Curriculim Vitae

Mr. BODGI Larry, PhD
Post-doctoral Research Associate

Nationalities: *Greek, Lebanese.* ***Date of birth:*** *12 may 1988*
Address: *Zouk Mikayel, Lebanon*
Phone : *01 350 000 ext : 5101* ***Email*** *: larrybodgi@hotmail.com, lb38@aub.edu.lb*

Expertise

Research expertise: Radiobiology, cancer treatments, molecular biology, radiotherapy, scientific and clinical research, cell culture, immunofluorescence, mathematical modeling, statistical analysis, data analysis.

Industrial expertise: Patents development and writing, industrial research and development, clinical trials, method validation and quality control (ISO accreditation), tutoring of trainees and PhD candidates in math, biology and software developments.

Publications and patents

Number of publications: 14
Number of citations: 50
H-index: 4
Number of patents: 4
Number of books: 1

Professional experience

Since 01/2017 Post-doctoral research associate at the American University of Beirut

01/2015 till 12/2016 R&D project manager at NEOLYS DIAGNOSTICS, Lyon, France.

Diplomas

From 2012 till 2015 PhD in radiobiology, Université Claude Bernard Lyon 1, Inserm CR-U1052 Radiobiology Group, Lyon, France.

PhD in radiation physics, Faculty of Sciences, Saint Joseph-University, Beirut, Lebanon.

2011 Masters in Detectors - Optical Laser - Physics of Materials and complex environments, Faculty of Sciences, Université de Bretagne Occidentale (UBO), Brest, France.

Masters in Detectors Physics, Faculty of Sciences, Saint-Joseph University (USJ), Beirut, Lebanon.

2009	BS in General Physics, Faculty of Sciences, Saint Joseph-University (USJ), Beirut, Lebanon.

Teaching and tutoring experience

Since 2017	**Radiobiology lectures,** Radiation Oncology department,AUBMC
Since 2016	**Tutoring a PhD candidate in mathematical modeling:** modeling of tumour's response to radiotherapy.
2015	**Tutoring a trainee in software development**: database management system development.
	Tutoring a trainee in mathematical modeling: modeling of human cell's response to radiations.
	Tutoring a trainee in biomarketing: Lebanese market study and project's feasibility.
2014	**Introduction to Matlab programming,** Faculty of Sciences, Saint-Joseph University (USJ), Beirut, Lebanon.
2011-2013	**General Physics Tutorials**, Faculty of Sciences, Saint-Joseph University (USJ), Beirut, Lebanon.
10/2011 till 12/2011	**General Physics Tutorials**, Faculty of Pharmacy, Saint-Joseph University (USJ), Beirut, Lebanon.

Knowledge

Languages	English, French, Arabic, Greek.
Computer	Experience in programming: MatLab, Simulink, LabView, C language Good knowledge of Windows exploitation system.
Softwares	Office and engineering tools: MS-Office.

Awards and grants

03-2013	EIFFEIL excellence award.

Publication list

1. Pereira, S.*, **Bodgi, L.*,** Duclos, M., Ferlazzo, M., Devic, C., Canet, A., . . . Foray, N. (submitted). Fast and binary assay for predicting radiosensitivity based on the theory of the ATM nucleoshuttling: development, validation and performances.
2. Ferlazzo, M. L., Bach-Tobdji, M. K. E., Djerad, A., Sonzogni, L., Devic, C., Granzotto, A., **Bodgi, L.** . . . Foray, N. (2017, In press). Radiobiological characterization of tuberous sclerosis: A delay in the nucleo-shuttling of ATM may be responsible for radiosensitivity. Mol. Neurobiol.

