Meeting: 1006, Lubbock, Texas, SS 16A, Special Session on Partial Differential Equation and Its Application in Biomedical Study

1006-35-120   **Akif Ibragiomv*** (`akif.ibrgaimov@ttu.edu`), Mathematics and Statistics, Box 41042, Lubbock, TX 79409-1042, **Laura Ritter** (`lritter@math.tamu.edu`), Department of Mathematics, Texas A&M, College Station, TX 77845, and **Jay Walton** (`jwalton@math.tamu.edu`), Deparment of Mathematics, Texas A&M, College Station, TX 77845. *Stability Analyzes for Chemotaxic Models, and Application.*

We are interpreted a process of the lesion formation from point of view of instability. In this talk we will discuss impact of the parameters of the chemotaxic model on the instability. Various case study atherosclerosis and angiogenesis models from point of view of there stability will be discussed. (Received February 10, 2005)