

Example of a Well-Written Research Proposal: Basic Science Project

Please note: The following proposal was written by a student who was accepted into the research program for summer 2005. The format is slightly different than what is required for the summer 2006 application.

B. Project Description

a. Project Title

Metabolic Effects of Amyloidogenic κ 1 Light Chain Internalization and Localization

b. Description/Goals of Project

Amyloidosis is a family of diseases characterized by aggregations of misfolded proteins throughout the body. Some forms of amyloidosis include Alzheimer's disease, Parkinson's disease and systemic (AL) light chain amyloidosis. Investigators of the mechanisms of amyloidosis are just now beginning to get a brief glimpse of how the diseases begin and progress in the human body. Amyloid fibrils appear in different tissues throughout the body, including the heart, which is the most commonly affected organ in AL amyloidosis. Since AL fibrils are believed to be composed of fragments of immunoglobulin light chain proteins that are found natively in the body, it is hypothesized the immune system produces excess light chain which is internalized by cells, processed, and then exported to the extracellular milieu where the fibrils form by an unclear mechanism. The current thrust of research in the Trinkaus-Randall Lab is to understand how the light chain is internalized and processed within the cells before it is exported. Preliminary results indicate the light chain is cycled between the cell and the extracellular environment. More results also suggest subcellular localization patterns, including the nucleus and perhaps the Golgi apparatus. Further curious data have suggested the light chain is actively mobilized within the cell, perhaps along cytoskeletal structures. The primary goal of my project will be to further elucidate specific subcellular localization patterns of light chain and to begin to understand whether light chain affects cell metabolism by studying changes in gene transcription.

c. Hypotheses being tested

- i. 00131 κ 1 light chain localizes to the Golgi apparatus.
- ii. 00131 κ 1 light chain localizes to various structures within the endosomal and lysosomal pathways.
- iii. 00131 κ 1 light chain modifies gene transcription as determined by histone acetyl transferase assays.
- iv. 00131 κ 1 light chain is transported along actin fibers and/or microtubules
- v. 00131 κ 1 light chain localizes to the nucleus.

d. My Role

Because of previous work experience using a confocal microscope, Dr. Trinkaus-Randall has allowed me to perform my work primarily by studying the light chain using microscopy. My role will be to assist in culturing primary rat cardiac fibroblasts that I will treat with light chain. The cells, once treated with fluorescently-tagged light chain may be fixed and further stained to visualize other structures via fluorescence, such as Golgi or actin. I have also developed an imaging protocol to obtain movies of live cells that have been treated with fluorescent light chain in order to develop a kinetic model of movement of light chain throughout the cell. I will also work closely with the technician and MD/PhD student who are also actively involved with amyloid research in the lab in order to develop a global picture of internalization, localization and any metabolic changes elicited by light chain.

Guidelines For Writing A Scientific Research Proposal

Christian G. Meyer



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Research Methodology in Social Science Arvind Kumar, 2002 Yet Research May Be Regarded As A Useful Form Of Activity Research In The Sense Of Development Elaboration And Refinement Of Principles Together With The Collection And Use Of Empirical Materials To Help In These Processes Is One Of The Highest Activities Of A University And One In Which All Its Professors Should Be Engaged Research Need Not Be Thought Of As A Special Prerogative Of Young Men And Women Preparing Themselves For A Higher Degree Nobody Needs The Permission Of A University To Do Research And Many Of The Great Scholars Did Not Any Research In The Ordinary Sense Of The Term Yet They Succeeded In Contributing Significantly To The Existing Realms Of Knowledge Research Is A Matter Of Realising A Question And Then Trying To Find An Answer In Other Words Research Means A Sort Of Investigation Describing The Fact That Some Problem Is Being Investigated To Shed For Generalization Therefore Research Is The Activity Of Solving Problem Which Adds New Knowledge And Developing Of Theory As Well As Gathering Of Evidence To Test Generalization In View Of This The Present Attempt Is Made To Describe The Different Aspects Of Research Generally Being Conducted By The Social Scientists And It Is Hoped That It Will Be Of Great Use For All Those Concerned With Social Research

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for easy understanding Written by authors experienced in writing research grants and conducting research methodology courses for post graduates this book is a must for researchers as well as research students who need guidance to produce a clear and convincing research proposal

1976 National Science Foundation Authorization, Hearings Before the Subcommittee on Science, Research and Technology Of..., 94-1, February 18, 19, 20, 21, 1975 United States.

