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**Resources for Preparing an R01 Grant Application**

**2023 Writing your first R01 seminar: Part 1**

**[Part 1 Recording](https://somumaryland.sharepoint.com/:v:/r/sites/OfficeofResearchCareerDevelopmentSeminarRecordingsSlides/Shared%20Documents/General/Research%20Skills%20Seminar%20Series/R01%20Workshop%20Part%201/Recording_Part%201_%20Writing%20your%201st%20NIH%20R01%20Grant%20Application%20091223.mp4?csf=1&web=1&e=QwuvWy)**

**[Slides](https://somumaryland.sharepoint.com/:b:/r/sites/OfficeofResearchCareerDevelopmentSeminarRecordingsSlides/Shared%20Documents/General/Research%20Skills%20Seminar%20Series/R01%20Workshop%20Part%201/R01%20writing%202023%20part%201.pdf?csf=1&web=1&e=UB347h)**

* What is a R01 and why is it so important? 02:08-06:55
* Components of a R01and NIH budget 08:40-13.44
* How to structure your proposal and aims? 13:44-20:39
* NIH score system and major weaknesses to avoid 25.50-38:50
* What goes into a specific aims page 38:50-41:20
* How do you demonstrate innovation 41:21-45:10
* Early Stage Investigator 49:08-50:20
* Recommended timeline for preparing first R01 50:20-54:45

**2023 Writing your first R01 seminar: Part 2**

**[Part 2 Recording](https://somumaryland.sharepoint.com/:v:/r/sites/OfficeofResearchCareerDevelopmentSeminarRecordingsSlides/Shared%20Documents/General/Research%20Skills%20Seminar%20Series/R01%20Workshop%20Part%202/Recording_Writing%20your%201st%20NIH%20R01%20grant%20PART%202%20091923.mp4?csf=1&web=1&e=83VLHp)**

**[Slides](https://somumaryland.sharepoint.com/:b:/r/sites/OfficeofResearchCareerDevelopmentSeminarRecordingsSlides/Shared%20Documents/General/Research%20Skills%20Seminar%20Series/R01%20Workshop%20Part%202/R01%20writing%202023%20part%202.pdf?csf=1&web=1&e=eRlWcS)**

* Targeting the most suitable study section 01:18-05:30
* Know your reviewers and how to make them your advocates  05:31-10:59
* Tips on effective grant writing and formatting  11:00-26:00
* How to use NIH funding statistics 26:00-29:20
* Rigor/Reproducibility, alternate limitation, alternate approach 29:20-32:00
* R01 versus other research grants 32:00-35:00
* Preparing a winning mindset for grant writing  35:00-46:00
  + Timeline, outline, master to-do list, and writing team

\* Contact [Stacie Mendoza](mailto:smendoza@som.umaryland.edu) if you experience issues with accessing the recording and slides mentioned above

**Biostatistical Support**

**ICTR Biostatistics Core Services**

<https://www.umaryland.edu/ictr/investigator-resources/ictr-biostatistics-core-services/>

Assists researchers in the appropriate use of biostatistics in the design, implementation, and interpretation of clinical and translational research studies. *Can get up to 25 hours free support.*

**Designing Figures**

**Center for Data and Bioinformation Services (CDABS)**

<https://guides.hshsl.umaryland.edu/dataVisualizationService>

The Center for Data and Bioinformation Services provides a rich learning environment with the resources and in-house experts to spark your creativity and streamline your data visualization. Data visualization service assists you in grant-ready data visualizations, such as an infographic.

**BioRender**

[https://www.biorender.com/](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.biorender.com%2F&data=05%7C02%7CSMendoza%40som.umaryland.edu%7C96e6c51a735d40823d8008dc3255c7e7%7C717009a620de461a88940312a395cac9%7C0%7C0%7C638440591208853346%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=xhULorsfEMzACJjr3IclQLv54Mi19kPkP6S6gfJeAQc%3D&reserved=0)

Software to create professional scientific figures. Free membership available which includes 50,000+ icons and 5000+ templates to use for creating figures.

**Funded Grant Examples & Templates**

**CARTI Funded Grants Library**

[https://somumaryland.sharepoint.com/sites/research\_collaboration/FGR/SitePages/Home.aspx](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsomumaryland.sharepoint.com%2Fsites%2Fresearch_collaboration%2FFGR%2FSitePages%2FHome.aspx&data=05%7C02%7CSMendoza%40som.umaryland.edu%7C96e6c51a735d40823d8008dc3255c7e7%7C717009a620de461a88940312a395cac9%7C0%7C0%7C638440591208859825%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=z9%2B%2B7D08Uzp2E56jI9JlYxnXtLEgT7UQSDMaMPE9Abs%3D&reserved=0)

CARTI’s funded grant library includes funded NIH R01 applications. Additionally, you can find templates and

resources for completing administrative portions of your application, including the facilities and resources

description and the data management and sharing (DMS) plan. To request access email Stacie Mendoza

([smendoza@som.umaryland.edu](mailto:smendoza@som.umaryland.edu)).

**Grant Review**

**CARTI Individual Consultations for R Grant Applications & Summary Statements**

<https://www.medschool.umaryland.edu/carti/writing--communication-instruction/>

Christy Chang, PhD, Senior Program Leader for CARTI, is available to meet with faculty to discuss writing their first R01 NIH application. Consultations include readiness and eligibility for R01 level funding, specific aims, and other elements of a R01 application. In addition, Dr. Chang is available to discuss strategies for addressing summary statements and revising research grant applications for resubmission. To request a consultation, contact Dr. Chang at [cchang@som.umaryland.edu](mailto:cchang@som.umaryland.edu).

**ICTR Studio Program**

<https://www.umaryland.edu/ictr/investigator-resources/ictr-studios-consult-services/>

Researchers can request one of seven studio formats: hypothesis generation, study design, grant review, implementation, analysis and interpretation, manuscript review, or translation. After completing a studio application, a studio “manager” reviews the request, assembles a panel of three to six experts (research faculty from multiple disciplines), and circulates the pre-review materials.