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22/05/19 - 96,000.00

SBK/OST/0519/101 2019 ①

No.DST/CSR/PDF-14/2018
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhavan
New Mehrauli Road
New Delhi-110 016
Dated 08.05.2019

ORDER

Sub: Financial approval of the PDF project under Cognitive Science Research Initiative (CSRI) entitled "EEG correlates of 'Insight' and its facilitating through emotional priming"

✓ **PI. Dr. Shubham Kumar**, Department of Cognitive Neuroscience, National Brain Research Centre, Gurgaon-122051, Haryana.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of Rs.18,92,000/- (Rupees Eighteen Lakh Ninety Two Thousand only) for duration of Two years. The items of expenditure for which the total allocation of Rs.18,92,000/- has been approved for Two years are given below:

Heads	1 st Year	2 nd Year	Total
Fellowship @Rs.55,000/M	6,60,000/-	6,60,000/-	13,20,000/-
Research Grant	2,00,000/-	2,00,000/-	4,00,000/-
Total	8,60,000/-	8,60,000/-	17,20,000/-
Overhead	86,000/-	86,000/-	1,72,000/-
GRAND TOTAL	9,46,000/-	9,46,000/-	18,92,000/-

2. Overhead expenses are meant for the host institute towards the cost for providing infrastructure facilities and benefits to the staff engaged in the project, etc.

3. Sanction of the grant is subject to the conditions as detailed in website www.dst.gov.in.

4. Sanction of the President is accorded to the payment of Rs. 9,46,000/- (Rupees Nine Lac Forty Six Thousand only) to the Finance Officer, National Brain Research Centre, Gurgaon-122051, Haryana being first installment of grant for implementation of the said above project during the year 2019-2020.

5. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. The interest earned / accrued should be reported to DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the grantee organization, which will be adjusted towards future release of grant.

6. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

7. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

8. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during FY 2017-2018 and onwards interest and other earnings, against released Grant shall be remitted to Consolidated Fund of India, immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with statement of expenditure/utilization certificate for considering subsequent release of grant/closure of project account.

Contd./2

9. In case the scheme provides for payment of honorarium / remuneration / fellowship / scholarship to the PI, a para may suitably be incorporated in the DSO to the effect that "PI is not drawing any emoluments/ salary/fellowship from any other project either supported by DST or by any other funding agency."

10. Principal Investigator (PI) is directed to acknowledge "research grant" in all publications emerging out of this particular project. For example, "Authors acknowledge Department of Science and Technology, Government of India for financial support vide Reference No. under Cognitive Science Research Initiative (CSRI) to carry out this work."

11. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

12. The expenditure involved is debatable to:

Demand No.84 Department of Science & Technology

3425 Other Scientific Research (Major Head)

60 Others (Sub-Major Head)

60.200 Assistance to other Scientific Bodies (Minor Head)

68 Science and Technology Institutional and Human Capacity Building (Sub Head)

68.00 Science and Technology Institutional and Human Capacity Building

68.00.31 Grants-in-aid General for the year 2019-2020 (Voted)

This release is being made **Research & Development Scheme.**

(Previous: Research & Development Support 3425.60.200.25.01.31)

13. The amount of Rs.9,46,000/- (Rupees Nine Lac Forty Six Thousand only) will be drawn by the Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the Finance Officer, National Brain Research Centre, Gurgaon-122051, Haryana by means of electronic transfer as per the details given below:

Institute Name : National Brain Research Centre

Bank Name : Axis Bank Ltd.

Account No : 056010100453998

Branch : SCO-29, Old Delhi Gurgaon Road, Near HUDA office, Sec-14 Gurgaon-122001

IFSC Code : UTIB0000056

14. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 13 in the register of grants maintained in the **Research & Development.**

15. This issues with the concurrence of IFD Vide their Concurrence Dy.No/522/2019-20. Dated 07.05.2019



(Vandana Singh)
Scientist-E

Copy forwarded for information and necessary action to:-

1. The Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi-110 002.
2. Copy with two spare copies of the sanction to the DDO, DST Cash Section.
3. Finance Officer, National Brain Research Centre, Gurgaon-122051, Haryana.
4. Ms. Dipanjan Roy, Department of Cognitive Neuroscience, National Brain Research Centre, Gurgaon-122051, Haryana.
5. Dr. Shubham Kumar, Department of Cognitive Neuroscience, National Brain Research Centre, Gurgaon-122051, Haryana.
6. Pay & Accounts Officer, DST, New Delhi.
7. IFD, DST, New Delhi.
8. Sanction Folder.



(Vandana Singh)
Scientist-E

7759022874

Dated: 14th November, 2018

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978, for the implementation of the Project proposal entitled "**Under standing the regulated secretory pathway and its role regulating physio-metabolic functions**" by Dr. Bhavani Shankar Sahu, Scientist, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara -390002 at a total cost of Rs. 103.60 lakhs (Rupees One Crore Three Lakhs Sixty Thousands only) as a part of his Ramalingaswami Fellowship 2016-17 w.e.f. 1st October, 2018 on the terms and conditions detailed as per under:-

2.0 The Project

2.1 Project Title: "**Under standing the regulated secretory pathway and its role regulating physio-metabolic functions**".

2.2 Investigator

Name of the Awardee:

Dr. Bhavani Shankar Sahu
Scientist,
The M.S. University of Baroda,
Maharaja Fatehsingh Gaekwad Marg,
Fatehgunj, Vadodara -390002(Gujarat)

Objectives

- Understanding the regulated secretory pathway in professional cells by using Neuroendocrine cells as model system.
- Emphasis will be on the post golgi trafficking pathways.
- Tools: gene perturbations, high accurate "mass spec" based quantitative proteomics, systems Cell biology, biochemistry and imaging.
- Identify novel players in governing regulated secretory pathway.
- Functionally characterise the novel cell specific cargo in secretory vesicles.
- Collabrate with clinicians and explore if the novel secretory vesicles specific cargo act as
- Candidate genes in disease where regulated secretory pathway is compromised.

2.3 Time Schedule

The duration of the fellowship is 5 years w.e.f. 1st October, 2018.

2.4 Fellowship Amount

		(Rs. in Lakhs)					
		1 st Yr.	2 nd Yr.	3 rd Yr.	4 th Yr.	5 th Yr.	Total
Fellowship@	Rs.1,00,000/ p.m	12.00	12.00	12.00	12.00	12.00	60.00
(consolidated)							
Research/Contingency grant		10.00	7.50	5.00	5.00	5.00	32.50
HRA @ Rs. 18.500	p.m.	2.22	2.22	2.22	2.22	2.22	11.10
consolidated							
Total		24.22	21.72	19.22	19.22	19.22	103.60

2.5 The contingency/research grant may be utilized for the purchase of consumables, minor equipment, international and domestic travel, engaging manpower and other contingent expenditure to be incurred in connection with the implementation of the project.

M. K. Sahu

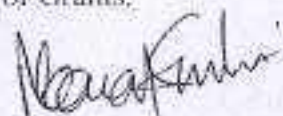
3. a) If the host institute is providing free accommodation, no House Rent Allowance (HRA) is admissible and same needs to be refunded to the department.
- b) If the host institute is deducting HRA and license fee for the accommodation provided, then the same may be recovered from the HRA being paid to the fellow. However, reimbursement shall be limited to the HRA being paid by DBT. Excess recovery, if any, has to be made by the host institute directly from the fellow.
4. As regards the medical benefits, host institute may consider giving medical benefits from their own resources at level of Scientist 'D' as applicable to their regular faculty.
5. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.

6. **Budget Head**

The expenditure involved is debitable to

Demand No. 85	:	Department of Biotechnology
3425	:	Other Scientific Research (2018-2019)
3425.60	:	Other (Sub Major Head)
3425.60.200	:	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	:	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
3425.60.200.29.17	:	Assistance for Research and Development
3425.60.200.29.17.31	:	Grants-in-aid General

7. The Accounts of the grantee institution shall be open to inspection by the sanctioning authority/ audit.
8. The Registrar, The M.S. University, Baroda is requested to furnish to this Department 'Utilization Certificate' and an audited 'Statement of Expenditure' at the end of the year.
9. This issues under the powers delegated to this Department and with the concurrence of IFD vide their SAN No. 102/IFD/SAN/3228/2018-19 dated: 14.11.2018.
10. This sanction order has been noted at Serial No. 114 in the Register of Grants.

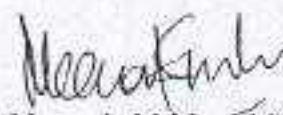

(Meenakshi Munshi)
Adviser/Scientist 'G'

To,

The Pay & Accounts Officer
Department of Biotechnology
New Delhi -110003

Copy forwarded for information/ necessary action to:

1. The Principal Director of Audit (Scientific Departments), AGCR Building, IP Estate, New Delhi -110 002.
2. Cash Section, DBT (2 copies)
3. IFD, DBT
4. Dr. Bhavani Shankar Sahu, Scientist, The M.S. University of Baroda, Maharaja Fatehsingh Gackwad Marg, Fatehgunj, Vadodara -390002(Gujarat)
5. The Registrar, The M.S. University of Baroda, Maharaja Fatehsingh Gackwad Marg, Fatehgunj, Vadodara -390002(Gujarat)
6. Sanction Folder


(Meenakshi Munshi)
Adviser/Scientist 'G'

No. BT/RI.F/Re-entry/38/2016
Government of India
Ministry of Science & Technology
Department of Biotechnology

Block No. 2, 6-8th Floors
CGO Complex, Lodi Road,
New Delhi - 110 003.

Dated: 14th November, 2018

ORDER

In continuation of this Department's sanction order of even number dated: 14th November, 2018 sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978, for the release of an amount of **Rs. 24.22 lakhs (Rupees Twenty Four Lakhs Twenty Two Thousands only)** to The Registrar, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara-390002, being the first installment of Ramalingaswami Re-entry Fellowship (2016-17) awarded to Dr. Bhavani Shankar Sahu, Scientist, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara -390002 for the implementation of the project proposal entitled "**Under standing the regulated secretory pathway and its role regulating physio-metabolic functions**" as per the details given below:-

Fellowship Amount

(Rs. in Lakhs)

S.No.	Head	Released Amount*
1.	Fellowship	12.00 @ Rs.1,00,00/ p.m (consolidated)
2.	Contingency/Research Grant	10.00
3.	HRA	2.22 Rs. 18,500/- p.m consolidated
	Total	24.22

* The release is made under recurring heads

- The other terms and conditions of the grant shall remain unaltered.
- The Accounts of the grantee institution shall be open to inspection by the sanctioning authority/ audit.
- It is certified that this being the first release no UC/SE pertaining to grants released under this programme is pending with the institute.
- a) If the host institute is providing free accommodation, no House Rent Allowance (HRA) is admissible and same needs to be refunded to the department.
b) If the host institute is deducting HRA and license fee for the accommodation provided, then the same may be recovered from the HRA being paid to the fellow. However, reimbursement shall be limited to the HRA being paid by DBT. Excess recovery, if any, has to be made by the host institute directly from the fellow.
- As regards the medical benefits, host institute may consider giving medical benefits from their own resources at level of Scientist 'D' as applicable to their regular faculty.
- The amount of **Rs. 24.22 lakhs (Rupees Twenty Four Lakhs Twenty Two Thousands only)** will be directly credited by PAO in the account as detailed below:-

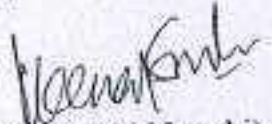
The Registrar, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara -390002

A. Bank Account Details

- | | | |
|----------------|---|----------------|
| i) Bank Name | : | Bank of Baroda |
| ii) A/c No. | : | 02010200000020 |
| iii) IFSC Code | : | BARB0MSUNIV |
| (iv) MICR Code | : | 390012019 |

8. The Registrar, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara -390002 will submit audited Utilisation Certificate and Statement of Expenditure in respect of the mentioned amount.
9. As per Rule 236 (1) of GFR, 2017, the Accounts of all grantee institution or Organisation shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Officer of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
10. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.
11. **Budget Head**
The expenditure involved is debitable to

Demand No. 85	:	Department of Biotechnology
3425	:	Other Scientific Research (2018-2019)
3425.60	:	Other (Sub Major Head)
3425.60.200	:	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	:	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
3425.60.200.29.17	:	Assistance for Research and Development
3425.60.200.29.17.31	:	Grants-in-aid General
12. This issue under the powers delegated to this Department and with the concurrence of IFD vides their SAN No. 102/IFD/SAN/3229/2018-19 dated:14.11.2018
13. This sanction has been noted at serial no. 115 in the Register of Grants.


 (Meenakshi Munshi)
 Adviser/Scientist 'G'

To,
 The Pay & Accounts Officer
 Department of Biotechnology
 New Delhi -110003

Copy forwarded for information/ necessary action to:

1. The Principal Director of Audit (Scientific Departments), AGCR Building, IP Estate, New Delhi - 110 002.
2. Cash Section, DBT (2 copies)
3. IFD, DBT
4. Dr. Bhavani Shankar Sahu, Scientist, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara -390002(Gujarat)
5. The Registrar, The M.S. University of Baroda, Maharaja Fatehsingh Gaekwad Marg, Fatehgunj, Vadodara -390002(Gujarat)
6. Sanction Folder

(Meenakshi Munshi)
 Adviser/Scientist 'G'

BT/MED-III/NBRC/Flagship/Program/2019
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (6-8th Floor)
CGO Complex, Lodhi Road,
New Delhi- 110003
Dated:29.09.2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the NBRC Flagship project entitled: "**Comparative Mapping of Common Mental Disorders (CMD) Over Lifespan**" for a period of 3 Year 0 Month at a total cost of Rs. **47705600** (Rupees Four Crore Seventy Seven Lakh Five thousand Six hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "**Comparative Mapping of Common Mental Disorders (CMD) Over Lifespan**"

2.2 Details of the Investigations:

Project Coordinator

Prof. Neeraj Jain

Director

National Brain Research Centre (NBRC)

Manesar- 122052

Principal Investigators:

Dr. Arpan Banerjee

Additional Professor/Scientist V

Department of Computational Neuroscience

National Brain Research Centre (NBRC)

Manesar- 122052

Dr Dipanjan Roy

Department of Computational Neuroscience

National Brain Research Centre (NBRC)

Manesar- 122052

Dr. Shiv K. Sharma

Department of Cellular and Molecular Neuroscience

National Brain Research Centre (NBRC)

Manesar- 122052

Dr. Anindya Ghosh Roy

Department of Cellular and Molecular Neuroscience

National Brain Research Centre (NBRC)

Manesar- 122052

2.3 Objectives:**Overall Objectives:**

1. To build a unified database comprising of brain imaging (structural and functional) and mental health scores
2. Quantification of changes in brain's structural and functional networks during resting state and with naturalistic stimuli in a cross-sectional adult life span data from general population (in the age range between 18-80 years).