3. Muriel Viau, Sonzogni, L., Ferlazzo, M. L., Pereira, S., **Bodgi, L.,** Granzotto, A., . . . Foray, N. (submitted). DNA double-strand breaks induced by 10 different metals in human cells: influence of the nucleo-shuttling of ATM

4. Pereira, S., Massart, C., Granzotto, A., **Bodgi, L.,** Viau, M., Ferlazzo, M. L., . . . Foray, N. (submitted). Prenylation inhibitors partially rescue normal ATM-dependent DNA repair in Hutchinson-Gilford Progeria Syndrome cells

5. Bencokova, Z., Devic, C., Ferlazzo, M. L., Granzotto, A., Sonzogni, L., Burlet, S. F.,**Bodgi, L** . . . Foray, N. (2017, In press). Radiobiological characterization of neurofibromatosis type I: the neurofibromin protein impacts on the ATM-dependent DNA damage repair and signaling pathway. Mol. Neuribiol.

6. mathematical definition of individual radiosensitivity. J Theor Biol, 333, 135-145.

7. **Bodgi, L.,** Canet, A., Granzotto, A., Britel, M., Puisieux, A., Bourguignon, M., & Foray, N. (2016). [The enigma of the biological interpretation of the linear-quadratic model finally resolved? A summary for non-mathematicians]. Cancer Radiother, 20(4), 314-321. doi:10.1016/j.canrad.2016.02.014

8. **Bodgi, L.,** Canet, A., Pujo-Menjouet, L., Lesne, A., Victor, J. M., & Foray, N. (2016). Mathematical models of radiation action on living cells: From the target theory to the modern approaches. A historical and critical review. J Theor Biol, 394, 93-101. doi:10.1016/j.jtbi.2016.01.018

9. **Bodgi, L.,** & Foray, N. (2016). The nucleo-shuttling of the ATM protein as a basis for a novel theory of radiation response: resolution of the linear-quadratic model. International Journal of Radiation Biology, 92(3), 117-131.

10. Devic, C., **Bodgi, L.,** Granzotto, A., Ferlazzo, M. L., Sonzogni, L., Bourguignon, M., & Foray, N. (2016). Le phénomène d'hypersensibilité aux faibles doses : une énigme de la radiobiologie enfin résolue ? Revue de médecine nucléaire, in press.

11. Granzotto, A., Benadjaoud, M. A., Vogin, G., Devic, C., Ferlazzo, M. **L., Bodgi,** L., . . . Foray, N. (2016). Influence of Nucleoshuttling of the ATM Protein in the Healthy Tissues Response to Radiation Therapy: Toward a Molecular Classification of Human Radiosensitivity. Int J Radiat Oncol Biol Phys, 94(3), 450-460. doi:10.1016/j.ijrobp.2015.11.01

12. Viau, M., Perez, A. F., **Bodgi, L.,** Devic, C., Granzotto, A., Ferlazzo, M. L., . . . Foray, N. (2016). [Repeated radiation dose effect and DNA repair: Importance of the individual factor and the time interval between the doses]. Cancer Radiother. doi:10.1016/j.canrad.2015.05.03

13. Ferlazzo, M. L., Sonzogni, L., Granzotto, A., **Bodgi, L.,** Lartin, O., Devic, C., . . . Foray, N. (2014). Mutations of the Huntington's Disease Protein Impact on the ATM-Dependent Signaling and Repair Pathways of the Radiation-Induced DNA Double-Strand Breaks: Corrective Effect of Statins and Bisphosphonates. Mol Neurobiol, 49, 1200-1211. doi:10.1007/s12035-013-8591-7

14. **Bodgi, L.,** Granzotto, A., Devic, C., Vogin, G., Lesne, A., Bottollier-Depois, J. F., . . . Foray, N. (2013). A single formula to describe radiation-induced protein relocalization: towards a mathematical definition of individual radiosensitivity. J Theor Biol, 333, 135-145. Theor Biol, 333, 135-145.

Patents

Co-inventor of 4 industrial patents:

ET1835	A technique to predict the patient's response after a radiotherapy treatment
ET1836	A technique to predict the tumor's response after a radiotherapy treatment
ET1837	A technique to predict the genotoxic effect of DNA breaking agents
ET1838	A technique to predict the genotoxic effect of iodinated contrast agents

Book

Bodgi, L., & Foray, N. (2016). Effets biologiques des radiations ionisantes : Une théorie basée sur le transit cyto-nucléaire de la protéine ATM. Editions Universitaires Européennes.