SCTR COLLEGE OF MEDICINE K12 PROGRAM
NEEDS ASSESSMENT FORM

Scholar’s Name:

Year:

Primary Mentor:

INSTRUCTIONS: By working together with your primary mentor, please rank the following items from 1 to 5 for your level of skill and experience (1. No Proficiency; 2. Emerging proficiency with minimal application; 3. Moderate use and proficiency; 4. Experienced and proficient; 5. High level of experience and proficiency) and importance to your career development (1 = of little importance to 5 = of great importance).

<table>
<thead>
<tr>
<th>Research Design and Methods</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critically Evaluate Research Literature</td>
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<tr>
<td>Formulate aims, hypotheses, and operationally define variables</td>
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<tr>
<td>Knowledge of sampling techniques, sample size issues, and power</td>
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<tr>
<td>Knowledge of different types of research designs</td>
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<tr>
<td>Knowledge of different assessment methods</td>
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<tr>
<td>Knowledge of Phase I-IV clinical trials</td>
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<table>
<thead>
<tr>
<th>Data Collection, Management &amp; Analysis</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
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</thead>
<tbody>
<tr>
<td>Construct a plan for data collection</td>
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<tr>
<td>Knowledge of how to create and maintain data files</td>
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<tr>
<td>Understand commonly used statistical tests</td>
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<tr>
<td>Knowledge of available statistical packages</td>
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<tr>
<td>Interpret p-value and statistical output</td>
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<table>
<thead>
<tr>
<th>Disseminating Research Findings</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
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</thead>
<tbody>
<tr>
<td>Attend research conferences</td>
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<tr>
<td>Submit an abstract for presentation at a research conference</td>
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<tr>
<td>Present a poster or symposium at a research conference</td>
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<td>Prepare, submit, and revise a manuscript for publication</td>
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<tr>
<td>Integrate findings into the existing literature</td>
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<tr>
<td>Orally communicate research findings</td>
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</table>
### Human Subjects Protection and Research Ethics

<table>
<thead>
<tr>
<th>Topic</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of good research practice, responsible conduct of research</td>
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<tr>
<td>Ethical considerations in conducting research</td>
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<td></td>
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<tr>
<td>Elements of informed consent document</td>
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<tr>
<td>Research with vulnerable populations</td>
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<tr>
<td>Professional ethics (e.g. authorship, conflicts of interest)</td>
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### Research Administration and Regulatory Issues

<table>
<thead>
<tr>
<th>Topic</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
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</thead>
<tbody>
<tr>
<td>Preparing an informed consent document</td>
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<tr>
<td>Knowledge of how to secure and maintain IRB approval</td>
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<tr>
<td>Prepare and manage research budgets</td>
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<tr>
<td>Supervise research staff, liaison with clinical personnel</td>
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<tr>
<td>FDA requirements for INDs and IDEs</td>
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### Grant and Scholarly Writing

<table>
<thead>
<tr>
<th>Topic</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
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</thead>
<tbody>
<tr>
<td>Knowledge of research funding sources</td>
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<tr>
<td>Knowledge of grant forms, cycles, and review process</td>
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<tr>
<td>Grantsmanship skills</td>
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<tr>
<td>Scholarly writing skills</td>
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### Professional Development

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<tr>
<th>Topic</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
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<tbody>
<tr>
<td>Understand career phases and academic expectations</td>
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<tr>
<td>Understand promotion and tenure requirements</td>
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<td>Efficient time management</td>
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### Computer Skills

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<th>Topic</th>
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<th>Importance to Career Development</th>
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<tbody>
<tr>
<td>Searches, software, and file sharing</td>
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### Other

<table>
<thead>
<tr>
<th>Topic</th>
<th>Level of Skill and Experience</th>
<th>Importance to Career Development</th>
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<tbody>
<tr>
<td>Please list other skill(s):</td>
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Scholar Signature

Date

Primary Mentor Signature

Date

COM K12 Director/Co-Director Signature

Date