

Ph.D. student positions



Students interested in pursuing a Ph.D. degree in molecular biology, biochemistry, or cancer research in Dr. Xu Luo's laboratory (<https://www.unmc.edu/eppley/about/faculty/luo.html>) at Eppley Institute, Buffett Cancer Center at University of Nebraska Medical Center (Omaha, NE, USA) can directly contact Dr. Luo (xuluo@unmc.edu) first, and then send applications to the IGPBS program at UNMC (<https://www.unmc.edu/igpbs/>). Dr. Luo's research is on cell death, survival, and drug resistance in cancer.

Requirements: a. Bachelor's degree in science or medicine; acceptable TOFEL and GRE scores; c. highly motivated in research.

Representative publications:

O'Neill, K.L., Huang, K., Zhang, J., Chen, Y., Luo, X. (2016). Inactivation of prosurvival Bcl-2 proteins activates Bax/Bak through the outer mitochondrial membrane. *Genes & Dev.* 30, 973-88.

Pang, X., Moussa, S.H., Targy, N.M., Bose, J.L., George, N.M., Gries, C., Lopez, H., Zhang, L., Bayles, K., Young, R., and Luo, X. (2011). Active Bax and Bak are functional Holins. *Genes & Dev.* 25, 2278-90.

Zhang, L., Lopez, H., George, N.M., Liu, X., Pang, X., and Luo, X. (2011). Selective Involvement of BH3-only Proteins and Differential Targets of Noxa in Diverse Apoptotic Pathways. *Cell Death Differ.* 18, 864-873.

George, N. M., Evans, J.D., and Luo, X. (2007). A Three Helix Homo-oligomerization Domain Containing BH3 and BH1 is Responsible for the Apoptotic Activity of Bax. *Genes & Dev.* 21, 1937-1948.

Li, L., Luo, X., and Wang, X. (2001). Endonuclease G is an apoptotic DNase when released from mitochondria. *Nature* 412, 95-99.

Luo, X.*, Budiharjo, I.*, Zou, H., Slaughter, C., and Wang, X. (1998). Bid, a Bcl-2 interacting protein, mediates cytochrome c release from mitochondria in response to activation of cell surface death receptors. *Cell* 94, 481-490.