NIH Proposal Checklist—R01/R03/R21 Clinical Trial Not Allowed **July 2020**

This document does not replace the NIH guidelines –please read the guidelines and solicitation thoroughly before preparing your proposal. The NIH SF424 Application Guide can be found at https://grants.nih.gov/grants/how-to-apply-application-guide/forms-f/research-forms-f.pdf. Not all NIH Institutes participate in the parent or other programs. Please make sure that the institute you are interested in is participating in the specific PA, PAR or RFA you are applying through. Pre-proposal contact with an appropriate program officer is highly recommended for all NIH applications, and is required for some.

FORMAT SPECIFICATIONS FOR ATTACHMENTS
- PDF files only – file names are 50 characters or less and use only standard characters - A through Z, a through z, 0 through 9, underscore (_), hyphen (-), space ( ), and period (.). Do not use any other special characters (e.g., "&", "*", "%", "/", or "#") in the file name.
- Margins are ½" all around
- Font = black; Arial, Garamond, Georgia, Helvetica, Palatino Linotype, Times New Roman, or Verdana typeface are recommended; size 11 or larger; must be no more than 15 characters per linear inch (including characters and spaces)
- Do not include headers or footers
- Project Title – limited to 200 characters including spaces and punctuation; use only standard characters
- Use section headings

APPLICATION CONTENTS – Underlined information denotes a separate document that must be submitted as a PDF.
1. Project Summary/Abstract **(no more than 30 lines)**: Provide a concise description of project objectives and methodologies suitable for dissemination to the public.
2. Project Narrative **(2-3 sentences)**: Describe the relevance of this research to public health in lay terms.
3. Bibliography & References Cited **(no page limit)**: Each reference must include the names of all authors, article and journal title, book title, vol#, pg.#, year of publication. When citing articles that fall under the Public Access Policy (peer-reviewed, accepted for publication since April 7, 2008, and are a result of NIH funding) and were authored or co-authored by the applicant, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g., PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal – In Process."
4. Facilities and Other Resources (no page limit):
   a. Instructions, sample and template can be found on the ORSP website.
   b. Identify the facilities to be used (Laboratory, Animal, Computer, Office, Clinical and Other).
   c. Describe only those resources that are directly applicable to the proposed work.
   d. Also describe how the scientific environment will contribute to the probability of success of the project.
   e. If there are multiple sites, describe resources available at each site.
5. Equipment (no page limit): Provide list of major equipment items already available. If appropriate, identify their locations and pertinent capabilities. Sample available on the ORSP website.
6. Biosketches **(5 page maximum/person)**: Required for senior/key personnel and Other Significant Contributors
   a. Instructions and sample can be found at https://grants.nih.gov/grants/forms/biosketch.htm
   b. Include personal statement, positions and honors, **contributions to science** (You may provide a URL to a full list of your published work. This URL must be to a Federal Government website (a .gov suffix). NIH recommends using My Bibliography.), and ongoing/completed research support from past three years.
   c. When citing articles that fall under the Public Access Policy (peer-reviewed, accepted for publication since April 7, 2008, and are a result of NIH funding) and were authored or co-authored by the applicant, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g., PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal – In Process."
7. Budget Forms and Justification **[Note: ORSP liaison will create shell and route to faculty for editing.]**

a. For requests of more than $500,000 in direct costs in any year, the PD/PI must contact the NIH IC program staff at least six weeks before submission to obtain an agreement that the IC will accept the application. Include cover letter with application, identifying staff member and IC who agreed to accept application.

8. <u>Cover Letter</u>: This should be on university letterhead and should include only the following as applicable. Institute and study section information should no longer be included here.
   a. Application title
   b. Funding Opportunity title
   c. As applicable: For late applications include specific information about the timing and nature of the cause of the delay; When submitting a Changed/Corrected Application after the due date, a cover letter is required explaining the reason for late submission of the Changed/Corrected Application; Explanation of any subaward budget components that are not active for all periods of the proposed grant; Statement that you have attached any required agency approval documentation for the type of application submitted; When intending to submit a video as part of the application, the cover letter must include information about the intent to submit it; if this is not done, a video will not be accepted; OR Include a statement in the cover letter if the proposed studies will generate large-scale human or non-human genomic data as detailed in the NIH Genomic Data Sharing Policy.

9. <u>Assignment Request Form:</u> this is a form page. Ask ORSP for the most recent version of the document.

