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# **Benchmarking IUCRC Intellectual Property Rights (IPR) Outputs: Preliminary Findings**

IUCRC Evaluator's Meeting

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*Denis Gray & Olena Leonchuk*

North Carolina State University



# Background and Purpose

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- IUCRC Evaluation Project has been reporting IPR activities for a number of years
- At the January meeting the question was raised: “How well are we doing on IPR performance? How do we know if we’re doing ok, good, very good, etc.?”
- We set out to answer this question by identifying some nationally-based benchmarking data on IPR
- Purpose: Compare IUCRC IPR performance to national benchmarks



# Methodology

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- National data provided by **AUTM** (Association of University Technology Managers) STATT database.
- Statistics Access for Tech Transfer (**STATT**) is a database of 20 years of academic licensing data collected by AUTM from participating academic institutions.
  - Key issue is finding the right comparison group to use
- AUTM Total N for 2009 and 2010 calendar years:
  1. US Universities with total research expenditures above 50 million: N(2009)=46, N(2010)=46; with Medical schools: N(2009)=122, N(2010)= 123
  2. US Universities with any funding: N(2009)=58, N(2010)=59; with Medical schools: N(2009)= 147; N(2010)=145
- IPR variables:
  - a. Total Annual Research Expenditures
  - b. Patents Granted
  - c. Patents Applications
- Standardized IPR variables:
  - Weighted Average: analysis assign the same value to individual universities (centers)  
= Sum of patents (applications)/expenditures in \$ millions per university (center)/N of universities (centers)
  - Unweighted Average: analysis look at total data from all universities (centers)  
= Total N of patents (applications)/Total expenditures in \$ millions for universities (centers)



# AUTM with funding above 50 million

| Sample       | AUTM         |              | AUTM with<br>Medical School |               | I/UCRC                |                       |                       |
|--------------|--------------|--------------|-----------------------------|---------------|-----------------------|-----------------------|-----------------------|
|              | 2009<br>N=46 | 2010<br>N=46 | 2009<br>N=122               | 2010<br>N=123 | 2008-<br>2009<br>N=37 | 2009-<br>2010<br>N=42 | 2010-<br>2011<br>N=54 |
| Patents      |              |              |                             |               |                       |                       |                       |
| Weighted     | 0.075        | 0.098        | 0.067                       | 0.086         | 0.32                  | 0.26                  | 0.28                  |
| Unweighted   | 0.081        | 0.095        | 0.063                       | 0.075         | 0.19                  | 0.15                  | 0.13                  |
| Applications |              |              |                             |               |                       |                       |                       |
| Weighted     | 0.38         | 0.37         | 0.368                       | 0.344         | 0.81                  | 0.81                  | 0.56                  |
| Unweighted   | 0.41         | 0.39         | 0.402                       | 0.315         | 0.48                  | 0.47                  | 0.26                  |



# Complete AUTM Sample

| Sample       | AUTM         |              | AUTM with<br>Medical School |               | I/UCRC                |                       |                       |
|--------------|--------------|--------------|-----------------------------|---------------|-----------------------|-----------------------|-----------------------|
|              | 2009<br>N=58 | 2010<br>N=59 | 2009<br>N=147               | 2010<br>N=145 | 2008-<br>2009<br>N=37 | 2009-<br>2010<br>N=42 | 2010-<br>2011<br>N=54 |
| Patents      |              |              |                             |               |                       |                       |                       |
| Weighted     | 0.082        | 0.108        | 0.069                       | 0.26          | 0.32                  | 0.26                  | 0.28                  |
| Unweighted   | 0.081        | 0.099        | 0.064                       | 0.15          | 0.19                  | 0.15                  | 0.13                  |
| Applications |              |              |                             |               |                       |                       |                       |
| Weighted     | 0.503        | 0.482        | 0.416                       | 0.81          | 0.81                  | 0.81                  | 0.56                  |
| Unweighted   | 0.409        | 0.413        | 0.336                       | 0.47          | 0.48                  | 0.47                  | 0.26                  |



# Conclusions

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- AUTM data provide a basis for benchmarking IUCRC IPR performance
- IUCRCs appear to have a much higher rate of IPR patenting activity than the “average” university/\$ million of research expenditures
  - 2x or 3x to 1
- IUCRCs appear to have a higher or comparable rate of IPR patent applications than the “average” university/\$ million of research expenditures
- Explanation: Do IUCRCs do a better job of deciding which patents to actually file?