



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of one type B fellowships at Dipartimento di Fisica, Scientist- in - charge **Prof. Nicola Manini**

[Name and surname]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Ramachandran
Name	Vijayan
Date of birth	[27, 10, 1982]

PRESENT OCCUPATION

Appointment	Structure
Postdoctoral fellow	School of Life Sciences, Jawaharlal Nehru University

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	BSc	Periyar University	2003
Specialization	Biochemistry		
PhD	Bioinformatics- Marine Science	Bharathidasan University	2017
Master	Bioinformatics	Bharathiyar University	2005
Degree of medical specialization			
Degree of European specialization			
Other	Marine Science	Bharathidasan University	2015

REGISTRATION IN PROFESSIONAL ASSOCIATIONS



Date registration	of Association	City
	Member in International Association of Engineers (IAENG) Society of Bioinformatics	Hong Kong
	Member in European Federation of Biology	UK

FOREIGN LANGUAGES

Languages	level of knowledge
English	Excellent
German	Beginner

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2005-2007	Junior Research Fellow, JNU, India
2007-2008	Research Fellow DFG, Germany
2009-2012	Research Fellow, DFG, Germany
2016-2019	Postdoctoral fellow, JNU, India

TRAINING OR RESEARCH ACTIVITY

Development of inhibitors from Cysteine biosynthetic pathway targets against *E. histolytica* using high throughput screening and Molecular Dynamic Simulations.

PROJECT ACTIVITY

Year	Project
2016	Structural basis of an essential interaction between DnaG and DnaB in <i>Mycobacterial tuberculosis</i> .
2017	Crystal structure of UDP-N-acetylenolpyruvylglucosamine reductase (MurB) from <i>Mycobacterium tuberculosis</i>
2018	Genetic Manipulation of <i>Leishmania donovani</i> Threonyl tRNA Synthetase Facilitates its Exploration as a Potential Therapeutic Target
2019	Structural insights into the substrate binding mechanism of novel ArgA from <i>Mycobacterium tuberculosis</i> .

PATENTS

Patent
NIL



NIL

CONGRESSES AND SEMINARS

Date	Title	Place
20/6/2010	Presented poster, Targeting Mip proteins for the development of new antibacterials at Summer School on Chemo-informatics	Strausbourg, Grance
24/09/2009	Presented poster, Structural systems biology on Legionella” at the 1st International Conference on Systems Biology,	Hamburg, Germany
9-12 December, 2018	Presented poster, Structure-based development of anti-protozoan inhibitors against enzymes involved in cysteine biosynthetic pathway of Entamoeba histolytica. 59th Annual conference of Association of Microbiologists India & International Symposium on Hist-Pathogen Interactions	University of Hyderabad, India.

PUBLICATIONS

Books

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

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

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

Articles in reviews

Das U, Singh E, Dharavath S, Tiruttani Subhramanyam UK, Pal RK, **Vijayan R**, Menon S, Kumar S, Gourinath S, Srinivasan A. Structural insights into the substrate binding mechanism of novel ArgA from Mycobacterium tuberculosis. *Int J Biol Macromol.* 2019 Mar 15;125:970-978.

Dhaka P, **Ramachandran Vijayan**, Rehman SAA and S. Gourinath. (2018). Structural insights into the interaction of helicase and primase in Mycobacterium tuberculosis. *Biochem J.* 2018 Oct 12. pii: BCJ20180673.

S. Chandra, **Ramachandran Vijayan**, S. Gourinath and R. Madhubala. (2018). Genetic Manipulation of Leishmania donovani Threonyl tRNA Synthetase Facilitates its Exploration as a Potential Therapeutic Target. *PLOS Neglected Tropical Diseases.* <https://doi.org/10.1371/journal.pntd.0006575>

Farheen Waziri, **Ramachandran Vijayan**, Tahreem Sahar, Shadab Anwar, Samudrala Gourinath, Swatantra Kumar Jain, Saima Wajid (2018). *In silico* Elucidation of novel anticancer lead molecules Targeting Human Prostate Specific Gene-1 Protein. *Journal of Biomolecular Structure & Dynamics* – Accepted on 8th May 2018.



G. Mahendran and **Ramachandran Vijayan**. Neuropharmacological and molecular docking studies of xanthenes from *Swertia corymbosa*. (2018). *Journal of Receptors and Signal Transduction*. 38, 166-177. doi:10.1080/10799893.2018.1458875.

G Rajivgandhi, **Ramachandran Vijayan**, M Maruthupandy and Natesan Manoharan. (2018). Antibiofilm effect of *Nocardiosis* sp. GRG 1 (KT235640) compound against biofilm forming Gram negative bacteria on UTIs. *Microbial Pathogenesis*. <https://doi.org/10.1016/j.micpath.2018.03.011>.

Kandasamy Eniyan, Sudhaker Dharavath, **Ramachandran Vijayan** Samudrala Gourinath, Urmi Bajpai. (2017). Crystal structure of UDP-N-acetylenolpyruvylglucosamine reductase (MurB) from *Mycobacterium tuberculosis*. *BBA Proteins and Proteomics*. 1866(3):397-406. doi: 10.1016/j.bbapap.2017.

Ramachandran Vijayan. Padmanaban Elavarasi, Ponnusamy Kalaiarasan, Naidu Subbarao, Natesan Manoharan. (2016). “Pharmacophore based Virtual Screening for Identification of Marine Bioactive Compounds as Inhibitors against Macrophage infectivity potentiator (Mip) protein of *Chlamydia trachomatis*”. *RSC Advances*. 6, 18946- 18949.

Congress proceedings

Dhaka P, **Ramachandran Vijayan** and S. Gourinath. (2018). Structural Basis of an Essential Interaction between DnaG and DnaB in *Mycobacterium tuberculosis*. (2018). *Biophysical Journal* 114(3):220a.

[title, structure, place, year]

[title, structure, place, year]

OTHER INFORMATION

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.

Place and date: ____Delhi, 01/09/2019

SIGNATURE



UNIVERSITÀ DEGLI STUDI DI MILANO