

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

Jessica J Manson



Guidelines For Writing A Scientific Research Proposal:

Guidelines For Writing A Scientific Research Proposal: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Guidelines For Writing A Scientific Research Proposal : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Guidelines For Writing A Scientific Research Proposal : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Guidelines For Writing A Scientific Research Proposal : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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