

3D SIMULATION OF TUMOR GROWTH IN MOUSE OSTEOSARCOMA MODEL

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Osteosarcoma (OS) is an orphan and potentially fatal disease, affecting mainly the metaphyseal region in the long bones of the body, highly aggressive and a percentage of patients will develop metastasis. Some factors that promote metastasis have been identified, such as the S-phase kinase-associated protein 2 (SKP-2).

We use scientific visualization techniques, specifically 3D animation to help understand the behavior of the evolution of an osteosarcoma in distal femur. The animation is based on data obtained bibliographically. We use simple techniques of Matricial Algebra and Ordinary Differential Equations to write the code of this animation.

REFERENCE

- [1] Benien, Parul and Swami, Archana, 3D tumor models:History, advances and future perspectives, *Future oncology*, 10, 1311-27 (2014)
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