1131-35-328   **Kun Zhao*** (`kzhao@tulane.edu`). *Analysis of a Dissipative Hyperbolic System arising from Chemotaxis Research.*

We present a group of recent results concerning the rigorous analysis of a nonlinear PDE model arising from biosciences, which has primary applications in chemotaxis research. In particular, global well-posedness, long-time asymptotic behavior, diffusion limits, and boundary layer formation of classical solutions will be discussed. (Received July 18, 2017)