

# Getting Started with your Research: Identifying Resources and Developing Strategies

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**Vice Chair of Medicine, Research | Associate Chief, Division of Nephrology**

# Objectives

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- To provide some basic information to starting a research project.
- To highlight potential research resources using UNMC as an example.
  - This information is primarily aimed at HUMAN research but applies to basic science studies as well.
  - Remember as PI, you have primary responsibility to your research subject/participants and to the proper execution of your study (not study coordinator or co-investigators).



# 1. First Step: Having an idea

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Define your subject area or interest.

**\*\* What is the hypothesis? \*\***



## 2. Decide on a Research Focus

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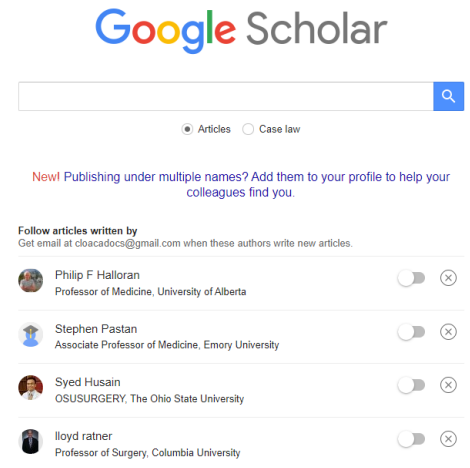
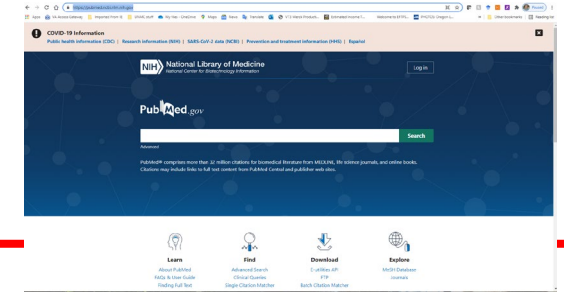
Write a literature review on your topic

- Create reference list
- Ensures complete and current knowledge of literature
- Identify literature voids or poor quality
- Is there a knowledge gap or not?

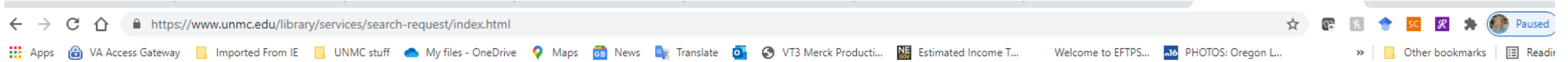


# 3. Search the Literature

- <https://pubmed.ncbi.nlm.nih.gov/>
- <https://scholar.google.com/>
- <https://www.scopus.com/home.uri>
- <https://www.webofscience.com/wos/bioabs/basic-search>
- <https://www.refseek.com/>
- Institutional librarian may provide searches (free of charge) or assist in scoping reviews (not usually free).



# UNMC Library Services



Search UNMC



## LEON S. MCGOOGAN HEALTH SCIENCES LIBRARY

Faculty and Staff | Students | Patients and Families

About Us | Collections | Journals | Resources | Guides and Tutorials | Services | Study Spaces | Contact Us

UNMC > Library > Services > Search Request

## Search Request

- 3D Printing
- Anatomical Model Booking
- Consumer Health Information Resource Service (CHIRS)
- Jim and Karen Linder Maker Studio
- Library Classes
- Order Articles & Books (Interlibrary Loan)
- ▼ Search Request
  - Search Request Form
- Systematic Reviews
- Thesis and Dissertation Services
- Wellness at the Library
- Writing Assistance

Literature search services are available at no charge to:

- UNMC, Nebraska Medicine, and Children's Hospital & Medical Center faculty and staff
- UNMC students
  - **For student class assignments or projects:** Make an appointment to work with a librarian or email [askus@unmc.edu](mailto:askus@unmc.edu) with a description of your search efforts so far (please include exact search terms and databases used) and search topic. A librarian will be in contact with advice.
  - **For student research endeavors:** A librarian can conduct a literature search for the following uses which include, but are not limited to capstone, theses, dissertation, or grant-supported work.

### [Search Request Form](#)

For urgent requests related to any patient care or to institutional responses to COVID-19, please select "Urgent Patient Care" on request forms for priority service. You may also email [Emily Glenn](mailto:Emily.Glenn@unmc.edu) or call 402-559-4085.

The average turnaround for literature requests is two weekdays (Monday-Friday) of receipt. If you don't receive search results within the two-day timeframe or have other questions, please contact us at [askus@unmc.edu](mailto:askus@unmc.edu).

### [Systematic Review Search Form](#)

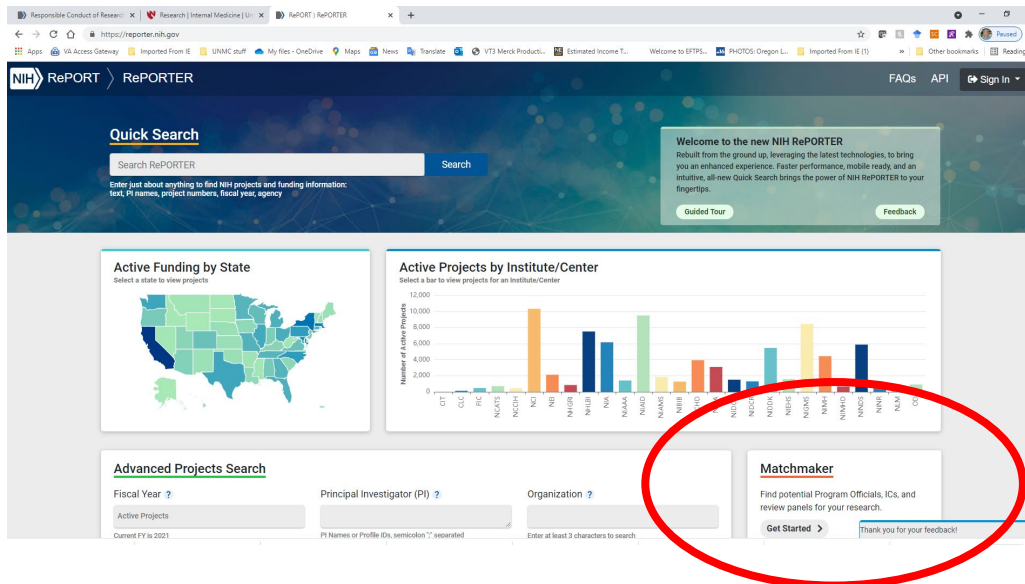
If you are considering a systematic review literature search, please review our [Systematic Reviews](#) guide and [Description of Services](#). Systematic Review searching is only available to UNMC and affiliated partners.

