KL2 Alumni Survey Report
Demographics

• N = 756 respondents (42% surveyed)
  • 54.7% Female
  • 23% Underrepresented minority
• Median time on KL2 = 2 years
  • (Range 1-5 years)
• Median time since KL2 support ended = 4 years
  • (Range <1-10 years)
  • Majority <6 years since support ended
• 80% Assistant or Associate Professor currently
  • 45% reporting having Administrative/Leadership Role
Characteristics of a KL2 Scholar

Which of the following best describes your current position?

(N = 753, Missing = 3)

- Over 80% of survey participants currently hold titles of Assistant Professor or Associate Professor.

**A list of Other KL2 current positions can be found in the appendix**
Self-Identification of Research Domains(s)

Do you consider yourself to be a researcher focused in the area of: (Please check all that apply)

(N = 748 respondents)
*Bar graph does not reflect the true N because more than one answer could be chosen per respondent.

- Public Health: 195
- Clinical Implementation: 197
- Clinical Research: 519
- Pre-Clinical Research: 192
- Basic Research: 160
- Other: 26
Characteristics of a KL2 Scholar

How many years has it been since your KL2 support ended?

(N = 746, Missing = 10)

The majority of survey participants have been off of KL2 support for less than 6 years.
Number of KL2 Alumni in Administrative/Leadership Positions vs. Years Since KL2 Support Ended (N = 339)
Characteristics of KL2 Alumni Effort / Support

Average percent by which your salary is supported for the current year.

<table>
<thead>
<tr>
<th>Funding Type</th>
<th>% Institutional Funds</th>
<th>% Clinical</th>
<th>% Grant Funding</th>
<th>% Teaching</th>
<th>% Other</th>
<th>% Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average %</td>
<td>18.7</td>
<td>21.7</td>
<td>47.9</td>
<td>5.7</td>
<td>3.51</td>
<td>97.14</td>
</tr>
</tbody>
</table>

**Other salary support can be found in the appendix**
115 participants indicated they have zero grant funding.
## Characteristics of a KL2 Scholar

### Average effort as PI and Co-PI regarding current grant funding.

<table>
<thead>
<tr>
<th>Effort Type</th>
<th>% Principal Investigator</th>
<th>% Co-Investigator</th>
<th>% Total Effort</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Effort %</td>
<td>44.97</td>
<td>15.11</td>
<td>60.1</td>
</tr>
</tbody>
</table>

Only 15% (115) indicated zero grant funding.
Did you apply for extramural grant funding during your KL2?

(N = 750, Missing = 6)

- Yes: 613 (81.7%)
- No: 137 (18.3%)
Please indicate which of the types of grants listed below you applied for or received during your KL2.

(N = Individual to grant type, Missing = Individual to grant type)

<table>
<thead>
<tr>
<th>Type of Grant</th>
<th>Did not apply</th>
<th>Applied but did not receive</th>
<th>Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICD Award (NIH K or VA)</td>
<td>194</td>
<td>124</td>
<td>224</td>
</tr>
<tr>
<td>Industry sponsored clinical trial</td>
<td>14</td>
<td>51</td>
<td>405</td>
</tr>
<tr>
<td>Investigator Initiated Clinical Trial</td>
<td>19</td>
<td>54</td>
<td>391</td>
</tr>
<tr>
<td>NIH Research Grant (R01 or equivalent)</td>
<td>104</td>
<td>72</td>
<td>323</td>
</tr>
<tr>
<td>NIH Research (R21 or R03)</td>
<td>109</td>
<td>67</td>
<td>322</td>
</tr>
<tr>
<td>Foundation/Org. Grant Support</td>
<td>156</td>
<td>120</td>
<td>252</td>
</tr>
<tr>
<td>Other Federal sources</td>
<td>32</td>
<td>39</td>
<td>392</td>
</tr>
</tbody>
</table>

(N=542) (N=470) (N=464) (N=499) (N=498) (N=528) (N=463)
Did you apply for extramural grant funding as PI or MPI after completing your KL2?
(N = 738, Missing = 18)

Did you apply for extramural grant funding as PI or MPI after completing your KL2?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>(585, 79.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(153, 20.7%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PI or MPI Grants

Please indicate which of the types of grants listed below you applied for or received after completing your KL2 as PI or MPI.

(N = Individual to grant type, Missing = Individual to grant type)
Co-Investigator Grants

At any time since your appointment to the KL2, what types of grants have you served as Co-Investigator? (Please check all that apply). (NOTE: Sum of frequencies do not reflect total unique responses as several grants could be chosen by each participant.)

(N = 594, Missing = 162)
Research Goals

What are the goals of your work?

(N = 739, Missing = 14)

- Influence health policy: 224
- Develop or disseminate a novel methodology with impact on human health: 318
- Creation of guidelines: 177
- Potential new device development and approval: 86
- Developing new drug indications or repurposing existing drug(s): 195
- Changing the paradigm in understanding the pathophysiology of disease: 381
- Other: 109

**Other goals of work can be found in the appendix**
Research Goals and Perceived Impact

What impact do you feel your work has had so far?

