

**FORMATO
EUROPEO PER IL
CURRICULUM
VITAE**



Informazioni personali

Nome CANDIDO Saverio
Indirizzo Via Fontana, 308 - 97015 - Modica (RG)
Telefono +39 3331656052
E-mail scandido@unict.it
Cittadinanza ITALIANA
Data di nascita 26/09/1979

Titoli di studio

Data di conseguimento 19/01/2016
Titolo conseguito Dottore di ricerca
Titolo della Tesi Neutrophil gelatinase-associated lipocalin (NGAL) and matrix metalloproteinases (MMPs) as biomarkers of bladder cancer development and progression
Nome e indirizzo istituzione Università degli Studi di CATANIA - P.zza dell'Università',2 - CATANIA

Data di conseguimento 22/04/2009
Titolo conseguito Laurea (vecchio ordin.)
Descrizione Scienze Biologiche
Voto conseguito 110 e lode
Nome e indirizzo istituzione Università degli Studi di CATANIA - P.zza dell'Università',2 - CATANIA

Esperienze

Periodo 03/08/2016 - oggi
Posizione Assegnista di ricerca
Nome e indirizzo istituzione Università degli Studi di CATANIA - P.zza dell'Università',2 - CATANIA
Struttura Dip. L.240/2010 SCIENZE BIOMEDICHE E BIOTECNOLOGICHE
Periodo 02/01/2013 - 31/10/2015
Posizione Dottorando
Nome e indirizzo istituzione Università degli Studi di CATANIA - P.zza dell'Università',2 - CATANIA
Struttura Dip. L.240/2010 Scienze Bio-Mediche
Titolo dottorato SCIENZE ONCOLOGICHE
Periodo 16/07/2010 - 06/01/2013
Posizione Specializzando
Nome e indirizzo istituzione Università degli Studi di CATANIA - P.zza dell'Università',2 - CATANIA

Premi e borse di studio

2016 - Vincitore premio "Margaret Foti Award" per la migliore tesi di dottorato in Oncologia TRaslazionale
2015 - Premio LILT per la pubblicazione dal titolo "Analysis of the B-RafV600E mutation in cutaneous melanoma patients with occupational sun exposure" selezionata tra le migliori pubblicazioni scientifiche in campo oncologico relative alla

	<p>selezione.</p> <p>2012 - Vincitore di una borsa di studio presso il Centro di Riferimento Oncologico IRCCS di Aviano e finanziata dalla Fondazione Umberto Veronesi inerente il progetto di ricerca dal titolo “Neutrophil gelatinase-associated lipocalin (NGAL) and matrix metalloproteinases (MMPS) as biomarkers of bladder cancer development and progression”.</p>
Stages	<p>Durante il triennio del Corso di Dottorato Ricerca in Scienze Oncologiche ha frequentato le seguenti Istituzioni: Centro di Regolazione genomica di Barcellona (Spagna), East Carolina University (USA) e il Centro di Riferimento Oncologico di Aviano.</p>
Attività di ricerca	<p>Il suo filone di ricerca è mirato allo studio dei meccanismi molecolari di sviluppo e progressione dei tumori con particolare riferimento alle interazioni del microambiente tumorale, attraverso l’attivazione del complesso NGAL/MMP-9, con le vie di trasduzione del segnale RAF-MAPK-ERK e PI3K-AKT. Altro aspetto che caratterizza la sua ricerca è lo studio dell’attivazione delle suddette vie di trasduzione del segnale a seguito di stimoli da cancerogeni ambientali durante esposizione professionale. Lo studio di tali meccanismi permette di indentificare nuovi marcatori che possono essere usati per nuove strategie di diagnosi e terapia.</p>
Attività didattica	<p>E’ tutor di numerosi laureandi interni del corso di laurea in scienze biologiche, farmacia e tecniche di laboratorio biomedico, nonché del corso di specializzazione in patologia clinica. Svolge attività seminariale per gli studenti del Corso di laurea in odontoiatria e per quelli del corso di tecniche di laboratorio biomedico nell’ambito dei corsi di patologia generale e di scienze tecniche di medicina di laboratorio</p>
Convegni internazionali	<p>Ha partecipato a diversi congressi nazionali ed internazionali, anche come relatore, tra essi meritano menzione il congresso annuale della associazione americana per la ricerca sul cancro (AACR) e il congresso annuale internazionale “World Congress on Advances in Oncology” (Atene).</p>
Elenco dei prodotti della ricerca	<p>Falzone L, CANDIDO S., Salemi R, Basile MS, Scalisi A, McCubrey JA, Torino F, Signorelli SS, Montella M, Libra M. (in stampa). Computational identification of microRNAs associated to both epithelial to mesenchymal transition and NGAL/MMP-9 pathways in bladder cancer. ONCOTARGET, ISSN: 1949-2553, doi: 10.18632/oncotarget.11805</p> <p>Hafsi S, CANDIDO S., Maestro R, Falzone L, Soua Z, Bonavida B, Spandidos DA, Libra M. (2016). Correlation between the overexpression of Yin Yang 1 and the expression levels of miRNAs in Burkitt's lymphoma: A computational study. ONCOLOGY LETTERS, vol. 11; p. 1021-1025, ISSN: 1792-1074, doi: 10.3892/ol.2015.4031</p> <p>Signorelli SS, CANDIDO S., Salemi R, Fiore V, Mangiafico M, Libra M. (2016). Low levels of inflammation and the absence of subclinical atherosclerosis in rheumatoid arthritis. MOLECULAR MEDICINE REPORTS, vol. 13; p. 3521-3524, ISSN: 1791-2997, doi: 10.3892/mmr.2016.4962</p> <p>Pennisi M, Russo G, Di Salvatore V, CANDIDO S., Libra M, Pappalardo F. (2016).</p>

