



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 4899

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di
SCIENZE BIOMEDICHE E CLINICHE "L.SACCO"

Responsabile scientifico: Prof. CORSI

[Alessandro Giammona]

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Giammona
Nome	Alessandro
Data Di Nascita	[29, 09, 1981]

OCCUPAZIONE ATTUALE

Incarico	Struttura
assegnista di ricerca Senior	King Abdullah University of Science & Technology (KAUST) Biological and Environmental Science and Engineering Division

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	BIOTECNOLOGIE MEDICHE E MEDICINA MOLECOLARE. (classe LM-9 - lauree Magistrali in Biotecnologie mediche, veterinarie e farmaceutiche)	Universita' degli studi di Palermo	2012
Dottorato Di Ricerca	Dottorato in PhD International Program in Immunopharmacology	Universita' degli studi di Palermo	2015

LINGUE STRANIERE CONOSCIUTE

inglese	Ottimo
francese	Buono



PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2012	Vincitore di una Scholarship di tre anni erogata dall'università degli studi di Palermo
2017	Vincitore di una borsa di studio da "junior Post doctorat" di 24 mesi del programma PRESTIGE (Marie Curie actions) (INSERM, CNRS) e LabEx CheMISys, EpigenMed, Mabimprove et le SIRIC
2019	Vincitore di un contratto da senior "Post doctorat fellowship" con KAUST di 24 mesi Ed una relativa estensione di ulteriori 12 mesi

ATTIVITÀ DI FORMAZIONE O DI RICERCA

<p>24/02/2019 ad oggi Post Dottorato (Assegnista di ricerca Senior) <i>King Abdullah University of Science & Technology (KAUST)</i> <i>Biological and Environmental Science and Engineering Division.</i> Responsabile di laboratorio : Dr. Carlo Liberale <i>Thuwal, Arabia Saudita</i> Titolo del progetto di ricerca: Lipid metabolism dysregulation in Cancer Stem cells (VIBRA GROUP : https://vibrallab.kaust.edu.sa/)</p>
<p>01/02/2017 a 31/01/2019 Post Dottorato (Assegnista di ricerca) Institut de Génomique Fonctionnelle, /Institut National de la Santé et Recherche Medical, U661, Montpellier, France . Centre National de la Recherche Scientifique(CNR), UMR5203, Dipartimento: Cancer biology Responsabile di laboratorio: Dr. Julie Pannequin Titolo del progetto di ricerca: 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) Coordinatore del progetto di ricerca: 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)</p>
<p>22/03/2016 a 01/01/2017 Post PhD training Laboratorio di Fisiopatologia Cellulare e Molecolare, Dipartimento di chirurgia ed Oncologia, Ospedale universitario Paolo Giaccone, Italia Responsabile di laboratorio: Prof. Giorgio Stassi. Progetto di ricerca "Tumor microenvironment and colon cancer progression: the adipose's tissue effect" (in collaborazione con Simone Di Franco vincitore di un assegno di ricerca AIRC). (http://www.giorgiostassi.it/my-research-team/)</p>
<p>Da 01/01/2013 a 31/12/2015 Dottorato in PhD International Program in Immunopharmacology Laboratorio di Fisiopatologia Cellulare e Molecolare, Dipartimento di chirurgia ed Oncologia, Ospedale universitario Paolo Giaccone, Italia Responsabile di laboratorio: Prof. Giorgio Stassi Progetto di ricerca: Adipose stem cells (ASCs) in lipofilling procedure and tumoral relapse after surgical treatment. (http://www1.unipa.it/dottimmunofarmacologia/students.html http://www.giorgiostassi.it/my-research-team/)</p>
<p>Da 01/07/2011 a 31/01/2012 Tesi e studente laureando in Laurea magistrale in Biotecnologie mediche e medicina Laboratorio di Fisiopatologia Cellulare e Molecolare, Dipartimento di chirurgia ed Oncologia, Ospedale universitario Paolo Giaccone, Italia Responsabile di laboratorio: Prof. Giorgio Stassi</p>



Tesi: **Role of mir-100 in breast cancer stem cells regulation**

(<https://www.cmol.it/research-team/>)

01/11/2009 to 01/03/2010

Tesista e Studente laureando in **Laurea triennale in biotecnologie (indirizzo Biomedico)**

Presso laboratorio di Virologia e nel rischio biologico.