- Influence health policy
- Develop or disseminate a novel methodology with impact on human health
- Creation of guidelines
- Potential new device development and approval
- Developing new drug indications or repurposing existing drug(s)
- Changing the paradigm in understanding the pathophysiology of disease
- Other

Impact levels: None at all, Little, Some, Much, A great deal
I feel I am being paid a fair amount for the work I do.

(N = 746, Missing = 10)

Over half (55.2%) agreed or strongly agreed that they were fairly paid.
I feel my job is meaningful.

(N = 743, Missing = 13)

<table>
<thead>
<tr>
<th>Response</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly Agree</td>
<td>391</td>
<td>52.6%</td>
</tr>
<tr>
<td>Agree</td>
<td>305</td>
<td>41.0%</td>
</tr>
<tr>
<td>Neutral</td>
<td>31</td>
<td>4.2%</td>
</tr>
<tr>
<td>Disagree</td>
<td>6</td>
<td>0.8%</td>
</tr>
<tr>
<td>Strongly Disagree</td>
<td>10</td>
<td>1.3%</td>
</tr>
</tbody>
</table>

Almost all (93.6%) agreed or strongly agreed that their jobs were meaningful.
A majority of respondents (81.5%) agreed or strongly agreed that their careers were heading in a satisfactory direction.
During the KL2, which opportunities were available to you either through the KL2 program or through your institution?
Opportunities During KL2 and Career Progression

To what extent did the following areas contribute to your career progression/success?

Respondents selected ‘Development of an IDP’ as one of the factors that was not helpful to their success.

Protected time, Strong Mentorship and Collaborations were the top three areas that had a ‘Great Deal’ of impact among KL2 scholars.
Opinions on Long-term Career Sustainability: Debt

How much does the debt you have incurred for your training influence your career decisions?

(N = 745, Missing = 11)

Over half of respondents express that the financial debt incurred for their training does not influence their career decisions.
Opinions on Long-term Career Sustainability

To what extent do you think your career in Clinical and Translational Science is financially sound?

(N = 748, Missing = 8)

40.4% of respondents rated the financial soundness of their career as ‘Moderate’.

Frequency

Extremely: 75 (10.0%)
Very: 224 (29.9%)
Moderately: 302 (40.4%)
Slightly: 90 (12.0%)
Not at all: 57 (7.6%)
Opinions on Long-term Career Sustainability

How challenging is it to be a clinician or teacher and a researcher?

(N = 752, Missing = 4)

84% find it challenging or very challenging to be a clinician or teacher and a researcher.
Opinions on Long-term Career Sustainability: Work/Life

To what extent are you satisfied with your work/life balance?

(N = 751, Missing = 5)

![Bar chart showing satisfaction levels with work/life balance.]

- Very Unsatisfied: (42, 5.6%)
- Not Satisfied: (187, 24.9%)
- Somewhat Satisfied: (425, 56.6%)
- Very Satisfied: (97, 12.9%)
Extra Slides
CTSA Program Steering Committee Taskforce: Sustaining Careers of the Translational Science Workforce (STARWORK)

Presentation to Steering Committee

March 4, 2019
## Status Report of Activities

<table>
<thead>
<tr>
<th>Issue / Barrier</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Research support for translational scientists:</strong></td>
<td></td>
</tr>
<tr>
<td>• KL2 Scholar Alumni Survey</td>
<td>Survey completed and analysis underway</td>
</tr>
<tr>
<td>• ICs leveraging the CTSA Program training and education resources</td>
<td>Barry Coller (Discussion continues)</td>
</tr>
<tr>
<td>• How are KL2 Scholars supported after their KL2 ends?</td>
<td>NCATS data</td>
</tr>
<tr>
<td>• Is a specific R pathway needed for the CTSA Program KL2 scholars?</td>
<td>Ongoing discussion</td>
</tr>
<tr>
<td><strong>2. Debt Reduction:</strong></td>
<td></td>
</tr>
<tr>
<td>• Assessment of the KL2 Scholars success rate with the NIH LRP</td>
<td>Completed Material distributed by CLIC</td>
</tr>
<tr>
<td>• Enhancing communication about resources for the NIH LRP for the KL2 Scholars</td>
<td></td>
</tr>
<tr>
<td><strong>3. Building Translational Science as a Scientific Discipline and Field:</strong></td>
<td></td>
</tr>
<tr>
<td>• Landscape analysis of Programs PhDs in Translational Science</td>
<td>Data Collection in Progress – TL1 Survey and NCATS efforts</td>
</tr>
<tr>
<td>• Where does Translational Science “live” at academic medical centers?</td>
<td>Data Collection in Progress – NCATS efforts</td>
</tr>
<tr>
<td>• What examples of building a discipline and field can we learn from? e.g.</td>
<td></td>
</tr>
<tr>
<td>Genetics, Informatics, Data Science, Systems Biology, etc.</td>
<td></td>
</tr>
<tr>
<td>• Recognizing Translational Scientists in the tenure and promotion process</td>
<td></td>
</tr>
</tbody>
</table>
Opinions on Long-term Career Sustainability

How confident are you that you will sustain a career in Clinical and Translational Research?

