



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5979

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Department of Medical Biotechnology and Translational Medicine**

Scientist- in - charge: **Prof. Locati**

[Name and surname]

**CURRICULUM VITAE**

PERSONAL INFORMATION

Surname	George william
Name	Jonahunnatha nesson

PRESENT OCCUPATION

Appointment	Structure
<b>Adjunct faculty [part-time-without pay]</b>	Department of Biochemistry, Saveetha Dental College & Hospitals, Saveetha Institute of Medical and Technical Sciences, Chennai, India (From Oct 25 2021-Present).
<b>Post doctoral researcher</b>	Onco-hematology lab, G. d'Annunzio" University, Chieti, Italy (Mar 01 2020-Feb 28 2022).
<b>Post doctoral researcher</b>	Laboratory Medicine and Pathobiology, Toronto General Hospital. (University Health Network), Toronto, Canada. (Sept 17 2018-Aug 10 2019).
<b>Post doctoral researcher</b>	Department of Biomedical and Clinical Sciences (BKV), Linkoping University, Linkoping, Sweden. (Jun 25 2015 to Sept 24 2016).
<b>Research Fellow</b>	Department of Medical-Surgical Sciences and Biotechnologies, University of Rome, La Sapienza, Latina, Italy, (Feb 01 2012- Aug 30 2013).
<b>Guest Researcher</b>	Cardiac Hypertrophy Laboratory, Department of Molecular biology, School of Biological Sciences, Madurai Kamaraj University, India.



<b>Research Assistant</b>	Department of Bio- chemistry, All India Institute of Medical Science, New Delhi, India. (Oct 2009- Jan 2011 & Jan 2017-Sept 2018).
<b>Research Fellow</b>	Department of Bio-chemistry, Biophysics & Bio-informatics, National Center for Biological Sciences, TIFR, Bangalore, India. (June 2004 - Oct 2006)

## EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	PhD -Doctorate		
Specialization	Molecular oncology and experimental surgery	Ruprecht Karl-University of Heidelberg/ DKFZ, Heidelberg, Germany	
PhD			(PhD awarded on 15/07/2014,) cum laude, (Oct 1 2006- Oct 10 2009).
Master	Biochemistry	Islamiah College, affiliated by Madras University, Tamil Nadu,	Jun 1999- Oct 2001)- Convocation on 12/09/2002.
Degree of medical specialization			
Degree of European specialization			
Other			

## REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City



## FOREIGN LANGUAGES

Languages	level of knowledge
English	fluency
Italian	Moderate

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2006	Dr Hella-Buehler-Foundation, Heidelberg,

## TRAINING OR RESEARCH ACTIVITY

1. Description of activity : <b>FACS training course at Centre for Stem Cell Research, Christian Medical College (a unit of inStem, Bengaluru) Christian Medical College Campus Bagayam Vellore 632002, Tamil Nadu, India (2018).</b>
2. Supervision of graduation student thesis and guided to discover that <b>“Combination of carfilzomib and PRIMA-1 (Met) synergistically sensitizes drug-resistant multiple myeloma cells via induction of caspase pathway”</b> at of Laboratory Hematology, Laboratory Medicine Program, Toronto General Hospital, University Health Network, Toronto, Ontario, Canada.
3.

## PROJECT ACTIVITY

Year	Project
2021	<b>Role of non-coding RNAs in Oral Carcinoma at Saveetha Institute of Medical and Technical Sciences</b>
2020-2021	Role of miR-181a and miR-181b in B- cell malignancies and development of rational approaches for their use as therapeutic agents
2022	Role of NQO2 gene in Parkinson’s Disease
2019	Role of Skp2 gene in Multiple myeloma
2016	ARID1A mutation screening in AML relapse samples
2013	Role non-coding RNAs Bivalent domains in MPN & Drug efficacy of Vaproic acid in MPN



2006	Role of miR-21 gene in Colorectal cancer
------	--

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
March 23-28, 2024,	<i>Comprehensive Single-Cell Sequencing Sheds Light on Skp2 Inhibition's Influence on Cell Survival in Multiple Myeloma</i> , abstract	United States and Canadian Academy of Pathology's 113th Annual Meeting, in Baltimore, Maryland
June-2021	<b>"cFOS/mir-181a circuitry is involved in BCR signaling and death of CLL cells</b>	European Hematology Association
December 7-10, 2019)	<b>Overexpression of Mir-21-5p Induces Apoptosis and Cell Cycle Arrest By Down- Regulating SKP2 and Overcomes Bortezomib Resistance in Multiple Myeloma"</b>	61st Annual Meeting and Exposition in Orlando, FL, American Society of Hematology.
Jan 2015	Role of epidermal growth factor (EGF) in cancers	Department of Biological regulation, <b>Weizmann Institute of Science</b> , Rehovot, Israel, invited by Prof. Yosef Yarden.
2007	Indio-German conference, Non-coding RNAs in Cancers, at <b>German Cancer research Center (DKFZ)</b> , Heidelberg (2007).	DKFZ, Heidelberg, Germany