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. 47705600/- (Rupees Four Crore Seventy Seven Lakh Five Thousand Six Hundred Only) as per details given below :

Institute	Year I	Year II	Year II	Total Cost(Rs.)
National Brain Research Centre (NBRC)	26735200	10635200	10335200	47705600
Total (Rs.)	26735200	10635200	10335200	47705600

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
(Rs in Lakhs)				
National Brain Research Centre (NBRC)				
Equipment	170.00	10.00	10.00	190.00
Manpower	71.352	71.352	71.352	214.056
Consumables	15.00	14.00	11.00	40.00
Travel	3.00	3.00	3.00	9.00
Contingency	3.00	3.00	3.00	9.00
Overhead	5.00 ✓	5.00	5.00	15.00
Total (Rs.)	267.352	106.352	103.352	477.056

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at Annexure-II

2019 (4)
BKM/MeitY/0919/103

No.4(5)/2019-ITEA
Government of India
Ministry of Electronics and Information Technology (MeitY)
R&D in IT Group
ITEA Division

Dated: 17th September, 2019
New Delhi: 110003

ADMINISTRATIVE APPROVAL

Subject: The project entitled "Artificial Intelligence for Early Predictive Diagnosis of Alzheimer's Disease using Multi-Modal Imaging Data" to be implemented by National Brain Research Centre (NBRC), Manesar – regarding.

The undersigned is directed to convey the Administrative Approval of the Competent Authority to the implementation of the project entitled "Artificial Intelligence for Early Predictive Diagnosis of Alzheimer's Disease using Multi-Modal Imaging Data" by National Brain Research Centre (NBRC), Manesar at a total estimated cost of Rs.59.964 Lakh (Rupees Fifty Nine Lakh Ninety Six Thousand Four Hundred only) as grants-in-aid from Ministry of Electronics and Information Technology over a period of 36 months.

2. The details of the project are given in the Annexure-I enclosed. The other Terms & Conditions governing release of Grant-in-aid from MeitY are given in Annexure-II.

3. This issues with the approval of Secretary, Ministry of Electronics and Information Technology vide Diary No.3 dated 4th September, 2019 and with the concurrence of AS&FA, MeitY vide Diary No. 1952 dated 2nd September, 2019.

Medhavi Singh
(Medhavi Singh)
Deputy Director

Copy to:

1. The Director, Office of the Director General of Audit, Post & Telecommunication, Sham Nath Marg, Delhi-110054.
2. Dr. Pravat K. Mandal, Professor (Scientist VI), National Brain Research Centre (NBRC), Manesar, NH-8, Manesar, Gurugram, Haryana 122051.
3. Drawing & Disbursing Officer, MeitY.
4. Finance Division, MeitY.
5. OC(BKM)/Dir(MKJ)/Sc.C(AKS)/DD(MS),MeitY.
6. Sanction Folder.

7. Total Project Outlay: Rs.59.964 Lakh (Rupees Fifty Nine Lakh Ninety Six Thousand and Four Hundred only)

S.No	Head	Year 1 Rs. in lakhs	Year 2 Rs. in lakhs	Year 3 Rs. in lakhs	Total Rs. in lakhs
1	Capital Equipment	12.00	0.00	0.00	12.00
2	Manpower	14.08	9.88	9.88	33.84
3	Travel/ Training	1.30	1.30	1.30	3.90
4	Consumables/Stores	1.50	1.50	1.50	4.50
5	Contingency / Miscellaneous (MRI Charges)	0.50	0.50	0.50	1.50
6	NBRC overhead(10 % of total budget)	1.688	1.268	1.268	4.224
	Total (Rs. in Lakhs)	31.068	14.448	14.448	59.964

8. Mode and extent of Funding:

(i)	Budgetary Support	
a)	Grants-in-aid from MeitY	Rs. 59.964 Lakh only
b)	Loan	Nil
c)	If loan, terms and condition for grant or loan to be stipulated if terms and condition have been Accepted, reference to acceptance	N.A.
(ii)	Internal generation	Nil
(iii)	External Agency, if any	Nil

9. Stages of release Grants-in-Aid:-

Release No.	Pre-condition/ Stages of implementation	Documentation to be supplied by Implementation Agency	Amount to be released (Rs. in Lakh)
1 st release	Initiation of the project	Acceptance of Terms and Conditions governing grants-in-aid	31.068
2 nd and subsequent releases	Recommendations of the PRSG & satisfactory progress report of the project	a. Submission of Utilization Certificate of the previous release. b. Technical & Financial Progress Report. c. Audited Statement of Accounts.	28.896
		Total	59.964

Medhavi Singh
(Medhavi Singh)
Deputy Director

Annexure-I to Administrative Approval No. 4(5)/2019-ITEA 17th September, 2019

1.	Name of the Project	Artificial Intelligence for Early Predictive Diagnosis of Alzheimer's Disease using Multi-Modal Imaging Data
2.	Objective	The primary objective of this research proposal is to develop a novel technology for early predictive diagnostic system for Alzheimer's disease (AD) that is able to determine AD onset and progression through combined information derived from MRI, MRS and neuropsychological analysis to provide early diagnostic markers and predictive disease onset on single subject level. Alzheimer's disease (AD) is an irreversible progressive neurodegenerative disorder manifested by cognitive deterioration as a variety of neuropsychiatric symptoms and associated behavioral disturbances leading to impairment of activities of daily living. Every year an estimated 9.9 million new dementia cases worldwide are being populated with one new AD case in every 3.2 seconds. At present, precise diagnostic confirmation of AD is only possible by autopsy. Extensive research is being carried out for the non-invasive identification of associated changes in brain to understand the cause of neurodegeneration in AD for accurate preventive treatment. It is therefore critical to develop new methodologies which incorporated multi-modal imaging information and use pattern recognition and machine learning methodologies for early prediction of AD onset.
3.	Deliverables	• Non-invasive, economical, quick and accurate technology in the form of neuropsychological tool for the diagnosis of AD in pre-Alzheimer patients. • Multi-modal imaging database inclusive of (MRI, MRS and Neuropsychological assessment scores) from each participant (Normal Control, MCI and AD). • A predictive diagnostic toolbox for Alzheimer's disease capable of integrating variety of imaging and spectroscopy information will be provided as grant deliverable. The framework for predictive diagnostic toolbox for AD patients will be developed in our laboratory at NBRC. • Developed system will provide critical information about diagnostic stage incorporating anatomical, neurochemical and behavioral information, and will further help immensely to improve understanding of disease pathogenesis.
4.	Name of the Implementing Agencies and status	National Brain Research Centre (NBRC), Manesar. (Autonomous Body)
5.	Name of Chief Investigator:	Dr. Pravat K. Mandal, Professor (Scientist VI).
6.	Total Project duration	36 months
	(i) Expected date of commencement	17.09.2019
	(ii) Expected date of completion	16.09.2022

Nedhan Sgl



ICMR

INDIAN COUNCIL OF MEDICAL RESEARCH

Dr. V. K. RAO, Director, ICMR, National Brain Research Centre, Manesar-122501, Gurugram
V. KANTALINGARAYAN, Secretary, ICMR, National Brain Research Centre, Manesar-122501, Gurugram

SOA/ICMR/0999/105

No. 51/4/2019-Ana/BMS

Date: 28.9.2019

To

The Director
National Brain Research Centre,
Manesar-122501, Gurugram

Subject- Sanction of budget allotment for the project entitled "The Sensitive Period of the Human Auditory Cortex a Neuroanatomical Study." under Dr. Soumya Iyengar, Scientist VI and Professor, National Brain Research Centre, Manesar-122501, Gurugram.

Sir/Madam,

The Director General of the ICMR sanctions the above mentioned research scheme initially for the period of one year initially from 25.9.2019 subject to extension up to the total duration specified in para 4 below:-

1. The Director General of the ICMR also sanctions the budget allotment of 1247760/- as detailed in the attached statement for the period from 25.9.19 to 24.9.2020. The grant-in-aid will be given subject to the following conditions.
2. The payment of the grant will be made in lump-sum to the Head of the Institute. The first instalment of the grant will be paid generally as soon as report regarding appointment of the staff is received by the ICMR. The Staff appointed on the project should be paid as indicated in the budget statement.
3. The staff on the project will be recruited as per the rules and procedure of the host institute and second part of the undertaking be obtained from the employees of the project. The staff grant will not be released unless the required undertaking [part-II] from Head of the Institute is received in this office.
4. The demand for payment of the subsequent instalment of the grant should be placed with the ICMR in the prescribed proforma. The approved duration of the scheme is THREE YEAR. The annual extension will be given after review of the work done on the scheme during the previous year.
5. Five copies of the annual progress report in the attached prescribed proforma should be submitted to the ICMR every year after completion of ten months of the project giving complete actual details of the research work done. Failure to submit the report in time may lead to termination of project.
6. Subject to the condition that the grant will be utilize after following the provisions laid down in the GFRs-2017 & TA Rules. Please keep the fund in a separate Saving Bank Account opened for ICMR funded Research Projects so that interest earned thereon is credited in to this account.

The receipt of this letter may please be acknowledged.

Yours faithfully,

(G.S.Sandhu)
Admn. Officer
For Director General

Copy together with a copy of the budget statement forwarded to information to Dr. Soumya Iyengar, Scientist VI and Professor, National Brain Research Centre, Manesar-122501, Gurugram

2. Accounts, V. for information.
3. Copy together with the budget forwarded to Budget Section [Finance Section] for compilation of the Council Budget
4. IRIS Cell No. 2019-0051

Administrative Officer
For Director-General


icmr
 INDIAN COUNCIL OF
 MEDICAL RESEARCH

भारतीय आयुर्विज्ञान अनुसंधान परिषद
INDIAN COUNCIL OF MEDICAL RESEARCH

 वी. रामलिंगस्वामी भवन, अन्सारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110 029
 V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110 029

No. 51/4/2019-Ana/BMS

Date: 20/9/2019

Subject:- Payment of 1st and 2nd instalment of the 1st year grant-in-aid for the "The Sensitive Period of the Human Auditory Cortex a Neuroanatomical Study" under Dr. Soumya Iyengar, Scientist VI and Professor, National Brain Research Centre, Manesar-122501, Gurugram.

MEMORANDUM

The Director General of the ICMR sanctions grant of Rupees 1247760/- (Rs. Twelve Lakh Fourty Seven Thousand Seven Hundred and Sixty Only) as the 1st & 2nd instalment of 1st year grant for the period from 25.9.2019 to 24.9.2020 for incurring expenditure in connection with the above mentioned project.

The amount of Rupees 1247760/- (Rs. Twelve Lakh Fourty Seven Thousand Seven Hundred and Sixty Only) may be debited under the provision made of Rs. 1247760/- on the above mentioned research project for the year 2019-2020.

A formal bill for Rs. 1247760/- is sent herewith for payment of Rs. 1247760/- in favour of The Director, National Brain Research Centre, Manesar. is issued with the concurrence of the Finance Division, vide RFC No. - BMS/Adhoc/75/2019-20 dated: 19.9.2019

(G.S.Sandhu)
 Admn. Officer
 for Director General

1. Copy to:- The Director, National Brain Research Centre, Manesar.
2. Dr. Soumya Iyengar, Scientist VI and Professor, National Brain Research Centre, Manesar-122501, Gurugram
3. Accounts - V.
4. Copy together with the budget forwarded to Budget Section [Finance Section] for compilation of the Council Budget.
5. ISRM ID No.2019-0051

Admn. Officer

For Director General

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
Department of Science & Technology
Technology Bhawan, New Mehrauli Road
New Delhi - 110016

SWD/DST/0219/097
INSPIRE

Faculty Registration No.: IFATLSBM 219
Date: 11 February, 2019

Subject: INSPIRE Faculty Fellowship - Offer letter [DST/INSPIRE/04/2018/003242]

Dear Dr. Swagata Dey

1. Government of India has launched a unique scheme "Innovation in Science Pursuit for Inspired Research (INSPIRE)" with several components. INSPIRE Faculty Fellowship Scheme is one such component of INSPIRE Programme which offers a contractual research award for carrying out independent research to young achievers. Based on your application followed by the due selection process, I am pleased to inform you that you have been selected for INSPIRE Faculty Fellowship.
2. A consolidated Faculty fellowship amount of Rs. 1,25,000/- per month with annual increment of Rs 2000/- along with Rs 35,00,000/- of research grant @ Rs.7 Lakhs/year for five years shall be offered to each Awardee. The offer is tenable for a period of five years only from the date of joining the Faculty position. There will be no further extension of this offer beyond 5 years and this offer does not provide any assurance or guarantee to provide regular job to any candidate. Moreover, each candidate as well as the Host Institute will be required to sign an 'UNDERTAKING' for implementation of this Faculty offer. Current Guidelines and all formats for joining under the INSPIRE Faculty scheme is available at the webportal <http://www.online-inspire.gov.in>
3. Each candidate will be required to inform DST on acceptance of the offer within 3 months from the date of this offer. This includes finalization of the Host Institute for implementation of this offer and joining of the selected Host Institute. In case candidate does not inform DST within 3 months, the offer shall automatically be forfeited.
4. The selected INSPIRE Faculty candidates, in case of their joining in private academic/research institutes will receive only Research Grant and their respective host Institute/University has to pay the fellowship amount equal to the scheme norms.
5. Please note that the Host Institution shall be other than the Institute/ University/ Laboratory where you have completed your PhD work/degree. No requests on this matter will be entertained by DST.
6. Candidates who are presently living abroad may invariably try to join Indian host institution within the stipulated time. No undue request for extension of joining time will be entertained by DST.
7. You are requested to take necessary action towards implementing this offer. Towards this the following documents are required to upload at portal (www.online-inspire.gov.in), so that necessary funds can be released to Host Institute from our end:
 - i) Details of Bank Account of the Host Institute (not of the individual candidate). (Candidates are advised to select the respective host institute bank details from the drop down menu of the portal data base and not to add multiple entries in the portal)
 - ii) Duly signed 'UNDERTAKING'
 - iii) Year-Wise Budget Estimate for Research Grant of Rs. 7,00,000/- each year (year-wise without clubbing)-For information only.
 - iv) Joining Report (Duly authenticated)
8. Login-ID and Password used at the time of submission of application shall be used now as well for upload. Without submission of these documents through online, no action would be possible to take at our end.
9. This issue is with the approval of Secretary DST vide Dy. No. 22852 dated 01/03/2019. We shall be looking for your responses in this respect.
10. Please quote the Faculty Registration number for future correspondence and hereinafter all communications by the awardees should be addressed to DST only and not INSA. Any communications to INSA will go unattended and will be ignored.
11. Those who are not working, in any regular position in the chosen host institution for implementation of INSPIRE Faculty fellowship are requested not to fill the "Placement Details" in the online portal.
12. All documents including the joining documents need to be uploaded only in the online portal. No hard copy of any document is required to be sent to the program division.

With Best Regards,

Dr. Ruckmani Arunachalam
INSPIRE Program
E-mail: ruckmani.a@nic.in
Phone: 011-26590455

To,
Dr. Swagata Dey [DST/INSPIRE/04/2018/003242]
F-208, Mahavir Enclave Extension, Part-3, Gali no. 83
West Delhi - 110059
DELHI

[illegible]
$$P = 1,240,000 + 500$$

(7)

ARB/MYAS/0219/098

F.No.K-15015/42/2018/SP-V
Government of India
Ministry of Youth Affairs & Sports
Department of Sports

Shastri Bhawan, New Delhi
Dated: 14th February, 2019

To,

The Pay & Accounts Officer,
Pay & Account Office (Sports),
Shastri Bhawan
New Delhi

Subject: Financial Assistance to National Brain Research Centre (NBRC) for Research Project on "Early Diagnosis of Structural and Functional Decline in Brain Circuits Stemming from Traumatic Injuries in Professional Athletes Playing Contact Sports" under the Scheme of HRDS-reg.

Sir,

I am directed to say that this Ministry agrees in principle to the sanction of a financial assistance not exceeding **Rs.1 Crore (Rupees One Crore Only)** for Research Project on "Early Diagnosis of Structural and Functional Decline in Brain Circuits Stemming from Traumatic Injuries in Professional Athletes Playing Contact Sports" under the Scheme of HRDS. This assistance is of non-recurring in nature.