Nebraska residents needing health information for their or their family's health may request service at no charge from (CHIRS), the Consumer Health Information Resource Service.



## 4. Make sure this isn't already being done

- Is there someone already doing this work that isn't published?
  - <https://reporter.nih.gov/>
  - <https://reporter.nih.gov/matchmaker>
  - <https://wellcome.org/grant-funding/people-and-projects/grants-awarded>
  - <https://www.grantforward.com/index> (institutional membership required)



# MATCHMAKER

The screenshot shows a web browser with multiple tabs open, including 'Responsible Conduct of Research', 'Research | Internal Medicine', 'RePORTER RePORTER', 'Home | IRB | University of...', 'RSS', 'UNeHealth (Industry-Sponsored)', 'Home Page - UNeMed', and 'projectreporter.nih.gov'. The address bar shows the URL 'https://reporter.nih.gov/matchmaker'. The browser's bookmark bar includes 'Apps', 'VA Access Gateway', 'Imported From IE', 'UNMC stuff', 'My files - OneDrive', 'Maps', 'News', 'Translate', 'VT3 Merck Producti...', 'Estimated Income T...', 'Welcome to EFTPS...', 'PHOTOS: Oregon L...', and 'Other bookmarks'.

The main content area features three search options on the left and a large Matchmaker form on the right.

- Advanced Projects Search**: Search using specific criteria to find NIH projects and funding information. Includes a 'Get Started >' button.
- Publications Search**: Find publications associated with extramural or intramural funded projects using PubMed IDs (PMID) or PubMed Central IDs (PMC ID). Includes a 'Get Started >' button.
- Matchmaker**: Enter abstracts or other scientific text to find potential Program Officials, ICs, and review panels for your research. Includes a radio button selection for 'Similar Projects' (selected) and 'Similar Program Officials'. A text input field is present with a '15,000 characters left' indicator. 'Reset' and 'Search' buttons are at the bottom right.

At the bottom of the page, there is a footer section with the following text:

Initial public release of Modernized NIH RePORTER, version 2020.9, Release Notes  
Data as of 09/11/2021

About RePORT | FAQs | Glossary | Contact Us | Site Map | Data Access Policy | Accessibility Statement | Privacy Statement | Disclaimer | FOIA | Help Downloading Files

The RePORTER database is available to all public users at <https://exporter.nih.gov/>. As the data are available for bulk download, the RePORTER system reserves the right to block IP addresses that fail to adhere to instructions in the system's robots.txt files or submit requests at a rate that negatively impacts service delivery to other users. RePORTER reserves the right to terminate any automated query to the RePORTER application that negatively affects service delivery to other users.

Office of Extramural Research | National Institutes of Health | U.S. Department of Health and Human Services | USA.Gov - Government Made Easy | Grants.Gov

NIH... Turning Discovery Into Health®





## 5. Speak/Meet/Hear the Experts

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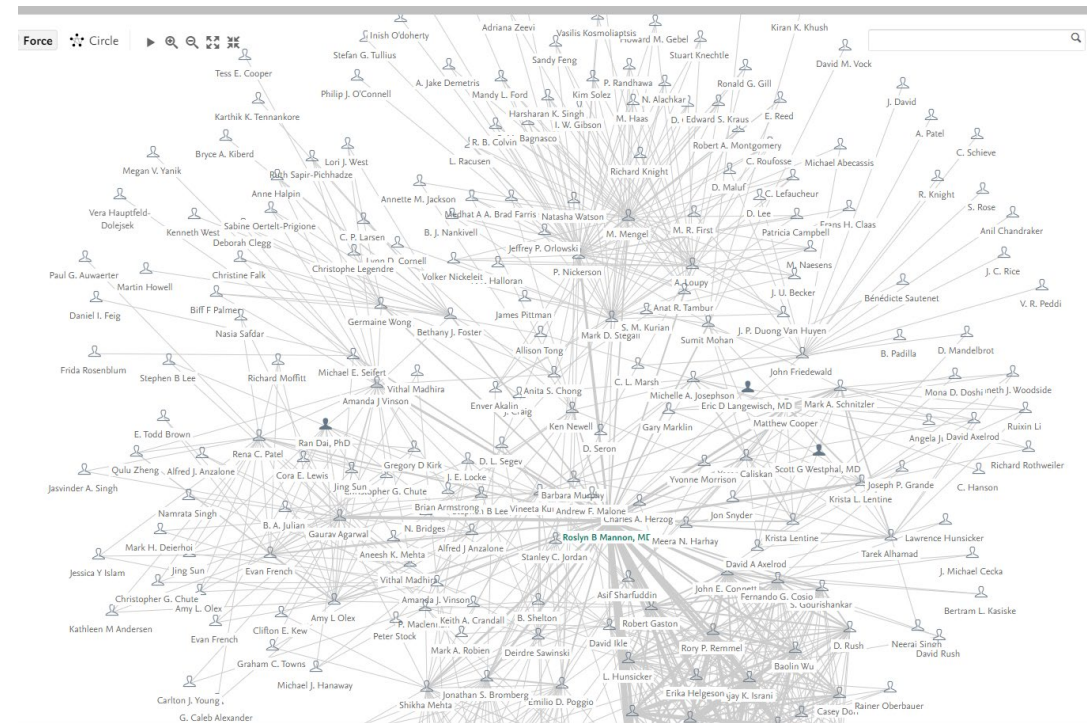
- Talk with your mentor
  - Prepare an “idea page” with your hypothesis, background and how you plan to study this question.
  - Make a figure of what you are trying to do!
- Attend meetings and listen to the topic areas of interest or visit posters
  - Ask questions



# Research Nebraska

- <https://experts.nebraska.edu/>
- Opportunity to see who may serve as potential collaborators or mentors (or competitors).

