CURRICULUM VITAE

Date personale:

Nume, Prenume: Mureșan Adrian Sorin

Titlu academic: Sef de lucrari

Departament: ME1

E-mail instituțional: adrian-sorin.muresan@umfst.ro

Domenii de interes (maximum 5 domenii, direcții):

Biofizică, fizică experimentală, alimente.

Activitate de cercetare:

1. **Teme și direcții de cercetare:**

   Aplicații de machine learning în biomecanică, biomembrane, alimentație.

2. **Număr ORCID:** 0009-0001-7891-7076

3. **Lucrări publicate in extenso (maximum 5 lucrări)**

Effect of Temperature and Composition on the Formation of Nanoscale Compartments in Phospolipid Membranes, Adrian S. Muresan, Haim Diamant, and Ka Yee C. Lee, *Journal of the American Chemical Society* **123** (2001) 6951-6952 and *Journal of the American Chemical Society* **123** (2001) 8644-8644.

Interaction of Antimicrobial Peptide Protegrin with Biomembranes
David Gidalevitz, Yuji Ishitsuka, Adrian S. Muresan, Alan J. Waring, Robert I. Lehrer, and Ka Yee C. Lee, *Proceedings of the National Academy of Science,* **100** (2003) 6302-6307

Urea Modulation of β-Amyloid Fibril Growth: Experimental Studies and Kinetic ModelsJin Ryoun Kim, Adrian Muresan, Ka Yee C. Lee and Regina M. Murphy, *Protein Science* **13** (2004) 2888-2898.

Evaluation of kinetics of Perfluorocarbon emulsions with different 'droplet' sizes in rodent mammary tumors

Xiaobing Fan, Jonathan N. River, Adrian S. Muresan, Carmen Popescu, Marta Zamora, Rita M. Culp and Gregory S. Karczmar

Physics in medicine & biology 2006,vol.51,nr. 2,pp.211-220