2. I am also to convey the sanction of the President to the payment of **Rs. 40 Lakhs (Rupees Forty Lakhs Only)** to National Brain Research Centre as First Installment (40%) of the total grant of **Rs. 1 Crore (Rupees One Crore Only)**. The further installment will be released after upon the receipt of progress report, statement of expenditure, copies of bills/vouchers, Utilisation Certificate duly signed by the competent authority pertaining to the above research work indicating expenditure heads.

3. The fund will be released to NBRC subject to condition that:

- a. The detailed break-up of all the sub heads to be submitted before booking expenditure
- b. The post doctoral fellow will be engaged as per MHRD/ DST norms, the details procedure should be intimated/ vetted by MYAS
- c. The journey should be undertaken only by economy class, bills/ boarding passes to be submitted
- d. The actual expenditure should not be diverted more than 10% of the approved amount
- e. The equipment should be purchased as per MoF norms

4. The fund release pattern will be in three installments; the first installment will be of **Rs.40 lakhs** and the next two installments of **Rs.30 lakhs** each.

5. i) As per GFR 211, the accounts of the institution or organization shall be open to inspection by the Ministry of Youth Affairs and Sports and Audit; both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act, 1971 and Internal Audit by the Principal Accounts Officer of the Ministry of Human Resource Development Delhi whenever the organization is called upon to do so.

ii) That any unutilized amount together with any amount that might have been wrongly utilized for a purpose other than for which the assistance has been made shall be refunded by the organization with the

Vinod K.

least possible delay and in any case, not later than 15 days from the date of issue of the letter from this Ministry calling for refund of the amount.

iii) As per Rule 209(6)(ix), i.e. interest to be charged at the time of refund of amount with effect from 1.7.2005 will be @ 10% per annum.

6. The above sanction has been issued under the delegated powers and in consultation with the Finance Unit vide their Dy. No.1403/2018-19/FU dated 8th February, 2019, it is certified that the pattern of financial assistance of the scheme under which the assistance has been sanctioned has the approval of the Ministry of Finance. It is also certified that the assistance being released is in conformity with the rules and principles of the Scheme. There is no reason to believe that the person is involved in corrupt practice. It is also certified that the unspent balance, if any, of the previous assistance has been taken into account while sanctioning the present amount.

7. The amount of **Rs.40 Lakhs (Rupees Forty Lakhs Only)** shall be electronically transferred through RTGS to **National Brain Research Centre** in Savings Bank Account No. **056010100453998**, MICR code **110211008**, IFSC code **UTIB0000056**, in Axis Bank Ltd., Near Huda office, Old Delhi, Gurgaon Road, Sector-14.

8. The amount of financial assistance will be debit to the Demand No.99- Ministry of Youth Affairs & Sports, Major Head "2204"- Sports & Youth Services, Minor Head "00.104"- Sports & Games, 45- Assistance to Promotion of Sports Excellence, 45.01- Scheme of Human Resource Development in Sports, 45.03.34 Scholarship/Stipend in the year 2018-19.

Yours faithfully

Vinod Kr
(Vinod Kumar)

Under Secretary to the Govt. of India

Copy to:-

1. Director, National Brain Research Centre, NH-8, Manesar, Gurgaon, Haryana-122 052
2. DG (Audit CE), AGCR Building
3. Guard File

Vinod Kr
(Vinod Kumar)

Under Secretary to the Govt. of India

Subject: SERB-Notification
From: SERB_Administrator@serbonline.in
Date: 05-04-2019, 15:47
To: <"info@serbonline.in"@imsva02.cdacnoida.in>

Science and Engineering Research Board
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Department of Science and Technology, Government of India

FILE NO. CRG/2018/004425

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 25-Mar-2019

ORDER

Subject: Financial Sanction of the research project titled **""Regulation of fear memory formation by long non-coding RNAs and RNA binding proteins: Mechanisms of combinatorial control""** under the guidance of Dr. Sourav Banerjee, Molecular and Cellular Neuroscience, National Brain Research Centre, Nh-8, manesar, gurgaon, Gurgaon, Haryana-122051 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of **Rs. 5239000/- (Rs. Fifty Two Lakh Thirty Nine Thousand Only)** with break-up of **Rs. 977000/- under Capital (Non-recurring) head and Rs.4262000/- under General (Recurring) head** for a duration of 36 months. The items of expenditure for which the total allocation of **Rs. 5239000/-** has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	

1	Equipment -> Fear conditioning system with integrated video monitoring of animal movement.	977000
A'	Total (Non-Recurring)	977000
B	Recurring Items	
1	Recurring - I : (Manpower) 372000 + 372000 + 420000	1164000
	Recurring - II : (Consumables, Travel, Contingencies)	2700000
	Recurring - III : Scientific Social Responsibility 900000 + 3000 + 3000 + 3000	10000
2	Recurring - IV : (Overhead Charges) 145000 - 125000	388000
B'	Total (Recurring)	4262000
C	Total cost of the project (A' + B')	5239000

2. Sanction of the SERB is also accorded to the payment of **Rs. 977000/-** (Rupees Nine Lakh Seventy Seven Thousand only) under 'Grants for creation of capital assets' and **Rs. 1427000/-** (Rupees Fourteen Lakh Twenty Seven Thousand only) under 'Grants-in-aid General' to **Director, National Brain Research Centre, NH-8, Manesar, Gurgaon** being the first installment of the grant for the year 2018-2019 for implementation of the said research project.

3. The expenditure involved is debitable to **Fund for Science & Engineering Research (FSER)**

This release is being made under Core Research Grant. (PAC Health Sciences)

4. The Sanction has been issued to National Brain Research Centre, NH-8, Manesar, Gurgaon with the approval of the competent authority under delegated powers on **20 March, 2019** and vide Diary No. **SERB/F/12655/2018-2019** dated **22 March, 2019**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the

staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

9. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

10. The release amount of Rs. 2404000/- (Rupees Twenty Four Lakh Four Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	National Brain Research Centre
Account Number	056010100453998
Bank Name & Branch	Axis Bank Ltd Axis Bank Ltd, Sector 14, Gurugram
IFSC/RTGS Code	UTIB00000056
Email id of A/C Holder	finance@nbrc.ac.in
Email id of PI	sourav@nbrc.ac.in

11. The institute will furnish to the SERB, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

12. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

372 000

419 200

450 100

744000

2404000

2247000

157000

157000

13. The project File no. CRG/2018/004425 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

14. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

15. As this is the first grant being released for the project, no previous U/C is required.

16. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

17. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

18. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.

(Dr. Balachandar Venkatesan)

Scientist E

ms_hs@serbonline.in

To,

Under Secretary

SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.

The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-

PKS/OBT/0619/102

No. BT/PR27512/MED/122/146/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 27/06/2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: **"Role of Ephrins/Eph receptors in HIV mediated Neuropathogenesis"** for a period of 3 Year 0 Month at a total cost of Rs. **7316000** (Rupees Seventy Three Lakhs Sixteen Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Role of Ephrins/Eph receptors in HIV mediated Neuropathogenesis"

2.2 Details of the Investigations:

Dr. Pankaj Seth

Scientist VI, Molecular and Cellular Neuroscience
National Brain Research Centre
Nainwal Mode, NH-08, Manesar-122050,
Gurgaon, Haryana, 122050

CO-PI:

Dr. Anirban Basu

PI, Molecular & Cellular Neuroscience
National Brain Research Centre
Manesar, Gurgaon, Manesar - 122052,
Haryana

2.3 Objectives:

1. To study the modulation of EphrinA3 and EphA4 proteins post HIV-1 Tat transfections in co-cultures
2. To study the alterations in glutamate levels following HIV-1 Tat expressing transfection and EphrinA3 knockdown by siRNA and spine density in neurons.
3. To study the potential role of specific microRNA targeting EphrinA3 and their role in HIV-1
4. To validate the above results on human brain tissue sections: Post-mortem Human brain

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **7316000/-** (Rupees Seventy Three Lakhs Sixteen Thousand Only) as per details given below :

[Signature]

Budget Head	Year I	Year II	Year III	Total(Rs.)
Equipment	1900000.00			1900000.00
Manpower	372000.00	372000.00	372000.00	1116000.00
Overhead	100000.00	100000.00	100000.00	300000.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	1100000.00	1500000.00	1100000.00	3700000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	3572000.00	2072000.00	1672000.00	7316000.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at
Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at
Annexure-II

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

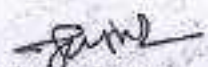
Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

(A) The institute should utilize this Non-Recurring amount within a period of 18 months (B) In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten Percent per annum thereon shall be recovered (C) The ownership of physical and intellectual assets created or acquired out of these funds shall rest with the DBT (D) MOA has been executed

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

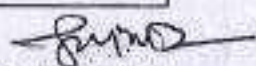
4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory.


(Dr. Garima Gupta)
Scientist 'E'

Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled "Role of Ephrins/Eph receptors in HIV mediated Neuropathogenesis":

National Brain Research Centre			
SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Microscope with fluorescence lamp, camera and system	1	1900000.00
Total			1900000.00

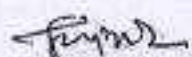

(Dr. Garima Gupta)
Scientist 'E'

Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled "Role of Ephrins/Eph receptors in HIV mediated Neuropathogenesis":

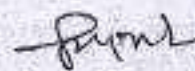
Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
Project Assistant Project assistant will assist in all the experimental work. They will perform the cell cultures and other experiments @ Rs 31,000/- for 3 years	1	372000	372000	372000	1116000
Total(Rs.)		372000	372000	372000	1116000

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST OM No. SR/S9/Z-08/2018 dated 30.01.2019.


(Dr. Garima Gupta)
Scientist 'E'

before first release. A format of the MoA is enclosed in Annexure-IV

- 4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Director, National Brain Research Centre, Gurgaon, Haryana would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.
7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-08/2016 dated on 30 Jan 2019. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
9. If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org
10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clearance, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project investigator(s) and Host Institution(s) shall compulsorily comply the same before undertaking such activities.
11. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/813/2019-2020** dated **June, 27 2019**.
12. This sanction order has been noted at serial no. 10 in the Register of Grants.


(Dr. Garima Gupta)
Scientist 'E'

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Director, National Brain Research Centre, NH-8, Manesar, Gurgaon, Gurgaon - 122050, Haryana
- 3 Dr. Anirban Basu, PI, Molecular & Cellular Neuroscience, National Brain Research Centre, Manesar, Gurgaon, Manesar - 122052, Haryana
- 4 Dr. Pankaj Seth, Scientist VI, Molecular and Cellular Neuroscience, National Brain Research Centre, Nainwal Mode, NH-08, Manesar-122050, Gurgaon - 122050, Haryana
- 5 Cash Section, DBT (2 copies).
- 6 Sanction Folder.

(10)

DST/IMRCD/BRICS/PilotCall/NEUROTherapy/2017 (G)
DEPARTMENT OF SCIENCE & TECHNOLOGY
GOVERNMENT OF INDIA
(International Multilateral Regional Cooperation Division)

Technology Bhavan,
 New Mehrauli Road
 New Delhi-110016
 Dated: 08/03/2018

ORDER

Sanction of President is accorded for incurring an expenditure not exceeding Rs. 33,45,000/- (Rs. Thirty Three Lakh Forty Five Thousand only) under 'General' head for a duration of 3 years Implementation of BRICS Research Project - **NEUROTherapy**, "Development of a new screening platform for the discovery of novel therapeutics to cure neurodegenerative diseases.

2. The Project is between Indian Project Coordinator: Prof. Nihar Ranjan Jana, National Brain Research Centre, Chinese Project Coordinator: Guanghui Wang, College of Pharmaceutical Sciences, Soochow University. Russian Project Coordinator: Kaznacheyeva Elena, Institute of Cytology, RAS).

3. Following is the budget details for National Brain Research Centre for BRICS Research Project.

Sl No	Item	1 st year	2 nd year	3 rd year	Total
1	Manpower	Nil	Nil	Nil	Nil
2	Equipment	Nil	Nil	Nil	Nil
3	Consumables	12,00,000	7,50,000	7,50,000	27,00,000
4	Mobility India to BRICS Countries India to China (2 visits, Rs.50,000/- per visit approx) India to Russia (2 visits, Rs.65,000/- per visit approx	50,000	50,000 65,000	65,000	1,00,000 1,30,000
	Mobility BRICS Countries to India (4 visits)	60,000	1,20,000	60,000	2,40,000
5	Sub Total	13,10,000	9,85,000	8,75,000	31,70,000
5	Overhead Charges	75,000	50,000	50,000	1,75,000
	Total	✓ 13,85,000	10,35,000	9,25,000	33,45,000

4. Sanction of the President is also accorded for release of 1st instalment amounting of Rs. 13,85,000/- (Rs. Thirteen Lakh Eighty Five Thousand Only) and payment of this amount may be made to DDO, DST by means of electronic transfer to the following account of National Brain Research Centre (to be utilised by Prof. Nihar Ranjan Jana)

1.	Name /Designation of account holder	National Brain Research Centre
2.	Name of bank and branch	Axis Bank Ltd, Sec-14, Gurgaon.
3.	Bank Account No.	056010100453998
4.	IFSC Code	UTIB0000056
5.	MICR Code	110211008

Condition for placing of grant amount:

5. The institute will maintain separate audited account for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the (financial year wise) Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further instalment of the grant.

Conditions for submission of SE/UC and Progress report

6. (a) The grantee organisation will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
 - (b) While submitting Utilisation Certificate/Statement of Expenditure, the organisation has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
 - (c) a transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organisation under the appropriate rules of the grantee organisation while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organisation immediately on receipt of the grant.
7. The grantee organisation will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
8. In the event grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s) separate SE/UC has to be furnished for the released Capital head grant.

Conditions of Assets (if any) :

9. (a) DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017) shall not be disposed of without obtaining the prior approval of DST.

- (b) The equipment/instrument shall have to be purchased within twelve months from the date of release of the capital grant. Fresh permission shall have to be sought from DST, in the event, the Institute fails to purchase the equipment/instrument within the prescribed period of twelve months from the date of release of sanctioned amount.

Conditions for International Visits :

10. All project related visits to be undertaken by the Scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.

11. As per MoF instructions, it has been decided that in all cases of air travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the officials may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferable be an alliance partner of Air India.

Other Conditions:

12. The account of the grantee organisation shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organisation is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

13. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organisation in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

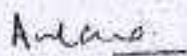
14. Failure to comply with the terms and conditions of this sanction order will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

15. The expenditure involved is debitable to Demand No.84, Department of Science & Technology for the financial year 2017-18:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.798	:	International Cooperation (Minor Head)
14	:	Research & Development
14.00.31	:	Grants-in-aid General for the year 2017-18 (Plan)
(Previous : ICD-3425.60.798.12.00.31)		

16. This issues with the concurrence of IFD vide their Dy. No. C/5176/IFD 2017-18, dated: 07/03/2018.

17. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 568 in the register of grants maintained in the Division.

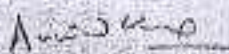

(Dr. Arvind Kumar)
Scientist "E"

To

The Pay & Accounts Officer,
Deptl. Of Science & Technology, New Delhi.

Copy to -

1. Office of the Principal Director of Audit, Scientific Deptts. IP Estate, N Delhi- 110002.
2. Cash Section (3 copies), Department of Science & Technology (DST).
3. I.F. Division/Accounts Section, DST.
4. Prof. Nihar Ranjan Jana, National Brain Research Centre, Manesar, Gurgaon-122051
5. Sanction folder.