Congress. House. Science and Technology Committee,1975 **Research Fundamentals** Mr. Rohit Manglik,2023-06-23

Introduces research principles including hypothesis formulation data collection and analysis Covers experimental and non experimental methods for scientific inquiry *Delphi method for evaluating scientific research proposals in a neutrosophic environment*

Florentin Smarandache,Jesús Estupiñán Ricardo,Erick González Caballero,Maikel Yelandi Leyva Vázquez,Noel Batista Hernández, The scientific research proposal is part of the task to be carried out in academic and research institutions around the world This is a complex decision making problem because decision makers must determine the projects that are appropriate to the subjects addressed by the institution those projects must be achievable within a reasonable deadline they must have the financial means and the budget necessary to be carried out the staff must be sufficiently qualified and an optimum number of personnel must be available to succeed the tasks and not interfere with other research projects

Planning, Proposing, and Presenting Science Effectively Jack Parker Hailman,Karen B. Strier,1997-09-13 This concise guide to planning writing and presenting research in biology and behavioral ecology is intended for students at all levels The guidelines apply equally to independent projects for undergraduate theses as well as to doctoral dissertations and research aimed at publication The book discusses planning research writing a research proposal such as a formal proposal for a thesis or for a funding agency writing a research report such as a graduate thesis or a manuscript for publication in a research journal and presenting research at research seminars and scientific meetings The final chapter covers writing an effective CV An appendix gives some tips on how to write clearly **Writing Science Through Critical Thinking** Marilyn

F. Moriarty,1997 Written and extensively class tested with NSF NIH support this timely and useful text addresses a crucial need which is acknowledged in most universities and colleges It is the need for students to learn to write in the context of their field of study in this case science Although numerous how to writing books have been published few if any address the central pedagogical issues underlying the process of learning to think and write scientifically The direct connection between this writing skill and that of critical thinking is developed with engaging style by the author an English professor Moriarty s book is an invaluable guide for both undergraduate and graduate science students In the process of learning the specific requirements of organization demanded by scientific writing students will develop strategies for thinking through their scientific research well before they sit down to write This instructive text will be useful to students who need to satisfy a science writing proficiency requirement in the context of a science course a course in technical writing advanced composition or writing for the profession **Planning, Proposing, and Presenting Science Effectively** Jack P.

Hailman, Karen B. Strier, 2006-11-02 Publisher description *The Illustrated Guide to Social Science Research* Divya Sharma, 2024-07-09 This accessible and engaging textbook helps students to get to grips with key concepts issues and practices in social science research through the use of fun and informative illustrations and examples Written and illustrated by an experienced teacher of research methods in the social sciences each chapter explains research concepts while using everyday examples and illustrations to make applied research comprehensive to students It explains the step by step process for carrying out research through a range of topics and approaches including survey research research ethics sampling and experimental research Chapters also include learning objectives class activities key terms helpful hints and suggestions for further reading This book will be essential reading for any undergraduate research methodology class in the social sciences

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strategies utilized by veteran proposal writers Details recent NIH policy changes emphasizing Internet use **Developing Effective Research Proposals** Keith F Punch, 2006-10-02 Successful research requires effective and thorough preparation In this expanded and updated Second Edition of *Developing Effective Research Proposals* Keith Punch offers an indispensable guide to the issues involved in proposal development and in presenting a well considered plan for the execution of research Dealing with both qualitative and quantitative approaches to empirical research across the social sciences the Second Edition comprehensively covers the topics and concerns relevant to the subject and is organized around three central themes What is a research proposal who reads proposals and why How can we go about developing a proposal and What might a finished proposal look like New features of this edition include Expanded sections covering research strategy research planning and academic writing Examples of successful research proposals from across the social science disciplines A more comprehensive discussion of ethics A brand new glossary and chapter summaries The Second Edition will be welcomed by all those preparing or evaluating research proposals and will be invaluable across all areas of social science both basic and applied and for students undertaking quantitative qualitative and mixed method studies **The SAGE Handbook of Qualitative Research** Norman K. Denzin, Yvonna S. Lincoln, 2011-04-27 Now in its fourth edition this handbook is an essential resource for those interested in all aspects of qualitative research and has been extensively revised and updated to cover new topics including applied ethnography queer theory and auto ethnography **Catalog of Federal Domestic Assistance** United States. Office of Management and Budget, 1999 Identifies and describes specific government assistance opportunities such as loans grants counseling and procurement contracts available under many agencies and programs Catalog of Federal Domestic Assistance , 2008 Identifies and describes specific government assistance opportunities such as loans grants counseling and procurement contracts available under many agencies and programs

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