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DIVERSITY OF SOIL AND LEAF SURFACE MYCOFLORA: A SOURCE OF AEROMYCOFLORA

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Microorganisms are introduced into the air from various sources. The important sources of these microorganisms are soil and vegetation of that area. Microorganisms, which are found on plants' surface either as pathogens or as saprophytes, also get suspended in the air. Man-made actions like digging or ploughing the soil may also release soil-borne microbes into the air. The surrounding atmosphere plays an important role as the sources of organisms in the experimental area. The studies were carried out from February 2006 to March 2007. In the present study, aeromycoflora, mycoflora were observed from soil and plant near the experimental sites as their sources. The Potato Dextrose Agar medium containing plates were used for the isolation of mycoflora from their sources around the Panabaras of Rajnandgaon district. During the present study, a total of 22 fungal species of 120 fungal colonies belonging to 14 genera were reported from the soil. While 24 fungal species of 166 fungal colonies belonging to 16 genera were isolated from the leaf surface. *Aspergillus fumigatus* (10.00%) showed the maximum percentage contribution, followed by *Fusarium oxysporium* and *Khuskia oryzae* (8.33%), *Aspergillus japonicus* and *Paecilomyces variotii* (7.5%) and *Alternaria radicina*, *Penicillium notatum* (5.83%) in the soil mycoflora. It is also shown that *Cladosporium cladosporioides* (11.44%) followed by *Aspergillus niger* (9.63%), *A. fumigatus* (6.62%), *Monodictys fluctuata* (6.02%), *Curvularia lunata* (5.42%) and *Aspergillus fumigatus* (4.81%) were the most contributed to leaf surface mycoflora.

Key Words: Fungal diversity, aeromycoflora, sources, soil, leaf surface.

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INTRODUCTION

Fungi are very successful inhabitants of soil due to their high plasticity and their capacity to adopt various forms in response to adverse or unfavorable conditions¹. The diversity and activity of fungi are regulated by multiple biotic (plants and other organisms) and abiotic (soil pH, moisture, salinity, structure, and temperature) factors^{2,3}. Fungi can be found in almost every environment and can live in a wide range of pH and temperature⁴. Fungal populations are strongly influenced by the diversity and composition of the plant community and in return, affect plant growth through mutualism, pathogenicity, and their effect on nutrient availability and cycling⁵⁻⁷. The contribution of soil organisms is very significant in many soil functions such as supporting the growth of plants, absorbing, neutralizing and transforming com-

pounds that might otherwise become pollutants in the environment. Soil is a complex habitat for microbial growth and these microbes generally exist as micro-colonies or biofilms on mineral particles, organic matter, and roots. Currently, microorganisms are exploited to get valuable products that include enzymes, secondary metabolites, therapeutic agents and industrial products. Such potential microorganisms are usually isolated from the soil sample. Among such microbes, filamentous fungi dominate our globe as sources of food, plant and animal pathogens, and other worthy products' biosynthesis.

The phylloplane, the surface of plant leaves, is a complex terrestrial habitat, characterized by a variety of microorganisms, including bacteria, filamentous fungi and yeast. Pathogens, saprobes and epiphytes occur in



Amelioration of Ageing Associated Alterations and Oxidative Inequity in Seeds of *Cicer arietinum* by Silver Nanoparticles