(Dr. Arvind Kumar)
Scientist "E"

Dated: 27th March, 2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "Phase-II of the Centre of Excellence (COE) for Epilepsy" for a period of 3 year 0 Month at a total cost of ₹2493.59792 lakh (Rupees Twenty four hundred ninety three lakhs fifty nine thousand seven hundred ninety two only) at All India Institute of Medical Sciences (AIIMS), New Delhi & National Brain Research Centre (NBRC), Manesar, Haryana on the terms and conditions detailed here under:

2.0 The Project:

2.1 Titled : "Phase-II of the Centre of Excellence (COE) for Epilepsy"

2.2 Investigators: (AIIMS)

Name of the PI & : (i) Professor P. Sarat Chandra,
Implementing Institute Professor, D/o Neurosurgery, AIIMS, Ansari Nagar,
New Delhi-110029

Co-PI (ii) Prof. Manjari Tripathi,
Professor,
AIIMS, Ansari Nagar,
New Delhi -110029

PI: (NBRC) (i) Prof. Neeraj Jain,
Professor,
National Brain Research Centre,
Manesar, Haryana-122051

Co-PI (ii) Dr. Jyotirmoy Banerjee,
Associate Professor,
NBRC, Manesar, Haryana-122051

2.3 Objectives :

R & D Proposal No. 1

Aims & Objective:

Aim: To evaluate the safety and effectiveness of Nexstim Navigated Brain Stimulation (NBS), fMRI and MEG procedure application for language in bilingual case (Hindi/English), memory and motor function mapping in comparison of Gold standard DCS procedure in patients with intractable epilepsy. The results of study will guide us to establish validation of the paradigms and techniques for the three modalities (NBS, MEG and fMRI). This will give novel strategies for surgical procedure in comparison of intraoperative DCS.

Objective 1: Evaluate the safety and effectiveness of Nexstim Navigated Brain Stimulation (NBS), fMRI and MEG modalities in comparison of DCS with below parameters:

- Language (bilingual, Hindi/English)
- Memory function
- Motor function mapping

Objective 2: Compare and correlate above results with clinical assessment (IAB language scoring, Wechsler clinical testing for memory, Edinburgh handedness and QOL SF36 questionnaire)

Objective 3: To evaluate functional reorganization and correlate results with gold standard DCS in these patients after 6 month of surgery follow-up.

R & D Proposal no.2

Objectives:

1. To measure changes in kynurenic acid level in the ATL samples of patients with MTLE and its correlation with KYNA levels in the hippocampal samples of these patients.
2. To study KYNA neo-synthesis in slices prepared from brain specimen resected from the hippocampal and the ATL regions of patients with MTLE.
3. To study endogenously synthesised KYNA and exogenously applied KYNA-induced changes in excitatory synaptic transmission in slice preparations of the hippocampal and the ATL samples.

2.4 Time Schedule :

The duration of the project is three years from the date of this sanction order.

2.5 Project Cost :

The total cost of the project is ₹2493.59792 lakh (Rupees Twenty four hundred ninety three lakhs fifty nine thousand seven hundred ninety two only) as per details given below:

I. All India Institute of Medical Sciences, New Delhi

(PI: Prof. P. Sarat Chandra)

(₹ in lakh)

S. No.	Items	Year I	Year II	Year III	Total
A.	Non-Recurring				
1.	Equipment	440.55	0.00	0.00	440.55
B.	Recurring				
1.	Manpower	66.63264	66.63264	66.63264	199.89792
2.	Consumables	90.00	95.90	102.39	288.29
3.	Travel	2.50	2.50	2.50	7.50
4.	National and Internal Consultancy	5.00	5.00	5.00	15.00
5.	Journals and Books	2.00	0.00	0.00	2.00
6.	Workshop and Training	7.00	7.00	7.00	21.00
7.	Contingencies	0.50	0.50	0.50	1.50
8.	Overhead	7.00	6.00	6.00	19.00
Total I (A+B):		621.18264	183.53264	190.02264	994.73792

II. National Brain Research Centre, Manesar, Haryana

(PI: Prof. Neeraj Jain)

S. No.	Items	Year I	Year II	Year III	Total
A.	Non-recurring				
1.	Equipment	500.38	0.00	0.00	500.38
B.	Recurring				
1.	Manpower	81.84	84.30	86.83	252.97
2.	Consumables	222.75	231.00	239.26	693.01
3.	Maintenance of MEG facility	17.00	17.50	18.00	52.50
Total II (A+B):		821.97	332.80	344.09	1498.86
Grand Total (I+II):		1443.15264	516.33264	534.11264	2493.59792

*NBRC Manpower 2nd and 3rd year 3% increased

6 Equipment

The details of the equipment sanctioned for the implementation of the project at Annexure-I

2.7 Manpower

The details of the manpower sanctioned for the implementation of the project at Annexure-II

3. Head of Account

The Non-Recurring expenditure involved is debitable to:

Demand No.85	Department of Biotechnology;
3425	Other Scientific Research (Major Head);
60	Other (Sub Major Head);
60.200	Assistant to Other Scientific Bodies (Minor Head);
29	Biotechnology Research and Development;
29.17	Human Resource Development Research, Resources and Facilities;
29.17.35	Grants for creation of Capital Assets for the year 2017-18;

No. BT/MED/122/SP24580/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, (5-8th Floors)
 CGO Complex, Lodhi Road
 New Delhi- 110 00.
 Date: 28/06/2011

RELEASE ORDER

In continuation of this Department's sanction order of even number dated Mar 27, 2018 sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rule, 1978, for the release of Rs. **5703260.00** (Rupees Fifty Seven Lakhs Three Thousand Two Hundred and Sixty Only) being the first year release for the project entitled "**Centre of Excellence for Epilepsy - Phase - II**", being implemented by

1. Dr. Neeraj Jain, National Brain Research Centre, Nainwal Mode, NH-8, Manesar, Gurgaon, Manesar - 122051 Haryana.
2. Prof. P. Sarat Chandra, All India Institute of Medical Sciences, Delhi, ROOM NO. 7 6TH FLOOR C.N. CENTRE AIMS, PIN. 110029, - 110029, Delhi.

The detailed break-up is as given below:

SNo	Institute Name	Recurring						Total Release Amount (Rs)
		Manpower	Consumable	Travel	Contingency	Others	Overhead	
1	All India Institute of Medical Sciences, Delhi	2406384.00	0.00	0.00	0.00	0.00	0.00	2406384.00
2	National Brain Research Centre	3296875.00	0.00	100000.00	50000.00	200000.00	0.00	3296875.00

Revised Manpower breakup details AIMS & NBRC: At Annexure I
 Other sub head breakup details for NBRC: Travel @Rs1.00Lakh, Journals and Books @Rs2.00Lakh, Contingency@Rs0.50Lakhs.

2. The amount of Rs. **5703260.00** /- (Rupees Fifty Seven Lakhs Three Thousand Two Hundred and Sixty Only) will be directly credited by the Pay & Accounts Officer, DBT in the account as detailed below:
 1. Rs.3296875.00/- (Rupees Thirty Two Lakhs Ninety Six Thousand Eight Hundred and Seventy Six Only) to The Director, National Brain Research Centre, NH-8, Manesar, Gurgaon, Gurgaon - 122050, Haryana
 Bank Name : Axis Bank
 Branch Name : Gurgaon
 A/c No. : 056010100453998
 IFSC Code : UTIB00000056
 MICR Code : 110211008
 2. Rs.2406384.00/- (Rupees Twenty Four Lakhs Six Thousand Three Hundred and Eighty Four Only) to The Director, All India Institute of Medical Sciences, Delhi, Ansari Nagar, New Delhi - 110029, Delhi
 Bank Name : State Bank of India
 Branch Name : Ansari Nagar New Delhi
 A/c No. : 10874584010
 IFSC Code : SBIN0001636
 MICR Code : 110002005
3. The expenditure involved is debitable to:

BT/PR21413/MED/122/40/2016
 Government of India
 Ministry of Science & Technology
 Department of Biotechnology

Block-2 (6-8th Floors)
 CGO Complex, Lodi Road,
 New Delhi - 110 003
 Dated: 27/12/2018

CORRIGENDUM

In partial modification of this department's Admin order of even dated 15th October 2018, for the total cost of **Rs.94.34 Lakhs** for the project title "**Effect of hypoxia on different neural cell types in vitro – a model to design therapeutic strategies against cerebral palsy in preterm infants**" by **Dr Sudip Sen, AIIMS, New Delhi** and **Dr Pankaj Seth, NBRC, Manesar** correction may be read as follows:

(i) Co-PI detail: Prof Subrata Sinha, Head of Biochemistry, AIIMS, New Delhi

(ii) Project has "**In principle**" approval for the period of 5 year with a consolidated budget of Rs 139.34 Lakhs (Rs 69.38lakhs for AIIMS, Delhi and Rs 69.96 lakhs for NBRC, Manesar)

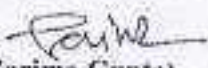
(iii) Initially project has been implemented for a period of 3 year 0 months from the date of sanction order, extendable to 5 years subject to satisfactory review of the progress.

2. All other contents of the release order remain unaltered.


 (Dr. Garima Gupta)
 Scientist 'E'

To,

1. The Principal Director of Audit (Scientific Deptt.) DBT, New Delhi - 110003.
2. Cash Section, DBT.
3. ITD, DBT.
4. Dr. Pankaj Seth, NBRC, Manesar
5. The Director, NBRC, Manesar
6. Dr Sudip Sen, AIIMS, New Delhi
7. The Director, AIIMS, New Delhi
8. Office copy.


 (Dr. Garima Gupta)
 Scientist 'E'

No. BT/PR21413/MED/122/40/2016
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated:15/10/2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: **"Effect of hypoxia on different neural cell types in vitro – a model to design therapeutic strategies against cerebral palsy in preterm infants"** for a period of 3 Year at a total cost of Rs. **9434000** (Rupees Ninety Four Lakhs Thirty Four Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Effect of hypoxia on different neural cell types in vitro – a model to design therapeutic strategies against cerebral palsy in preterm infants"

2.2 Details of the Investigations:

Project Coordinator

Dr. Sudip Sen

Assistant Professor, Biochemistry
All India Institute of Medical Sciences, Delhi
Room no. 3027A, Dept. of Biochemistry, Delhi, 110029

Principal Investigators:

Dr. Sudip Sen

Assistant Professor, Biochemistry
All India Institute of Medical Sciences, Delhi
Room no. 3027A, Delhi, 110029

Prof. Pankaj Seth

Professor and Scientist VI
Neurovirology Section,
National Brain Research Centre, NH-8, Nainwal Road
MANESAR, Haryana, 122051

CO-PI:

Prof. Debabrata Ghosh

Professor, Physiology, All India Institute of Medical Sciences, Delhi
Department of Physiology, 110029, Delhi

Dr. Tapas Chandra Nag

PI, Department of Anatomy
All India Institute of Medical Sciences, Delhi
New Delhi - 110029, Delhi

Prof. Jai Bhagwan Sharma

Professor, Obstetrics and Gynaecology
All India Institute of Medical Sciences, Delhi, 110029, Delhi

Dr. Parthaprasad Chattopadhyay

PI, Biochemistry

PKS/00T/0918/093

13

No. BT/PR23625/MED/122/77/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 12/09/2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Hypoxia Induced Changes in Blood Brain Barrier**" for a period of 3 Year 0 Month at a total cost of Rs. **9946600** (Rupees Ninety Nine Lakhs Fourty Six Thousand Six Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "**Hypoxia Induced Changes in Blood Brain Barrier**"

2.2 Details of the Investigators:

Project Coordinator

Dr. Sunit Kumar Singh

Professor, INSTITUTE OF MEDICAL SCIENCES, BHU, Varanasi, Uttar Pradesh, 221005

Principal Investigators:

Dr. Sunit Kumar Singh

Professor, Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi, Uttar Pradesh, 221005

Prof. Pankaj Seth

Professor, National Brain Research Centre, NH-8, Manesar, Gurugram, Haryana, Manesar, 122051

2.3 Objectives:

Institute wise Objectives:

INSTITUTE OF MEDICAL SCIENCES, BHU

1. The first goal of the proposed study is to determine the levels of miRNA expression in human brain microvascular endothelial cells (BMVECs) and then to see if they significantly increase/decrease in BMVECs exposed to Hypoxic Conditions in BMVECs. We would predict to observe differential expression of miRNAs in the BMVECs exposed to hypoxic conditions, compared to control.
2. Our second goal is to determine the effect of differentially expressed miRNAs, which were significantly induced/suppressed in BMVECs exposed to hypoxic conditions (specific aim 1), on expression of their target genes. We plan to use different bioinformatic prediction tools such as MIRANDA, TARGETSCAN and PicTar to find out gene targets of significantly induced/suppressed miRNAs. Different bioinformatics predictions tools will be used to find out the maximum probable gene targets.
3. We would like to see the effect of differentially expressed miRNAs on their target genes by over-expressing the respective miRNA by using pre-miRNAs and by knocking down the respective miRNAs by using antagomiRs.

National Brain Research Centre

1. human fetal brain derived astrocytes

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **9946600/-** (Rupees Ninety Nine Lakhs Forty Six Thousand Six Hundred Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. INSTITUTE OF MEDICAL SCIENCES, BHU	3116600	1760000	1603200	6479800
2. National Brain Research Centre	1140000	1140000	1186800	3466800
Total (Rs.)	4256600	2900000	2790000	9946600

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. INSTITUTE OF MEDICAL SCIENCES, BHU				
Equipment	1356600.00			1356600.00
Manpower	360000.00	360000.00	403200.00	1123200.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	1200000.00	1200000.00	1000000.00	3400000.00
Overhead	50000.00	50000.00	50000.00	150000.00
Contingency	100000.00	100000.00	100000.00	300000.00
Total (Rs.)	3116600.00	1760000.00	1603200.00	6479800.00
2. National Brain Research Centre				
Manpower	390000.00	390000.00	436800.00	1216800.00
Contingency	50000.00	50000.00	50000.00	150000.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	600000.00	600000.00	600000.00	1800000.00
Overhead	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	1140000.00	1140000.00	1186800.00	3466800.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at

Annexure-II

3. Head of Account:

The Non-Recurring expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2018-2019
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The Recurring expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2018-2019
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants-in-Aid General

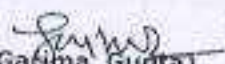
4. Terms & Conditions:

(A) The institute should utilize this Non-Recurring amount within a period of 18 months (B) In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten Percent per annum thereon shall be recovered (C) The ownership of physical and intellectual assets created or acquired out of these funds shall rest with the DBT (D) MOA has been executed

- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV
- 4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further instalment of the grant and/or at the time of Final Settlement of Accounts.
5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Director, National Brain Research Centre, Gurgaon, Haryana and The Registrar, INSTITUTE OF MEDICAL SCIENCES, BHU, Varanasi, Uttar Pradesh would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this

project from time to time.

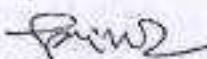
7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.A.20020/11/97-IFD dated on 31 Mar 2010. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
9. If the Research Project involves biological resource, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org
10. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/2132/2018-2019** dated **September, 12 2018**.
11. This sanction order has been noted at serial no. 12 in the Register of Grants.


