CURRICULUM VITAE

Name	Alessandro Giammona
Mobile phone	**********
E-mail	**********
Date and place of birth	**********
Nationality	Italian

Date	24/02/2019 to present
Title of qualification awarded	**PostDoc fellow**
Organization providing education	King Abdullah University of Science & Technology (KAUST) Biological and Environmental Science and Engineering Division, (VIBRA GROUP : *https://vibralab.kaust.edu.sa/*) Lab Head : **Dr. Carlo Liberale** Thuwal, (Saudi Arabia) Project titled: Lipid metabolism dysregulation in Cancer Stem cells
Date	01/02/2017 to 31/01/2019
Title of qualification awarded	**PostDoc fellow**
Organization providing education	Institut de Génomique Fonctionnelle (IGF), Université de Montpellier. Department: Cancer biology directed by Jay Philippe Lab Head : Dr. **Julie Pannequin** Centre National de la Recherche Scientifique, UMR5203, Institut de Génomique Fonctionnelle, /Institut National de la Santé et Recherche Médicale, U661, Montpellier, France, Project titled: **Foldamer and Stapled peptide as inhibitors of PXR: an alternative therapeutic strategy for sensitizing cancer cell and stem cells to chemotherapy (Prestige Program) PRESTIGE co-financing GRANT award (PRESTIGE-2016-4-0003)** Project Coordinator**: Dr Jean-Marc Pascussi** https://www.igf.cnrs.fr/index.php/fr/h-research-fr/hr-departments-fr/hr-physiologie-cancer-fr/hr-pannequin-fr#equipe)
Date	22/03/2016 to 01/01/2017
Title of qualification	**Post PhD**
Organization providing education	Laboratory of Cellular and Molecular Pathophysiology Department of Surgical and Oncological Sciences, University Hospital "Paolo Giaccone", Palermo, Italy Lab Head: **Prof. Giorgio Stassi.** Project titled **"Tumor microenvironment and colon cancer progression: the adipose's tissue effect"** (in collaboration with Simone Di Franco recipient of AIRC fellowship). http://www.giorgiostassi.it/my-research-team/
Date	01/01/2013 to 31/12/2015
Title of qualification awarded	**PhD International Program in Immunopharmacology**
Organization providing education	Laboratory of Cellular and Molecular Pathophysiology
Place of traineeship	**Department of Surgical and Oncological Sciences,** University Hospital "Paolo Giaccone",
Research experience	Italy; Lab Head: **Prof. Giorgio Stassi** Project: **Adipose stem cells (ASCs) in lipofilling procedure and tumoral relapse after surgical treatment**. http://www1.unipa.it/dottimmunofarmacologia/students.html
Date	19/10/2012
Title of qualification awarded	**Master's degree in Medical Biotechnology and Molecular Medicine**
Organization providing education	University of Palermo, Italy
Research experience	01/07/2011-19/10/ 2012 Academic training. Graduate Student at Laboratory of Cellular and Molecular Pathophysiology. **Department of Surgical and Oncological Sciences** **(Dir. Prof. F. Moschella)** University Hospital "Paolo Giaccone", Italy Lab Head: **Prof. Giorgio Stassi** Thesis: Role of mir-100 in breast cancer stem cells regulation
Date	20/07/2010
Title of qualification awarded	**Bachelor's degree in Medical Biotechnology**
Organization providing education	University of Palermo, Italy
Research experience	01/11/2009 to 01/03/2010 Under graduate student at Virology Laboratory e nel rischio biologico. In the **Deparment of**

"Scienze per la Promozione della Salute G. D'Alessandro"
University Hospital "Paolo Giaccone", Italy.
Lab Head: **Prof. Rosa Di Stefano**
Thesis: Cloning of viral isolates in the HBV infection

Date: ***07/09/2016***
Title of qualification awarded: ***Abilitazione alla professione di biologo(SEZ.A) with 154/200.***
Organization providing education: ***University of Palermo***

Papers

High content screening identifies niclosamide as miR148a inducer to sensitize colon cancer stem cells to chemotherapy through PXR inhibition

*Lucile Bansard[1], Océane Bouvet[1], Elisa Moutin[1], Gaetan Le Gall[1], **Alessandro Giammona[1]**, Elodie Pothin[1], Marion Bacou[1], Cédric Hassen-Khodja[2], Benoit Bordignon[2], Jean François Bourgaux[3], Michel Prudhomme[3], Frédéric Hollande[1]≈, Julie Pannequin[1]≈, Jean Marc Pascussi[5]#, Chris Planque[5]#*

[1] IGF, Université de Montpellier, CNRS, INSERM, Montpellier, France.
[2] Montpellier Ressources Imagerie, Biocampus, Université de Montpellier, CNRS, INSERM, Montpellier, France.
[3] CHU Carémeau, Nîmes, France.
[4] Department of Clinical Pathology, The University of Melbourne, Victorian Comprehensive Cancer Centre, Melbourne, VIC 3000, Australia; University of Melbourne Centre for Cancer Research, Melbourne, VIC 3000, Australia.
[5] IGF, Université de Montpellier, CNRS, INSERM, Montpellier, France.

