435380139
Fax: 03712-267005/6 Email: bkkon@tezu.ernet.in

CERTIFICATE BY THE SUPERVISOR

This is to certify that the M.Sc. Project entitled **“Encoating of biopolymer on nanoparticle for targeted drug delivery”** submitted to Tezpur University, Tezpur for the partial fulfillment of the degree of Master of Science in Molecular Biology and Biotechnology is a record of research work carried out by Miss Maitreyee Sharma under my personal supervision and guidance.

Further, certified that the thesis is the result of her own study and the whole or part of this project has not been submitted to any other University for any purpose.

Place: Tezpur

Date: 28/05/10

A handwritten signature in black ink, appearing to be 'B. K. Konwar'.

(B. K. Konwar)

Dean, School of Science and Technology

Dept. of MBBT

Tezpur University, Tezpur

DECLARATION BY THE CANDIDATE

This is to declare that I have carried out the M.Sc. Project entitled “ **Encoating of biopolymer on nanoparticle for targeted drug delivery**” under the supervision of Prof. B.K. Konwar in the Department of Molecular Biology and Biotechnology, Tezpur University for the partial fulfillment of the degree in **Master of Science in Molecular Biology and Biotechnology**. The project report embodied here accounts for my own findings and has not been submitted previously anywhere for any degree whatsoever by either me or anyone else.

Date: 28/5/10



(Maitreyee Sharma)

MBM08001

ACKNOWLEDGEMENTS

The task of transcoding a six month into a project report remains incomplete without forwarding a note of gratitude to all those who have directly or indirectly helped me to get the best out of this project work.

Unbound thanks flows to my mantor Prof. B. K. Konwar, Dean, School of Science and Technology, Department of Molecular Biology and Biotechnology, for accepting me as a project student under his supervision. His guidance and support has helped me to pursue the project work inspite of my ill health. His passion and enthusiasm for research and the way of planning focused objectives and their fulfillment will be an inspiration to me, forever.

My sincere thanks are due to Jyoti Prasad Saikia for helping me to complete my project successfully.

I, also thank Prof. J. Sharma (Head of Physics) for allowing me to take the advantage of the equipment of the Physics Department and Dr. P. Deb for providing the Iron Oxide nanoparticles for carrying out the project work

I also offer my sincere thanks to Mr. Ratan Baruah for helping me to get the SEM and EDS images of my samples and Mr. Subhasit Baruah for determining the magnetic property of my sample.

I also offer my regards to the faculty members and the staff members of the Department of Chemical Sciences for helping me to collect the FT-IR data of the experiment samples.

My heartfelt thanks goes to each and every faculty member and staff member of the Department of Molecular Biology and Biotechnology, Tezpur University, Assam for their encouragement and building up self confidence in me.

I would also like to acknowledge all research scholars of the Department of Molecular Biology and Biotechnology for their guidance and help in all possible ways.

I also extend my heartfelt thanks to my parents and brother for their constant morale support and boosting up my career with a positive thrust.

And last but not least I would like to thank all those who directly or indirectly associated with me and my research work.

Date: 28/5/10



(Maitreyee Sharma)

MBM08001