(Dr. Garima Gupta)
Scientist 'E'

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Dr. Sunit Kumar Singh (Project Co-ordinator), Molecular Biology Unit, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005
- 3 The Director, National Brain Research Centre, NH-8, Manesar, Gurgaon, Gurgaon - 122050, Haryana
- 4 The Registrar, INSTITUTE OF MEDICAL SCIENCES, BHU, DEPT OF MICROBIOLOGY, I.M.S. BHU, Varanasi - 221005, Uttar Pradesh
- 5 Dr. Sunit Kumar Singh, Professor, Molecular Biology Unit, Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi - 221005, Uttar Pradesh
- 6 Prof. Pankaj Seth, Professor, Molecular and Cellular Neuroscience, National Brain Research Centre, NH-8, Manesar, Gurugram, Haryana, Manesar - 122051, Haryana
- 7 Cash Section, DBT (2 copies).
- 8 Sanction Folder.
- 9 File Copy.


(Dr. Garima Gupta)
Scientist 'E'

(14)

No. BT/PR17581/MED/31/333/2016
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 21.03.2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "**Differentiation of fetal neural stem cells to oligodendrocytes - a disease model to decipher the pathogenesis and devise therapeutic strategies for cerebral palsy**" for a period of 2 Year 0 Month at a total cost of **Rs. 4582400** (Rupees Forty Five Lakhs Eighty Two Thousand Four Hundred Only) on the terms and conditions detailed here under:-

The Project :

2.1 Title : Differentiation of fetal neural stem cells to oligodendrocytes - a disease model to decipher the pathogenesis and devise therapeutic strategies for cerebral palsy

2.2 Details of the Investigators:

Principal Investigators:

Dr. Sudip Sen
Assistant Professor
Department of Biochemistry
All India Institute of Medical Sciences, Delhi

Prof. Pankaj Seth
Professor and Scientist VI
Molecular and Cellular Neuroscience (Neurovirology)
National Brain Research Centre (NBRC), NH-8, Manesar, Haryana

CO-PI:

Prof. Parthaprasad Chattopadhyay
Professor
Department of Biochemistry
All India Institute of Medical Sciences
New Delhi - 110029

Prof. Debabrata Ghosh
Professor
Department of Physiology
All India Institute of Medical Sciences,
New Delhi - 110029

Dr. Tapas Chandra Nag
Department of Anatomy
All India Institute of Medical Sciences
New Delhi - 110029

Prof. Jai Bhagwan Sharma
Professor
Department of Obstetrics and Gynaecology
All India Institute of Medical Sciences
New Delhi - 110029

2.3 Objectives:

Overall Objectives:

1. Identify optimal growth conditions to differentiate fetal neural stem cells (FNSCs) into oligodendrocytes (OL) of two broad categories i.e. premyelinating oligodendrocytes and myelinating oligodendrocytes
2. Elucidate appropriate cellular and molecular characteristics to identify different stages of OL specially premyelinating oligodendrocytes and myelinating oligodendrocytes

2.4 Time Schedule:

The duration of the project is 2 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is **Rs. 4582400/-** (Rupees Forty Five Lakhs Eighty Two Thousand Four Hundred Only) as per details given below:

Institute	Year I	Year II	Total Cost (Rs.)
1. All India Institute of Medical Sciences, Delhi	1424400	1150000	2574400
2. National Brain Research Centre	1004000	1004000	2008000
Total (Rs.)	2428400	2154000	4582400

Institute wise details are:

Budget Head	Year I	Year II	Total (Rs.)
1. All India Institute of Medical Sciences, Delhi			
Equipment	374400.00		374400.00
Consumables	950000.00	1050000.00	2000000.00
Travel	30000.00	30000.00	60000.00
Overhead	50000.00	50000.00	100000.00
Contingency	20000.00	20000.00	40000.00
Total (Rs.)	1424400.00	1150000.00	2574400.00
2. National Brain Research Centre			
Manpower	204000.00	204000.00	408000.00
Contingency	50000.00	50000.00	100000.00
Travel	50000.00	50000.00	100000.00
Consumables	700000.00	700000.00	1400000.00
Total (Rs.)	1004000.00	1004000.00	2008000.00

2.6 Equipment

The details of the equipment sanctioned for implementation of the project at **Annexure-I**

2.7 Manpower:

The details of the manpower sanctioned for implementation of the project at **Annexure-II**

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2017-2018
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

ABS/037/1248/092

No. BT/PR27796/MED/29/1301/2018
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 26/12/2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Deciphering Antiviral Properties of Statins against Japanese Encephalitis Virus Infections**" for a period of 2 Year 0 Month at a total cost of Rs. **3000000** (Rupees Thirty Lakhs Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "**Deciphering Antiviral Properties of Statins against Japanese Encephalitis Virus Infections**"

2.2 Details of the Investigators:

Dr. Anirban Basu
Scientist VI
Molecular & Cellular Neuroscience
National Brain Research Centre,
Manesar, Haryana-122052

CO-PI:

Prof. Shiv Kumar Sharma
Scientist VI
Molecular and Cellular Neuroscience
National Brain Research Centre
Manesar, Haryana - 122051

2.3 Objectives:

1. Monitoring the survival pattern of the virus infected mouse models of JEV treated with statins

2.4 Time Schedule:

The duration of the project is 2 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **3000000/-** (Rupees Thirty Lakhs Only) as per details given below :

Budget Head	Year I	Year II	Total(Rs.)
Equipment	1569000.00		1569000.00
Contingency	15500.00	15500.00	31000.00
Consumables	600000.00	800000.00	1400000.00
Total (Rs.)	2184500.00	815500.00	3000000.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at
Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at
Annexure-II

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2018-2019
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2018-2019
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants-in-Aid General

4. Terms & Conditions:

In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest rate at the rate of ten percent thereon shall be recovered.

The equipment sanctioned under the project should be purchased within 18 months from the date of the release of the grant.

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No. BT/PR15984/MED/31/325/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 20.03.2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "**Understanding the therapeutic role of adult stem cell derived exosome in combating virus induced neurodegenerative disease**" for a period of 3 Year 0 Month at a total cost of **Rs. 8138600** (Rupees Eighty One Lakhs Thirty Eight Thousand Six Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : Understanding the therapeutic role of adult stem cell derived exosome in combating virus induced neurodegenerative disease

2.2 Details of the Investigators:

Principal Investigators:

Dr. ARUP BANERJEE

Research Scientist D
Translational Health Science And Technology Institute
NCR Biotech Science Cluster, Faridabad, Haryana, 121001

Dr. ANIRBAN BASU

Additional Professor
Virology
National Brain Research Centre
NH-8, Manesar, Gurgaon, Haryana

Dr. SUJATA MOHANTY

Additional Professor
Stem Cell
All India Institute of Medical Sciences, Delhi
Ansari Nagar, New Delhi - 110029

2.3 Objectives:

1. Investigate in vitro neurogenic potential of the exosomes derived from primary MSCs of two different tissue sources and characterize signatures, specific for exosome subsets that have better neurogenic potential (Most of the part will be done at AIIMS and part will be worked out at NBRC, Manesar).
2. Evaluate in vitro and in vivo if the exosomes that have neurogenic potential can cross BBB (THSTI, Faridabad).
3. Examine if these exosomes have therapeutic value in virus induced neurodegenerative

disease model (NBRC, Manesar).

Institute wise Objectives:

All India Institute of Medical Sciences, Delhi

1. Investigate in vitro neurogenic potential of the exosomes derived from immortalised MSCs of two different tissue sources and characterize signatures, specific for exosome subsets that have better neurogenic potential

National Brain Research Centre

1. Investigate in vitro neurogenic potential of the exosomes derived from immortalised MSCs of two different tissue sources and characterize signatures, specific for exosome subsets that have better neurogenic potential
2. Examine if these exosomes have therapeutic value in virus induced neurodegenerative disease model

Translational Health Science And Technology Institute

1. Evaluate in vitro and in vivo if the exosomes that have neurogenic potential can cross BBB

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is **Rs. 8138600/-** (Rupees Eighty One Lakhs Thirty Eight Thousand Six Hundred Only) as per details given below:

Institute	Year I	Year II	Year III	Total Cost (Rs.)
1. All India Institute of Medical Sciences, Delhi	1050000	800000	796800	2646800
2. National Brain Research Centre	850000	850000	850000	2550000
3. Translational Health Science And Technology Institute	1215000	915000	811800	2941800
Total (Rs.)	3115000	2565000	2458600	8138600

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total (Rs.)
1. Translational Health Science And Technology Institute				
Manpower	390000.00	390000.00	436800.00	1216800.00
Contingency	15000.00	15000.00	15000.00	45000.00
Travel	10000.00	10000.00	10000.00	30000.00
Consumables	800000.00	500000.00	350000.00	1650000.00
Total (Rs.)	1215000.00	915000.00	811800.00	2941800.00
2. All India Institute of Medical Sciences, Delhi				
Manpower	390000.00	390000.00	436800.00	1216800.00
Consumables	650000.00	400000.00	350000.00	1400000.00
Contingency	10000.00	10000.00	10000.00	30000.00
Total (Rs.)	1050000.00	800000.00	796800.00	2646800.00
3. National Brain Research Centre				
Consumables	800000.00	800000.00	800000.00	2400000.00
Contingency	20000.00	20000.00	20000.00	60000.00
Travel	30000.00	30000.00	30000.00	90000.00
Total (Rs.)	850000.00	850000.00	850000.00	2550000.00

2.6 Manpower:

The details of the manpower sanctioned for implementation of the project at Annexure-1

3. Head of Account:

The Recurring expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2017-2018
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants-in-aid General

4. Terms & Conditions:

- 4.1 The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed in Annexure-IV.
- 4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further instalment of the grant and or at the time of Final Settlement of Accounts.
5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
6. The Director, All India Institute of Medical Sciences, New Delhi and The Director, National Brain Research Centre, Gurgaon, Haryana and The Executive Director, Translational Health Science And Technology Institute, Faridabad, Haryana would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets' Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.
7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list or DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-09/2012 dated 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
9. If the Research Project involves biological resource, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaiindia.org
10. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/4806/2017-2018** dated **15.03.2018**.
11. This sanction order has been noted at serial no. 61 in the Register of Grants.

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.


Dr. Niloo Srivastava
(Scientist 'D')

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No BT/Indo-Aus/10/31/2016
Government of India
Ministry of Science & Technology
Department of Biotechnology

Block No.2, 6-8th Floors,
CGO Complex, Lodi Road,
New Delhi - 110 003.

Dated: 24.01.2018

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the Project entitled "**Novel Imaging Diagnostics for Alzheimer's Diseases**", submitted by **Dr. Pravat K Mandal**, Professor & Scientist VI, National Brain Research Center, Manesar, Gurgaon, Haryana at a total cost of **Rs. 151,26,000 (Rupees one Crore fifty one lakhs twenty six thousand Only)** for a period of Three years on the terms and conditions detailed here under.

2.0 The Project

2.1 Project Title

: **Novel Imaging Diagnostics for Alzheimer's Diseases**

2.2 Investigators

(i) Indian Partner

: **Dr. Pravat K Mandal**
National Brain Research Center,
Manesar, Gurgaon,
Haryana -122051

Co-PIs

: **(i) Dr. Anirban Basu**
National Brain Research Center,
Manesar, Gurgaon,
Haryana -122051

Dr. Majari Tripathi

Professor
Department of Neurosurgery
Cardio Thoracic and Neurosciences Center
All India Institute of Medical Sciences, New
Delhi



2.7 Equipments:

The details of the equipments sanctioned for the implementation of the project are given at Annexure-III.

2.7 Project Cost:

The year wise estimated cost of the project is as under:

Budget Details					
Sl. No.	ITEM	I Year	II Year	II Year	Total (Rs. in lakhs)
A.	Non-Recurring	33,68,000	--	--	33,68,000
	Total	33,68,000	--	--	33,68,000
B.	Recurring				85,08,000
✓1.	Personnel (manpower)	✓27,60,000	28,35,000	29,13,000	3,00,000
✓2.	Consumables	1,00,000	1,00,000	1,00,000	--
✓3.	Other costs	--	--	--	7,50,000
	(i) Patient related costs (Patients from AIIMS and NCR region) (MRs. 2000/- per scan)	2,50,000	2,50,000	2,50,000	6,00,000
	(ii) Transportation costs for patients from AIIMS to NBRC (which includes compensation of Rs. 500/- per trip to the patients)	2,00,000	2,00,000	2,00,000	
✓3.	Travel				1,50,000
	i. Domestic travel	50,000	50,000	50,000	7,00,000
	ii. International travel	3,00,000	2,00,000	2,00,000	6,00,000
	(iii) Local hospitality (room rent, per diem, incidental charges) for Australian scientists	2,00,000	2,00,000	2,00,000	
✓4.	Contingency and other cost	50,000	50,000	50,000	1,50,000
	Sub-Total (B)	39,10,000	38,85,000	39,63,000	117,58,000
	Grand Total	72,78,000	38,85,000	39,63,000	151,26,000

[Signature]

No. BT/HRD/DEMENTIA/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi-110 003
Dated: 18/12/2017

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the Project Entitled: "Dementia Science Programme: Incidence/ Prevalence/ Risk/ Intervention analysis of dementia and basic research thereof," for a period of 3 Year 0 Month at a total cost of Rs. 28,16,77,000 (Rupees Twenty Eight Crores Sixteen Lakhs Seventy Seven Thousand Only) on the terms and conditions detailed here under:-

2. The Project:

2.1 Title: "Dementia Science Programme: Incidence/ Prevalence/ Risk/ Intervention analysis of dementia and basic research thereof."

2.2 Details of the Investigators:

Director,
National Brain Research Centre,
NH-8, Manesar, Gurgaon,
Haryana - 122 051, India

Dr Shiv Sharma,
National Brain Research Centre,
NH-8, Manesar, Gurgaon,
Haryana - 122 051, India

Dr N K Arora
Executive Director,
The INCLIN Trust International,
New Delhi

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MBRC

707 = 88

28/6.77

2.3 Objectives:

General Objectives

1. Setting up of 3 long-term population-based cohorts of aging population to understand the process of Dementia in terms of its incidence and prevalence rate;
2. Setting up of 4 hospital based registry to catch the clinically defined Dementia population;
3. Setting up of a Bio-bank Bio-repository at NBRC, Manesar with 7 peripheral sites. The collected samples such as blood, tissues, saliva and other samples will be temporarily stored at peripheral sites and transferred to NBRC for long-term storage. These samples can be used for biomarkers, genomics and proteomics-based studies at a later stage;

4. To conduct basic biology research in order to identify possible risk factors and early diagnostic markers including imaging markers.

Specific Objectives

Specific aspects that can be addressed through population-based cohorts

1. To estimate the prevalence of Dementia in different parts of the country so as to be able to generate a national level estimate.
2. To estimate the incidence of Dementia in different parts of the country to help generate national level estimate.
3. To estimate the prevalence and incidence of different kinds of dementia in the country.
4. To identify the possible risk factors for Dementias in India.
5. To explain the difference in Dementia between different parts of the country based on their risk factor profiles.
6. To distinguish between normal ageing and mild cognitive impairment/early dementia.
7. To study conversion of MCI to dementia, discern that pre-MCI/MCI "window of opportunity" with the possibility of effective intervention, and examine why only a proportion of MCI patients convert to dementia.

Specific aspects that can be addressed through hospital-based cohorts

1. To generate a registry of dementia patients in the country.
2. What is the role of conventional and newer risk factors for cognitive decline and dementia in the Indian context?
3. What are the biological and psychosocial factors that protect or worsen outcome of cognitive decline and dementia in India?

