UNIVERSITÀ DEGLI STUDI DI MILANO

TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type A post-doc fellowship

Xiaomin Yang

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Yang
Name	Xiaomin
Date of birth	02, 03, 1991

PRESENT OCCUPATION

Appointment	Structure
Univeriste Paris Saclay	PhD

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
PhD	Development of multimodal nanoplatforms for radiation therapy	Universite Paris Saclay	2016-2020
Master	Medicine	Zhengzhou University	2013-2016

FOREIGN LANGUAGES

Languages	level of knowledge
English	Excellent
French	Good
Chinese	Mother language

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AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019	Bourses Jeune Awarded by La fédération de Chimie Physique Paris Saclay (CPPS)
2018	Grade A Awarded by Summer School SoSMSE at the University of Genoa, Italy
2016-2020	CSC scholarship Awarded by Chinese Scholarship Council

TRAINING OR RESEARCH ACTIVITY

Description of activity
Research Techniques and Skills 1. Synthetic and analytical skills Multimodal nanoplatforms (single-walled carbon nanomaterials, metallic nanoparticles): TEM, DLS, Spectrophotometer, NMR, XPS, FTIR 2. Cell culture: Confocal microscope, Clonogenic Assay, ICP-MS, FLIM, NanoSIMS 3. In vivo: Biodistribution and Pharmacokinetics, CT/PET imaging, Living imaging 4. Protein-nanoparticle interaction: SRCD, ITC Participate in research project

PROJECT ACTIVITY

Year	Project
2016-2020	My research interests include the development of nanoparticles/nanomedicines for biomedical and healthcare applications. During PhD study, i) I optimized multimodal platinum nanoparticles, which are good candidates to be used as radio-enhancers and possess contrast property and rich surface chemistry in favor of image-guided radiotherapy; ii) Well characterized them and tagged them with fluorescent dyes to perform fluorescent microscopy experiments; iii) Evaluated their radio-enhancing properties on a multiscale approach from molecular scale to cellular scale; iv) Used a complementary protocol (SRCD, ITC, spectroscopy etc) to evaluate the impact of nanoparticles on proteins.

PATENTS

Patent
1. Hou, L., Yang, X., et al. Hyaluronic acid decorated single-walled carbon nanotube prepares method and the application of the reduction-sensitive medicament nano agent of diagnoses and treatment. CN104940959B
2. Hou, L., Zhang, Z., Wang, Y., Yang, X., et al. Preparation method and application of indocyanine green loaded self-assembled multifunctional nano targeting system. CN105193831B

CONGRESSES AND SEMINARS

Date	Title	Place
2019	XXVIII International Materials Research Congress IMRC	Cancun, Mexico.
2018	International Conference-C'NANO	Toulon, France
2018	5th Annuel Conference of the French	Montpellier Supagro, France

	Society of Nanomedicine SFNANO	

PUBLICATIONS

1. Yang, X., Salado-Leza, D., Porcel, E., González Vargas, C. R., Savina, F., Dragoe, D., ... & Lacombe, S. (2020). A Facile One-Pot Synthesis of Versatile PEGylated Platinum Nanoflowers and Their Application in Radiation Therapy. Int. J. Mol. Sci., 21(5), 1619.
2. Yang, X., Bolsa-Ferruz, M., Marichal L., Porcel, E., Salado-Leza, D., Lux F., … & Lacombe, S. (2020). Human Serum Albumin in the presence of AGuIX nanoagents: structure stabilisation without direct interaction. Int. J. Mol. Sci. 2020, 21, 4673.
3. Salado-Leza, D., Porcel, E., Yang, X., Stefancikova, L., Bolsa-Ferruz, M., Savina, F., ... & Lacombe, S. (2020). Green one-step synthesis of medical nanoagents for advanced radiation therapy. Nanotechnology, Science and Applications, accepted.
4. Li, X., Porcel, E., Menendez, M., Qiu, J., Yang, X., Serre, C., ... & Gref, R. (2020). Highly Porous Hybrid Metal-Organic Nanoparticles Loaded with Gemcitabine Monophosphate: a Multimodal Approach to Improve Chemo-and Radiotherapy. ChemMedChem, 15(3), 274-283.
5. Hou, L., Yang, X., Ren, J., Wang, Y., Zhang, H., Feng, Q., ... & Zhang, Z. (2016). A novel redox-sensitive system based on single-walled carbon nanotubes for chemo-photothermal therapy and magnetic resonance imaging. International journal of nanomedicine, 11, 607.
6. Hou, L., Zhang, H., Wang, Y., Wang, L., Yang, X., & Zhang, Z. (2015). Hyaluronic acid-functionalized single-walled carbon nanotubes as tumor-targeting MRI contrast agent. International journal of nanomedicine, 10, 4507.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: __Orsay_____, _13/07/2020_____

SIGNATURE

Xiaomin Yang