2017 – present















Authorization Error x NDC - NDC Data Enclave - TOTP x Two-Factor Authentication (2FA) x Authorization Error x Roslyn B Mannon - Similar Profiles x

https://experts.nebraska.edu/en/persons/roslyn-b-mannon/similar/

Apps VA Access Gateway Imported From UNMC stuff My files - OneDrive Maps News Translate VT3 Merck Products... Estimated Income T... Welcome to EFTPS... PHOTOS: Oregon L... Other bookmarks Reading is

Sort by Relevance Last Name

 <b>Clifford D Miles, MD</b> Nephrology - Associate Professor Internal Medicine, Nebraska Medicine - Staff Physician Center for Heart and Vascular Research - Member	 <b>Jianghu Dong, PhD</b> Biostatistics - Assistant Professor Nephrology - Courtesy Assistant Professor	 <b>Alan Norman Langnas, DO</b> Transplant - Professor Transplantation, Nebraska Medicine - Professor Fred & Pamela Buffett Cancer Center - Associate Member
 <b>Alexander T Maskin, MD</b> Transplant - Assistant Professor Transplantation, Nebraska Medicine - Staff Physician	 <b>Troy J Plumb, MD</b> Nephrology - Associate Professor, Dennis Ross Chair of Nephrology Internal Medicine, Nebraska Medicine - Staff Physician	 <b>Andre C Kalil, MD</b> Infectious Diseases - Professor Pathology & Microbiology - Courtesy Professor Internal Medicine, Nebraska Medicine - Staff Physician
 <b>Scott G Westphal, MD</b> Nephrology - Assistant Professor Great Plains ID&A-CTR - Member Internal Medicine, Nebraska Medicine - Staff Physician 1 shared	 <b>Brian P Boerner, MD</b> Diabetes, Endocrinology, & Metabolism (DEM) - Assistant Professor Internal Medicine, Nebraska Medicine - Staff Physician Interprofessional Academy of Educators - Member	 <b>Kirk W Foster, MD</b> Pathology & Microbiology - Assistant Professor Pathology, Nebraska Medicine - Staff Physician
 <b>Jennifer Lynn Larsen, MD</b> Office of Research - Vice Chancellor Research Internal Medicine - Louise & Morton Degen Professor of Internal Medicine Diabetes, Endocrinology, & Metabolism (DEM) - Professor Great Plains ID&A-CTR - Member Internal Medicine, Nebraska Medicine - Staff Physician	 <b>Stanley J Radio, MD</b> Pathology & Microbiology - Professor Pathology, Nebraska Medicine - Staff Physician	 <b>David F Mercer, MD</b> Transplant - Professor Transplantation, Nebraska Medicine - Staff Physician



# 6. Steps in Developing Your Program

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1. Develop the logical sequence of future studies
2. Realistically evaluate likelihood of success
  - Identify collaborators attempting to create research team
  - Ideally research would be complimentary to collaborators
  - Identify population to insure successful conduct of your study
3. Evaluate your situation



## 6a. Evaluate your situation

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- What is your experience level?
  - Beginner
  - Adv Beginner
  - Intermediate
  - Advanced
- Do you have institutional support?
  - Money
  - Space
  - People to help
  - Core resources
  - Protected time





## Manuscripts

- CTOT-16
- CSA HMGDI
- TT5 AbMR review 6/15 to AOC

- FDA summary
- DeRAF D6F Submit 6/17
- STAR 2019 AndT
- R10K
- qst

Podcast +  
Ed Boards  
AJT:  
JASN

Fellows  
SurgeryT  
Joe Blake  
Jessie B

studs  
A2  
EK  
MD  
Syl  
Kang

ASN  
cases

## Projects

CSA Nephrotic  
FB / Ab  
Tregs / Fibrosis  
rejection!  
urine transcripts  
Microbiome  
AOC - Downers  
R10K  
AKTRB

Biorep R4

Bx / outcomes  
AOC  
LINK AKTRB + Bx

QI  
Bx -  
MBO

## Protocols (peeps)

CTOT 21  
IC  
1 Treg  
11 st  
1 anti Treg

CCR5 IIII  
MallinKrodt IIII

TGI  
Astellas + FSGS - GA

CSL-Behring 3001

Veloxis - GT

Pending  
Vitacris  
Taleris  
Hoe in Action KIL

Other  
HAV - overton

organ on  
Dead  
Chimeric  
Natera

Closed  
Quark-B  
CRGS 716  
COT 1913

## Grants

VA merit 10/01/2016  
CTOT 21 /19  
Elmets p.1  
APOWO  
-Anc  
Stock CCR5  
O'Brien

Pending

R34 Peter<sup>2</sup>  
MVA - Natis  
Ancillary urine sig

BVANC  
2016: IIII  
2017: IIII II  
2018: IIII  
2019: II

## 6b. Key Issues In The Design Of Clinical Research Programs

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- Define your hypothesis
  - Define your primary and secondary endpoints
- Create data collection tools
- Develop a database (this becomes your historical control)
  - Collect data in the rawest form
  - “Test” analyze your data early to identify any data collection problems
- Participate in biobanks or repositories
- Develop the logical sequence of future studies



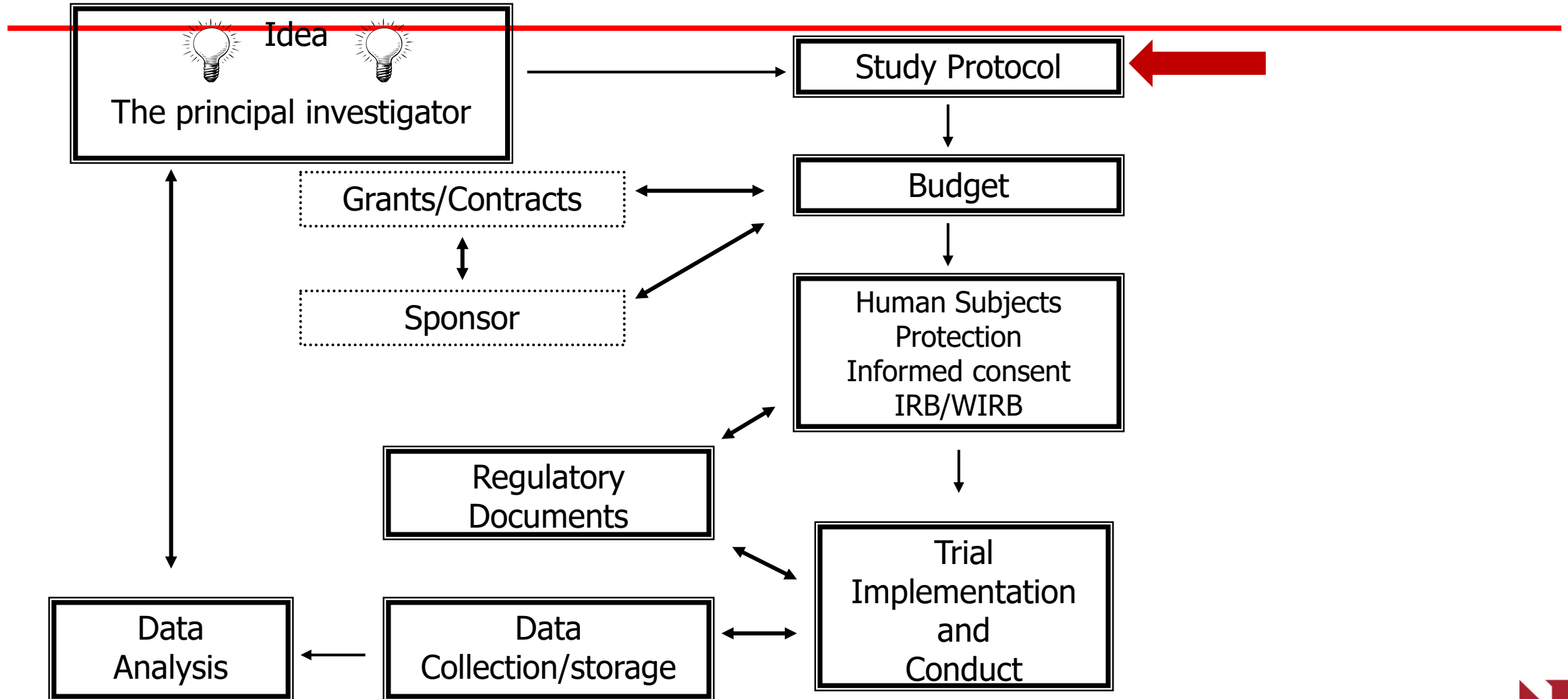
# Consider....

