

**Proposed research areas:**

1. To continue work on the Heterophil/Lymphocyte ratio and the Neutrophil/Lymphocyte ratio as genetic markers for disease and stress resistance and to do some PCR and DNA study regarding resistance. I have published six papers on those markers using a new method of selection for the purpose. This method, which I termed the Confidence Limits (Lower 95% or 99%) of Selection, converts quantitative data to qualitative data; it is quick, easy and efficient.

Work was done on chicken and sheep and could be extended to other models. Many other topics stem from that.

2. Population genetics study on a religiously isolated group of people, the Mandaeans; the original followers of John the Baptist. They resemble the Amish in their isolation. Their main land is Iraq, but in the last few years, a large number migrated to different parts of the world. Total worldwide population is estimated at less than 80,000.

**Proposed topics for book writing:**

1. Applied bio and medical statistics
2. Genetic resistance and markers

**I also welcome cooperation on current research projects undertaken by my students in Iraq:**

1. Thalassemia mutations in Iraqi population. A PhD project for which I have the data to analyze
2. Biodiversity of G6PD mutations in Iraqi population and association with the enzyme activity. An ongoing PhD project.
3. PRB genes and dental caries. An MSc project.