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Abstract

Metal-based nanoparticles (NPs) have recently been accomplished a great attention worldwide, in various sectors including agriculture due to their beneficial impacts in plant growth, development and stress tolerance. However, it shows dose-dependent response and may vary with type of metal and synthesis procedure followed. Among many, silver nanoparticles (AgNPs) are most frequently used NP in agricultural sector. In the present study, AgNPs were synthesized following both green (gAgNP) and chemical (cAgNP) synthesis processes, characterized by standard methods and were applied to artificially aged *Cicer arietinum* seeds. Initial characterization of synthesized NPs was done by UV–Visible spectroscopy, and concentrations were calculated as 2.7 nmol for gAgNP, while, 5.8 nmol for cAgNP. Furthermore, the presence of different functional groups in synthesized AgNPs was evaluated by fourier transform infrared spectroscopy (1000 and 4000 cm^{-1}). However, the particle size of synthesized AgNPs was estimated by dynamic light scattering/ zetasizer (90–120 nm) and transmission electron microscopy (15–60 nm). Synthesized NPs were then assessed for their ameliorative efficiencies against accelerated ageing-induced injuries in *Cicer arietinum* seeds. Experimental results revealed various physiological and biochemical alterations due to accelerated ageing in seeds of *Cicer arietinum* including the over accumulation of reactive oxygen species and consequent decline in the expressions/ activities of key defensive genes. However, exogenous application of AgNPs provided tolerance against ageing-induced damages by compensating the cellular redox homeostasis via up-regulating the levels/ gene expression of antioxidants in *Cicer arietinum*.

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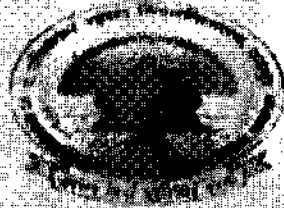
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School of Study in Electronics and Photonics P. Ravishankar Shukla University,
Raipur (C.G.)

In partial fulfillment for the award of the degree of

MASTER OF TECHNOLOGY

In

Optoelectronics and Laser Technology

Submitted By

Bhaskar

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INTERNAL EXAMINER

29

A Dissertation on
"Design and simulation of Nitride based blue LED"
Submitted to



School of Study in Electronics and Photonics
Pt. Ravishankar Shukla University, Raipur (C.G.)
In partial fulfilment for the award of the degree of

MASTER OF TECHNOLOGY

in

Optoelectronics and Laser Technology

Submitted By
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Work carried out at



Central Electronics Engineering Research Institute,

Rajasthan January 2021 - July 2021

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CERTIFICATE

Session 2020-21

This is to certify that work contained in interim dissertation entitled, "Design and simulation of Nitride based blue LED" is carried out by **Thaneshwari Sahu** at **Central Electronics Engineering Research Institute Pilani(Rajasthan)** during the period of July 2020 to July 2021, for the requirement of partial fulfillment for the award of degree of Master of Technology in Optoelectronics and Laser Technology, Pt. Ravishankar Shukla University, Raipur (C.G.).

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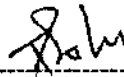
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Signature of supervisor.
Dr. Manish Mathew
,Principal scientist
CSIR-CEERI, Rajasthan

DECLARATION

I declare that this written submission entitled "**Design and simulation of Nitride based LED**" for the award of Master of Technology in Optoelectronics & Laser Technology of **Pt. Ravishankar Shukla University, Raipur Chhattisgarh**, represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.



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Advances in Biomedical Engineering and Technology pp 413-424 | Citations

Comparative Investigation of Different Classification Techniques for Epilepsy Detection Using EEG Signals

Authors Authors and affiliations

Sunandan Mandat, Manvendra Thakur, Kavita Thakur, Bikesh Kumar Singh

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Abstract

Among the major brain abnormalities that have been identified, various remedial strategies are proposed to tackle most of such conditions. One of the serious abnormalities of the nervous system is epilepsy, which causes electrical distraction and strains the neural system. Usually, epilepsy is determined by the neurologist by analyzing the EEG signals grabbed from the brain. The task is very challenging as it requires continuous examination and connotation of the EEG signal of an epileptic patient. Hence, the development of efficient automatic systems is

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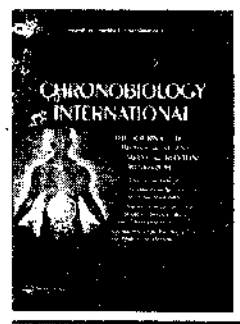
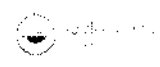
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Sexual dimorphism in ultradian and 24h rhythms in plasma levels of growth hormone in Indian walking catfish, *Clarias batrachus*

Raj Naresh Gopal, Dhanananajay Kumar, Vinay Kumar Singh, Atanu Kumar Pati & Bechan Lal

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The most urgent next step is for all data collection labs to obtain ethics approval. Please start this process as soon as possible. Ethics approval has created the longest hold ups in the past for similar projects (such as Many Labs) so we have set the deadline for each lab's submission as 2 weeks from receiving this email. We have attached the final study proposal here if that helps you get started.