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- Most likely funding source
- Extent of support staff you need
- Who will manage the regulatory paperwork? Your budgets?
- Who will be screening and enrolling participants?



# The Clinical Research Enterprise





# Kidney and Transplant Research: Flexible Design (but big overhead)

Roslyn Mannon  
Associate Chief of Nephrology, Research

Research Manager  
Kathleen Tinley BS

**Transplant and  
Nephrology Clinical  
Research**  
NIH Funded  
Industry Sponsored  
Multiple PI's

**UNMC  
Core  
Resources**

**Lab Investigation**  
Mechanistic investigations  
into acute and chronic injury  
Mannon Lab

**SOT Informatics N3C**  
UNMC, VCU, UAB,  
Halifax

**Live On  
Nebraska**



# The People: Determine What You Need

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- Regulatory manager
- Budget / account manager
- Research nurse(s) versus research coordinators
- Biostatistics
- Bioinformatics
- Bench lab personnel



# 7. Advancing your research focus

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1. Collect **baseline** data
  - Conduct retrospective review, quality improvement project, etc.
  - Test outcome variables, data collection tools, data analysis methods
  - Publish and present results EVERYWHERE
2. Design a **pilot study** to provide baseline data for continued research
3. Design a **quality** study
  - Apply all aspects of quality research such as
    - randomization, blinding, stratification
  - Remove questions of investigator bias



# Answering Operational Questions

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- Your mentor (s)
- Your division/department research manager
- Your division/department grant coordinator
- Peers and other faculty
- Associate/Assistant Vice Chair of Research
- CTR coursework
- VCR research website (chock full of info:  
<https://www.unmc.edu/vcr/>)



# Resource Page (example, Dept Int Med UNMC)

- <https://www.unmc.edu/intmed/research/resresources/index.html>

The screenshot shows a web browser window displaying the 'College of Medicine' website. The page features a navigation bar with links to 'Admissions', 'Education', 'Research', 'Graduate Medical Education', and 'Academic Departments'. Below the navigation bar, there is a section titled 'Resource information' which lists various research resources. On the right side, there is a sidebar with links to 'Grant & Research Awards Information', 'Trainee / Student Research', and 'Faculty Publications'. The main content area lists the following resources:

- [The Great Plains IDeA-Center](#)
- [Grant/Manuscript editing assistance](#)
- [Institutional Review Board](#)
- [Required CITI Training in the Protection of Human Subjects](#)
- [Institutional Animal Care and Use Committee](#)
- [College of Medicine Research Handbook](#)
- [Eppley Institute for Research in Cancer and Allied Diseases](#)
- [VA Research Resources](#)
- [Clinical Trials](#)
- [Center for Clinical and Translational Research](#)
- [Sponsored Programs Administration](#)
- [Leon S. McGoogan Health Sciences Library](#)
- [Association of American Medical Colleges' Faculty Career Development](#)



# Assessing your Skill Sets

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- Writing
  - Have I written an abstract?
  - Have I written a paper?
  - Have I written a grant?
- Presentation skills
- Research specific skills
  - Bench versus desktop
- Scope of work and need for collaborators
  - Research Nebraska is a good local start
  - Ask your mentor!



# Different Modalities of Research Communication

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- Abstracts
  - Brief presentation of your project with results that you intend to publish
  - Typically, about 250 words, format based on meeting
  - Posters: templates are available internally but important to follow the meeting guidelines.
- Talks/presentations
  - Do you need public speaking practice?
  - Time limits: budget about 30sec-1min per slide
    - More complex slides with multiple panels need more
    - REHEARSE use timer (PowerPoint)
  - Beginning, middle, ending and remember acknowledge funding sources and collaborators/key contributions



