

## **CHAPTER 1:**

### **Starting Your Grant Application Process**

- Determine Your Project Impact
- Qualifying for an NIH Grant
  - Target the Right Institute or Center
  - Researcher & Institute Qualifications
  - Really Understanding Funding Opportunities
  - Identify and Get the PO That's Right for You
  - Get Your Program Officer to Work for You
- Develop a Winning Game Plan
  - Nail Down Your Strategy
  - Create a Schedule that Works for You
  - Creating Your Hypothesis
  - Writing Your Provisional Title
- Conclusion

## **CHAPTER 2:**

### **Get Reviewers Engaged in Your Application**

- Write a Project Summary That Stands Out
  - Engage Reviewers Fast
  - Project Summary Formatting Requirements
- Keep Your Project Narrative Brief
- Use Your Biosketch to Maximize Reviewer Confidence
  - Deciding Who to Include
  - Personal Statement (Biosketch Form Section A)
  - New and Early Investigator Personal Statement
  - Positions and Honors (Biosketch Form Section B)
  - Contribution to Science (Biosketch Form Section C)
  - Research Support (Biosketch Form Section D)
    - Crafting Successful Letters of Support
    - Multiple PIs Means Additional Documentation
- Conclusion

## **CHAPTER 3:**

### **Highlight Your Institution's Research Environment**

- Detailing Your Facilities and Other Resources
  - Resources That Support Independence
  - Applying as an Early Stage Investigator
- Resource Sharing Requirements
  - Data Sharing Plan
  - Sharing Model Organisms
  - NIH Genomic Data Sharing (GDS)
- Conclusion

## **CHAPTER 4:**

### **Write a More Successful Research Strategy and Specific Aims**

Perfecting Your Specific Aims

Four-Paragraph Specific Aims Template

Four-Paragraph Specific Aims Template Quick Reference

Research Strategy Road Map

Rigor and Transparency

Section 1: Significance

Section 2: Innovation

Using Strong Preliminary Data to Convince Reviewers

Section 3: Approach

Bringing Everything Together

Chart: NIH Difference Between Significance and Impact

Reviewer Advice When Submitting a Progress Report for Proposal Renewal/Revision

Integrate Overall Impact Throughout Your Application

Cite Your Bibliography and References

Conclusion

## **CHAPTER 5:**

### **Human and Animal Subject Regulation Guidelines**

Implement New 2019 IRB Final Rule

Vertebrate Animal Test Subjects Use, Justification, Pain & Distress

Euthanasia

Human Subjects Research

Determine if Your Research is Exempt or Non-Exempt

Select Agents

Conclusion

## **CHAPTER 6:**

### **Give Reviewers What They Want from Your Research Budget**

Strategy for Planning Your Budget

Determining Your Total Funding Amount

Which Budget Type is Right for You?

Modular or Detailed Budget (Flowchart)

Calculating Your Modular Budget

Detailed Budget Guidelines (R&R)

Screen 1: Personnel Allocations

Calculating Person Months

Screen 2: Direct Costs

Screen 3: Other Costs

Budget Justification (Detailed Budget)

Conclusion

## **CHAPTER 7:**

### **Final Checks and Balance to Complete Your Application**

Avoid These Simple but Critical Proposal Mistakes

Creating a Successful Cover Letter, and When to Send it  
Late Application Guidelines  
Submitting Videos (Non-Traditional Application Materials)  
Accurately Complete Your Assignment Request Form  
How to Best Make Peer Review Suggestions  
Adding a Responsible Conduct of Research Plan  
Auditing Your Content  
Review Your Proposal for Quality of Writing  
Submit Your Application  
When Should You Withdraw Your Application?  
Conclusion

## **CHAPTER 8:**

### **Demystify NIH Application Review & Scoring Processes**

Receipt and Assignment Process  
    How to Request a Change of Assignment  
    Inside the Scientific Review Meeting  
Scoring Criteria Mystery  
    Streamline Noncompetitive Applications  
    Five Criteria to Determine Your Score  
    Understanding Your Percentile Score  
Additional Considerations Review Criteria  
Get Answers to Your Summary Statement Questions  
Keeping Track of Your Application  
Finding Help at NIH When You Need it  
Submitting Additional Information  
    Five Steps for Successful Post-Submission of Materials  
    Just-in-Time Information  
Conclusion

## **CHAPTER 9**

### **Improve Funding Changes with Resubmissions**

Identify and Overcome Reasons for Rejection  
Effectively Respond to Reviewer Comments  
Utilizing Your Program Officer Before Resubmitting  
Know Review Lingo, and Use it to Your Benefit  
Emphasizing Your Research's Impact  
Nail Down Your Approach  
Write a Proper Introduction  
Conclusion

## **RESOURCES**

Acronyms  
R01 Application Completion Checklist  
Roster of NIH Institutes, Centers & Offices  
Key Definitions

## Miscellaneous R01 Grant Writing Tools

Research Involving Private Information or Biological Specimens

Select Agents and Toxins List

Select Agents and Toxins Exclusions

Calculating Person Months

Modular or Detailed Budget Flowchart

How to Request a Change of Assignment

Example R01 Grant Submission Task Completion Schedule

Deadline - NIH R01 Grant Submission

Applying as an Early Stage Investigator

NIH General Application Formatting Requirements

Project Summary Formatting Requirements

NIH ID Number Breakdown

NIH Difference Between Significant and Impact

Overall Impact Scores Range From 1 to 9

Preliminary Data: What to Include & What to Leave Out

Reviewer Advice When Submitting a Progress Report for Proposal Renewal/Revision

Four-Paragraph Specific Aims Template Quick Reference