Please update your ethics approval status in this spreadsheet when you have submitted your materials, and again when you have received approval.

The lead authors for this project, Lisa de Bruine and Ben Jones (University of Glasgow), and the PSA Director, Chris Chartier (Ashland University), have submitted their materials for IRB approval, and we will share them when they are approved in the case that their materials may help you prepare yours or that their approval may expedite your own review process.

We anticipate that between 50 and 100 labs will collect data for this project. The included labs were selected based on their data collection capacity as well as geographic location, to allow for an adequate distribution over world regions. We look forward to sharing this exciting journey with you!

All the best,



Dr. Christopher R. Chartier
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Arti Parganiha <arti.parganiha@gmail.com>
To: babita pande <babitatime14@gmail.com>

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Circadian rhythmicity of heart rate variability and its impact on cardiac autonomic modulation in asthma

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ABSTRACT

The commonly observed nocturnal attack of asthma is accompanied by circadian variations in airway inflammation and other physiological variables. It is also documented to present with a significantly higher risk of adverse cardiovascular events that are associated with lower heart rate variability (HRV) and depressed sympathetic and enhanced parasympathetic modulations. However, available literature is scarce with regard to the impact of alteration in circadian rhythmicity of long-term HRV and its day–night variation in asthmatic patients. Thus, 72-h continuous recording of RR interval and oxygen saturation was done to study the circadian variability of HRV (in terms of time and frequency domain indices) and also to assess the pattern of alterations in sympathetic and parasympathetic tones at different times of the day in asthmatic patients ($n = 32$) and healthy control subjects ($n = 31$). Repeated-measure analysis of variance and independent-samples *t*-test revealed significantly increased parasympathetic tone [in terms of increased square root of the mean squared differences of successive NN intervals (RMSSD), percentage of number of pairs of adjacent RR interval differing by more than 50 ms (pNN50), standard deviation of NN intervals (SDNN), and high frequency (HF)] with reduced sympathetic activity [decreased low frequency (LF) and LF/HF ratio] at early morning hours (between 04:00 and 10:00 h) in the asthma patients in contrast to the healthy subjects who had opposite response. Also, significant phase delay ($p < 0.05$) of all the HRV indices and SpO₂, was evident by cosinor analysis. Therefore, disturbed circadian rhythm of HRV indices and early morning increased parasympathetic tone points toward the possible pathophysiological basis of exacerbated asthmatic symptoms at late night/early morning hours and susceptibility of future cardiovascular pathologies. This also necessitates the assessment of HRV rhythm while dealing with the therapeutic management of asthma patients.

ARTICLE HISTORY

Received 25 June 2020
Revised 3 December 2020
Accepted 31 May 2021

KEYWORDS

HRV; HRV circadian rhythm; circadian rhythm in asthma; oxygen saturation rhythm

Introduction

Asthma, a chronic lung disease due to inflammation and narrowing of the airways, frequently presents with worsening of symptoms overnight, particularly in the early hours of the morning. In fact, nocturnal symptoms in asthma are the most frequent reason and essential indicator of the escalation of treatment. Circadian variations in airflow limitation and airways hyper-responsiveness accompanied by the nocturnal symptoms of cough and dyspnea have been documented as the pathophysiological basis for the same (Sutherland 2005).