Computational modeling in melanoma for novel drug discovery. *EXPERT OPINION ON DRUG DISCOVERY*, vol. 11; p. 609-621, ISSN: 1746-0441, doi: 10.1080/17460441.2016.1174688

Emma MR, Iovanna JL, Bachvarov D, Puleio R, Loria GR, Augello G, CANDIDO S., Libra M, Gulino A, Cancila V, McCubrey JA, Montalto G, Cervello M. (2016). NUPR1, a new target in liver cancer: implication in controlling cell growth, migration, invasion and sorafenib resistance. *CELL DEATH & DISEASE*, vol. 7; p. e2269-e2269, ISSN: 2041-4889, doi: 10.1038/cddis.2016.175

CANDIDO S., Di Maso M, Serraino D, McCubrey JA, Bortolus R, Zanin M, Battiston M, Salemi R, Libra M, Polesel J. (2016). Diagnostic value of neutrophil gelatinase-associated lipocalin/matrix metalloproteinase-9 pathway in transitional cell carcinoma of the bladder. *TUMOR BIOLOGY*, vol. 37; p. 9855-9863, ISSN: 1010-4283, doi: 10.1007/s13277-016-4872-x

Falzone L, Salemi R, Travali S, Scalisi A, McCubrey JA, CANDIDO S., Libra M. (2016). MMP-9 overexpression is associated with intragenic hypermethylation of MMP9 gene in melanoma. *AGING*, vol. 8; p. 933-944, ISSN: 1945-4589, doi: 10.18632/aging.100951

Pappalardo F, Russo G, CANDIDO S., Pennisi M, Cavalieri S, Motta S, McCubrey JA, Nicoletti F, Libra M. (2016). Computational Modeling of PI3K/AKT and MAPK Signaling Pathways in Melanoma Cancer. *PLOS ONE*, vol. 11; p. e0152104-e0152104, ISSN: 1932-6203, doi: 10.1371/journal.pone.0152104

CANDIDO S., Abrams SL, Steelman LS, Lertpiriyapong K, Fitzgerald TL, Martelli AM, Cocco L, Montalto G, Cervello M, Polesel J, Libra M, McCubrey JA (2016). Roles of NGAL and MMP-9 in the tumor microenvironment and sensitivity to targeted therapy. *BIOCHIMICA ET BIOPHYSICA ACTA*, vol. 1863; p. 438-448, ISSN: 0006-3002, doi: 10.1016/j.bbamcr.2015.08.010

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p. 15 Suppl-15 Suppl, doi: 10.1158/1538-7445.AM2015-4304

Steelman LS, Abrams SL, Chappell WH, Fitzgerald TL, Lertpiriyapong K, Polesel J, Martelli AM, Cervello M, Montalto G, CANDIDO S., Libra M, McCubrey JA (2015). Functions of NGAL and GSK-3beta in sensitivity to targeted, chemo- and hormonal-based therapies. In: 20th World Congress on Advances in Oncology and 18th International Symposium on Molecular Medicine. . Athens, Greece., 2015, vol. 36, p. S41-S41