PUBLICATIONS

Books
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]



Articles in reviews
<p><b>1. Curcumin regulates miR-21 expression and inhibits invasion and metastasis in colorectal cancer.</b> Mudduluru G#1, George-William JN#1, Muppala S, Asangani IA, Kumarswamy R, Nelson LD, Allgayer H. <i>Biosci Rep.</i> 2011 Jun;31(3):185-97. doi: 10.1042/BSR20100065. PMID: 20815812 <b>14 JANUARY 2011 [First co-author]</b></p> <p><b>2. Emerging cardiac non-coding landscape: The importance of meta-analysis.</b> Rajan KS, Ramasamy S, George-William JN, Rajendhran J. <i>Biochimie.</i> 2017 Feb;133:87-94. doi: 10.1016/j.biochi.2016.12.018. Epub 2016 Dec 27. PMID: 28038934 <b>Reviews. 2 JANUARY 2017</b></p> <p><b>3. Abundant and Altered Expression of PIWI-Interacting RNAs during Cardiac Hypertrophy.</b> Rajan KS, Velmurugan G, Gopal P, Ramprasath T, Babu DD, Krithika S, Jenifer YC, Freddy A, William G Jn, Kalpana K, Ramasamy S. <i>Heart Lung Circ.</i> 2016 Oct;25(10):1013-20. doi: 10.1016/j.hlc.2016.02.015. Epub 2016 Mar 28. PMID: 27067666. <b>1 OCTOBER 2016</b></p> <p><b>4. Enhanced Expression of miR-181b in B Cells of CLL Improves the Anti-Tumor Cytotoxic T Cell Response.</b> Di Marco M, Veschi S, Lanuti P, Ramassone A, Pacillo S, Pagotto S, Pepe F, George-William JN, Curcio C, Marchisio M, Miscia S, Innocenti I, Autore F, Vannata B, Di Gregorio P, Di Gioacchino M, Valentinuzzi S, Iezzi M, Mariani-Costantini R, Larocca LM, Laurenti L, Veronese A, Visone R. <i>Cancers (Basel).</i> 2021 Jan 12;13(2):257. doi: 10.3390/cancers13020257. PMID: 33445508. <b>12 January 2021</b></p> <p><b>5. Ascendancy of unfolded protein response over glioblastoma: estimating progression, prognosis and survival.</b> Gundamaraju R, Wu J, William JNG, Lu W, Jha NK, Ramasamy S, Rao PV. <i>Biotechnol Genet Eng Rev.</i> 2022 Jul 29:1-23. doi: 10.1080/02648725.2022.2106002. Online ahead of print. PMID: 35904341 <b>Reviews. 29 JULY 2022.</b></p> <p><b>6. Geographical distribution of host's specific SARS-CoV-2 mutations in the early phase of the COVID-19 pandemic.</b> Khalid M, Murphy D, Shoai M, Nesson George-William J, Al- Ebini Y. <i>Gene.</i> 2022 Nov 4:147020. doi: 10.1016/j.gene.2022.147020. Online ahead of print. <b>4 November 2022.</b></p> <p><b>7. Autophagy and neuroprotection in astrocytes exposed to 6-hydroxydopamine is negatively regulated by NQO2: a potential novel target in Parkinson's disease.</b> Elzbieta Janda, Maddalena Parafati, Concetta Martino, Francesco Crupi, Jonahunnatha Nesson George William, Janda E , Parafati M , Martino C , William JNG , Reybier K , Mollace V , Boutin J. <b>[Accepted in Scientific Reports-Nature, October 11 2023].</b></p>
[title of the article, review, place, publishing house, year ...]
[title of the article, review, place, publishing house, year ...]

