TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **ID CODE __6286_____**

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** ONCOLOGIA ED EMATO-ONCOLOGIA _____

Scientist- in – charge: DR. VERNIERI _____

[Name and surname] RAMVEER CHOUDHARY

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	CHOUDHARY
Name	RAMVEER

PRESENT OCCUPATION

Appointment	Structure
Post Doc- Borsista	IFOM ETS - Istituto AIRC di Oncologia Molecolare

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Bachelor of Science	University of Rajasthan	2008
Specialization			
PhD	Medicina dei sistemi-System Medicine (Molecular Oncology)	SEMM Foundation Università Degli Studi Di Milano	2018
Master	Master of Science (In Biology)	Tata Institute of Fundamental Research -NCBS, Deemed University	2012
Degree of medical specialization			
Degree of European specialization			
Other			

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
Hindi	Mother language
English	C1
Italian	A2
Sanskrit	B1

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2014	**Marie Curie fellowship ,** ITN-aDDRess, ESR fellow. 2014-2016 'a**DDR**ess' **ITN-Marie curie fellow ESR#4.** Marie Curie Initial Training Network funded by the European Commission 7th Framework Programme, Grant Agreement no.: 316390
2008	**CSIR-DBT** Junior Research Fellow (JRF) 2008-2012.

TRAINING OR RESEARCH ACTIVITY

description of activity

Research Experience:1 M.Sc. by research (3.5 years) Aug2008 – March 2012

Research Area :*Genetically encodable sensors for TElomeric Repeat containing RNA (TERRA) reveal differential localization in cell cycle.*(Manuscript under revision : A conformation-specific sensor of telomeric repeat-containing RNA. *EMBO Report*. Justin A. Yeoman, Ramveer Choudhary, Clément Nizak, and Yamuna Krishnan)

Aug2008 – March 2012, M.Sc. by research, *Structure and Dynamics of Nucleic Acids,* NCBS-TIFR, Bangalore-560065, India

Research Experience: 2 (16 Months) May 2012 to September 2013

Topic: *Genetic transformation of structural and functional circuitry rewires the Drosophila brain.* May 2012 to September 2013, NCBS-TIFR, Bangalore, India

Supervisor: Prof. K. Vijay Raghavan, Development and Neuroscience, NCBS-TIFR, Bangalore, India

1. Sen S, Cao D, **Choudhary R**, Biagini S, Wang JW, Reichert H, VijayRaghavan K. *Genetic transformation of structural and functional circuitry rewires the Drosophila brain.* ***Elife***. **2014 Dec** 29;3:e04407. doi: 10.7554/eLife.04407. PMID: 25546307; PMCID: PMC4307181.

Research Experience: 3 (2014-2018) PhD training

Research Area : *Control of genomic integrity during replication termination in eukaryotes.*

Supervisor: Prof. Marco Foiani, *Genome Stability Laboratory.* IFOM ETS - The AIRC Institute of Molecular OncologyMilan, Italy.

'aDDRess' ITN-Marie curie fellow ESR#4. aDDRess is a Marie Curie Initial Training Network funded by the European Commission 7th Framework Programme, Grant Agreement no.: 316390

2. - Achar YJ, Adhil M, **Choudhary R**, Gilbert N, Foiani M.
   Negative supercoil at gene boundaries modulates gene topology. ***Nature***. **2020 Jan**;577(7792):701-705. doi: 10.1038/s41586-020-1934-4. Epub 2020 Jan 22. PMID: 31969709.
3. **Choudhary R,** Niska-Blakie J, Adhil M, Liberi G, Achar YJ, Giannattasio M, Foiani M.
   Sen1 and Rrm3 ensure permissive topological conditions for replication termination. **Cell Rep. 2023 Jul** 25;42(7):112747. doi: 10.1016/j.celrep.2023.112747. Epub 2023 Jul 4. PMID: 37405920.

Research Experience: 4 (2018-to present) POST DOC

Supervisor: Prof. Marco Foiani, *Genome Stability Laboratory*. IFOM ETS - The AIRC Institute of Molecular OncologyMilan, Italy.

Research Area: Nuclear and non-nuclear pathways controlling genome integrity and plasticity

And Nucleotide Excision Repair controls RNA polymerase II levels.

PROJECT ACTIVITY

Year	Project
2008-2012	*Genetically encodable sensors for TElomeric Repeat containing RNA (TERRA) reveal differential localization in cell cycle.*
2012-2013	*Genetic transformation of structural and functional circuitry rewires the Drosophila brain*
2014-2018	*Control of genomic integrity during replication termination in eukaryotes.*
2018-onwards	Nuclear and non-nuclear pathways controlling genome integrity and plasticity And Nucleotide Excision Repair controls RNA polymerase II levels.

