



**Indian Institute of Science Education and
Research, Bhopal**
Department of Chemistry

*9th Semester BS-MS project progress report, Nov 2017 **OR**
5th Semester Integrated Ph.D. project progress report, Nov 2017*

Title of the Project

Report by: Mr./Ms. First Last Name
Roll number: 13XXX/1502XX
Supervisor: Dr. First Last Name (Chemistry)
Co-supervisor: Dr. First Last Name (Department/Affiliation)
Keywords: (provide a maximum of five, no abbreviations)

Review committee members: Dr. First Last Name (Chemistry)
Dr. First Last Name (Chemistry)

Declaration

I, _____(name), hereby confirm that the **text written** here is my own work and is not copied from other person's work (published or unpublished).

Student's Digital Signature

Place

Date

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NOTE: Page numbers and ranges are given here only as examples and for providing formatting. Erase this note and update the page numbers in your final report. Ideal length of this report document is in the range of 5-6 pages in the provided format. Maximum page limit is 8 pages (excluding references). Word limits indicated in respective sections are maximum word count.

Submission deadline: **13th November 2017, 10 AM via email** (PDF and doc/docx must be provided) to committee members, supervisor and DUGC. Provide hardcopies of report as requested by members.

Abstract

Provide a synopsis of the project being pursued with emphasis what is the overall goal/hypothesis, what has been done to achieve the same. Summarize the results that might have been obtained and the goals set for the forthcoming semester. Avoid citations, tables, formulae and abbreviations. Word limit: **250**.

A synopsis figure/illustration/graphic representation may also be presented here to emphasize the idea of the project pursued.

Introduction

Provide a detailed background of the project being pursued, with a comprehensive literature survey that builds up to the goals being pursued. Use figures to **introduce** the **fundamentals** (as required), the **motivation**, clearly define the **aims** of the work that will be achieved at the end of the MS project (i.e. 10th semester thesis) and the plausible outcome in terms of broader context. Provide citations in the ACS format. Introduce all abbreviations that may be used. Word limit: **1000**.



Fig. 1: Figure title. (a) Provide figure legend for sub-set 1 of figure 1; (b) Provide figure legend for sub-set 2 of figure 1; (c) Provide figure legend for sub-set 3 of figure 1;

Materials and methods

Provide details of the experimental set up, document details that would help reproducing the samples/data generated. Describe the process involved in sample preparation, instrument specifications and the techniques employed. Include sample size, sample conditions (concentrations, buffer, pH, temperature, etc.), control experiments and all formulae used in the data analysis with clear description of the variables (with units, preferably SI) used in the equation(s). Use past tense and passive voice, with order of steps following the order in which they have to be carried out. Include figures as required. Word limit: **1000**.



Fig. 2: Figure title. (a) Provide figure legend for sub-set 1 of figure 2; (b) Provide figure legend for sub-set 2 of figure 2;

Results

Present results that might be available from the experiments performed so far. Use tables, figures, graphs/plots and other pertinent tools to present obtained results. Provide error/standard deviation involved in the data analysis. The report is not expected to be results heavy as it is just the 9th semester progress. Spectra and all additional data (for instance, used for quality control) and not discussed should be added to appendix.

Discussion

This section can be combined with results, left to the discretion of the investigators. Summarize and discuss the results that have been obtained so far in the light of how it contributes towards the goal(s)/hypothesis of the work. Rationalize any deviations and propose modifications that could/will be performed.

Conclusion/Summary

Summarize your findings, emphasize on the important outcomes, and relate them to the aims/hypothesis proposed in the introduction. Conclusions are not expected for this report, but list any partial achievements if present from the progress so far. Word limit: **500**.

Further Steps

Propose and list the steps/experiments that will be carried out in the forthcoming semester to achieve all the goals/aims of this project. Bulleted and concise points are strongly encouraged. Word limit: **500**.

Contributions

Clearly indicate your contributions in this submitted work. If data from other students is presented to support this work, indicate their contributions (experimental, intellectual, etc.) as well. For instance, please take a look at the following.

Vivek Singh performed the chemical synthesis and spectral analysis under the guidance of Pradipta Maiti and Prashant Reddy. Vivek Singh and Amit Kumar performed all ligand binding and electrochemistry experiments with assistance from Prashant Reddy. Vivek Singh wrote the report with inputs from Prof. Narayana Prasad.

References

Follow the format provided here (obtained from [ACS](#)) must be followed.

Journals: Rich, D. H.; Green, J.; Toth, M. V.; Marshall, G. R.; Kent, S. B. H. Hydroxymethylamine Analogues of the p17/p24 Substrate Cleavage Site Are Tight-Binding Inhibitors of HIV Protease. *J. Med. Chem.*, 1990, 33, 1285-1288.

Online early access: Rubner, G.; Bendsdorf, K.; Wellner, A.; Kircher, B.; Bergemann, S.; Ott, I.; Gust, R. Synthesis and Biological Activities of Transition Metal Complexes Based on Acetylsalicylic Acid as Neo-Anticancer Agents. *J. Med. Chem.* [Online early access]. DOI: 10.1021/jm101019j. Published Online: September 21, 2010.

Periodicals published in electronic format only: Author 1; Author 2; Author 3; etc. Title of Article. Journal Abbreviation [Online], Year, Volume, Article Number or other identifying information.

Monographs: Casy, A. F.; Parfitt, R. T. *Opioid Analgesics*; Plenum: New York, 1986.

Edited Books: Rall, T. W.; Schleifer, L. S. *Drugs Effective in the Therapy of the Epilepsies. In The Pharmacological Basis of Therapeutics*, 7th ed.; Gilman, A. G., Goodman, L. S., Rall, T. W., Murad, F., Eds.; Macmillan: New York, 1985; pp 446-472.

Patents: Sheem, S. K. Low-Cost Fiber Optic Pressure Sensor. U.S. Patent 6,738,537, May 18, 2004.

Appendix

Provide additional data (spectra, theory, etc.) and relevant subject matter that would help the presented material.