



13.12.2016, Dr. François Paris,

**CRCNA Cancer Research Center Nantes-Angers
Radiobiology and Endothelium targeting team.**

'Deciphering endothelial response to enhance radiotherapy efficacy'

Since the beginning of his career, Dr. François Paris is interested in radiotherapy and to find out how to improve the outcome of that cancer treatment. During his PhD he focused on the involvement of p53 in the lung carcinoma radiosensitivity. It was only as from his postdoc position in New York that he started to work on his main interest: the role of endothelial cells in radiation response and the implication of sphingomyelin in that process. During his talk, Dr. Paris presented his team data about the ceramide (NPM)-mediated premitotic apoptosis and DNA damage–induced mitotic death of endothelial cells after radiation and the influence of the endothelial death induction in the radiosensitivity of the tumor. In addition, his talk was an opportunity for us to hear and learn more about an *in silico* model which could be used to predict tumor growth and the effect of different therapeutic protocols on the outcome of tumor. This model may be used afterwards to select promising biological models for research and possibly in future to adapt the treatment for each patient individually.

Alizée Steer