

Translation of Research Fact Sheet

The **Translation of Research** progression is used to show the stage of scientific progress and how close the research is to being actively used by people to improve health.



Bench
Science



Animal
Studies



Clinical
Trials



Community-engaged
Research



Citizen-led
Science

Translation of Research



The timeline begins with **Bench Science**, which involves experiments being performed in a controlled laboratory setting.



Next the science moves on to the **Animal Models**, where science is conducted using animals, such as rats or mice, for safety reasons.



Once the science is clear and well-supported, **clinical trials** can begin. Clinical trials refer to scientific experiments that involve human beings.



Next on the timeline is **community-engaged research**. Community-engaged research refers to science that actively involves community members in the research process.



Finally, the **Citizen Science** category refers to citizens finding a problem and reaching out to researchers in partnership to conduct science and answer questions. With **Citizen Science**, community members lead the direction of the science to answer research questions that impact their own communities.

This research was conducted by the University of Louisville's Center for Integrative Environmental Health Sciences (NIEHS grant P30 ES030283). CIEHS strives to inform the public on environmental health science and build transparent relationships with surrounding communities to support healthier lifestyles. For more information regarding The Center for Integrative Environmental Health Science, please visit <https://louisville.edu/ciehs>.



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