On the other hand, a significantly higher risk of cardiovascular events, including myocardial infarction, cardiac arrest, angina, and stroke, has been seen in persistent asthma (Tattersall et al. 2015). In this context, heart rate variability (HRV) has emerged as a noninvasive validated tool for the evaluation of cardiac autonomic function

Poor asthma control has been found to be associated with lower HRV, depressed sympathetic, and enhanced parasympathetic modulations with longer asthma duration, whereas an opposite HRV response is found in controlled asthmatics (Lutfi 2015). Children with stable chronic asthma have been documented recently to present with enhanced parasympathetic modulation and cardiac autonomic imbalance (Franco et al. 2020). But the impact of altered circadian rhythm of HRV in the disease process is still largely unclear. The well-known circadian rhythmicity of various HRV indices in healthy individuals shows increased HRV during the night with predominance of vagal activity and a nighttime peak during the second half of the night (Sammito et al. 2016). A maximal shift toward sympathetic autonomic activation during sleep-to-wake transitions takes place, which has been linked to the observed increase in cardiovascular

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Circadian clock modulating small molecules repurposing as inhibitors of SARS-CoV-2 M^{pro} for pharmacological interventions in COVID-19 pandemic

Armiya Sultan^{a,b,c}, Rafat Ali^{a,b}, Tahira Sultan^a, Sher Ali^a, Nida Jamil Khan^a, and Arti Parganilha^{d,e}

^aFunctional Genomics Laboratory, Center for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia (A Central University), New Delhi, India; ^bDepartment of Biosciences, Jamia Millia Islamia (A Central University), New Delhi, India; ^cChronobiology and Animal Behaviour Laboratory, School of Studies in Life Sciences, Pt. Ravishankar Shukla University, Raipur, India; ^dDepartment of Biochemistry, University of Kashmir, Srinagar, India; ^eDepartment of Life Sciences, Sharda University, Greater Noida, India

ABSTRACT

The COVID-19 pandemic caused by SARS-CoV-2 is a global health emergency warranting the development of targeted treatment. The main protease M^{pro} is considered as a key drug target in coronavirus infections because of its vital role in the proteolytic processing of two essential polyproteins required for the replication and transcription of viral RNA. Targeting and inhibiting the M^{pro} activity represents a valid approach to prevent the SARS-CoV-2 replication and spread. Based on the structure-assisted drug designing, here we report a circadian clock-modulating small molecule "SRT2183" as a potent inhibitor of M^{pro} to block the replication of SARS-CoV-2. The findings are expected to pave the way for the development of therapeutics for COVID-19.

ARTICLE HISTORY

Received 13 July 2020
Revised 5 March 2021
Accepted 9 March 2021

KEYWORDS

Circadian clock-modulating molecules; COVID-19; inhibitors; main protease; pandemic; SARS-CoV-2 M^{pro}; SRT2183; targeted therapy

Introduction

Outbreaks of deadly contagious diseases, particularly caused by viruses, have always been a big threat to the human race. During the last five decades, herpes, legionnaires, HIV/AIDS, Western African Ebola epidemic, Middle East Respiratory Syndrome (MERS), Severe Acute Respiratory Syndrome (SARS), and now new coronavirus disease 2019 (COVID-19) viruses have attacked human population worldwide. The members of the coronavirus family, alone, have caused two deadly outbreaks, namely MERS caused by MERS coronavirus (MERS-CoV) and SARS caused by SARS coronavirus (SARS-CoV) during the last two decades (Zhong et al. 2020). In December 2019, a new unprecedented viral infection emerged in Wuhan, China. Genomic studies have shown that about 82% genome of this novel virus match the RNA genome of SARS-CoV (Wu et al. 2020a, 2020b; Zhou et al. 2020). The novel virus was named as Severe Acute Respiratory Syndrome coronavirus-2 (SARS-CoV-2) and the contagious infectious disease caused by this new virus was named as coronavirus disease 2019 (COVID-19) (Gorbalenya et al. 2020).