# Manuscripts

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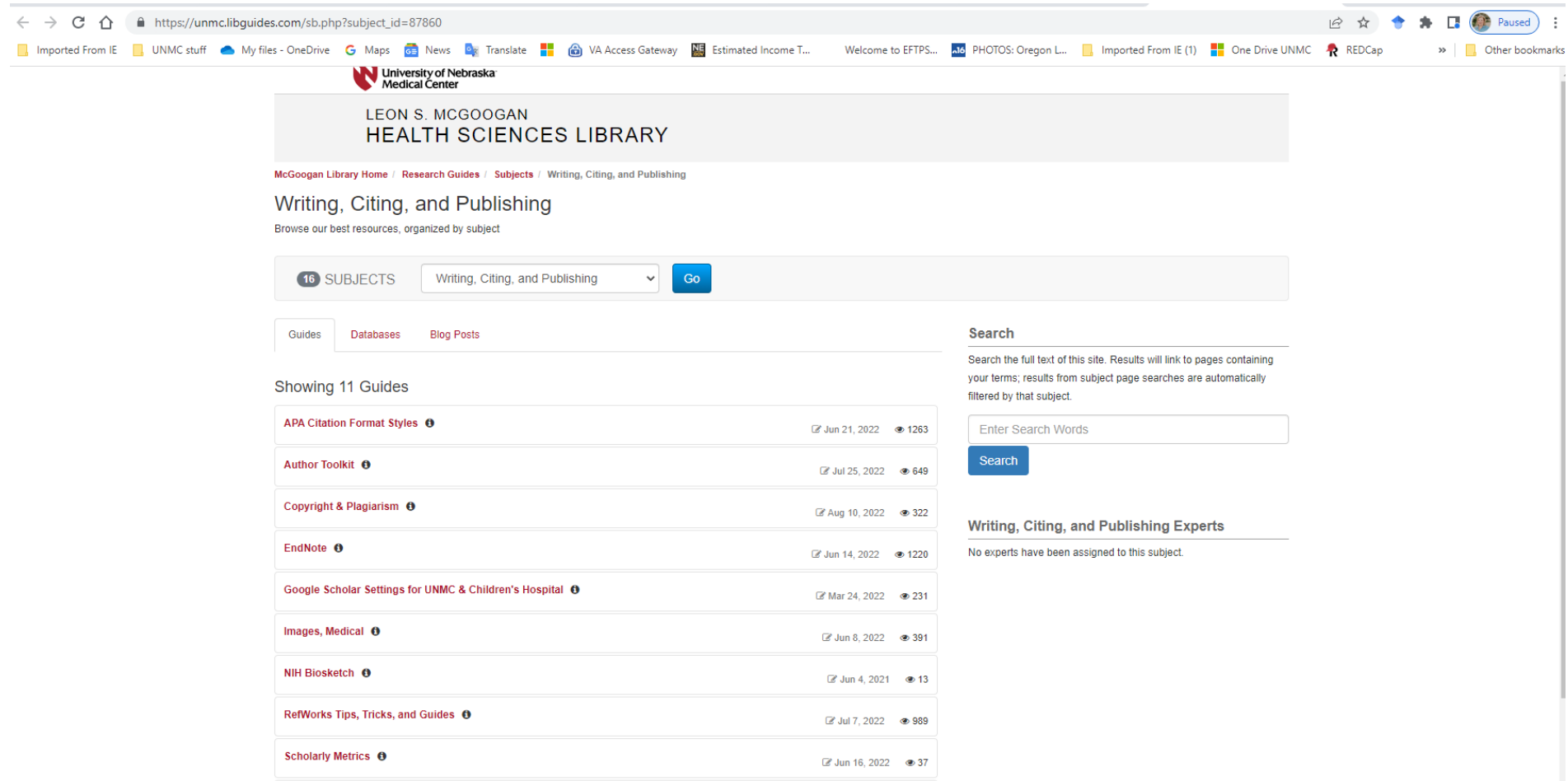
- Consider target journal first and foremost
  - Discuss with mentor
  - Is this preprint worthy?
- Review author guidelines for that journal
  - They are specific; more journals are “kicking out” submissions after review by publishing staff that overlook these guidelines.
  - Be ready to respond and resubmit (reject and allow resubmission)
  - Be ready for rejection and next submission
  - Try to address criticisms without passion (negativity) and move it to next journal





# Useful Guides for Basic Publishing for UNMC

## <https://unmc.libguides.com>



The screenshot shows a web browser window with the URL [https://unmc.libguides.com/sb.php?subject\\_id=87860](https://unmc.libguides.com/sb.php?subject_id=87860). The browser's address bar and tabs are visible at the top. The website header includes the University of Nebraska Medical Center logo and the text "LEON S. MCGOOGAN HEALTH SCIENCES LIBRARY". Below the header, a breadcrumb trail reads "McGoogan Library Home / Research Guides / Subjects / Writing, Citing, and Publishing". The main heading is "Writing, Citing, and Publishing", followed by the subtext "Browse our best resources, organized by subject". A search bar with a dropdown menu set to "Writing, Citing, and Publishing" and a "Go" button is present. Below the search bar, there are tabs for "Guides", "Databases", and "Blog Posts". The "Guides" tab is selected, and it shows "Showing 11 Guides". A list of guides is displayed, each with a title, a checkmark icon, a date, and a view count. To the right of the guides list, there is a "Search" section with a text input field and a "Search" button. Below the search section, there is a "Writing, Citing, and Publishing Experts" section with the text "No experts have been assigned to this subject."

University of Nebraska Medical Center

LEON S. MCGOOGAN  
HEALTH SCIENCES LIBRARY

McGoogan Library Home / Research Guides / Subjects / Writing, Citing, and Publishing

Writing, Citing, and Publishing

Browse our best resources, organized by subject

16 SUBJECTS Writing, Citing, and Publishing Go

Guides Databases Blog Posts

Showing 11 Guides

APA Citation Format Styles ⓘ	✓ Jun 21, 2022	1263
Author Toolkit ⓘ	✓ Jul 25, 2022	649
Copyright & Plagiarism ⓘ	✓ Aug 10, 2022	322
EndNote ⓘ	✓ Jun 14, 2022	1220
Google Scholar Settings for UNMC & Children's Hospital ⓘ	✓ Mar 24, 2022	231
Images, Medical ⓘ	✓ Jun 8, 2022	391
NIH Biosketch ⓘ	✓ Jun 4, 2021	13
RefWorks Tips, Tricks, and Guides ⓘ	✓ Jul 7, 2022	989
Scholarly Metrics ⓘ	✓ Jun 16, 2022	37

Search

Search the full text of this site. Results will link to pages containing your terms; results from subject page searches are automatically filtered by that subject.

Enter Search Words

Search

Writing, Citing, and Publishing Experts

No experts have been assigned to this subject.



# Manuscript Writing Workshops

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- Child Health Research Institute (CHRI)
  - Writing interest group
- PHAR 814 – 1 credit manuscript writing class in the Department of Integrative Physiology & Molecular Medicine
- Office of Graduate Studies – pending
- Department of Internal Medicine Writing Group



# Grant Submissions: A needed skill

- Grant writing workshops
  - CTR 901/903 to refine project
  - Mentor guidance
- IDeA-CTR workshop
- Office of Postdoctoral Education Programming at UNMC Website
- Hannover contract—recorded lectures available (<https://www.unmc.edu/com/research/hannover/index.html>)
- VCR Research Editorial Office (see website); \$32/hour
- NIH with institute specific workshops (NCI, NIDDK)
- CHVR UNMC

tent > Office of Postdoctoral Education Programming > Grant writing workshop

# Workshop

Grant Writing is an essential skill for any successful research scientist or academic. The Office of Postdoctoral Education therefore offers frequent frequent grant writing workshops for our scholars.

Grant Writing Seminar with Paul Casella, 8 June 2022

Paul Casella, an adjunct professor and consultant to the faculty at the University of Iowa Carver College of Medicine, presented a workshop on *Writing for Publication, Writing Effective NIH Proposals, Strategies for Speaking for Success, and Effective Medical and Scientific Presentations*. Presented by the UNMC Office of Postdoctoral Education and Great Plains IDEA. Clinical and Translational Research.

