Criterion-3: Research Innovations and Extension

Key Indicator – 3.4: Research Publications and Awards

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- Total Page: 210
- Researcher: ALKA
- Supervisor: Dr. Uma Chaudhry and Prof. Daman Saluja
- Department: Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
- Institution: University of Delhi

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- Title of the Thesis: **"Role of NF-κB and Interacting Cytokines during Prostate Cancer Induced Osteoclastogenesis"**
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- Researcher: **Mohit Jadli**
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- Title of the Thesis: To Investigate the role of miRNAs in the Pathogenesis of Coronary artery disease Total Page: 135
- Researcher: Dinesh Kumar
- Supervisor: Prof. Daman Saluja
- Department: Dr. B.R. Ambedkar Centre for Biomedical Research
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Plagiarism Verification

- Title of the Thesis: To Investigate the role of miRNAs in the Pathogenesis of Coronary artery disease Total Page: 135
- Researcher: Dinesh Kumar
- Supervisor: Prof. Daman Saluja
- Department: Dr. B.R. Ambedkar Centre for Biomedical Research
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Date 09.02.2021

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Ref. SDC / Genetics /

Date: 3/1/2020

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- Title of the Thesis: Development and clinical validation of in vitro NAAT based assays for diagnosis of infectious diseases. Total Page: 155
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Date: 13-04-2022

CERTIFICATE

The research work embodied in the Doctor of Philosophy thesis entitled **"A Comparative Study of miRNA and 21-Nucleotide Reproductive Phased siRNA between Developmental Stages of Female Gametophyte in Sexual and Apomictic Addition Lines of Pearl Millet [*Cenchrus americanus* (L.) Morrone syn. *Pennisetum glaucum* (L.) R. Br.]"** has been carried out in the Department of Botany, University of Delhi, Delhi-110007. As per the regulations of the University, it is hereby certified that the work is original and has not been submitted earlier, either in part or full, for any other degree or diploma to this or any other University

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The research work embodied in the Doctor of Philosophy thesis entitled **"An analysis of genetic diversity, niche modelling and transcriptome of endosperm developmental stages in genus *Nymphaea*: an important water lily from ANA grade with diploid endosperm"** has been carried out in the Department of Botany, University of Delhi, Delhi-110007. As per the regulations of the University, it is hereby certified that the work is original and has not been submitted earlier, either in part or full, for any other degree or diploma to this or any other University

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May 26, 2014
New Delhi

Bharat Joshi
Bharat Joshi
(Candidate)

Arun Jagannath
Dr. Arun Jagannath
(Supervisor)

Prof. S. C. Bhatla
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Date: 28.05.2014

Heisnam Dinesh Singh
(Candidate)

Shailendra Goel

Dr. Shailendra Goel
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DECLARATION

This is to certify that the work embodied in this thesis **"Isolation of sex-linked DNA markers and their validation on populations of *Hippophae rhamnoides* ssp. *turkestanica* representing geographically isolated three valleys of Ladakh region"** is original and has not been submitted for any other degree or diploma of this or any other University. This is further certified that the candidate Kamal Das has successfully completed Ph.D. Course work as per UGC regulation 2009 and Ordinance VI-B (2015) of the University of Delhi.

Dated: 20/10/2016

Kamal Das
Candidate

Shailendra Goel.

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The research work embodied in the Doctor of Philosophy thesis entitled **"Assessment of genetic and phenotypic diversity in the oilseed crop, Safflower (*Carthamus tinctorius* L.), development of core collections and genetic resources for linkage mapping"** has been carried out in the Department of Botany, University of Delhi, Delhi - 110007. As per the regulations of the University, it is hereby certified that the work is original and has not been submitted earlier, either in part or full, for any other degree or diploma to this or any other University.

Dated: 28/10/2016

Shivendra Kumar

Shivendra Kumar
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Arun Jagannath

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The research work embodied in the Doctor of Philosophy thesis entitled **"A survey of repeat components of *Carthamus tinctorius* L. genome, development of molecular markers and their utilization for assessment of core collection, association mapping and phylogenetic analysis"** has been carried out in the Department of Botany, University of Delhi, Delhi- 110007. As per the regulations of the University, it is hereby certified that the work is original and has not been submitted earlier, either in part or full, for any other degree or diploma to this or any other University.

