

## **Research Articles**

### **Effects of combined drug therapy on HIV-1 infection dynamics**

*Deepmala Kamboj, M. D. Sharma*

1650065

### **Thermal stability of biological tissues and their behavior in cold conditions — A mathematical model**

*M. A. Khanday, Fida Hussain*

1650066

### **Modeling of microbial growth bioprocesses — Equilibria and stability analysis**

*Monica Roman, Dan Selișteanu*

1650067

### **Global stability and vaccination of an SEIVR epidemic model with saturated incidence rate**

*Muhammad Altaf Khan, Yasir Khan, Sehra Khan, Saeed Islam*

1650068

### **Subspace identification for a stochastic model of plague**

*Miao Yu, Jianchang Liu*

1650069

### **On biological population model of fractional order**

*Syed Tauseef Mohyud-Din, Ayyaz Ali, Bandar Bin-Mohsin*

1650070

### **A study of nonlinear biochemical reaction model**

*Muhammad Asad Iqbal, Syed Tauseef Mohyud-Din, Bandar Bin-Mohsin*

1650071

### **Optimal control problem in an epidemic disease SIS model with stages and delays**

*Yongzhen Pei, Miaomiao Chen, Xiyin Liang, Zhumei Xia, Yunfei Lv, Changguo Li*

1650072

### **Chaos to order — Effect of random predation in a Holling type IV tri-trophic food chain system with closure terms**

*Partha Ghosh, Pritha Das, Debasis Mukherjee*

1650073

**Model for mucus transport in the airways due to air motion — Effect of slipperiness**

*Dipak Kumar Satpathi, Kota Venkata Ratnam, Adepalli Ramu*

1650074

**Nerve pulse propagation in biological membranes — Solitons and other invariant solutions**

*Rodica Cimpoiasu*

1650075

**Chaos in DNA evolution**

*Jacques M. Bahi, Christophe Guyeux, Antoine Perasso*

1650076

**Extinction and persistence of a nonautonomous stochastic food-chain system with impulsive perturbations**

*Baodan Tian, Shouming Zhong, Zhijun Liu*

1650077

**Pseudo-almost periodic solution for impulsive hematopoiesis model with infinite delays and linear harvesting term**

*Zhinan Xia, Dingjiang Wang*

1650078

**Dynamics on tumor immunotherapy model with periodic impulsive infusion**

*Huiyan Zhu, Qian Ding, Fangjuan Wang, Huilan Wang*

1650079

**Dynamics of a stage-structured single population system with winter hibernation and impulsive effect in polluted environment**

*Jianjun Jiao, Shaohong Cai, Yujuan Zhang, Limei Li*

1650084