Paul Casella: Writing Effective NIH Grant Applications

Paul Casella: Recent Recordings of Professional Development Seminars, University of Iowa



# Center for Heart and Vascular Studies UNMC

→ ↻ 🏠 unmc.edu/chvr/research/research-opportunities/index.html

Imported From IE UNMC stuff My files - OneDrive Maps News Translate VA Access Gateway Estimated Income T... Other bookmarks

About Us Research Membership Seminars & Events

UNMC > CHVR > Research > Research Opportunities

## Research Opportunities

▶ Research Infrastructure

▼ Research Opportunities

• Focus Groups

• Frontiers in Cardiovascular Research Seminar Series

• Provider Pitch

• Early Career Researcher Roundtable

• Lunch N' Learn Seminars

• Annual Research Retreat

• K Award Workshop

• Grant Writing Bootcamp

• Mock Study Section

• Mentoring Program

• Manuscript Writing Groups

▶ Research Funding

The Center provides platforms for interaction that inspire collaborations and enhance research success. Activities are designed to engage scientists, clinician scientists, and health care providers. Additionally, while the CHVR provides a framework for each activity, leadership of individual opportunities is provided by CHVR members. Thus, these programs provide opportunities to grow future leaders in cardiovascular research.

### Research discussions and seminars

- [Focus Groups](#)
- [Frontiers in Cardiovascular Research Seminar Series](#)
- [Provider Pitch](#)
- [Early Career Research Roundtable](#)
- [Lunch n' Learn Seminars](#)
- [Annual Center Research Retreat](#)

### Grant writing skills development

- [K-award Workshop](#)
- [Grant Writing Bootcamp](#)
- [Mock Study Section](#)

### Mentoring

- [Mentoring Program](#)
- [Manuscript Writing Groups](#)



<https://www.unmc.edu/chvr/index.html>



# Research Data Management

- This is already mandated at the VA for those applying for VA Research Funding.
- This is a new require for NIH funding as of January 2023.
- Specific requirements for genomic information.
  - <https://sharing.nih.gov/data-management-and-sharing-policy/about-data-management-and-sharing-policies>

OMB No. 0925-0001 and 0925-0002 (Rev. 07/2022 Approved Through TBO)  
**PREVIEW – DRAFT**

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**DATA MANAGEMENT AND SHARING PLAN**

If any of the proposed research in the application involves the generation of scientific data, this application is subject to the NIH Policy for Data Management and Sharing and requires submission of a Data Management and Sharing Plan. If the proposed research in the application will generate large-scale genomic data, the Genomic Data Sharing Policy also applies and should be addressed in this Plan. Refer to the detailed instructions in the application guide for developing this plan as well as to additional guidance on [sharing.nih.gov](https://sharing.nih.gov). The Plan is recommended not to exceed two pages. Text in italics should be deleted. There is no "form page" for the Data Management and Sharing Plan. The DMS Plan may be provided in the format shown below.

**Element 1: Data Type**

**A. Types and amount of scientific data expected to be generated in the project:**  
*Summarize the types and estimated amount of scientific data expected to be generated in the project.*

**B. Scientific data that will be preserved and shared, and the rationale for doing so:**  
*Describe which scientific data from the project will be preserved and shared and provide the rationale for this decision.*

**C. Metadata, other relevant data, and associated documentation:**  
*Briefly list the metadata, other relevant data, and any associated documentation (e.g., study protocols and data collection instruments) that will be made accessible to facilitate interpretation of the scientific data.*

**Element 2: Related Tools, Software and/or Code:**  
*State whether specialized tools, software, and/or code are needed to access or manipulate shared scientific data, and if so, provide the name(s) of the needed tool(s) and software and specify how they can be accessed.*

**Element 3: Standards:**  
*State what common data standards will be applied to the scientific data and associated metadata to enable interoperability of datasets and resources, and provide the name(s) of the data standards that will be applied and describe how these data standards will be applied to the scientific data generated by the research proposed in this project. If applicable, indicate that no consensus standards exist.*

**Element 4: Data Preservation, Access, and Associated Timelines**

**A. Repository where scientific data and metadata will be archived:**  
*Provide the name of the repository(ies) where scientific data and metadata arising from the project will be archived; see [Selecting a Data Repository](#).*

**B. How scientific data will be stored and maintained:**

OMB No. 0925-0001 and 0925-0002 (Rev. 07/2022 Approved Through TBO)  
**PREVIEW – DRAFT**

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**Element 5: Access, Distribution, or Reuse Considerations**

**A. Factors affecting subsequent access, distribution, or reuse of scientific data:**  
*NIH expects that in drafting Plans, researchers maximize the appropriate sharing of scientific data. Describe and justify any applicable factors or data use limitations affecting subsequent access, distribution, or reuse of scientific data related to informed consent, privacy and confidentiality protections, and any other considerations that may limit the extent of data sharing. See [Frequently Asked Questions](#) for examples of justifiable reasons for limiting sharing of data.*

**B. Whether access to scientific data will be controlled:**  
*State whether access to the scientific data will be controlled (i.e., made available by a data repository only after approval).*

**C. Protections for privacy, rights, and confidentiality of human research participants:**  
*If generating scientific data derived from humans, describe how the privacy, rights, and confidentiality of human research participants will be protected (e.g., through de-identification, Certificates of Confidentiality, and other protective measures).*

**Element 6: Oversight of Data Management and Sharing:**  
*Describe how compliance with this Plan will be monitored and managed, frequency of oversight, and by whom at your institution (e.g., titles, roles).*



# Funding Sources Internal When Starting Out:

## COM Internal Grants

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(<https://www.unmc.edu/com/research/internal-opportunities-grants/index.html>)

- Program of Excellence – Physician-Scientist Training Program (Jr. faculty, retention of fellows)
  - \$200K total over 2 years
  - Developed to provide research-oriented residents/fellows or junior faculty the opportunity to develop careers in biomedical research
- Mary and George White Fund for Medical Research (Jr faculty)
  - \$55K, one award/year
  - Aim: to push the limit of breakthrough thinking and go outside the constraints of “safe science.”
- Frances E. Lageschulte and Evelyn B. Weese New Frontiers in Medical Research Fund (All ranks)
  - \$50K per year
  - Aim: projects that explore innovative directions in medical science and offer the greatest hope for significant improvement in healthcare.



# More Internal Options: Office of the VCR

<https://www.unmc.edu/vcr/funding/>

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- Clinical Translational Research Mentored Scholar Program (CTR-MSP)
  - \$25K / 1 year
  - Reviewed monthly
- Core facility vouchers
- Diversity grant
  - \$50K / year x 2 years
  - Focus is on retaining diverse faculty or those committed to research in this area
- Ittner Pediatric Fund Program and Peds Research Grants
  - \$45K for one year and varies but available quarterly
- Otis Glebe Research Foundation
  - \$90,000 to emphasize translation of lab findings to clinical practice and applying research findings to the community to enhance adoption of best practices.