Dipartimento di “Scienze per la Promozione della Salute G. D’Alessandro”

Ospedale universitario Paolo Giaccone, Italia

Responsabile di laboratorio: **Prof. Rosa Di Stefano**

Tesi: **Cloning of viral isolates in the HBV infection**

ATTIVITÀ PROGETTUALE

Anno	Progetto
24/02/2019 ad oggi	Lipid metabolism dysregulation in Cancer Stem cells
Da 01/02/2017 a 31/01/2019	Foldamer and Stapled peptide as inhibitors of PXR: an alternative therapeutic strategy for sensitizing cancer cell and stem cells to chemotherapy
Da 01/01/2013 a 31/12/2015	Adipose stem cells (ASCs) in lipofilling procedure and tumoral relapse after surgical treatment.
Da 22/03/2016 a 01/01/2017	Tumor microenvironment and colon cancer progression: the adipose's tissue effect

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
17-19 Settembre 2015	The Biennial Congress of the Italian Association of Cell Biology and Differentiation (ABCD) http://abcd2015.azuleon.org/programme.php	Bologna, Italy
3-8 Aprile 2016	10th EWCD Meeting- Death never dies	Fiuggi, Italy
4-6 Dicembre 2017	Balard Post(PhD)2 Days http://www.polechimie-balard.fr/	Montpellier, France
11-13, Giugno 2018	11th International Conference on Cancer Stem Cells and Oncology Research	Dublin, Ireland
7 Novembre 2018	Labex EpiGenMed PhD & Postdoc Meeting https://www.epigenmed.fr/index.php/accueil	Montpellier, France
15 Novembre 2018	3ème Journée SIRIC Montpellier Cancer & Pôle Chimie Balard	Montpellier, France
22-24 Novembre 2018	Signal Transduction in Cancer (ABCD meeting) https://stc2018.azuleon.org/	Torino, Italy
16-17 Maggio 2019	3rd SUNRiSE Meeting “New advances in Cancer Stem Cells” https://www.sunrise-network.fr/event/formation-csc-lille-2020/	Nice, France
21-24 October 2020,	EMBO EMBL Symposium: Organoids: Modelling Organ Development and Disease in 3D Culture	(Virtual)



PUBBLICAZIONI

Libri
[PRINCIPI DI PATOLOGIA GENERALE ONCOLOGIA MOLECOLARE III edizione, Palermo, Medical Books, 2016, https://www.libreriascientifica.com/patologia-generale/principi-di-patologia-generale/9788880341024 , ISBN:9788880341024]
Adipose stem cells on the basis of tumor transformation, https://iris.unipa.it/ : 4.2 Tesi di dottorato, 2016, http://hdl.handle.net/10447/163809 .
Articoli su riviste
[By promoting cell differentiation, miR-100 sensitizes basal-like breast cancer stem cells to hormonal therapy, <i>Oncotarget</i> 10;6(4):2315-30, Advance Publications 2014, www.impactjournals.com/oncotarget/ , December 11, 2014,]
[Identification and Expansion of Adipose Stem Cells with Enhanced Bone Regeneration Properties, <i>Journal of Regenerative Medicine</i> , <i>SciTechnol journal</i> , 2015, http://dx.doi.org/10.4172/2325-9620.1000124]
[Innovative Therapeutic Strategies Targeting Colorectal Cancer Stem Cells, <i>Basic Science Foundations in Colorectal Cancer</i> , città, J Roper, Section Editor, 2017, https://link.springer.com/article/10.1007/s11888-017-0353-x]
[Combined platelet-rich plasma and lipofilling treatment provides great improvement in facial skin-induced lesion regeneration for scleroderma patients, <i>Stem Cell Research & Therapy</i> , <i>BMC</i> , 2017, https://stemcellres.biomedcentral.com/articles/10.1186/s13287-017-0690-3)]
[Hadamard-transform spectral acquisition with an acousto-optic tunable filter in a broadband stimulated Raman scattering microscope, <i>Optics Express</i> , OSA,2020, https://doi.org/10.1364/OE.415752
<u><i>A new target combination therapy overcomes the acquired resistance of colorectal cancer stem cells.</i></u> <i>A.Benfante, L.R. Mangiapane, M.L. Colorito, M.Gaggianesi, A.Giammona, E.Scavo, A.Chinnici, M.Todaro, G.Stassi.</i> EACR24 Poster Sessions / <i>European Journal of Cancer</i> 61, Suppl. 1 (2016) S9–S218 (DOI: 10.1016/S0959-8049(16)61157-7)
Atti di convegni
<u>ABSTRACT: Lipid droplets: a Raman signature of colorectal cancer stem cells</u> <i>Alessandro Giammona</i> 1 Vibrational Imaging 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
<u>POSTER: Lipid droplets: a Raman signature of colorectal cancer stem cells</u> <i>Alessandro Giammona, Vijayakumar P. Rajamanickam, Abdullah Alghamdi, Luca Genchi, Sjarhei Laptenok, Carlo Liberale</i> 1 Vibrational Imaging 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
<u>ABSTRACT: Stapled peptides as inhibitors of PXR: an alternative therapeutic strategy for sensitizing cancer cell and stem cells to chemotherapy</u> <i>Alessandro Giammona¹ and Jordi Rull Barrull², Baptiste Legrand², Lucile Bansard¹, Chris Planque¹, Julie Pannequin¹, Muriel Amblard² and Jean Marc Pascussi¹</i> 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