Pathophysiological findings made it evident that SARS-CoV-2 infection is more contagious than both MERS and SARS (Zhang and Holmes 2020). Infection can spread even if an individual is asymptomatic or in presymptomatic conditions. Individuals infected with

SARS-CoV-2 develop mild-to-moderate illness; however, older people and those with chronic medical complications are more likely to develop serious illness (Chen et al. 2020; Li et al. 2020; World Health Organization, clinical management of COVID-19: Interim Guidance 2020).

In December 2019, the COVID-19 pandemic outbreak originated in Wuhan city, Hubei province of China. The first cluster of cases of "pneumonia of unknown cause" was reported in late December 2019 (Wu et al. 2020c). Thereafter, the contagious SARS-CoV-2 infection quickly spread globally. The first laboratory-confirmed novel coronavirus case recorded outside of China was reported on 13th January 2020 by the Ministry of Public Health in Thailand (Yan et al. 2020). The World Health Organization (WHO) declared the infection a pandemic on 11th March 2020 (Zhang et al. 2020). According to WHO reports, confirmed cases of COVID-19 are increasing exponentially worldwide. Globally, as of 04:02h CET, 4 March 2021, there have been 114,853,685 confirmed cases of COVID-19, including 2,554,694 deaths, reported to WHO (<https://covid19.who.int/>). However, these numbers are likely to be higher than reported because of the frequent exclusion of mild or asymptomatic cases.

Currently, no therapeutic options are available for COVID-19. However, an insight gained on the SARS-CoV-2 RNA genome and crystal structures of

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Commemorating the monumental occasion "75 years of India's
Independence: Azadi ka Amrit Mahotsav"

CERTIFICATE OF PARTICIPATION

This is to certify that,

Aditya Tiwari

Has successfully completed **ARIES Training School in Observational
Astronomy (ATSOA) - 2021**, held from 17th-24th May, 2021 in the virtual mode.

Kuntal Misra

Signature

Dr. Kuntal Misra
Co-ordinator ATSOA-2021

Date : 10th June, 2021



Commemorating the monumental occasion "75 years of India's
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CERTIFICATE OF PARTICIPATION

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Has successfully completed *ARIES Training School in Observational
Astronomy (ATSOA) - 2021*, held from 17th-24th May, 2021 in the virtual mode.

Kuntal Misra

Signature

Dr. Kuntal Misra
Co-ordinator ATSOA-2021

Date : 10th June, 2021



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CERTIFICATE OF PARTICIPATION

This is to certify that,

Kiran Sinha

Has successfully completed *ARIES Training School in Observational
Astronomy (ATSOA) - 2021*, held from 17th-24th May, 2021 in the virtual mode.

Kuntal Misra

Signature

Dr. Kuntal Misra
Co-ordinator ATSOA-2021

Date : 10th June, 2021

4



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CERTIFICATE OF PARTICIPATION

This is to certify that,

Reshma

Has successfully completed *ARIES Training School in Observational Astronomy (ATSOA) - 2021*, held from 17th-24th May, 2021 in the virtual mode.

Kuntal Misra

Signature

Dr. Kuntal Misra
Co-ordinator ATSOA-2021

Date : 10th June, 2021

5



Commemorating the monumental occasion "75 years of India's
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CERTIFICATE OF PARTICIPATION

This is to certify that,

Saloni Singh

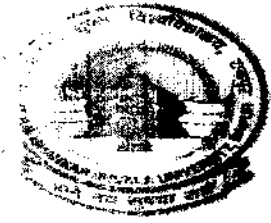
Has successfully completed *ARIES Training School in Observational
Astronomy (ATSOA) - 2021*, held from 17th-24th May, 2021 in the virtual mode.

