David Gammack

Publications

[1] **Gammack** and Hydon (1997) Steady flow in pipes of non-uniform curvature and torsion, University of Surrey Tech. Rep. 97/19/Ma.

[2] **Gammack** (1999) Blood flow in twisted arteries. PhD Thesis, University of Surrey.

[3] **Gammack**, Byrne and Lewis (2001) The selective advantage of mutant p53 tumour cells under hypoxia. Bull. Math. Biol., **63**, pp.135-166.

[4] **Gammack** and Hydon (2001) Flow in pipes of non-uniform torsion and curvature. J.Fluid Mech., **433**, pp.357-382.

[5] **Gammack**, Doering and Kirschner (2004) Modelling granuloma formation after *Mycobacterium tuberculosis* infection. J. Math. Biol. **48**, pp. 218-242.

[6] Bauer, Bortz, **Gammack**, Ben-David, Stein, Jackson, Younger (2004) Virulence of klebsiella pneumoniae predicted by nonlinear biodistributive mathematical model. SHOCK 21: 29-29 **85** Suppl. 2.

[7] **Gammack**, Ganguli, Marino, Segovia-Juarez, Kirschner (2005) Understanding the immune response in tuberculosis using different mathematical models and biological scales. Multiscale Modeling & Simulation **3** (2): 312-345.

[8] Ganguli, **Gammack** and Kirschner (2005). A metapopulation model of granuloma formation in the lung during infection with *Mycobacterium tuberculosis*. Mathematical Biosciences & Engineering, **2**, pp.535-560.

Submitted/In Preparation

[9] **Gammack**, Byrne and McElwain, Modelling the effects of hypoxia, p53 and drug delivery on tumour cells.

[10] **Gammack**, Byrne, McElwain and Lewis, Modelling the spatial effects of hypoxia and mutations in the p53 gene on tumour growth.

[11] **Gammack**, Jackson, Murray and Nelson, A mechanochemical model with spatial effects, due to matrix multiplication, and its impact on cellular orientation.

[12] **Gammack** and Hydon, Chaotic Transport in helical pipes.

[13] Battani, Cranford and **Gammack** Transport in non-uniformly curved pipes.

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