**** Submitted Manuscript**

Hadamard-transform spectral acquisition with an acousto-optic tunable filter in a broadband stimulated Raman scattering microscope

*Luca Genchi,[1] Andrea Bucci,[1] Sergey P. Laptenok,[1] **Alessandro Giammona**,[1] and Carlo Liberale[1,2],**

Optics Express Vol. 29, Issue 2, pp. 2378-2386 (2021)
https://doi.org/10.1364/OE.415752
[1]Biological and Environmental Science and Engineering Division, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia
[2]Computer, Electrical and Mathematical Sciences and Engineering, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia

Combined platelet-rich plasma and lipofilling treatment provides great improvement in facial skin-induced lesion regeneration for scleroderma patients

*Francesco Virzì[1,2]†, Paola Bianca[1]†, **Alessandro Giammona[1]†**, Tiziana Apuzzo[1], Simone Di Franco[1], Laura Rosa Mangiapane[1], Maria Luisa Colorito[1], Dario Catalano[1], Emanuela Scavo[1], Annalisa Nicotra[1], Antonina Benfante[1], Giuseppe Pistone[3], Valentina Caputo[3], Francesco Dieli[4], Roberto Pirrello[2] and Giorgio Stassi[1]** **† Equal contributors**

December 2017. Stem Cell Research & Therapy
(DOI 10.1186/s13287-017-0690-3)
[1] Department of Surgical and Oncological Sciences, Cellular and Molecular Pathophysiology Laboratory, University of Palermo, Italy

Innovative therapeutic strategies targeting colorectal cancer stem cells

***Alessandro Giammona PhD[1]†,** Laura Rosa Mangiapane MSc[1]†, Simone Di Franco PhD[1], Antonina Benfante PhD[1], Matilde Todaro MD[2-3], Giorgio Stassi MD[1]* † **Equal contributors**

March 2017. Current Colorectal Cancer Reports 13(5)
DOI10.1007/s11888-017-0353-x
[1] Department of Surgical and Oncological Sciences, Cellular and Molecular Pathophysiology Laboratory, University of Palermo, Italy

Adipose stem cells on the basis of tumor transformation

Giammona, A
January 2016. http://hdl.handle.net/10447/163809
https://iris.unipa.it/
Department of Surgical and Oncological Sciences, Cellular and Molecular Pathophysiology Laboratory, University of Palermo, Italy
PhD thesis

Identification and Expansion of Adipose Stem Cells with Enhanced Bone Regeneration Properties.

A.B. Di Stefano, PhD [1], A. A. Leto Barone, MD [2*], **Giammona*, MSc** [1*], T. Apuzzo, PhD [1], P. Moschella, MD [2], S. Di Franco, PhD [1], G. Giunta, MD [2], M. Carmisciano MD [2], C. Eleuteri PhD [1], M. Todaro MD [1,3], F. Dieli MD [3], A. Cordova MD [2], G. Stassi MD [1#] and F. Moschella MD [2]*

*** Equal contributors**

October 20, 2015 J Regen Med 2015, 4:2

DOI: 10.4172/2325-9620.1000124

[1] Department of Surgical and Oncological Sciences, Cellular and Molecular Pathophysiology Laboratory, University of Palermo, Via del Vespro 131, 90127 Palermo, Italy

By promoting cell differentiation, miR-100 sensitizes basal-like breast cancer stem cells to hormonal therapy.

*Annalisa Petrelli,#[1] Rosachiara Carollo,#[2] Marilisa Cargnelutti,[1] Flora Iovino,[2] Maurizio Callari,[3] Daniela Cimino,[4] Matilde Todaro,[2] Laura Rosa Mangiapane,[2] **Alessandro Giammona,**[2] Adriana Cordova,[2] Filippo Montemurro,1 Daniela Taverna,4 Maria Grazia Daidone,3 Giorgio Stassi,#2 and Silvia Giordano#1*

Oncotarget. 2015 Feb 10;6(4):2315-30

[2] Department of Surgical and Oncological Sciences, Cellular and Molecular Pathophysiology Laboratory, University of Palermo, Italy

Abstracts:

Lipid droplets: a Raman signature of colorectal cancer stem cells

Alessandro Giammona, Vijayakumar P. Rajamanickam, Abdullah Alghamdi, Luca Genchi, Siarhei Laptenok, Carlo Liberale1