Kuntal Misra

Signature

Dr. Kuntal Misra
Co-ordinator ATSOA-2021

Date : 10th June, 2021



United Nations
Educational, Scientific and
Cultural Organization



UNESCO Chair in Community Based
Research and Social Responsibility
in Higher Education

Proposal for Research Project

Study of Maternal Health Care: A Community Perspective

A

Research proposal submitted to

Social Sciences and Humanities Research Council
(SSHRC)

Bridging Knowledge Cultures Partnership Development Grant

RESEARCH TEAM

Prof. Reeta Venugopal
Prof. Priyamvada Shrivastava
Ms. Nandita Bhatt
Dr. Anuradha Chakraborty
Aniksha Varoda

Research Centre

SANGWARI CBPR HUB

Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India



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Reeta Venugopal
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Chhattisgarh 492010
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reetavenugopal@yahoo.com

12 May 2021

TRANSFER OF FUNDS AGREEMENT

BETWEEN

**UNIVERSITY OF VICTORIA (UVic)
Office of Research Services**

AND

PT. RAVISHANKAR SHUKLA UNIVERSITY (RECIPIENT INSTITUTION)

Principal Investigator	Dr. Budd Hall
UVic Reference	51288-54250
Funding Agency	Social Sciences and Humanities Research Council
Funding Agency Reference	890-2019-0061
Overall Project Period	22 March 2020 to 21 March 2022
Project	Bridging Knowledge Cultures: The Knowledge for Change Global Consortium on Training of Community-Based Participatory Research

TRANSFER DETAILS:

Investigator	Dr. Reeta Venugopal
Use of Funds Period	1 April 2021 to 21 March 2022
Amount	\$3,000.00 Canadian – two instalments

Principal Investigator is collaborating with Investigator of Recipient Institution on the above named project.
Principal Investigator has requested that funds be forwarded to Recipient Institution for the benefit of the

investigator as stated above. The UVic will transfer funds to the Recipient Institution under the following provisions:

CONDITIONS:

- ❖ The Principal Investigator at the UVic specifies that the funds provided to the Recipient Institution be used towards expenses for the purposes of this project as outlined in the attached Appendix A
- ❖ Funds will be transferred in two instalments: 90% immediately and the balance upon receipt of a financial statement, as noted below.
- ❖ The Recipient Institution will not issue a sub-grant of this award.
- ❖ Any unused funds at the end of the Overall Project Period stated above must be returned to UVic
- ❖ UVic accepts no responsibility or obligations for funds expended in excess of the amount quoted above.
- ❖ If applicable, any equipment purchased from this grant shall be the property of the Recipient Institution.
- ❖ The Recipient Institution agrees that grant funds must contribute towards the direct costs of the research for which the funds were awarded, and the benefits should be directly attributable to the grant. Therefore, Indirect Costs are deemed ineligible by the granting agency and therefore may not be charged against these funds.

GENERAL TERMS AND CONDITIONS:

- ❖ The Recipient Institution must administer the funds for the benefit of each participating grant or award holder, co-investigator and/or collaborators of that Institution in accordance with the Tri-Council Agreement on the Administration of Agency Grants and Awards by Research Institutions, and with any other relevant policies of the Agency, including those at:

http://www.nserc-crsng.gc.ca/Professors-Professeurs/FinancialAdminGuide-GuideAdminFinancier/index_eng.asp

The Recipient Institution will repay any funds which do not fully conform to applicable Tri-Agency regulations, policies and requirements.

- ❖ The Recipient Institution must administer the funds must comply with TCPS 2 – Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (<http://www.pre.ethics.gc.ca/eng/po/so/so-politique/initiatives/tcps2-eptc2/Default/>) and the Tri-Agency Framework: Responsible Conduct of Research (<http://www.rcr.ethics.gc.ca/eng/policy-politique/framework-cadre/>), and may not disburse funds on behalf of the grantee until all specified certificates, such as biohazards, animal care, human ethics, etc., have been met.
- ❖ Intellectual property developed under this project solely by researchers at one institution shall be governed by the applicable intellectual property policies and/or collective agreements of that institution. Intellectual property developed under this project jointly by researchers at different institutions shall be jointly owned by those institutions, and any commercialization of such joint intellectual property shall be in accordance with an agreement to be entered into between the institutions.

