1086-55-846 **Jonathan Kirkpatrick Sullivan*** (noureen.khan@unt.edu), 7300 Houston School Rd, Dallas, TX 75241, and **Noureen Khan**. *Computational Implementation of Ernst's Tangle Equations Model.*

The "knotting" of bio structures has recently been attributed to competitive advantage in evolution. C. Ernst presented Tangle Equations model, to find the O,P,R, for given N(O + P) and N(O + R). In this paper we compute same results by JAVA implementation of Tangle Equations Model. We also discuss the involvement of knot theory in study of life, the basics that build up to understanding and solving tangle equations. (Received September 13, 2012)