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

Alessandro Giammona¹ and Jordi Rull Barrull², Baptiste Legrand², Lucile Bansard¹, Chris Planque¹, Julie Pannequin¹, Muriel Amblard² and Jean Marc Pascussi¹

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

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

Alessandro Giammona¹ and Jordi Rull Barrull², Baptiste Legrand², Lucile Bansard¹, Chris Planque¹, Julie Pannequin¹, Muriel Amblard² and Jean Marc Pascussi¹

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

PRESENTAZIONE ORALE : Foldamer and Stapled peptide as inhibitors of PXR: an alternative therapeutic strategy for sensitizing cancer cell and stem cells to chemotherapy

- Alessandro Giammona, IGF

3ème Journée SIRIC Montpellier Cancer & Pôle Chimie Balard, 15 Novembre 2018 Montpellier, France

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

Alessandro Giammona¹, J.R. Barrull², B. Legrand², L. Bansard¹, C. Planque¹, J. Pannequin¹, M. Amblard², J.M. Pascussi¹

IGF, CNRS, INSERM, Univ Montpellier, Montpellier, France ² IBMM, CNRS, ENSCM, Univ Montpellier, Montpellier, France
Signal Transduction in Cancer (ABCD meeting) 22-24 Novembre 2018 Torino, Italy

<https://stc2018.azulcon.org/>

ABSTRACT: PXR inhibition as alternative therapeutic strategy for sensitizing cancer cell and cancer stem cells to chemotherapy
Giammona Alessandro¹

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.

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

Presenting Author: Giammona Alessandro¹

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.

ABSTRACT: A new target combination therapy overcomes the acquired resistance 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)

POSTER: A new target combination therapy overcomes the acquired resistance 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.

PRESENTAZIONE ORALE : 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

PRESENTAZIONE ORALE : 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, PhD¹, P. Moschella, MD², S. Di Franco, PhD¹, G. Giunta, MD², M. Carmisciano MD², C. Eleuteri PhD¹, M. Todaro MD^{1,3}, F. Dieli MD³, A. Cordova MD², G.

Stassi MD^{1#} and F. Moschella MD²



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

POSTER: 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

<http://abcd2015.azuleon.org/programme.php>

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

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

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

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

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

ABSTRACT: 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 Giammona², Giovanni Cassata DVM³, Cesare Gagliardo MD⁴, Beatrice Belmonte MD⁵, Ada Maria Florena MD⁵, Paola Moschella MD¹, Adriana Cordova M.D. ¹, Francesco Moschella MD¹ & Angelo A. Leto Barone, M.D. ¹*

EUREPS meeting June 18-25, 2015

ABSTRACT: Xenotransplantation of Integra and human spheroids from adipospheroids from adipose-derived stem cells (S-ASCs) promotes Calvarian bone production in rabbit model

*Luigi Montesano M.D. * 1, Barbara Di Stefano Ph.D. * 2; Alessandro Giammona², Antonio Maenza, Beatrice Belmonte MD⁵, Paola Moschella MD¹, Ada Maria Florena MD⁵, M. Todaro, G. Stassi, Adriana Cordova M.D. ¹, Francesco Moschella MD¹ & Angelo A. Leto Barone, M.D. ¹*

IFATS 5-8 november 2015 New Orleans

ALTRE INFORMAZIONI

Abilitazione alla professione di biologo (SEZ.A) con votazioni 154/200, conseguita Presso l'Università degli studi di Palermo in data 07/09/2016

CERTIFICAZIONI sull'utilizzo di modelli animali:

Biomethodology of the Laboratory Mouse" November 11th-14th 2019 presso King Abdullah University of Science and Technology organizzato da Charles River Laboratories in collaboration with KAUST ARC

Certificate no: 056CRLI/2019

CERTIFICAZIONI ottenute durante la posizione di Assegnista di ricerca Senior al *King Abdullah University of Science & Technology (KAUST) Biological and Environmental Science and Engineering Division.*

Dal 24/02/2019 ad oggi

LAB SAFETY TRAINING
03 MARZO 2019

BIOSAFETY TRAINING
28 FEBBRAIO 2019

BLOOD BORNE SAFETY TRAINING



28 FEBBRAIO 2019

Emergency Incident Preparedness Training
28 FEBBRAIO 2019

Hazardous Waste Training
28 FEBB 2019

Liquid Nitrogen and Cryogenic Safety Training
22 APRILE 2019

LASER SAFETY TRAINING
21 APRILE 2019

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

Luogo e data: _

**King Abdullah University of Science & Technology (KAUST),
Thuwal, 23955-6900, SAUDI ARABIA,
20/02/2021**

FIRMA _____