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
October 9-13, 2023	Cold Spring Harbor Asia conference on Yeast and Life Sciences. *Genomic elements mediating inter and intra chromosomal interactions*. Matsue, Japan, October 9-13, 2023. https://www.csh-asia.org/?content/1352	Japan
September 03–07, 2023	EMBO Workshop, DNA topology and topoisomerases in genome dynamics. *Sen1 and Rrm3 ensure permissive topological conditions for replication termination*. 03 – 07 September 2023, Villars-sur-Ollon, Switzerland. https://meetings.ls2.ch/dna-topology-and-topoisomerases-in-genome-dynamics and www.ls2.ch.	Switzerland
May9-11, 2023	4DGenomics2023: Investigating, modelling and understanding the genome in space and time. *Genomic elements mediating inter and intra chromosomal interactions*. May 9-11, 2023, IFOM-ETS, Milan – Italy. https://www.ifom.eu/events/4DGenomics2023/	Italy
December, 14-18, 2022	CHROMOSOME STABILITY MEETING – 2022, 14-18 December 2022 at liSER, Thiruvananthapuram. https://conference.iisertvm.ac.in/chromosome-stability-2022/	India
October,10-13, 2022	Hybrid EMBO Workshop: The DNA damage response, immunity and aging from 10 – 13 October 2022 in Singapore. https://meetings.embo.org/event/20-dna-damage	Singapore
September 20–23, 2021	EMBO Workshop DNA Topology in genomic transactions, 20–23 September 2021, Virtual. https://meetings.embo.org/event/21-dna-topology	Virtual
June 1-6, 2022	86th Cold Spring Harbor Laboratory Symposium on Quantitative Biology Genome Stability & Integrity. *The RNA-DNA helicases Sen1^{SETX} and Rrm3^{PIF1} mediate replication termination.* June 1 - 6, 2022. Cold Spring Harbor Laboratory, USA. https://meetings.cshl.edu/meetings.aspx?meet=symp&year=22	USA
June 21-24, 2021	Cold Spring Harbor Asia conference on Yeast and Life Sciences.*The RNA-DNA helicases Sen1^{SETX} and Rrm3^{PIF1} mediate replication termination.* Yeast and Life Sciences, Suzhou, China, June 21-24, 2021. https://www.csh-asia.org/?content/359	China
Mar 9 – 12, 2021	EMBO | EMBL Symposium Friend or Foe: Transcription and RNA Meet DNA Replication and Repair. 9 - 12 Mar 2021, https://www.embl.org/about/info/course-and-conference-office/events/ees21-02/	Virtual
May 20-22, 2018	Mechanisms of Recombination 2018 May 20-22, 2018 The Francis Crick Institute, London, UK. https://www.abcam.com/Recombination2016	UK
May 19-23, 2014	Mechanisms of Recombination: 50th Anniversary Meeting of the Holliday Model. May 19-23, 2014 Alicante, Spain. http://www.abcam.com/index.html?pageconfig=resource&rid=15932	Spain

September 21 - 23, 2014	Ernst Klenk Symposium in Molecular Medicine. DNA Damage Response and Repair Mechanisms in Aging and Disease. Sept. 21 - 23, 2014. Medical Faculty, University of Cologne.	Germany

