

Genomic Knowledge Matrix for Nursing Scientists

PREAMBLE

Background

In 2013, the Genomic Nursing Science Blueprint was published. This document was the outcome of a multi-Institute collaboration between the National Human Genome Research Institute (NHGRI), National Cancer Institute (NCI), and National Institute of Nursing Research (NINR) to establish the state of the science and research priorities in genomics for nursing. The overall purpose was to establish a blueprint for genomic nursing science that could be used to focus research efforts to fill identified evidence gaps [1]. To support and accelerate the attainment of these recommendations, NHGRI, NCI, and NINR convened an Advisory Panel of nursing experts in key areas of genomics, education, practice and nursing research to consider opportunities to facilitate genomic nursing research, identify researcher resources and gaps, explore exemplar models to be used as a framework that supports research, and envision a platform for promotion of genomic nursing research and collaboration.

One of the primary gaps identified by the Advisory Panel was the limited knowledge, skills and training of nurse scientists to conduct genomic research. To address this, the Advisory Panel recommended establishing core educational elements for genomic nurse scientists. This was further refined by the subsequent work of the Advisory Panel further narrowed this focus to integration of OMIC science into nursing research.

Drawing from members of the Advisory Panel, a Genomic Nursing Science Education Workgroup was established. The following document is the result of this Workgroup, namely, to inform existing nursing scientists and academic faculty training nurse scientists seeking to expand their research into genomics, and to

develop strategies to promote genomic nursing science. These efforts are all aimed at achieving the Genomic Nursing Science Blueprint [1] research recommendations more quickly, efficiently, effectively, and collaboratively.

References

1. Genomic Nursing State of the Science Advisory Panel, C., K.A., Jenkins, J., Bakos, A.D., Cashion, A.K., Donaldson, N., Feero, W.G., Feetham, S., Grady, P.A., Hinshaw, A.S., Knebel, A.R., Robinson, N., Ropka, M.E., Seibert, D., Stevens, K.R., Tully, L.A., Webb, J.A., *A Blueprint for Genomic Nursing Science*. Journal of Nursing Scholarship, 2013. **45**(1): p. 96-104.