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**STABILITY OF FORWARD FINITE DIFFERENCE SCHEMES  
FOR CERTAIN PROBLEMS IN BIOLOGY**

**Abstract.** The subject of our considerations is a generalized von Foerster equation in many spatial variables. We present a discretization method of the initial value problem and study stability of finite difference schemes on regular meshes.

**Keywords:** von Foerster equation, finite differences, stability.

**Mathematics Subject Classification:** Primary 65M12, Secondary 65M06, 92B99.