FINANCIAL REPORTING:

- ❖ A full accounting of the project signed by the relevant financial officer at the Recipient Institution must be provided on or before 30 April 2022 for the period ending 31 March 2022. Upon receipt of the full statement, the holdback will be sent. The signature of the financial officer must indicate that the funds were administered on behalf of the Recipient Institution according to the *Funding Agency's* regulations. The UVic has the right and responsibility to withhold or withdraw approval of a transfer letter proposed by the Recipient Institution that contravene *Funding Agency's* regulations. Please forward the statement with reference to UVic's Reference number to:

Ms. Helena Filmer, Assistant Manager
Research Accounting
University of Victoria
P.O. Box 3040, Victoria, BC V8W 3N7
hfilmer@uvic.ca

- ❖ The Recipient Institution agrees to maintain the relevant supporting documentation (including a copy of the transfer letter, supportive documentation for all expenditures and EORs) for the duration of the Recipient Institution must be able to provide the UVic with copies of documents that show all transactions involving the funds so that they are readily available for review during any of the audits at the UVic.

If you are in agreement with this arrangement, please have authorized individuals sign this document and return a copy to us email. Upon receipt, Research Accounting will be advised to transfer the letter to the Recipient Institution. Should you have any questions, please do not hesitate to contact me.

Sincerely


Agreed


Debra C. Anderson, Manager
Research Finances


Registrar
P.L.S. UNIVERSITY
HAIPUR (C.G.)
On behalf of Recipient Institution

Request for transfer on file in
UVic, ORS

Principal Investigator, UVic


Investigator at Recipient Institution

c.c. Principal Investigator, UVic
Ms. H. Filmer, Assistant Manager, Research Accounting

Collaborative Research (Study of Maternal Health Care: A Community Perspective)

Subject: SSHRC Bridging Knowledge Cultures Partnership Development Grant

Dear Friends,

We hope that you and your families and friends are doing well. We are moving forward now with the next steps in the Bridging Knowledge Cultures project. Thanks very much for the very good contributions made to the working paper. Please find two attachments. The first is an explanatory letter to each of you outlining the next steps in the project including expectations, timelines and financial matters. The second is our evolving analytic framework which we hope will help us move forward. There is one more practical set of guidelines that we will send you next week with more details about what you can look for in terms of both academic and community knowledge cultures. This is being drawn from the information that you have provided us in the regional working papers.

We have tried to strike a balance between giving you more clarity on what we looking for but want to respect the diversity of each of your hub locations, contexts, partnerships and visions. We want the stories of your hub's exploration of the differences between the ways that knowledge is understood with some of your academic partners and the ways that knowledge as change and agency happens within community, social movement or Indigenous partnerships.

We will schedule a zoom webinar mid-March to check in with everyone, but please reach out to either our Victoria or New Delhi team with questions. Walter Lepore is our Project Director.

Cheers,

Budd and Rajesh

Co-Chairs UNESCO Chair in Community-Based Research and Social Responsibility in Higher Education
Web site: <http://www.unescochair-cbrsr.org>

We acknowledge with respect the traditional territories of the Lekwungen speaking peoples, the Esquimalt, the Songhees and the W̱SÁNEĆ
First Nations on whose land I live and work and whose relationship to the land continues today.

"Hold fast to your dreams, for without them life is a broken winged bird that cannot fly" Langston Hughes



Exploring the Relationship Between Character Strengths and Meditation: a Cross-Sectional Study Among Long-Term Practitioners of Sahaja Yoga Meditation

Tommy Hendriks¹ · Joshua Pritikin² · Rajeev Choudhary³ · Chad Danyluck⁴

Accepted: 12 March 2021 / Published online: 31 March 2021
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Abstract

A growing body of research has associated the practice of meditation with the development of character strengths. Sahaja Yoga (SY) is a spiritual practice designed to help people develop a set of character strengths. The primary goal of the current work is to determine whether practitioners of SY meditation endorse signature strengths. Using the VIA Inventory of Strengths 120, we conducted a survey to measure the character strengths among 310 daily practitioners of SY meditation and compared them to a matched sample from the normative base of the VIA Institute on Character. Practitioners of SY meditation endorsed seven signature strengths, relative to non-meditators: spirituality, self-compassion, gratitude, self-regulation, teamwork, appreciation of beauty, and love. Findings suggest that the practice of SY meditation may be related to a broad and broad set of character strengths. The findings pave the way for research identifying signature strength development in other group contexts.