# IDeA CTR

<https://gpctr.unmc.edu/2021/09/10/pilot-funding-opportunities/>

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G R E A T P L A I N S  
IDeA | Clinical and  
Translational Research

- **Pilot grant awards \$50K/year**
  - Team Development
  - Team Research
  - Heart and Vascular Research
  - Tech Transfer (to facilitate translation)
- **Research Studios**
  - (1) review of an aims page
  - (2) grant review before submission
  - (3) brainstorming session for investigators who have hit a funding roadblock





# Research Resources: UNMC Center for Heart and Vascular Research (CHVR)

University of Nebraska  
Medical Center

Search UNMC

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CENTER FOR HEART & VASCULAR RESEARCH

About Us   Research   Membership   Seminars & Events

UNMC > CHVR > Research > Research Funding

## Research Funding

- Research Infrastructure
- Research Opportunities
- **Research Funding**
  - Annual Retreat Presentation Awards
  - Core Vouchers
  - Mini-Sabbaticals
  - Payline Grants
  - Provider-Partner Grants
  - Pilot Grants
  - Research Manuscript Awards
  - Staff and Trainee Travel Awards
  - Summer Student Stipends

The CHVR provides a variety of funding opportunities to promote advances in research by supporting high quality publications, networking, and projects.

CHVR director and associate director will select funding priorities for each year, with approval by Steering Committee

CHVR Members must be in good standing to become eligible to receive CHVR funding. Good standing is defined as those who meet and maintain criteria for membership (e.g., attend at least six CHVR events per year, maintain current ORCID ID, actively engage in cardiovascular research).

### Research Project Funding

[Pilot Projects](#)

[Payline Grants](#)

[Provider-Partner Grants](#)

[Core Vouchers](#)

### Presentation and Publication Awards

[Annual Retreat Presentation Awards](#)

[Research Manuscript Award](#)

### Professional Development

[Summer Student Stipends](#)

[Staff and Trainee Travel Awards](#)

[Mini-Sabbaticals](#)



# Funding Sources External

<https://www.unmc.edu/vcr/about/grl.html>

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- NIH K/R awards
- Society grants programs often have targeted funding for early investigators (e.g. AHA, ASN, ASCO, ACR)
- Foundations relevant to your research (e.g. March of Dimes, Alzheimer's Association, JDRF, Leukemia and Lymphoma Society)
- Know the aims of these organizations, read the RFA carefully to be sure your work fits their scope
- Industry funded studies



# Research Resources: Center for Clinical and Translational Research

<https://www.unmc.edu/cctr/>

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- Research resources page is most helpful
- <https://guides.unmc.edu/books/research-handbook>
- Study specific items with links
  - **Sponsored Projects Administration** (SPA)
  - **UNeHEALTH** (the contracting and fiscal arm for industry-funded clinical trials on behalf of University of Nebraska Medical Center)
  - **UNeMed** (the technology transfer & commercialization office for UNMC and UNO)
  - Budget construction (Katie Penas)
  - Clin Trials.gov registration
  - IRB



# Sponsored Projects Administration (SPA)

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- Known as Grants and Contracts at other academic centers
- Submissions for all grant applications must be sent to them for review and approval on an institutional level
  - Submission approval is through **ADIS (Academic Department Information System)**
  - Submission is usually done by a grant manager or admin in your division / department
  - They need time, so with major NIH deadline, give them at least a month's heads up, and they will tell you deadlines for your submission and upload (maybe 1-2 weeks, sometimes longer)



# UNeHealth

<https://www.unmc.edu/spa/clinical-trials/unehealth/index.html>

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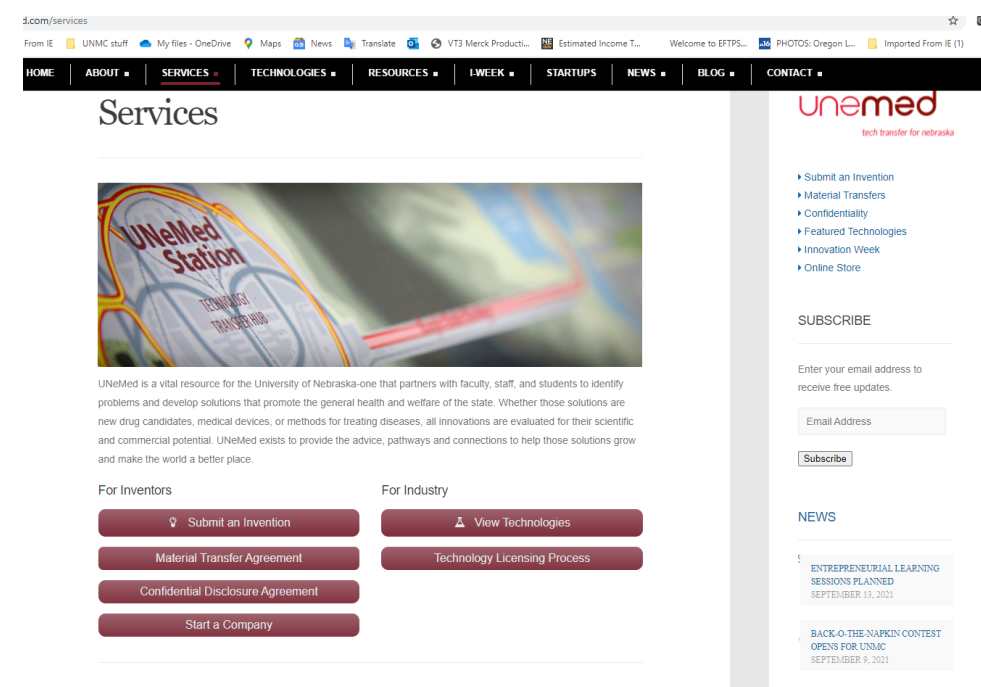
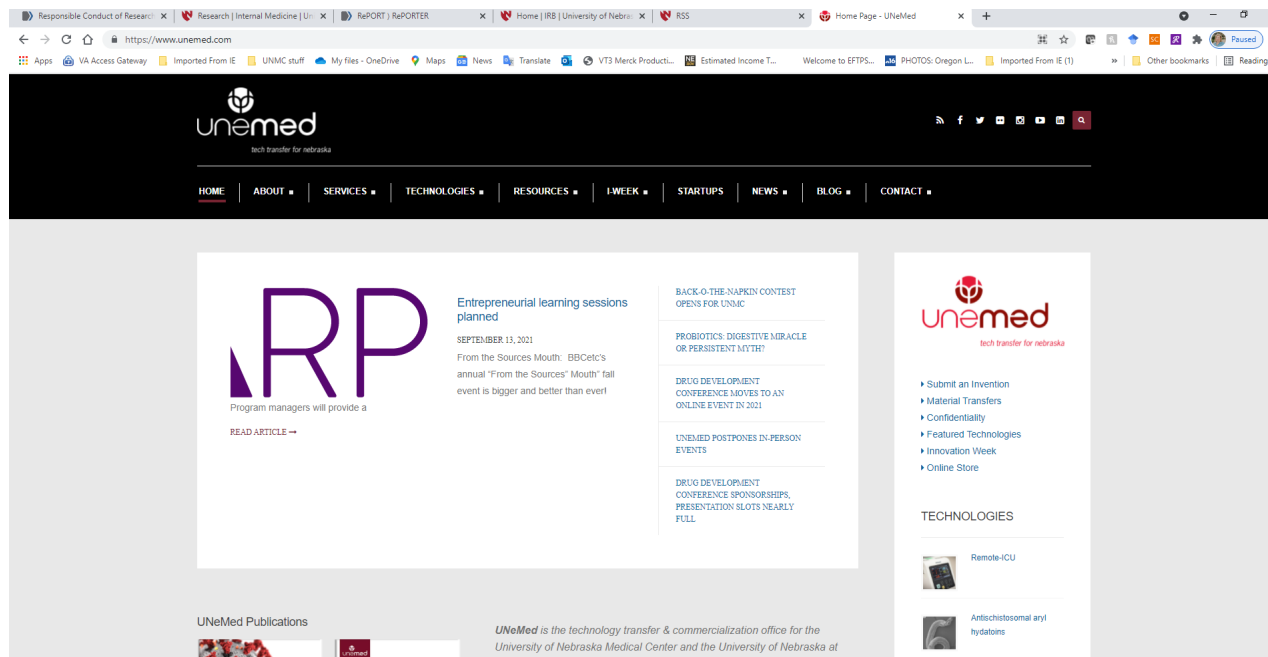
- Serves to facilitate the growth and development of **industry-funded** clinical research
- Confidentiality Agreements
- Compassionate use agreements and EUA's
- Housed in the CCTR and acts as the contracting arm for industry-funded clinical research on behalf of UNMC.
  - A single “front door” for industry sponsored clinical trial contracting
  - Efficiencies to best support investigators conducting clinical research
  - Clinical research contracting resources for the enterprise