[1] *Vibrational Imging Lab, BESE Division, King Abdullah University of Science and Technology (KAUST), 23955- 6900, Thuwal, Kingdom of Saudi Arabia*

Nice, France

3rd Sunrise November, 16-17th june th, 2019

Stapled peptides as inhibitors of PXR: an alternative therapeutic strategy for sensitizing cancer cell and stem cells to chemotherapy

Alessandro Giammona[1] and Jordi Rull Barrull[2], Baptiste Legrand[2], Lucile Bansard[1], Chris Planque[1], Julie Pannequin[1], Muriel Amblard[2] and Jean Marc Pascussi[1]

[1] *IGF, CNRS, INSERM, Univ Montpellier, Montpellier, France* [2] *IBMM, CNRS, ENSCM, Univ Montpellier, Montpellier, France*

PhD and Postdoc Labex EpIGenMed Day November 7th, 2018

PXR inhibition as alternative therapeutic strategy for sensitizing cancer cell and cancer stem cells to chemotherapy

Giammona Alessandro[1]

[1] *Institut de Génomique Fonctionnelle (IGF) CNRS UMR 5203-INSERM U661, Axe: Biologie du Cancer, Equipe de recherche 'Signalisation, Plasticité et Cancer', Montpellier, France*

LabEx: EpiGenMed & CheMISyst, Balard POST (PhD) Days 4-6 December 2017, Montpellier, France.

A new target combination therapy overcomes the acquired resistence of colorectal cancer stem cells.

*A.Benfante, L.R. Mangiapane, M.L. Colorito, M.Gaggianesi, **A.Giammona**, E.Scavo, A.Chinnici, M.Todaro, G.Stassi.*

24th Biennial Congress Of The European Association For Cancer Research, **9-12 July 2016** in Manchester, UK.

(DOI: 10.1016/S0959-8049(16)61157-7)

Adiposphere-enriched dermal regenerative matrix (Integra®) promotes bone growth of calvaria defects in a xenogeneic model

Luigi Montesano M.D. [1], Barbara Di Stefano Ph.D.* [2]; **Alessandro Giammona**[2], Giovanni Cassata DVM[3], Cesare Gagliardo MD[4], Beatrice Belmonte MD[5], Ada Maria Florena MD[5], Paola Moschella MD[1], Adriana Cordova M.D. [1], Francesco Moschella[1] M.D. & Angelo A. Leto Barone, M.D.*

EuRePS (European Residents in Plastic Surgery)
Meeting, Favignana, 18 to 21 of June 2015.

Human adipose sphere-derived stem cells increase the mesenchymal potential: therapeutical implication.

*A.B. Di Stefano, **A. Giammona**, A. Leto Barone, G. Giunta, P. Moschella, M. Todaro1, F. Dieli, A. Cordova, G. Stassi and F. Moschella*

12th Annual Meeting of the International Federation for Adipose Therapeutics and Science to be held in Amsterdam, on November 13-16, 2015 *(DOI: 10.13140/RG.2.1.3552.2000 2015-11-11 T 13:27:44 UT)*

Scientific comunications

PXR inhibition as alternative therapeutic strategy for sensitizing cancer cell and cancer stem cells to chemotherapy

Presenting Author: ***Giammona Alessandro[1]***

[1] Institut de Génomique Fonctionnelle (IGF) CNRS UMR 5203-INSERM U661, Axe: Biologie du Cancer, Equipe de recherche 'Signalisation, Plasticité et Cancer', Montpellier, France

LabEx: EpiGenMed & CheMISyst, Balard POST (PhD) Days 4-6 December 2017, Montpellier,France.

Title: Identification and expansion of adipose stem cells with enhanced bone regeneration properties

Presenting Author: ***Giammona Alessandro***

Authors ***A. Giammona, MSc,*** *A.B. Di Stefano, PhD [1*], A. A. Leto Barone, MD [2*], [1*], T. Apuzzo, PhD [1], P. Moschella, MD [2], S. Di Franco, PhD [1], G. Giunta, MD [2], M. Carmisciano MD [2], C. Eleuteri PhD [1], M. Todaro MD [1,3], F. Dieli MD [3], A. Cordova MD [2], G. Stassi MD [1#] and F. Moschella MD [2]*

ABCD Congress: Bologna, Italy, 17-19 September 2015 Parallel Sessions: Topic: Stem cells, development and regenerative medicine

Characterization of subcutaneous and visceral adipose-derived stem cells and their function in colon cancer.

Presenting Author: ***Giammona Alessandro***

Senior Author: ***Stassi Giorgio***

Authors: Alessandro Giammona, Simone Di Franco, Matilde Todaro, Giorgio Stassi.

