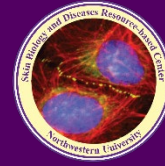


# Northwestern University Skin Biology and Diseases Resource-based Center



## **EXTENDED DEADLINE: Request for Pilot and Feasibility Proposals 2025**

### **\*\* An ideal way to get funding to use the Cores and cover your pilot project \*\***

Some examples of projects:

- \*\*Elucidate basic skin biology: Leverage your area of expertise and test in skin\*\*
- \*\*Work with Cores to introduce new technologists for research at NU and nationally\*\*
- \*Apply our extensive instrumentation to probe the impact of treatment of human disease\*
- \*\*Use our range of tools to introduce genes and proteins into disease models\*\*

In extending the program, we are especially **looking for ESTABLISHED SCIENTISTS OUTSIDE OF DERMATOLOGY** who can partner with us through this program to explore “repurposing” of science in your laboratory towards skin biology and disease. The ultimate goal of these SBDRC-funded Pilot and Feasibility studies is the future submission of MPI proposals that will lead to a publication, new federally funded skin-related grants and expanded work in cutaneous biology research.

Pilot and Feasibility studies are funded at **\$25,000/year for 1 year, with a possible 2nd year renewal** pending a progress report. A great project for a senior investigator with a grad student or post-doc.

All we need is:

- **2-3 Page Research Plan** summarizing background, significance, specific aims, hypothesis, and approaches for the proposed study.
- **Projected use of the SBDRC Core(s): Core directors are delighted to discuss potential use.**
- **Projected Budget and Budget Justification** of proposed study (*Limit: \$25K direct costs; ≥40% of budget must be allocated for SBDRC Core services and charged directly*)
- **NIH Biosketch** of PI with List of **Current PI Funding**; Data Sharing Plan
- Must be ready to submit/provide IRB and ACUC approvals before funding is provided.

**Extended application deadline is May 1, 2025; Start date August 1, 2025**

**Applications may be submitted on our website: [skinresearch.northwestern.edu](http://skinresearch.northwestern.edu)**

### **Highlights of Core functions (see online for more details):**

\*\*The [Skin Tissue Engineering and Morphology \(STEM\) Core](#) provides human skin tissues and primary cultures of skin cells and generates human 3D skin equivalent cultures of human and mouse keratinocytes (healthy; animal models; gene-altered); this core can also work with you in developing skin models of skin disease models.

\*\*The [Translating Experimental Skin Testing with Immune Tracing, Informatics and Technology \(TEST IT<sup>2</sup>\) Core](#) has a wide range of instruments for multispectral imaging, spatial and single cell transcriptomics. An in vivo unit for testing on human volunteers; A tissue repository that may meet your needs; and a dedicated skin-focused bioinformaticist to assist in interpretation.

\*\*The [Gene Editing, Transduction and Nanotechnology \(GET iN\) Core](#) generates: i) constructs to deliver into cell systems using lenti/retroviral models, AAV, and viral/non-viral CRISPR-Cas; ii) reporter cells for *in vivo* and *in vitro* cell tracking; (iii) ability to simultaneously express multiple transgenes and shRNAs; and (iv) target expression by vectors with skin cell-specific promoters.

Questions regarding the Pilot and Feasibility Program or the application process can be directed to:

Dr. Amy Paller [apaller@northwestern.edu](mailto:apaller@northwestern.edu), Dr. Rui Yi [yir@northwestern.edu](mailto:yir@northwestern.edu), or Dr. Kurt Lu

[kurt.lu@northwestern.edu](mailto:kurt.lu@northwestern.edu)