JOHANNE SEGUIN

ASSISTANT ENGINEER, PH D

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Female, CNRS, PhD, 42 years old, 78 publications, 5 patents (h-factor 31 and 4318 citations), is responsible of the LIOPA and assistant engineer at UTCBS. She obtained her PhD in 2012. She has expertise in optical nanoprobes for in vitro and in vivo applications, including biodistribution and toxicity studies. In addition, her work within a unique collaborative network has allowed her to gain experience in the in vivo fate of imaging probes, but also in related topics such as luminescent cell lines, murine tumour models, bioimaging methodologies and signal processing methods. Recently, her research has focused on the evaluation of thermogels for the enhancement of local antitumour immune response.

EXPERTISES

- In Vivo experiment, Surgery
- Optical imaging
- Data processing, image analysis
- Liposome formulation
- In vitro evaluation of nanoparticle
- English (B2 Upper Intermediate)
- Trainees supervision

PRIZE

CNRS crystal medal 2015

ÉDUCATION

- **2012** - PhD at the University Pierre & Marie Curie-Paris, interdiciplinary school of science for life, Paris, FR
- **2009 -** Master II at Paris Descartes university, Paris, FR

SCIENTIFIC PRODUCTIONS

10 most relevant publications

Ma, P. et al. Nanocrystals for Enhanced in Cellulo Anti-Angiogenic and Anticancer Efficacy.Int. J. Pharm. X 4, 100138 (2022)

Lécuyer, T. et al. Fate and Biological Impact of Persistent Luminescence Nanoparticles after Injection in Mice: A One-Year Follow-Up. Nanoscale 29, 621–663 (2022)

Seguin, J. et al. Tumor Cell Anti-Adhesion and Anti-Tumor Effect to Prevent Recurrence after Cytoreductive Surgery .Eur. J. Pharm. Biopharm. 169, 37–43 (2021)

Do, H. D. et al. Development of Theranostic Cationic Liposomes Designed for Image-Guided Delivery of Nucleic Acid. Pharmaceutics 12, 854 (2020)

Al Sabbagh, C. et al. Development of Theranostic Cationic Liposomes Designed for Image-Guided Delivery of Nucleic Acid. Eur. J. Pharm. Biopharm. 157, 154–164 (2020)

Lemdani, K. et al. Local Immunomodulation Combined to Radiofrequency Ablation Results in a Complete Cure of Local and Distant Colorectal Carcinoma. Oncoimmunology 8, 1–14 (2019)

Lemdani, K. et al. Assessment of the Targeting Specificity of a Fluorescent Albumin Conceived as a Preclinical Agent of the Liver Function. Nanoscale 10, 21151–21160 (2018)

Lemdani, K. et al. Mucoadhesive Thermosensitive Hydrogel for the Intra-Tumoral Delivery of Immunomodulatory Agents, in Vivo Evidence of Adhesion by Means of Non-Invasive Imaging Techniques. Int. J. Pharm. 567, 118421 (2019)

Seguin, J. et al. Evaluation of Nonradiative Clinical Imaging Techniques for the Longitudinal Assessment of Tumour Growth in Murine CT26 Colon Carcinoma. Int. J. Mol. Imaging 2013, 983534 (2013)

Seguin, J. et al. Vascular Density and Endothelial Cell Expression of Integrin Alpha v Beta 3 and E-Selectin in Murine Tumours. Tumor Biol. 33, 1709–1717 (2012)

Patents

FR 3082982 Process for determining the Infiltration of biological cells In a biological object of interest
WO2019162417 Optical imaging agent targeting inflammation
WO2018041981 Immunomodulation after locoregional anti-tumoral treatment
WO2017121858 Ultrafine nanoparticle as an imaging agent for diagnosis a renal disorder
WO2017046369 Gelling composition for treating malignant tumor and or preventing tumor recurrence