PUBLICATIONS

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

Articles in reviews
Choudhary R, Niska-Blakie J, Adhil M, Liberi G, Achar YJ, Giannattasio M, Foiani M. *Sen1 and Rrm3 ensure permissive topological conditions for replication termination.* **Cell Rep. 2023 Jul** 25;42(7):112747. doi: 10.1016/j.celrep.2023.112747. Epub 2023 Jul 4. PMID: 37405920.
Kolinjivadi AM, Chong ST, **Choudhary R**, Sankar H, Chew EL, Yeo C, Chan SH, Ngeow J. *Functional analysis of germline RAD51C missense variants highlight the role of RAD51C in replication fork protection.* ***Hum Mol Genet.*** **2022 Dec** 23:ddac281. doi: 10.1093/hmg/ddac281. Epub ahead of print. PMID: 36562461.
Muñoz JC, Beckerman I, **Choudhary R**, Bouvier LA, Muñoz MJ. *DNA Damage-Induced RNAPII Degradation and Its Consequences in Gene Expression.* ***Genes (Basel)***. **2022 Oct 26**;13(11):1951. doi: 10.3390/genes13111951. PMID: 36360188; PMCID: PMC9689695.
Purushothaman D, Bianchi LF, Penkov D, Poli A, Li Q, Vermezovic J, Pramotton FM, **Choudhary R**, Pennacchio FA, Sommariva E, Foiani M, Gauthier N, Maiuri P, Blasi F. *The transcription factor PREP1(PKNOX1) regulates nuclear stiffness, the expression of LINC complex proteins and mechanotransduction.* ***Commun Biol.*** **2022 May** 12;5(1):456. doi: 10.1038/s42003-022-03406-9. PMID: 35550602; PMCID: PMC9098460.
Ajazi A, **Choudhary R**, Tronci L, Bachi A, Bruhn C. *CTP sensing and Mec1ATR-Rad53CHK1/CHK2 mediate a two-layered response to inhibition of glutamine metabolism.* ***PLoS Genet.*** **2022 Mar** 3;18(3):e1010101. doi: 10.1371/journal.pgen.1010101. PMID: 35239666; PMCID: PMC8923462.
Kolinjivadi AM, Sankar H, **Choudhary R**, Tay LS, Tan TZ, Murata-Kamiya N, Voon DC, Kappei D, Hatakeyama M, Krishnan V, Ito Y. *The H. pylori CagA Oncoprotein Induces DNA Double Strand Breaks through Fanconi Anemia Pathway Downregulation and Replication Fork Collapse.* ***Int J Mol Sci.*** **2022 Jan** 31;23(3):1661. doi: 10.3390/ijms23031661. PMID: 35163588; PMCID: PMC8836099.

Zardoni L, Nardini E, Brambati A, Lucca C, **Choudhary R**, Loperfido F, Sabbioneda S, Liberi G. *Elongating RNA polymerase II and RNA:DNA hybrids hinder fork progression and gene expression at sites of head-on replication-transcription collisions.* ***Nucleic Acids Res.*** **2021 Dec** 16;49(22):12769-12784. doi: 10.1093/nar/gkab1146. PMID: 34878142; PMCID: PMC8682787.
Bruhn C, Ajazi A, Ferrari E, Lanz MC, Batrin R, **Choudhary R**, Walvekar A, Laxman S, Longhese MP, Fabre E, Smolka MB, Foiani M. *The Rad53$^{CHK1/CHK2}$-Spt21^{NPAT} and Tel1^{ATM} axes couple glucose tolerance to histone dosage and subtelomeric silencing*. ***Nat Commun***. **2020 Aug** 19;11(1):4154. doi: 10.1038/s41467-020-17961-4. PMID: 32814778; PMCID: PMC7438486.
Achar YJ, Adhil M, **Choudhary R**, Gilbert N, Foiani M. *Negative supercoil at gene boundaries modulates gene topology*. ***Nature***. **2020 Jan**;577(7792):701-705. doi: 10.1038/s41586-020-1934-4. Epub 2020 Jan 22. PMID: 31969709.
Sen S, Cao D, **Choudhary R**, Biagini S, Wang JW, Reichert H, VijayRaghavan K. *Genetic transformation of structural and functional circuitry rewires the Drosophila brain*. ***Elife***. **2014 Dec** 29;3:e04407. doi: 10.7554/eLife.04407. PMID: 25546307; PMCID: PMC4307181.

Congress proceedings
Cold Spring Harbor Asia conference on Yeast and Life Sciences. *Genomic elements mediating inter and intra chromosomal interactions*. Matsue, Japan, October 9-13, 2023. https://www.csh-asia.org/?content/1352
EMBO Workshop, DNA topology and topoisomerases in genome dynamics. *Sen1 and Rrm3 ensure permissive topological conditions for replication termination*. 03 – 07 September 2023, Villars-sur-Ollon, Switzerland. https://meetings.ls2.ch/dna-topology-and-topoisomerases-in-genome-dynamics and www.ls2.ch.
4DGenomics2023: Investigating, modelling and understanding the genome in space and time. *Genomic elements mediating inter and intra chromosomal interactions*. May 9-11, 2023, IFOM-ETS, Milan – Italy. https://www.ifom.eu/events/4DGenomics2023/
86th Cold Spring Harbor Laboratory Symposium on Quantitative Biology Genome Stability & Integrity. *The RNA-DNA helicases Sen1^{SETX} and Rrm3^{PIF1} mediate replication termination.* June 1 - 6, 2022. Cold Spring Harbor Laboratory, USA. https://meetings.cshl.edu/meetings.aspx?meet=symp&year=22
Cold Spring Harbor Asia conference on Yeast and Life Sciences.*The RNA-DNA helicases Sen1^{SETX} and Rrm3^{PIF1} mediate replication termination.* Yeast and Life Sciences, Suzhou, China, June 21-24, 2021. https://www.csh-asia.org/?content/359

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.

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Place and date: _____Milano__, _____23/01/2024_____

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