# UNeMed

## <https://www.unemed.com/>

- Technology transfer (patents, material transfer agreements [MTA], CRADAs)
- Advancing and commercializing biomedical technology



# **Make sure of the following: if humans or human data are involved.....**

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- Does your project require IRB approval?
    - Is this a clinical study that involves subject interaction/intervention?
    - Or is it health information access?
    - Is it using a data base that requires institutional approval/CRADA or MTA/project proposal approval?
- <https://www.unmc.edu/irb/>
- Policies and procedures manual, IRB deadlines, access to Research Support System (RSS) application.



# Regulatory Approvals: RSS

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- Institutional Animal Care and Use Committee (IACUC)
- Institutional Review Board (IRB)
  - You can reach out in advance to get advice
  - Even if you do not need an IRB, you may need an exemption letter
- If you have not done this before, get help:
  - Ask your mentor
  - Ask a member in your division
  - Ask the coordinators for these committees






# Research Support Services: <https://net.unmc.edu/rss/>

Browser tabs: Login - NCATS Unified Auth..., Home | VCR | University of N..., Author Services, In Memoriam: Barbara T Mur..., In Memoriam: Barbara T Mur..., Launch Meeting - Zoom, RSS

Address bar: <https://net.unmc.edu/rss/>

Quicklinks Directory




UNMC  
UNIVERSITY OF NEBRASKA  
MEDICAL CENTER

UNMC ITS - Application Services


## RSS - Research Support System

Log In


sign in using your university's credentials




University Nebraska  
Omaha




University Nebraska  
Lincoln



University of  
Nebraska  
Central Administration



Creighton  
UNIVERSITY



Select your university  
from the InCommon  
participant list

If your university is  
not a member of  
InCommon, you may  
request a guest  
account [here](#)



# RSS Login

← → ↺ 🏠 https://net.unmc.edu/rss/home.php

Apps VA Access Gateway Imported From IE UNMC stuff My files - OneDrive Maps News Translate VT3 Merck Producti... Estimated Income T... Welcome to EFTPS... PHOTOS: Oregon L... Imported From IE (1) >> Other bookmarks Reading list

UNMC ITS-Application Services

zoom: + - reset 🏠 🌐 📄 📧 📅 ⚙️ sign out

## RSS - Research Support System

Friday, September 10, 2021

Search

IRB IBC **UNMC IACUC** CM **CORE** **LINKS** EHS SPA/UNEHEALTH UNO IACUC HELP

Advanced Menu

### RSS Alert

1. Feedback Feature Available (view message) (06/11/2020)

### Action Items For You

No Action Items For You

### Documents and Education

[IRB Policy & Procedures](#)

[IACUC Policy & SOPs](#)

[IBC online instructions for an existing paper application](#)

[IBC online instructions for a new application submission](#)

### RSS Feature of the Week

[view more features](#)

[Search the UNMC campus directory](#)

by clicking on the 📄 icon top right.

[More Info](#)

### Quote of the Day

A lie gets halfway around the world before the truth has a chance to get its pants on. -- Sir Winston Churchill

### Research Support System Statistics

[RSS view more](#)

3643 Unique RSS users in year 2019

[UNO IACUC view more](#)

13 UNO IACUC protocol applications started in last 365 days

### IRB: Active Protocols Listed as Personnel

Total: 10 📄 📊

[list view](#) [graph view](#)

status	total
Principal : BiomedORBehavior	1
Principal : CIRBBioMed	1
Principal : HBM-Bank	1
Principal : MedRecs	1
Peer Reviewer : MedRecs	1
Secondary : BiomedORBehavior	1
Secondary : CIRBBioMed	3
Secondary : Exempt	1

### IRB: protocols Listed as PI

Total: 4 📄 📊

[list view](#) [graph view](#)

status	total
Active	2
In Review	2

### IRB: Active protocols Listed as Scientific/Peer Review

Total: 1 📄 📊

[list view](#) [graph view](#)



ctr.14446.pdf

Show all

9:49 AM



# UNMC Clinical Research Cores – typical of other medical centers

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- Investigational Pharmacy
- Investigational Pathology
- Biobank lab
- Research nursing core
  - Rent a research nurse for clinical projects
- Insurance predeterminations and pre-authorizations



# Final words

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- Identify a suitable mentor: they may not be in your department.
- Start small and work up.
- It is really your ideas and energy that will keep things going
- Hire great people!
- As PI, you are responsible for all aspects, so make sure you have the skills, training, and mentorship for clinical interventional studies. If not, consider being a coinvestigator first, and “learning the ropes”.





# Questions?