Congressproceedings
[title, structure, place, year]
[title, structure, place, year]
[title, structure, place, year]

OTHER INFORMATION

<p><b>1. SKping cell cycle regulation: Role of ubiquitin ligase SKP2 in hematological malignancies</b> Jonahunnatha Nesson George William , Ruby Dhar , Rohit Gundamaraju , Antony Francis Paulraj Allwin Mages Raj , Subbiah Ramasamy and Subhradip Karmakar <b>[Submitted to Frontiers in Oncology on 04 September 2023]</b></p>
--



### Manuscript preparation

1. **The dual role of miR-223 in cancer development and cancer drug resistance.** George William Jonahunnatha nesson, Rohit Gundamaraju, Laura Pulze, Davide Barbagallo, Donatella Ponti, and Paola Campomenosi [ Review: Submitting to MDPI in august 2023]

2. **Cellular Landscaping of miRNAs in Chronic Lymphocytic Leukemia: Bottlenecks and Breakthroughs.** Jonahunnatha Nesson George-William, PhD, Rohit Gundamaraju , Rahul Bhattacharjee, Tamoghni Mitra , Selvaraj Jayaraman, Shazia Fathima Rizwan and Subbiah Ramasamy [Manuscript completed]

3. **Overexpression of Mir-21-5p Induces Apoptosis and Cell Cycle Arrest by Down- Regulating SKP2 and Overcomes Bortezomib Resistance in Multiple Myeloma.** Jonahunnatha Nesson George William , Jian Wu, Ziyang Chen, Omar Faruq and Hong Chang [Manuscript almost ready- awaiting few results to include]

4. **The Intricacy of miRNAs and BCR signaling on CLL drug resistance: Possible future therapeutic approaches of miRs plus CLL drugs combination.** Jonahunnatha nesson George William, Rohit Gundamaraju, Shazia Fathima Rizwan, Mitrunjoy roy, Rekha Balakrishnan and Ramasamy Subbiah. [Manuscript completed -ready for submission].

### ASH & EHA publication

3. [https://ashpublications.org/search-  
results?q=george%20william%20jonahunnatha&fl\\_SiteID=1&page=1&qb={%22q](https://ashpublications.org/search-results?q=george%20william%20jonahunnatha&fl_SiteID=1&page=1&qb={%22q)

[%22:%22george%20william%20jonahunnatha%22}](https://ashpublications.org/search-results?q=george%20william%20jonahunnatha&fl_SiteID=1&page=1&qb={%22q)

4. [https://library.ehaweb.org/eha/2021/eha2021-virtual-  
congress/325364/alice.ramassone.cfos.mir-  
181a.circuitry.is.involved.in.bcr.signalling.and.html?f=listing%3D3%2Abrowseby](https://library.ehaweb.org/eha/2021/eha2021-virtual-congress/325364/alice.ramassone.cfos.mir-181a.circuitry.is.involved.in.bcr.signalling.and.html?f=listing%3D3%2Abrowseby)

[%3D8%2Asortby%3D2%2Amedia%3D3%2Asearch%3DIbrutinib](https://library.ehaweb.org/eha/2021/eha2021-virtual-congress/325364/alice.ramassone.cfos.mir-181a.circuitry.is.involved.in.bcr.signalling.and.html?f=listing%3D3%2Abrowseby)

### Expertise

Cell and molecular biology techniques: Cell culture, PBMC and B cell separation, DNA & RNA Isolation, Cloning, Transfections, Cell proliferation assays, PCR, Electroporation, Viral transduction, Real timePCR, qRT-PCR, Dual Luciferase Assay, Western blot, siRNA knockdown & CRISPR Cas9 system, Site Directed Mutagenesis, EMSA, Matri-gel invasion & cell migration assay, Chip and Tissue ChIP, Chorioallantoic membrane Assay (CAM), Micro-dissection, Immunohistochemistry (Giemsa, Benzidine, miR-Insitu-hybridization) and confocal LSM 800 microscopy, FACS, Comet Assay, Piperidine Assay and ELISA. NGS Techniques: Sanger Sequence, Pyro-sequence, RNA sequence-Hiseq, Amplicon sequence-MiSeq, Hi-Plex- (Beginner). Computational and bioinformatics skills: Sequence retrieval, sequence alignment, Deletion constructs, and Primer designing, GEO datasets analysis, Gene Set Enrichment Analysis (GSEA), Epi-genomic databases, miR-databases, UCSC, Transfac, Site-directed mutagenesis tools, ENCODE, Mutational variation databases, ENDNOTE, Proficient in Word Processing and Comfortable in both Windows and Linux environment. Animal Handling-Maintenance, breeding and experiences on invivo experiments setups to study the drugs/Nano-particles in NSG colony mice.



Research grants

1. Research grant applied for UdA excellence program 2020 [Italy], Chieti, which is entitled 'The role of RNF34 gene in pathogenesis and drug resistance in CLL'.
2. Research grant applied for SERB, [India], which is entitled 'Development of an inexpensive blood-based method for early and quick diagnosis of Myelodysplastic Syndromes (MDS)'

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.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN thisform.

Place and date: \_Chieti ,30/10/2023