Keywords Character strengths · Meditation · Sahaja Yoga · Kundalini · Spirituality

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² Department of Psychology and Behavioral Genetics, Virginia Commonwealth University, Richmond, VA, USA

³ Rajawshankar Shukla University, Raipur, Chhattisgarh, India

⁴ Department of Psychology, Carleton University, Ottawa, Ontario, Canada



RASHTRIYA RAKSHA UNIVERSITY
An Institution of National Importance
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RRI/HR/1/2021/12

Under: D.O. No. 11/2021

To
Dr. Rajees Choudhary,
 Professor in Physical Education,
 Director of Welfare,
 Head of Department and In-charge,
 School of Physical Education,
 P.O. Box No. 10, Dehra Dun

E-mail: rajeechoudhary@pmzai.com

Sub:- Appointment as Adjunct Faculty

Dear Sir,

I have an honour to refer Dr. Rajees Singh Kushwaha, Dehra, RRI, conversation with you regarding your contribution in the school of Physical Education, Sports and NCC.

Rashtriya Raksha University, pioneering security and police university of India, an institution of National Importance and Central University under Ministry of Home Affairs, Government of India. The mission of the University is to offer interdisciplinary learning, research, training, consultancy and retired personnel and civil society participants in the fields of national security and police matters.


Your experience and contribution to the nation in Sports Education in RRI, in collaboration with various organisations and experts in similar domains will greatly help the School of Physical Education, Sports and NCC (SPESN) in furthering the cause of interdisciplinary research, teaching, research and training. Accordingly, we are pleased and honoured to have you as our **Adjunct Faculty** for the academic year 2021-22. As Adjunct Faculty, you will contribute in teaching and providing expert guidance in undergraduate/ postgraduate academic lecture along with research and consultancy activities undertaken as in active quest for the growth and development of the university.

The University shall be glad to offer you the remuneration for your services and respective duties. I, your appointment into lectures and services rendered; ensure comfortable boarding and lodging facilities and so and fro travel during your engagements at the RRI.

Do inform us your kind acceptance of the same.

Thanking you

With kind regards


Dr. P. V. Choudhary
 Director, HR

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रायपुर, छ.ग., भारत
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ई-मेल : registrarprsu@gmail.com
वेब : www.prsu.ac.in



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Off : +91-771-2262540
Email : registrarprsu@gmail.com
Web : www.prsu.ac.in

No./1457/Reg./2020
To,

Raipur, Date: 24.12.2020

Sh. K. V. Ravi Kumar
Vc Pro-Vice-Chancellor
Rashtriya Raksha University
(An Institution of National Importance)
At Lavad - Dehgam 382 305, Gandhinagar-Gujarat, India
Email: pro-vc@rru.ac.in
Mobile No. +91 70690 74879

Subject: NOC of Dr. Rajeev Choudhary regrading his appointment as an Adjunct Faculty.

Ref. RSU/Pro VC/AF/2020/131 dated December 18th, 2020.

Dear Sir

Dr. Rajeev Choudhary has been working as a Professor in School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh since 21.11.2012.

With reference to your Letter: RSU/Pro VC/AF/2020/131 dated December 18th, 2020, "No Objection Certificate" is issued to Dr. Rajeev Choudhary, Professor, School of Studies in Physical Education for his appointment as Adjunct Faculty at Rashtriya Raksha University Gandhinagar, Gujarat.

This is for your kind information and necessary action.

Registrar

End. No./1458/Reg./2020

Raipur, Date: 24.12.2020

Copy to

1. The Head, School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur Chhattisgarh-492010
2. Dr. Rajeev Choudhary, Professor, School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh-492010

Deputy Registrar