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. 28,16,77,000/- (Rupees Twenty Eight Crores Sixteen Lakhs Seventy Seven Thousand Only) as per details given below:

S. no	Recurring Head	Year I	Year II	Year III	Total
1.	Equipment	345.22	29.90	36.58	411.70
2.	Manpower	364.39	682.85	335.32	1382.56
3.	Travel	33.00	98.55	6.00	137.55
4.	Laboratory Charges Tests/ Quality assurance and supervision	36.28	220.00	64.00	320.28
5.	Direct Cost	74.80	26.00	20.32	121.12
6.	Workshop/ Training Advisory Programme	45.00	36.00	13.65	94.65

ORDER

Sub: Financial approval of the project under Cognitive Science Research Initiative (CSRI) entitled "Oscillatory network dynamics in perceptual learning"

Pl: Dr. Dipanjan Roy, Associate Professor, National Brain Research Centre, Manesar-122051, Haryana.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of ₹50,55,482/- (Rupees Fifty Lac Fifty Five Thousand Four Hundred Eighty Two only) with a break up of ₹27,96,842/- under 'Capital Head' and ₹22,58,640/- under 'General Head' for a duration of Three years. The items of expenditure for which the total allocation of ₹50,55,482/- has been approved for Three years are given below:

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
	Equipment- Computer , EYELINK 1000Plus Eye Tracker with accessories	27,96,842/-	-----	-----	27,96,842/-
B.	Recurring (General)				
	Fellowship: RA-1 @ Rs. 32,000/M for 3 years + HRA @20% + Project Assistant @ 25,000/- (Consolidated) for 1 year	4,60,800/-	7,60,800/-	4,60,800/-	16,82,400/-
	Consumables	60,000/-	60,000/-	60,000/-	1,80,000/-
	Contingencies	40,000/-	30,000/-	30,000/-	1,00,000/-
	Travel	40,000/-	30,000/-	30,000/-	1,00,000/-
C.	Overhead	56,080/-	85,080/-	55,080/-	1,96,240/-
D.	Total of Recurring Grant (B+C)	6,56,880/-	9,65,880/-	6,35,880/-	22,58,640/-
E.	GRAND TOTAL (A+D)	34,53,722/-	9,65,880/-	6,35,880/-	50,55,482/-

- Overhead expenses are meant for the host institute towards the cost for providing infrastructure facilities and benefits to the staff engaged in the project, etc. Recruitment of RA will be done as per OM N SR/S9/Z-09/2012 dated 21.10.2014.
- Sanction of the grant is subject to the conditions as detailed in website www.dst.gov.in.
- Sanction of the President is accorded to the payment of ₹6,56,880/- (Rupees Six Lac Fifty Six Thousand Eight Hundred Eighty only) under 'Grant-in-aid General' to the Director, National Brain Research Centre, Manesar-122051 being first installment of grant for the year 2017-2018 for implementation of the said research project.
- The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. The interest earned / accrued should be reported to DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the grantee organization, which will be adjusted towards future release of grant.
- This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
- The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

8. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

9. The grant-in-aid being released is subject to the condition that:

(a) A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/ Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

(b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grant under the project shall be considered only on receipt of the said document.

10. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

11. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

12. Principal Investigator (PI) is directed to acknowledge "research grant" in all publications emerging out of this particular project. For example, "Authors acknowledge Department of Science and Technology, Government of India for financial support vide Reference No. under Cognitive Science Research Initiative (CSRI) to carry out this work."

13. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

14. The expenditure involved is debatable to:

Demand No. 84	Department of Science & Technology
3425	Other Scientific Research (Major Head)
60	Others (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
68	Science and Technology Institutional and Human Capacity Building (Sub Head)
68.00	Science and Technology Institutional and Human Capacity Building
68.00.31	Grants-in-aid General for the year 2017-2018 (Voted)

This release is being made Science and Technology Institutional and Human Capacity Building Scheme.

(Previous: Research & Development Support 3425.60.200.25.01.31)

15. The amount of ₹6,56,880/- (Rupees Six Lac Fifty Six Thousand Eight Hundred Eighty only) only as recurring grant will be drawn by the Drawing and Disbursing Officer of the Department of Science & Technology and will be disbursed to the Director, National Brain Research Centre, Manesar-122051 by means of electronic transfer as per the details given below:

Institute Name : National Brain Research Centre
 Bank name : Axis Bank Ltd
 Account No. : 056010100453998
 Branch : Sector-14, Gurgaon
 IFSC Code : UTIB0000056

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 128 in the register of grants maintained in the Research & Development.

17. This issues with the concurrence of IFD Vide their Concurrence Dy.No/2032/2017-18 dated 16.08.2017.


 (Vandana Singh)
 Scientist-D

Copy forwarded for information and necessary action to:-

1. The Director of Audit (CW & M-II), AGCR Building, IP Estate, New Delhi-110 002.
2. Copy with two spare copies of the sanction to the DDO, DST Cash Section.
3. The Director, National Brain Research Centre, Manesar-122051.
4. Dr. Diparjan Roy, Associate Professor, National Brain Research Centre, Manesar-122051, Haryana.
5. Pay & Accounts Officer, DST, New Delhi.
6. Sanction Folder.
7. IFD, DST, New Delhi.


 (Vandana Singh)
 Scientist-D

(20)

No.SR/CSRI/80/2016(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhavan
New Mehrauli Road
New Delhi-110 016
Dated-22.11.2017

ORDER

Sub: Financial approval of the project under Cognitive Science Research Initiative (CSRI) entitled "The neurobiology of dyslexia: integrating brain and behavior"

PI: Dr Nandini C Singh, Professor, Cognitive Science and Neuroimaging, National Brain Research Centre, Manesar-122051, Gurgaon.

Co-PI: Dr. Smita N Deshpande, Consultant Professor & Head, Department of Psychiatry & Drug De-addiction, PGIMER-Dr Ram Manohar Lohia, Hospital, New Delhi-110001.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of ₹62,94,330/- (Rupees Sixty Two Lac Ninety Four Thousand Three Hundred Thirty only) with a break up ₹8,97,500/- under 'Capital Head' and ₹53,96,830/- under 'General Head' for a duration of Three years. The items of expenditure for which the total allocation of ₹62,94,330/- has been approved for Three years are given below:

Total Budget: Yearwise Break-up

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
	Equipment- Fujitsu Celsius M740, R940- Workstations, Laptop-3, Printer, Tab E, Microphone, Headphones-2, Software-License, Computer-1	8,97,500/- ✓	-----	-----	8,97,500/-
B.	Recurring (General)				
	Salaries (JRF-3)	11,70,000/-	11,70,000/-	13,10,400/-	36,50,400/-
	Consumables	2,70,000/-	2,70,000/-	2,60,000/-	8,00,000/-
	Contingencies	80,000/-	60,000/-	60,000/-	2,00,000/-
	Travel	80,000/-	60,000/-	60,000/-	2,00,000/-
C.	Overhead	1,84,750/-	1,79,000/-	1,82,680/-	5,46,430/-
D.	Total of Recurring Grant (B+C)	17,84,750/- ✓	17,39,000/-	18,73,080/-	53,96,830/-
E.	GRAND TOTAL (A+D)	26,82,250/-	17,39,000/-	18,73,080/-	62,94,330/-

Prof. Nandini Singh, NBRC, Manesar

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
	Equipment- Fujitsu Celsius M740, R940-Workstations, Laptop-3, Printer, Tab E, Microphone, Headphones-2, Software-License	8,50,000/-	-----	-----	8,50,000/-
B.	Recurring (General)				
	Fellowship: JRF (Statistics)- 1 + JRF (Clinical Psychologist)-1 @ Rs. 25,000/M for 1 st and 2 nd year & 28,000/M for 3 rd year +HRA @ 30%	7,80,000/-	7,80,000/-	8,73,600/-	24,33,600/-
	Consumables (including allowances of participants)	1,50,000/-	1,50,000/-	1,50,000/-	4,50,000/-
	Contingencies	✓40,000/-	30,000/-	30,000/-	1,00,000/-
	Travel	✓40,000/-	30,000/-	30,000/-	1,00,000/-
C.	Overhead	✓1,25,000/-	1,25,000/-	1,25,000/-	3,75,000/-
D.	Total of Recurring Grant (B+C)	11,35,000/-	11,15,000/-	12,08,600/-	34,58,600/-
E.	GRAND TOTAL (A+D)	19,85,000/-	11,15,000/-	12,08,600/-	43,08,600/-

ORDER

Sub: Financial approval of the project under Cognitive Science Research Initiative (CSRI) entitled "Insights into role of a dyslexia linked long non-coding RNA (lncRNA) in human neural stem cell differentiation"

PI: Dr Pankaj Seth, Professor, Molecular and Cellular Neurosciences, Neurovirology Section, National Brain Research Centre, Manesar-122051, Gurgaon.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of ₹65,24,400/- (Rupees Sixty Five Lac Twenty Four Thousand Four Hundred only) with a break up ₹10,00,000/- under 'Capital Head' and ₹55,24,400/- under 'General Head' for a duration of Three years. The items of expenditure for which the total allocation of ₹65,24,400/- has been approved for Three years are given below:

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
✓	Equipment- Bioruptor	10,00,000/-	-----	-----	10,00,000/-
B.	Recurring (General)				
✓	Fellowship RA-1 @ Rs 38,000/M for 3 years +HRA @ 30% + Lab Attendant @Rs 18,500/-	8,14,800/-	8,14,800/-	8,14,800/-	24,44,400/-
✓	Consumables	8,00,000/-	8,00,000/-	8,00,000/-	24,00,000/-
✓	Contingencies	40,000/-	30,000/-	30,000/-	1,00,000/-
✓	Travel	40,000/-	30,000/-	30,000/-	1,00,000/-
C.	Overhead	1,60,000/-	1,60,000/-	1,60,000/-	4,80,000/-
D.	Total of Recurring Grant (B+C)	18,54,800/-	18,34,800/-	18,34,800/-	55,24,400/-
E.	GRAND TOTAL (A+D)	28,54,800/-	18,34,800/-	18,34,800/-	65,24,400/-

2. Overhead expenses are meant for the host institute towards the cost for providing infrastructure facilities and benefits to the staff engaged in the project, etc. Recruitment of RA will be done as per OM No. SR/SR/Z-09/2012 dated 21.10.2014.

3. Sanction of the grant is subject to the conditions as detailed in website www.dst.gov.in.

4. Sanction of the President is accorded to the payment of ₹18,54,800/- (Rupees Eighteen Lac Fifty Four Thousand Eight Hundred only) under 'Grant-in-aid General' to the Director, National Brain Research Centre, Manesar-122051, Gurgaon being first installment of grant for the year 2017-2018 for implementation of the said research project.

5. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. The interest earned / accrued should be reported to DST (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the grantee organization, which will be adjusted towards future release of grant.

6. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

7. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final instalment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

Conid.p/-2

22

SB/S2/JCB-067/2016
SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
(a statutory body of the Department of Science & Technology)

5 & 5A, Lower Ground Floor,
Vasant Square Mall,
Plot No. A, Community Centre,
Sector-5, Pocket-5,
Vasant Kunj,
New Delhi-110070

Dated: 02nd February, 2017

ORDER

Subject :- Financial sanction of the award of J.C Bose fellowship to Prof. Subrata Sinha, Director, National Brain Research Centre, NH-8, Near NSG Campus, Nainwal Mode, Manesar Gurgaon-122050, Haryana.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned fellowship at a total cost of Rs.95,00,000/- (Rupees Ninety five lakh only) with break-up of Rs.NIL under Non-Recurring and Rs.95,00,000/- under Recurring for a duration of five years. The items of expenditure for which the total allocation of Rs.95,00,000/- has been approved for a period of five years, are given below: (Amount in Rs.)

HEAD	Ist YEAR	IInd YEAR	IIIrd YEAR	IVth YEAR	Vth YEAR	TOTAL
Non-recurring	NIL	NIL	NIL	NIL	NIL	NIL
Recurring Items						
Fellowship @ Rs.25,000/- p.m.	3,00,000	3,00,000	3,00,000	3,00,000	3,00,000	15,00,000
Research Grant	15,00,000	15,00,000	15,00,000	15,00,000	15,00,000	75,00,000
Overhead Charges	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000	5,00,000
TOTAL	19,00,000	19,00,000	19,00,000	19,00,000	19,00,000	95,00,000

- Sanction of the SERB is also accorded to the payment of Rs.5,00,000/- (Rupees Five lakh only) under **Recurring** being the grant for the year 2016-17 for implementation of the above said fellowship.
- The expenditure involved is debitable to Fund for Science & Engineering Research (FSER). This release is being made under J.C Bose fellowship.
- The sanction has been issued with the approval of competent authority under delegated powers and vide Diary No SERB/F/7872/2016-17 dated 03-02-2017.
- Sanction of the grant is subject to the condition as detailed in Terms & Conditions available at website (www.serb.gov.in) and as per J.C Bose fellowship guidelines.
- Overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the fellowship.
- The total release amount of Rs.5,00,000/- (Rupees Five lakh only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	National Brain Research Center
Account Number	056010100453998
Bank Name & Branch	Axis bank Ltd. SCO-29, Sec-14, Gurgaon-122001
IFSC/RTGS Code	UTIB0000056
Email address of PI	director@nbrc.ac.in; subrata.sinha@nbrc.ac.in; admin@nbrc.ac.in
Email address of concerned officer	p.mohantv@serb.gov.in

MD

Contd...2

8. As per rule 211 of GFR, the accounts of fellowship shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
9. The institute will furnish to the SERB, New Delhi, Utilization certificate and an audited statement of accounts pertaining to the grant immediately after the end of each financial year i.e. 31st March.
10. Date of Start of the fellowship will be after the date of Sanction Order and within three months of the same.
11. The manpower sanctioned in the fellowship, if any is co-terminus with the duration of the fellowship and SERB will have no liability to meet the fellowship etc. beyond the duration of the fellowship.
12. The sanctioned equipments would be procured as per GFR 2005 and its disposal would be done with prior approval of SERB.
13. The unspent balance, if any, may be returned to SERB through DD in favour of "Fund for Science & Engineering Research" payable at New Delhi, within one month from the Date of completion of the project.
14. As this is the first grant being released for the fellowship, no previous U/C is required.
15. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
16. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/ program funded by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India.


(Dr. Pravakar Mohanty)
Scientist-C

To,
Finance & Budget Officer,
SERB, New Delhi.

Copy forwarded for information and necessary action to:-

1. The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi - 110002
2. Sanction Folder, SERB New Delhi.
3. File copy.

4. Mr. T. Bhattacharyya,
Chief Administrative Officer,
National Brain Research Centre,
NH-8, Near NSG Campus, Nainwal Mode, Manesar, Gurgaon-122050, Haryana

- Kindly send receipt of the grant by post

5. Prof. Subrata Sinha
Director,
National Brain Research Centre,
NH-8, Near NSG Campus, Nainwal Mode, Manesar, Gurgaon-122050, Haryana

- For guidance, terms & Condition etc. please visit www.serb.gov.in and also intimate the start date by post.


(Dr. Pravakar Mohanty)
Scientist-C

FILE NO. PDF/2016/000800

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(a statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 15-Nov-2016

ORDER

Subject: Financial Sanction under National Post-Doctoral Fellowship to Dr. Akansha Jaiswal, under the mentorship of Prof. Subrata Sinha, at National Brain Research Centre, NH-8, Manesar, Gurgaon, Gurgaon, Haryana-122051- Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned fellowship at a total cost of Rs. 19,20,000/- (Rs. Nineteen Lakh Twenty Thousand Only) for a duration of Two years.