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McCubrey JA, Abrams SL, Fitzgerald TL, Cocco L, Martelli AM, Montalto G, Cervello M, Scalisi A, CANDIDO S., Libra M, Steelman LS (2015). Roles of signaling pathways in drug resistance, cancer initiating cells and cancer progression and metastasis. *ADVANCES IN BIOLOGICAL REGULATION*, vol. 57; p. 75-101, ISSN: 2212-4926, doi: 10.1016/j.jbior.2014.09.016

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CANDIDO S., Salemi R, Pezzino FM, Talamini R, Polesel J, McCubrey JA, Travali S, Libra M. (2013). Neutrophil gelatinase-associated lipocalin (NGAL) as potential marker of bladder cancer progression. In: 18th World Congress on Advances in Oncology and 16th International Symposium on Molecular Medicine. Crete, Greece, 10-12 October 2013, vol. 32, p. S68-S68

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CANDIDO S., Salemi R, Pezzino FM, Malaponte G, Travali S, Libra M. (2013). MMP-9 is down-regulated after treatment with Vemurafenib in A375 and A2058 melanoma cells. In: 18th World Congress on Advances in Oncology and 16th International Symposium on Molecular Medicine. Crete, Greece, 10-12 October 2013, vol. 32, p. S67-S67

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Caggia S, CANDIDO S., Libra M, Cardile V (2013). Transcription factors involved in the genesis and progression of cancer differently modulated by transforming growth factor-beta3 (TGF-Beta3) in prostate cell lines. In: 104th Annual Meeting of the American-Association-for-Cancer-Research (AACR). Washington, DC - USA, APR 06-10, 2013, vol. 73, doi: 10.1158/1538-7445.AM2013-4074

Hafsi Sameh, Pezzino Franca Maria, CANDIDO S., Ligresti Giovanni, Spandidos Demetrios A., Soua Zohra, McCubrey James A., Travali Salvatore, Libra Massimo (2012). Gene alterations in the PI3K/PTEN/AKT pathway as a mechanism of drug-resistance (Review). *INTERNATIONAL JOURNAL OF ONCOLOGY*, vol. 40; p. 639-644, ISSN: 1019-6439, doi: 10.3892/ijo.2011.1312

McCubrey James A., Steelman Linda S., Chappell William H., Abrams Stephen L., Franklin Richard A., Montalto Giuseppe, Cervello Melchiorre, Libra Massimo,

CANDIDO S., Malaponte Grazia, Mazzarino Maria C., Fagone Paolo, Nicoletti Ferdinando, Baesecke Joerg, Mijatovic Sanja, Maksimovic-Ivanic Danijela, Milella Michele, Tafuri Agostino, Chiarini Francesca, Evangelisti Camilla, Cocco Lucio, Martelli Alberto M. (2012). Ras/Raf/MEK/ERK and PI3K/PTEN/Akt/mTOR Cascade Inhibitors: How Mutations Can Result in Therapy Resistance and How to Overcome Resistance. *ONCOTARGET*, vol. 3; p. 1068-1111, ISSN: 1949-2553, doi: 10.18632/oncotarget.659

Leonardi Giulia Costanza, CANDIDO S., Carbone Maurizio, Colaianni Valeria, Garozzo Sebastiano F., Cina Diana, Libra Massimo (2012). microRNAs and thyroid cancer: Biological and clinical significance. *INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE*, vol. 30; p. 991-999, ISSN: 1107-3756, doi: 10.3892/ijmm.2012.1089

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Leonardi Giulia Costanza, CANDIDO S., Cervello Melchiorre, Nicolosi Daria, Raiti Fabio, Travali Salvatore, Spandidos Demetrios A., Libra Massimo (2012). The tumor microenvironment in hepatocellular carcinoma. *INTERNATIONAL JOURNAL OF ONCOLOGY*, vol. 40; p. 1733-1747, ISSN: 1019-6439, doi: 10.3892/ijo.2012.1408

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Chappell William H., Abrams Stephen L., Franklin Richard A., LaHair Michelle M., Montalto Giuseppe, Cervello Melchiorre, Martelli Alberto M., Nicoletti Ferdinando, CANDIDO S., Libra Massimo, Polesel Jerry, Talamini Renato, Milella Michele, Tafuri Agostino, Steelman Linda S., McCubrey James A. (2012). Ectopic NGAL expression can alter sensitivity of breast cancer cells to EGFR, Bcl-2, CaM-K inhibitors and the natural plant product berberine. *CELL CYCLE*, vol. 11; p. 4447-4461, ISSN: 1538-4101, doi: 10.4161/cc.22786

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Catania 16/11/2016

Saverio Candido