Dated: 03.02.2017

Heena Ambreen
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- Title of the Thesis: Investigation of Molecular Mechanism(s) of STAT3-Mediated Regulation of HPV Infection and cervical carcinogenesis Total Page: 85 pages
- Researcher: KULBHUSHAN THAKUR
- Supervisor: PROF. ALOK CHANDRA BHARTI
- Department: ZOOLOGY
- Institution: UNIVERSITY OF DELHI

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Investigation of Molecular Mechanism(s) of STAT3-Mediated Regulation of HPV Infection and Cervical Carcinogenesis THESIS SUBMITTED TO THE UNIVERSITY OF DELHI FOR THE AWARD OF THE DEGREE OF DOCTOR OF PHILOSOPHY Submitted by KULBHUSHAN THAKUR Under the Supervision of PROF. ALOK CHANDRA BHARTI MOLECULAR ONCOLOGY LABORATORY DEPARTMENT OF ZOOLOGY UNIVERSITY OF DELHI DELHI-110007 INDIA NOVEMBER, 2022

Introduction Cervical cancer (CaCx) is one of the most common gynecological malignancies in underdeveloped regions of the world, particularly in areas where women are still deprived of universal HPV vaccination and pre-cancer screening (WHO, 2020). India alone contributes to about 18.8% of the global CaCx burden (WHO, 2020). The important risk factor for CaCx is persistent infection of human papillomavirus (HPV) which accounts for over 99% cases of CaCx (Walboomers et al., 1999). Constitutive expression of viral oncoproteins E6 or E7 plays a key carcinogenic role. These oncoproteins are responsible to maintain the proliferative state (Scarth et al., 2021). Expression of E6/E7 is tightly controlled by a set of transcription factors derived from the infected host cell (Gloss and Bernard, 1990, Thierry, 2009). Long Control Region (LCR) – the interface between the host and the virus, controls orchestrated expression of viral genes with host cell proliferation and differentiation events and link with inflammation (Mark O'Connor, 1995, Soto et al., 1999, zur Hausen, 2000). Chronic inflammation plays a pivotal role in development of early precursor lesions and subsequent tumor progression during cervical carcinogenesis (Castle and Giuliano, 2003, Mazibrada et al., 2008, Schroer et al., 2011, Williams et al., 2011). Therefore, transcription factors that work as 'cellular switches', particularly those involved in inflammation and carcinogenesis are likely to be the most relevant and potential therapeutic targets. Signal Transducer and Activator of Transcription 3 (STAT3) is a transcription factor that mediates signals downstream of cytokine and growth factor receptors. STAT3 regulates expression of various genes related to inflammatory response and oncogenesis (Levy and Darnell, 2002, Kim et al., 2007, Iliopoulos et al., 2010). STAT3 signaling involves role of several pro-inflammatory agents during cervical carcinogenesis. IL-6, oncostatin M (OSM) and IFNγ are major mediators of inflammation and execute their pro-inflammatory effects through activation of the STAT3 signaling pathway (Zhong et al., 1994). IL-6 promotes cervical tumorigenesis (Hao et al., 2020) by activating VEGF-mediated angiogenesis (Wei et al., 2003) as well as proliferation (Zhou et al., 2020) via STAT3 pathway. IL-6 has been reported to play an important role via STAT3 in the EMT induction in CaCx (Miao et al., 2014). Studies on both cervical carcinoma cell lines and primary cervical tumor tissues showed over-expression and aberrant activity of STAT3 (Page et al., 2000, Arany et al., 2002, Chen et al., 2007, Takemoto et al., 2009), indicating its pivotal role in cervical carcinogenesis. Our earlier reports indicated that the aberrant expression and constitutive activation of STAT3 increased as the CaCx lesion progressed (Shukla et al., 2010). Suppression of STAT3 expression or activation was associated with corresponding alteration of HPV16 E6

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TARGETING NEOANGIOGENESIS IN GLIOBLASTOMA Thesis Submitted to the University of Delhi for the Award of the Degree of DOCTOR OF PHILOSOPHY Submitted by ANNA SENRUNG Under the Supervision of PROF. ALOK CHANDRA BHARTI MOLECULAR ONCOLOGY LABORATORY DEPARTMENT OF ZOOLOGY UNIVERSITY OF DELHI DELHI-110007 INDIA JUNE, 2023

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- Title of the Thesis: Targeting Neoangiogenesis in Glioblastoma
  Total Page: 199
- Researcher: Anna Senrung
- Supervisor: Prof. Alok Chandra Bharti
- Department: Zoology
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