The date of start of the fellowship will be 28 September, 2016

The items of expenditure for which the total allocation of Rs. 19,20,000/- has been approved are given below.

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 13,20,000 (@65,000/- per month (consolidated))
2.	Research Grant	Rs. 2,00,000/- per annum
3.	Overheads	Rs. 1,00,000/- per annum

2. Sanction of the SERB is also accorded to the payment of Rs. 9,50,000/- (Rupees Nine Lakh Sixty Thousand only) under 'Grants-in-aid General' to National Brain Research Centre, NH-8, Manesar, Gurgaon, being the first installment of the grant for the year 2016-2017 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under National Post Doctoral Fellowship (N-PDF), (Life Sciences)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/5806/2016-17 dated 12 November, 2016.

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 9,50,000/- (Rupees Nine Lakh Sixty Thousand only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below.

Account Name	National Brain Research Centre
Account Number	086010100453008
Bank Name & Branch	Axis Bank Ltd. Branch Name SCO-29, Sec-14 Address SCO-29, Old Delhi Gurgaon Road, Near HUDA office, Sec-14, Gurgaon -122001
IFSC/RTGS Code	UTIB0000056
Email id of A/C Holder	finance@nbrc.ac.in
Email id of PI	akansha.bt@gmail.com

Email id of Mentor	sub_sinha@hotmail.com
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9. The institute will furnish Utilization certificate(UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

11. The File no. PDF/2015/000800 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

(Dr. Thangaradjou T)
Scientist E
ttradjou@serb.gov.in

To,
Finance & Budget Officer
SERB, New Delhi

Copy forwarded for information and necessary action to :-

1.	The Principal Director of Audit, A.G.C.R. Building, 3rd Floor, I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Akansha Jajota Department of Biochemistry, AIIMS National Brain Research Centre, NH-8, Manesar, Gurgaon, Gurgaon, Haryana-122051 Email: akansha.bt@gmail.com Mobile: 919582385910 Prof. Subrata Sinha Director National Brain Research centre National Brain Research Centre, NH-8, Manesar, Gurgaon, GURGAON-122051 sub_sinha@hotmail.com (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	Director, National Brain Research Centre, NH-8, Manesar, Gurgaon (Receipt of Grant may be intimated by name to the undersigned)

(Dr. Thangaradjou T)
Scientist E

FILE NO. PDF/2015/001060
SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 08-Aug-2016

ORDER

Subject: Financial Sanction under National Post-Doctoral Fellowship to Miss. Poonam Meena, under the mentorship of Prof. Shiv Kumar Sharma, at National Brain Research Centre, Nh-8, Manesar, Gurgaon, Gurgaon, Haryana-122051-Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned fellowship at a total cost of Rs. 14,40,000/- (Rs. Fourteen Lakh Forty Thousand Only) for a duration of Two years.
The date of start of the fellowship will be 07 June, 2016.
The items of expenditure for which the total allocation of Rs. 14,40,000/- has been approved are given below:

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 8,40,000 (@35,000/- per month (consolidated))
2.	Research Grant	Rs. 2,00,000/- per annum ✓
3.	Overheads	Rs. 1,00,000/- per annum ✓

2. Sanction of the SERB is also accorded to the payment of Rs. 5,40,000/- (Rupees Five Lakh Forty Thousand only) under 'Grants-in-aid General' to National Brain Research Centre, NH-8, Manesar, Gurgaon, being the first installment of the grant for the year 2016-2017 for implementation of the said research project.

3. The expenditure involved is debitable to
Fund for Science & Engineering Research (FSER)
This release is being made under National Post Doctoral Fellowship (N-PDF). (Life Sciences)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. SERB/F/2927/2016-17 dated 06 August, 2016

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 5,40,000/- (Rupees Five Lakh Forty Thousand only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	National Brain Research Centre
Account Number	056010100453998
Bank Name & Branch	Axis Bank Ltd Axis Bank Limited, Sco 29, Old Delhi Gurgaon Road Near HUDA office Sector 14, Gurgaon PIN 122001
IFSC/RTGS Code	UTIB0000056
Email id of A/C Holder	finance@nbrc.ac.in
Email id of PI	poonam.acbr@gmail.com
Email id of Mentor	sharmas@nbrc.ac.in

9. The institute will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

11. The File no. PDF/2015/001060 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

DBT - Netherlands

BT/IN/Netherlands/03/KP/2012
Government of India
Ministry of Science & Technology
Department of Biotechnology

By speed Post.

Block 2, 7th Floor
CGO Complex, Lodi Road
New Delhi - 110 003
Dated 21/11/2015

ORDER

In continuation of this Department's sanction order of even number dated 07th August, 2015, Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Power Rules, 1978 for the re-allocation of budget to CRHSP, Ballabgarh and NBRC, Manesar towards the recurring and non-recurring head for the Indian component of the joint project titled "Unravelling the causes of stroke and cognitive decline in general population: A cross-cultural perspective" by Dr. Kameshwar Prasad, Professor and Head, Department of Neurology, All India Institute of Medical Sciences, New Delhi - 110029 as the Indian investigator, as per the break up given below:

*Comprehensive Rural Health Services Project (CRHSP), Ballabgarh has been approved as rural site for the cohort study, as per details below.

Site -2 CRHSP, Ballabgarh, Haryana

(Rs. in lakhs)

Sl #	Item	Year III	Year IV	Year V	Year VI	Year VII	Year VIII	Total
A.	Non-Recurring							
1.	Equipments	80.00	--	--	--	--	--	80.00
B.	Recurring							
1.	Travel*							
	- Domestic	1.28	1.28	1.28	1.28	1.28	1.28	7.68
	- International	6.15	--	--	--	--	--	6.15
	- Local hospitality for visiting scientist	--	--	--	--	--	--	--
2.	Consumables	129.00	128.00	128.00	65.00	65.00	65.00	580.00
3.	Contingency	1.50	1.50	1.50	1.50	1.50	1.50	9.00
	Total B	136.93	129.78	129.78	66.78	66.78	66.78	602.83
C.	Manpower**							
1.	Total C	98.73	98.73	98.73	98.73	98.73	98.73	592.38
	TOTAL (A+B+C)	315.66	328.51	328.51	165.51	165.51	165.51	1269.23
	Overheads	5.00	5.00	5.00	5.00	5.00	5.00	30.00
	GRAND TOTAL	320.66	333.51	333.51	170.51	170.51	170.51	1305.23

NBRC, Manesar, Haryana

(Rs. in lakhs)

Sl #	Item	Year III	Year IV	Year V	Year VI	Year VII	Year VIII	Total
A.	Non-Recurring							
1.	Equipments	10.00	--	--	--	--	--	10.00
B.	Recurring							
1.	Travel	1.00	1.00	1.00	1.00	1.00	1.00	6.00
2.	Contingency	0.50	0.50	0.50	0.50	0.50	0.50	3.00
	Total B	1.50	1.50	1.50	1.50	1.50	1.50	9.00
C.	Manpower**							
1.	Total C	9.11	9.11	9.11	9.11	9.11	9.11	54.66
	TOTAL (A+B+C)	20.61	10.61	10.61	10.61	10.61	10.61	73.66

(26)
DPR/DBT/0616/087

No. BT/RLF/Re-entry/07/2014
Government of India
Ministry of Science & Technology
Department of Biotechnology

Block No. 2, 6-8th Floors
CGO Complex, Lodi Road,
New Delhi - 110 003.

Dated: 29th June, 2016.

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978, for the implementation of the Project proposal entitled "**Role of default mode brain network in normal cognitive functions.**" by **Dr. Dipanjan Roy, Centre of Behavioural and Cognitive Sciences, Senate Campus, University of Allahabad, Allahabad-211002** at a total cost of Rs. 88.00 lakhs (Rupees Eighty eight Lakhs only) as a part of his Ramalingaswami Fellowship 2014-15 w.e.f. 26th May, 2016 on the terms and conditions detailed as per under:-

2.0 The Project

2.1 Project Title: "Role of default mode brain network in normal cognitive functions."

2.2 Investigator

Name of the Awardee : **Dr. Dipanjan Roy**
Centre of Behavioural and Cognitive Sciences,
Senate Campus, University of Allahabad,
Allahabad-211002

Objectives

1. Classification of large scale correlated and anti-correlated functional resting brain networks using statistical techniques.
2. Large scale modeling to understand suppression in default mode networks.
3. Interaction between default mode and remaining cognitive networks
4. Information capacity and efficiency in default mode and goal directed networks.

2.3 Time Schedule

The duration of the fellowship is 5 years w.e.f. 26th May, 2016.

2.4 Fellowship Amount

	(Rs. in Lakhs)						
	1 st Yr.	2 nd Yr.	3 rd Yr.	4 th Yr.	5 th Yr.	Total	
Fellowship@ Rs.85,000/ p.m (consolidated)	10.20	10.20	10.20	10.20	10.20	51.00	
Research/Contingency grant	10.00	7.50	5.00	5.00	5.00	32.50	
HRA @ Rs. 7,500 p.m. consolidated	0.90	0.90	0.90	0.90	0.90	4.50	
Total	21.10	18.60	16.10	16.10	16.10	88.00	

2.5 The contingency/research grant may be utilized for the purchase of consumables, minor equipment, international and domestic travel, engaging manpower and other contingent expenditure to be incurred in connection with the implementation of the project.

3. a) If the host institute is providing free accommodation, no House Rent Allowance (HRA) is admissible and same needs to be refunded to the department.
- b) If the host institute is deducting HRA and license fee for the accommodation provided, then the same may be recovered from the HRA being paid to the fellow. However, reimbursement

(Signature)

shall be limited to the HRA being paid by DBT. Excess recovery, if any, has to be made by the host institute directly from the fellow.

4. As regards the medical benefits, host institute may consider giving medical benefits from their own resources at level of Scientist 'D' as applicable to their regular faculty
5. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered.

6. **Budget Head**

The expenditure involved is debitable to

Demand No. 79

3425

3425.60

3425.60.200

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3425.60.200.29.17

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Department of Biotechnology

Other Scientific Research (2016-2017)

Other (Sub Major Head)

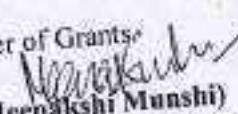
Assistance to other Scientific Bodies (Minor Head)

Biotechnology Research and Development

Assistance for Research and Development

Grants-in-aid General

7. The Accounts of the grantee institution shall be open to inspection by the sanctioning authority/ audit.
8. The Registrar, University of Allahabad, Allahabad-211002 is requested to furnish to this Department 'Utilization Certificate' and an audited 'Statement of Expenditure' at the end of the year.
9. This issues under the powers delegated to this Department and with the concurrence of IFD vide their SAN No. 102/IFD/SAN/1307/2016-17 dated:29-6-2016.
10. This sanction order has been noted at Serial No. _____ in the Register of Grants.

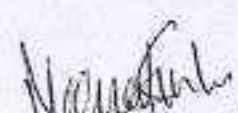

(Meenakshi Munshi)
Director/Scientist 'F'

To,

The Pay & Accounts Officer
Department of Biotechnology
New Delhi -110003

Copy forwarded for information/ necessary action to:

1. The Principal Director of Audit (Scientific Departments), AGCR Building, IP Estate, New Delhi - 110 002.
2. Cash Section, DBT (2 copies)
3. IFD, DBT
4. Dr. Dipanjan Roy, Centre of Behavioural and Cognitive Sciences, Senate Campus, University of Allahabad, Allahabad-211002.
5. The Registrar, University of Allahabad, Allahabad-211002.
6. The Finance Officer, University of Allahabad, Allahabad-211002
7. Sanction Folder


(Meenakshi Munshi)
Director/Scientist 'F'

(27)

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No. BT/PR14071/GET/119/36/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 11/01/2016

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: **“CRISPRi system: A toolbox to investigate novel regulatory mechanisms of synapse formation by long non-coding RNAs”** for a period of 3 Year 0 Month at a total cost of Rs. **7419400** (Rupees Seventy Four Lakhs Nineteen Thousand Four Hundred Only) on the terms and conditions detailed here under:-

2. The Project :

2.1 Title : **“CRISPRi system: A toolbox to investigate novel regulatory mechanisms of synapse formation by long non-coding RNAs”**

2.2 Details of the Investigators:

Dr. Sourav Banerjee

PI

Cellular and Molecular Neuroscience
National Brain Research Centre
National Brain Research Center, NH-8,
Nainwal Mode, Near NSG
Campus, Haryana, 122051

Dr. SOURAV BANERJEE

Scientist IV

Molecular Cellular Neuroscience
National Brain Research Centre
National Brain Research Center, NH-8,
Nainwal Mode, Manesar,
Manesar, Haryana, 122050

CO-PI:

Dr. Anindya Ghosh Roy

Scientist IV

Molecular
National Brain Research Centre
National Brain Research Center, NH-8, Nainwal
Mode, Manesar, Manesar - 122050, Haryana

Generated through ePromIS

2.3 Objectives:

1. Screening of differentially expressed lncRNAs during the window of synapse formation in vertebrate brain.
2. Identification of the role of candidate lncRNAs in synapse formation.
3. Analysis of downstream effectors of the lncRNA-mediated gene expression programs involved in synapse formation.
4. Investigation of molecular mechanisms involved in synapse formation by lncRNAs in vivo.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **7419400/-** (Rupees: Seventy Four Lakhs Nineteen Thousand Four Hundred Only) as per details given below:

Budget Head	Year I	Year II	Year III	Total (Rs.)
Equipment	2971000.00			2971000.00
Manpower	652800.00	652800.00	652800.00	1958400.00
Overhead	50000.00	50000.00	50000.00	150000.00
Travel	50000.00	20000.00	20000.00	90000.00
Consumables	700000.00	700000.00	700000.00	2100000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	4473800.00	1472800.00	1472800.00	7419400.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

20A/057/0916/070

FILE NO. EMR/2015/001422

SCIENCE & ENGINEERING RESEARCH BOARD

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 23-Sep-2016

ORDER

Subject: Financial Sanction of the research project titled "Effects of the δ -Opioid Receptor System on Singing and Song Learning in Zebra Finches" under the guidance of Dr. Soumya Iyengar, Department of Systems Neuroscience, National Brain Research Centre, Nh-8, Manesar, Gurgaon, Gurgaon, Haryana-122051 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 3743000/- (Rs. Thirty Seven Lakh Forty Three Thousand Only) with break-up of Rs. 0/- under Capital (Non-recurring) head and Rs. 3743000/- under General (Recurring) head for a duration of Three years. The items of expenditure for which the total allocation of Rs. 3743000/- has been approved are given below:

The following budget may be considered for National Brain Research Centre, NH-8, Manesar, Gurgaon

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment	0
A'	Total (Non-Recurring)	0
B	Recurring Items	
1	Recurring - A : (Manpower, Consumables, Travel, Contingencies)	3466000
2	Recurring - B : (Overhead Charges)	277000
B'	Total (Recurring)	3743000
C	Total cost of the project (A' + B')	3743000

1 story - 30.000
 Travel - 92.300
 Overhead - 30.000
 Contingency

1154700
 92300

Project Name - Singing and Song Learning in Zebra Finches

2. Sanction of the SERB is also accorded to the payment of

- and Rs. 1247000/- (Rupees Twelve Lakh Forty Seven Thousand only) under 'Grants-in-aid General' to Director, NBRC, National Brain Research Centre, NH-8, Manesar, Gurgaon

being the first installment of the grant for the year 2016-2017 for implementation of the said research project.