10. <u>Introduction (</u>**1 page**): If resubmission or revision, include an introduction section detailing the reviewer comments addressed in the application.

11. <u>Specific Aims</u> **(1 page)**: Concisely state goals and specific objectives of the proposed research and summarize expected outcomes, including the impact the results will exert on the research field.

12. <u>Research Strategy</u> **(R01=12 pages, R03=6 pages, R21=6 pages)**: **[Must be organized in following order. Use section headings]**
    a. Significance
    b. Innovation
    c. Approach

13. <u>Vertebrate Animals</u> - (if applicable**,** no page limit).

14. <u>Multi PI Leadership Plan</u> - (if applicable, no page limit).

15. <u>Consortium/Contractual Agreements</u> - (if there is/are subcontractor(s) – ORSP will provide)

16. <u>Letter(s) of Support</u> – collaborator and consultant letters (not a requirement, try to keep to one page each)

17. <u>Resource Sharing Plans</u>
    a. Data sharing plan **(1 paragraph):** This is recommended for all applications, but only required for projects over $500,000/yr direct costs.
    b. Sharing model organisms plan (no page limit): only if the creation of a new mouse model is proposed. Outline a plan to make research findings available to qualified individuals within the scientific community.
    c. Genome-wide Association Studies (no page limit)

18. <u>Authentication of Key Resources Plan</u> (if applicable**, 1 page recommended**):
    a. Briefly describe methods to ensure the identity and validity of key biological and/or chemical resources used in the proposed studies.

19. Human Subjects and Clinical Trials Information - a <u>Study Record</u> will be uploaded for each proposed study involving human subjects – ask ORSP for the most recent version of the study record form. (Instructions for all attachments can be found on the ORSP website.)
    a. Study Title (must be unique for each study record)
    b. Clinical Trial Questionnaire
    c. Study Population Characteristics
       i. Conditions or focus of study
       ii. Study eligibility criteria
       iii. Age limits (minimum and maximum)
       iv. <u>Inclusion of Individuals Across the LifeSpan</u> (no page limit)
       v. <u>Inclusion of Women and Minorities</u> (no page limit)
       vi. <u>Recruitment and Retention Plan</u> (no page limit)

        vii.   Recruitment Status (select not yet recruiting, recruiting, enrolling by invite, active, not recruiting, completed, suspended, terminated, withdrawn)
      viii.   <u>Study Timeline</u> (no page limit)
        ix.   Estimated date of Enrollment of First Subject
         x.   Inclusion Enrollment Report – this is a form page built into the study record.
  d.   Protection and Monitoring Plans
         i.   <u>Protection of Human Subjects</u> (no page limit)
        ii.   Is this a multi-site project – select yes or no
              1.   Applicants who check "Yes" are expected to use a single Institutional Review Board (sIRB) to conduct the ethical review required by HHS regulations for the Protections of Human Subjects Research.
              2.   If "Yes" describe the <u>single IRB plan</u> – no page limit)
        iii.   <u>Data Safety Monitoring Plan</u> – (no page limit) – required for clinical trials, recommended for all human subjects research.
        iv.   Will a Data and Safety Monitoring Board be appointed for this study – select yes or no
         v.   <u>Overall Structure of the Study Team</u> – (no page limit) – required for clinical trials, recommended for all human subjects research.

SUPPLEMENTARY DOCUMENTATION NEEDED:
1. Project Sites - If collaborating with another site, a letter of intent, along with a scope of work and budget will need to be provided by the other institution.
2. Key Personnel (those who contribute to the scientific development or execution of the project in a substantive, measurable way, whether or not salaries are requested).
3. Letters of support/verification of key personnel's commitment to the project should be given to ORSP
4. Letters of support/verification of commitment from any other Marquette resources needed.

UNIVERSITY ROUTING VIA KUALI: PIs must create application in Kuali and complete the following information:
1. Basic opportunity information (Title, project dates, sponsor, deadline)
2. Key Personnel- add yourself as PI and any Marquette collaborators. Contact ORSP if you have non-Marquette collaborators that need to be added.
3. Certification- after adding yourself as PI, click on your name and then proposal person certification, answer the questions.
4. Questionnaire- answer all questions.
5. COI (top of page toolbar)- update annual disclosure.
6. Please refer to the step by step instruction guide on the ORSP website or contact ORSP with questions about setting up your application.