Affiliations: Laboratory of cellular and molecular pathophysiology, Department of Surgical Oncological and Stomatological Sciences, Policlinico Paolo Giaccone, University of Palermo.

10th EWCD MEETING- DEATH NEVER DIES. FIUGGI, APRIL 3rd To 8th 2016

Posters

Lipid droplets: a Raman signature of colorectal cancer stem cells

Alessandro Giammona, Vijayakumar P. Rajamanickam, Abdullah Alghamdi, Luca Genchi, Siarhei Laptenok, Carlo Liberale1

[1] Vibrational Imging Lab, BESE Division, King Abdullah University of Science and Technology (KAUST), 23955- 6900, Thuwal, Kingdom of Saudi Arabia

Nice, France 3rd Sunrise November, 16-17th june th, 2019

Stapled peptides as inhibitors of PXR: an alternative therapeutic strategy for sensitizing cancer cell and stem cells to chemotherapy

Alessandro Giammona[1] and Jordi Rull Barrull[2], Baptiste Legrand[2], Lucile Bansard[1], Chris Planque[1], Julie Pannequin[1], Muriel Amblard[2] and Jean Marc Pascussi[1]

[1] IGF, CNRS, INSERM, Univ Montpellier, Montpellier, France [2] IBMM, CNRS, ENSCM, Univ Montpellier, Montpellier, France PhD and Postdoc Labex EpIGenMed Day November 7th, 2018

IL-4 contributes to maintenance of stemness in breast cancer stem cells by inhibiting DUSP4 dependent differentiation

M. Gaggianesi, A. Turdo, A. Benfante, S. Di Franco, ***A. Giammona****, R. Carollo, T. Apuzzo, G. Stassi, M. Todaro.* ABCD Congress: Bologna, Italy, 17-19 September 2015

Adipose-Derived Stem Cells (ADSCs) in suspension: phenotyping, differentiation and engineering for Cranial vault reconstructuion.

A. A. Leto Barone, A. B.Di Stefano, L. Montesano, ***A Giammona****, A. Maenza, B. Belmonte, P. Moschella, G.Cassata, A. M. Florena, M. Todaro, G. Stassi, A. Cordova, F. Moschella.*

Bando progetto di ricerca Giovani Ricercatori- Ricerca finalizzata 2010 GR-2010.232101

Autocrine and paracrine IL-4 maintains breast cancer stem cells traits via RAS/MAPK/DUSP pathway

A. Turdo, M. Gaggianesi, T. Apuzzo, A. Chinnnici, ***A.Giammona****, S. Di Franco, G. Stassi, M. Todaro*

AACR annual meeting 2016 a New Orleans, April 16-20, 2016

A new target combination therapy overcomes the acquired resistence of colorectal cancer

stem cells.
A.Benfante, L.R. Mangiapane, M.L. Colorito, M.Gaggianesi, ***A.Giammona****, E.Scavo, A.Chinnici, M.Todaro, G.Stassi.*
24TH BIENNIAL CONGRESS OF THE EUROPEAN ASSOCIATION FOR CANCER RESEARCH, 9-12 July 2016 in Manchester, UK.

Collaborations

BOOK: **Principles of Pathology (Molecular Oncology). 3ª Edition**.
October 2016, ***ISBN:9788880341024,***
Published by :Medical Books
Authors: E. Mattiolo – M. Piazza – F. Virzi.
edited by: Giorgio Stassi.

In vivo certifications

1. *Biomethodology of the Laboratory Mouse (Training Certificate)*
   As organized by ***Charles River Laboratories*** *in collaboration with KAUST ARCL*
   Certificate no: 056CRLI/2019

2. *"EU DIR.2010/63 and D.L. n.26 04/03/2014. What's going to change for Lab Animals? Course on the protection of animals used for scientific purposes. Attestazione ottenuta nel 2014.*

3. *"Facilities e Welfare nel Topo da Laboratorio secondo la Legislazione Europea e Italiana". D.L.116/92 art.4 e*

Other certifcations

- LAB SAFETY TRAINING (March 2019)
- BIOSAFETY TRAINING (February 2019)
- BLOOD BORNE SAFETY TRAINING (February 2019)
- Emergency Incident Preparedness Training (February 2019)
- Hazardous Waste Training (February 2019)
- Liquid Nitrogen and Cryogenic Safety Training (April 2019)
- LASER SAFETY TRAINING (April 2019)

The undersigned is aware that, in accordance with art. 26 of Law 15/68, false statements, falsified acts and use of false documents are punishable according to the Criminal Code and special laws. Furthermore, I I authorize the processing of personal data, as provided by Law 675/96 of 31 December 1996.

Data,

06/10/2021

Signature Alessandro Giammona