3. The expenditure involved is debitable to Fund for Science & Engineering Research (FSER)

This release is being made under Extra Mural Research Funding (Individual Centric). (PAC Animal Sciences)

4. The Sanction has been issued to National Brain Research Centre, NH-8, Manesar, Gurgaon with the approval of the competent authority under delegated powers on 19 September, 2016 and vide Diary No. SERB/F/4444/2016-17 dated 23 September, 2016

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

9. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

10. The release amount of Rs. 1247000/- (Rupees Twelve Lakh Forty Seven Thousand only) will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	National Brain Research Centre
Account Number	056010100453998
Bank Name & Branch	Axis Bank, Ltd. Sector-14, SCO-29 Old Delhi-Gurgaon Road, Near HUDA Office, Sector-14, Gurgaon, Haryana - 122001
IFSC/RTGS Code	UTIB0000056
Email id of A/C Holder	finance@nbrc.ac.in
Email id of PI	soumya@nbrc.ac.in

(29)

No. SR/CSRI/229/2014 (G)
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhavan
New Mehrauli Road
New Delhi-110 016
Dated-11.05.2016

ORDER

Sub: Financial approval of the project under Cognitive Science Research Initiative (CSRI) entitled "Construction of an Indian population specific brain template"

PI: Dr. Pravat K Mandal, Professor, Neuroimaging and Neurospectroscopy, National Brain Research Centre, Manesar, Haryana-122051.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of ₹26,12,000/- (Rupees Twenty Six Lac Twelve Thousand only) for a duration of Three years. The items of expenditure for which the total allocation of ₹ 26,12,000/- (recurring) has been approved for Three years are given below:

Sl. No.	Heads	1 st Year	2 nd Year	3 rd Year	Total
A.	Non-Recurring (Capital Items)				
	Equipment- NIL				
B.	Recurring (General)				
	Fellowship: R&D Engineer-1@ ₹ 45,000/M (Consolidated)	5,40,000/-	5,40,000/-	5,40,000/-	16,20,000/-
	Contingencies	40,000/-	30,000/-	30,000/-	1,00,000/-
	Travel (including travel expenses of subjects)	80,000/-	60,000/-	60,000/-	2,00,000/-
	Other Costs (for compensation of imaging and scan quality Assessment)	2,00,000/-	2,00,000/-	1,00,000/-	5,00,000/-
C.	Overhead	64,000/-	64,000/-	64,000/-	1,92,000/-
D.	Total of Recurring Grant (B+C)	9,24,000/-	8,94,000/-	7,94,000/-	26,12,000/-
E.	GRAND TOTAL (A+D)	9,24,000/-	8,94,000/-	7,94,000/-	26,12,000/-

2. Overhead expenses are meant for the host institute towards the cost for providing infrastructure facilities and benefits to the staff engaged in the project. etc.

3. Sanction of the grant is subject to the conditions as detailed in website www.dst.gov.in.

4. Sanction of the President is accorded to the payment of ₹ 9,24,000/- (Rupees Nine Lac Twenty Four Thousand only) as first installment of recurring grant as per following budget head during the year 2016-17.

5. Demand No.77 Department of Science & Technology
3425 Other Scientific Research (Major Head)
60 Others (Sub-Major Head)
60.200 Assistance to other Scientific Bodies (Minor Head)
25 Grants-in-aid for Research & Development Support
25.01 Research & Development Support
25.01.31 Grants-in-aid General for the year 2016-2017 (Plan Expenditure- General)
This release is being made Research & Development Support Scheme

Contd. p.

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DPR/DSR/0615/064

No.SR/CSRI/PDF-13/2014
Government of India
Ministry of Science & Technology
Department of Science & Technology

Technology Bhavan
New Mehrauli Road
New Delhi-110 016
Dated-02.06.2015

ORDER

Sub: Financial approval of the PDF project under Cognitive Science Research Initiative (CSRI) entitled "A critical assessment of the dual stream models of visual information processing"

PI: Dr. Dipanjoy Ray, Cognitive Brain Lab, National Neuroimaging Facility, National Brain Research Centre, Manesar, NH-8, Gurgaon-122051.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of ₹ 18,56,000/- (Rupees Eighteen Lac Fifty Six Thousand only) for duration of Two years. The items of expenditure for which the total allocation of ₹ 18,56,000/- has been approved for Two years are given below:

Heads	1 st Year	2 nd Year	Total
Fellowship @Rs.55,000/M	6,60,000/-	6,60,000/-	13,20,000/-
Research Grant	2,00,000/-	2,00,000/-	4,00,000/-
Total	8,60,000/-	8,60,000/-	17,20,000/-
Overhead	68,000/-	68,000/-	1,36,000/-
GRAND TOTAL	9,28,000/-	9,28,000/-	18,56,000/-

2. Overhead expenses are meant for the host institute towards the cost for providing infrastructure facilities and benefits to the staff engaged in the project, etc.

3. Sanction of the grant is subject to the conditions as detailed in website www.dst.gov.in.

4. Sanction of the President is accorded to the payment of ₹ 9,28,000/- (Rupees Nine Lac Twenty Eight Thousand only) to the Director, National Brain Research Centre, Manesar, NH-8, Gurgaon-122051 being first installment of grant for implementation of the said above project during the year 2015-2016.

5. Demand No.86 Department of Science & Technology
3425 Other Scientific Research (Major Head)
60 Others (Sub-Major Head)
60.200 Assistance to other Scientific Bodies (Minor Head)
25 Grants-in-aid for Research & Development Support
25.01 Research & Development Support
25.01.31 Grants-in-aid General for the year 2015-2016 (Plan Expenditure- General)
This release is being made Research & Development Support Scheme.

6. The Sanction has been issued under the powers delegated to the Ministries and with the concurrence of IF Division of Department of Science & Technology vide their Concurrence Diary No. C/1024 / IFD/2015-16 dated 27.05.2015.

7. As per rule 212 (I) of GFRs, the institute will furnish to the DST, Utilization certificate and an audited statement of accounts pertaining to the grant immediately after the end of the each financial year. As this is the first grant being released for the project, no previous U/C is required.

Contd.p/-2

No. BT/PR8793/AGR/36/749/2013
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
 CGO Complex, Lodhi Road,
 New Delhi- 110 003
 Dated: / /

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: **“Regulation of energy metabolism by miRNA-mediated control of neurogenesis”** for a period of 3 Year 0 Month at a total cost of Rs. **7809600** (Rupees Seventy Eight Lakhs Nine Thousand Six Hundred Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : **“Regulation of energy metabolism by miRNA-mediated control of neurogenesis”**

2.2 Details of the Investigations:

Dr. Sourav Banerjee

PI

Molecular and Cellular

Neuroscience

National Brain Research Centre

National Brain Research Center,

Dr. Sourav Banerjee

PI

Molecular and Cellular

Neuroscience

National Brain Research Centre

National Brain Research Center,

2.3 Objectives:

1. 1) Identification of diet responsive miRNA
2. 2) Identification of targets of diet responsive miRNA
3. 3) Implication of miRNA-target interaction in HFD induced adult neurogenesis
4. 4) Exploration of molecular mechanism involved in integration of newborn neuron into functional hypothalamic neuronal circuitry.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **7809600/-** (Rupees Seventy Eight Lakhs Nine Thousand Six Hundred Only) as per details given below :

Budget Head	Year I	Year II	Year III	Total(Rs.)
Equipment	2000000.00			2000000.00
Manpower	403200.00	403200.00	403200.00	1209600.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	1800000.00	1800000.00	1215000.00	4815000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	4303200.00	2303200.00	1718200.00	8324600.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at
Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at
Annexure-II

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2015-2016
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Assistance for Research & Development
3425.60.200.29.17	Assistance for Research & Development
3425.60.200.29.17.35	Grants for creation of capital Assets

The **Recurring** expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2015-2016
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Assistance for Research & Development
3425.60.200.29.17	Assistance for Research & Development
3425.60.200.29.17.31	Grants in Aid-General

4. Terms & Conditions:

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No. BT/MED/30/SP11016/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 30/03/2015

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: **"Inflammation regulated metabolic reprogramming: Implications in tumor progression"** for a period of 5 Year 0 Month at a total cost of Rs. **17290000** (Rupees One Crores Seventy Two Lakhs Ninety Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Inflammation regulated metabolic reprogramming: Implications in tumor progression"

2.2 Details of the Investigations:

Dr. Ellora Sen
PI
Molecular and Cellular
Neurosciences
National Brain Research Centre
NBRC, Haryana, Haryana-122051

2.3 Objectives:

1. To determine whether inflammatory mediators effect metabolic profile of glioma cells and vice versa
2. To determine whether inflammation affect the spatial/temporal localization and shuttling of molecules (associated with metabolic adaptation) between different cellular compartments
3. To evaluate the role of transcription factors/chromatin remodelers in expression of genes associated with metabolism and immune evasive responses
4. Determine the effect of inhibition of aberrant metabolism on tumor growth

2.4 Time Schedule:

The duration of the project is 5 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **17290000/-** (Rupees One Crores Seventy Two Lakhs Ninety Thousand Only) as per details given below :

Budget Head	Year I	Year II	Year III	Year IV	Year V	Total (Rs.)
						4190000.00
Equipment	3349000.00	841000.00				6200000.16
Manpower	1200000.00	1200000.00	1200000.00	1300000.00	1300000.00	3000000.00
Travel	25000.00	✓50000.00	75000.00	75000.00	75000.00	5800000.00
Consumables	800000.00	800000.00	1200000.00	1500000.00	1500000.00	8000000.00
Contingency	100000.00	100000.00	200000.00	200000.00	200000.00	17290000.16
Total (Rs.)	✓5474000.00	2991000.00	2675000.00	3075000.00	3075000.00	

2.6 Equipment:
The details of the equipment sanctioned for the implementation of the project at
Annexure-I

2.7 Manpower:
The details of the manpower sanctioned for the implementation of the project at
Annexure-II

3. Head of Account:
The **Non-Recurring** expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2014-2015
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Research & Development
3425.60.200.29.04	Medical Biotechnology and Related Areas
3425.60.200.29.04.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

Demand No. 88	Department of Biotechnology
3425	Other Scientific Research 2014-2015
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Research & Development
3425.60.200.29.04	Medical Biotechnology and Related Areas
3425.60.200.29.04.31	Grants-in-Aid General

4. Terms & Conditions:

The Institute should utilize this Non-Recurring amount within a period of 18 months. (B) In case the

Dated: 01.05.2015

ORDER

Sanction of the President of India is hereby accorded under Rule 18 of the delegation of Financial Powers Rules, 1978, for the implementation of the project titled "**microRNAs as a potential therapeutic target in Neuro tropic Viral infection**" by Dr. Anirban Basu, Scientist V, National Brain Research Centre, Manesar, Gurgaon-122051, Haryana at a total cost of Rs. 27.00 lakhs (Rupees Twenty seven lakhs only) for his Tata Innovation Fellowship programme on the terms and conditions detailed here under:-

2.0 The Project

2.1 Project Title: "microRNAs as a potential therapeutic target in Neuro tropic Viral infection"

2.2 Investigator

2.3 Name of the Awardee: Dr. Anirban Basu,
Scientist V,
National Brain Research Centre,
Manesar, Gurgaon-122051, Haryana

Project Objectives:

1. Neurotropic viruses have been evidenced to replicate and complete their life cycles within neurons. Our primary goal will be to identify the neuronal miRNAs which either facilitate or block other neuronal metabolisms to help the viral replication within neurons.
2. Selective blocking of the miRNAs to terminate the viral replication in brain. For this purpose we will be utilizing morpholino mediated delivery of RNAi in brain.

2.4 Time Schedule

The duration of the project is 3 years w.e.f. 1st April, 2015.

2.5 Fellowship Amount

(Rs. in Lakhs)

S.N.	Head	1 st Yr.	2 nd Yr.	3 rd Yr.	Total
1.	Fellowship @ Rs 25,000/- per month.	3.00	3.00	3.00	9.00
2.	Contingency @ Rs 6.00 lakhs per year.	6.00	6.00	6.00	18.00
	Total	9.00	9.00	9.00	27.00

The contingency grant may be utilized for the purchase of consumables, equipment, international and domestic travel, engaging manpower and other contingent expenditure to be incurred in connection with the implementation of the project.

As per order

Block No. 2, 6-8th Floors
CGO Complex, Lodi Road,
New Delhi - 110 003

Dated: 25.05.2015

ORDER

Sanction of the President of India is hereby accorded under Rule-18 of the delegation of Financial Powers Rules, 1978, for the implementation of the project titled "**Non-invasive Imaging Technology Development to aid Differential Diagnosis of Alzheimer, Dementia with Lewy body and Parkinson Disease from Brain Glutathione Quantitation and pH Mapping**" by Prof. Pravat Kumar Mandal, Scientist-VI, National Brain Research Centre Manesar, Gurgaon, Haryana-122051 at a total cost of Rs. 27.00 lakhs (Rupees Twenty seven lakhs only) for his Tata Innovation Fellowship programme on the terms and conditions detailed here under:-

2.0 The Project

2.1 Project Title: "Non-invasive Imaging Technology Development to aid Differential Diagnosis of Alzheimer, Dementia with Lewy body and Parkinson Disease from Brain Glutathione Quantitation and pH Mapping"

2.2 Investigator

2.3 Name of the Awardee: Prof. Pravat Kumar Mandal,
Scientist-VI,
National Brain Research Centre
Manesar, Gurgaon, Haryana

Project Objectives:

1. Longitudinally quantify and correlate the following measures in elderly healthy subjects, as well as Alzheimer's Disease (AD), Parkinson's Disease (PD) and Dementia with Lewy Bodies (DLB) subjects.
 - a) GSH (Glutathione) levels in Hp and SN with MEGA-PRESS MRS.
 - b) pH of Hp and SN with ³¹PMRS.
 - c) Structural atrophy of Hp and SN using high resolution structural MRI.
2. Statistical analysis to understand the correlation between the above measures and each ND severity.

2.4 Time Schedule

The duration of the project is 3 years w.e.f. 1st April, 2015.

Pravat Mandal

Fellowship Amount

S.N.	Head	(Rs. in Lakhs)			
		1 st Yr.	2 nd Yr.	3 rd Yr.	Total
1.	Fellowship @ Rs 25,000/- per month.	3.00	3.00	3.00	9.00
2.	Contingency @ Rs 6.00 lakhs per year.	6.00	6.00	6.00	18.00
	Total	9.00	9.00	9.00	27.00

The contingency grant may be utilized for the purchase of consumables, equipment, international and domestic travel, engaging manpower and other contingent expenditure to be incurred in connection with the implementation of the project.

3. Budget Head

The expenditure involved is debitable to:

- | | |
|----------------------|--|
| Demand No. 88 | : Department of Biotechnology |
| 3425 | : Other Scientific Research 2015-16 |
| 3425.60 | : Others |
| 3425.60.200 | : Assistance to other Scientific Bodies (Minor Head) |
| 3425.60.200.17 | : Human Resource Development |
| 3425.60.200.17.08 | : Human Resource Development Programmes |
| 3425.60.200.17.08.31 | : Grants in Aid General |

4. The Accounts of the grantee institution shall be open to inspection by the sanctioning authority/ audit.
5. The other terms and conditions of this sanction are attached at Annexure-I.
7. This issues under the powers delegated to this Department and with the concurrence of IFD vide their SAN No. 102/IFD/SAN/545/2015-16 dated 15.05.2015.

(Signature)

(Dr. A. K. Rawat)
Director