(N = 751, Missing = 5)

- Very Confident: 206 (27.4%)
- A lot: 232 (30.9%)
- Moderately: 244 (32.5%)
- Very Little: 42 (5.6%)
- Not at all: 27 (3.6%)
ADDITIONAL DATA
Links


Link to the STARWORK KL2 Scholar Alumni Survey:  
https://clicredcap.urmc.rochester.edu/surveys/?s=HRCEXE7YCP

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https://clicredcap.urmc.rochester.edu/surveys/?s=HRCEXE7YCP
### Demographics

#### What is your gender identity?

(N = 752, Missing = 4)

<table>
<thead>
<tr>
<th>Gender Identity</th>
<th>Count</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>411</td>
<td>54.7%</td>
</tr>
<tr>
<td>Male</td>
<td>330</td>
<td>43.9%</td>
</tr>
<tr>
<td>Transgender Female</td>
<td>1</td>
<td>0.1%</td>
</tr>
<tr>
<td>Transgender Male</td>
<td>1</td>
<td>0.1%</td>
</tr>
<tr>
<td>Non-binary</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Prefer to self-describe</td>
<td>1</td>
<td>0.1%</td>
</tr>
<tr>
<td>Prefer not to answer</td>
<td>8</td>
<td>1.1%</td>
</tr>
</tbody>
</table>
Demographics

Are you from a racial or ethnic group underrepresented in biomedical research?
(N = 747, Missing = 9)

Yes 23%
No 77%
Characteristics of a KL2 Scholar

How many years were you appointed on the KL2?

(N = 731, Missing = 25)

Average Years Appointed on the KL2 = 2.43
Characteristics of a KL2 Scholar

What was your position title when you started the KL2?
(N = 752, Missing = 4)

More than half of survey participants were Assistant Professors when they started the KL2 program.
Characteristics of a KL2 Scholar

Do you hold an administrative or leadership role at your institution?

(N = 752, Missing = 4)

Yes (339, 45.1%)  No (413, 54.9%)

**Specific administrative/leadership titles can be found in the appendix**
Initial Thoughts: How to present the results of this survey for publication?

- Format?
- Journal or white paper?
- Discussion with group
Reference Slides
Summary from last meeting:

- NIDCR, NCCIH and NIBIB have developed funding opportunities to supplement the CTSA Program KL2s
- Continued discussion about how the K12 Programs can leverage curriculum, activities, etc. from the KL2 Programs:
  - Note: 7 K12s from across NIH are the same PIs as the KL2s
- (New) Discussion about a CTSA Program K Program (see next slide)
Example: NHLBI New Pilot Career Development Award

NHLBI announces a new pilot Career Development Award for Blood Science Physician Scientists:


FOA Purpose:

The purpose of the NHLBI Career Pathway to Independence in Blood Science Award for Physician Scientists (K99) is to increase and maintain a strong cohort of new and talented, NHLBI supported, independent investigators in blood science. This program is designed to facilitate a timely transition of outstanding blood science researchers with a clinical doctorate degree from mentored research positions to independent, tenure-track or equivalent faculty positions.

This K99 award is intended for individuals who require at least three and up to five years of mentored research training and career development before transition to the R00 phase. At the conclusion of this K99, awardees are expected to continue research activity with support from a separate NHLBI-funded FOA, the Physician Scientist Transition to Independence in Blood Science Research (R00 - Clinical Trial Optional), described in NOT-HL-18-657, which will require updated research plans and a limited competition review.
KL2 Survey Timeline

- **1/15 w/in 6 hours** ] collect any more comments/edits for survey
- Reminder to KL2 PIs Directors – survey
- Draft STARWORK email member to send.
- **1/16** ] CLIC Update Survey – get back to STARKWORK (3) by noon. {KG, RB}
- **1/16** ] Email KL2 PIs and request completion of KL2 Emails be updated by 1/18 by Noon.
- **1/18 NOON** ] Joan Nagel/Susan Smyth/Erica Rosemond review STARWORK members view Survey Link and Approve
- **1/18 END OF DAY** ] Send Survey out to KL2 and U PIs and request completion by 2/8/19 - Done
- **1/25** ] 1st Reminder to complete survey by 2/8
- **2/1** ] 2nd Reminder to complete survey by 2/8
- **2/7** ] Final Reminder to complete survey by 2/8
- **2/8 COB 5:00pm** ] – watch for stragglers…
- **2/9** ] Manually Close the REDCap Survey
- **2/8 – 2/22** ] Analyze results
- **2/25 – 2/28** ] Reschedule the 2/19 @ 4pm mtg to sometime during 2/25 to 2/28 discuss results in order to present it at CTSA Program meeting.