

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 **"Studies on expression of Nurr1, Foxa1, Engrailed and Lmx1a/b genes in MPTP induced Parkinsons disease model in zebrafish embryos"** for a period of 3 Year 0 Month at a total cost of Rs. **2150000** (Rupees Twenty One Lakhs Fifty Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Studies on expression of Nurr1, Foxa1, Engrailed and Lmx1a/b genes in MPTP induced Parkinsons disease model in zebrafish embryos"

2.2 Project Investigator :

Dr. Jayshree Nellore
Assistant Professor
Department of Biotechnology
Sathyabama University, Chennai
, Chennai -
600119, Tamilnadu

2.3 Objectives:

1. Through natural breeding, zebrafish embryo will be obtained and embryo formation will be confirmed by light microscopy
2. Gross and microscopic observation of embryo exposed to different concentrations of MPP+ for various durations, will provide information regarding pathology of embryo at different developmental stages
3. The expression of tyrosine hydroxylase (TH) and dopamine transporter (DAT) in embryos at different developmental stages (the segmentation, pharyngula, hatching and larval stages) exposed to different concentrations of MPP+ for various durations will be detected by in situ hybridization and immunofluorescence. In addition to this locomotor activity will also be detected
4. DNA polymorphisms in embryo after MPTP administration at different developmental stages will be identified by RAPD assays.
5. Mutation undergone in dopaminergic progenitor cell identify gene Nurr1, Foxa1 Engrailed-1/2 and Lmx1a/b after MPP+ administration at different concentrations of MPP+ for various durations at different developmental stage (the segmentation, pharyngula, hatching and larval stages) will be detected by RT-PCR
6. The level of gene expression of Nurr1, Foxa1 Engrailed-1/2 and Lmx1a/b in MPP+ treated zebrafish embryo at different concentrations of MPP+ for various durations at different developmental stages (the segmentation, pharyngula, hatching and larval stages) will be detected by Whole mount in situ hybridization
7. The level of protein expression of Nurr1, Foxa1 Engrailed-1/2 and Lmx1a/b in MPP+ treated zebrafish embryo at different concentrations of MPP+ for various durations at different developmental stages

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. **2150000/-** (Rupees Twenty One Lakhs Fifty Thousand Only) as per details given below :

Budget Head	Year I	Year II	Year III	Total(Rs.)
Equipment	500000.00			500000.00
Manpower	249000.00	250000.00	281000.00	780000.00
Travel	30000.00	30000.00	40000.00	100000.00
Consumables	200000.00	200000.00	250000.00	650000.00
Contingency	40000.00	40000.00	40000.00	120000.00
Total (Rs.)	1019000.00	520000.00	611000.00	2150000.00

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. 87	Department of Biotechnology
3425	Other Scientific Research 2012-2013
3425.60	Others
3425.60.200	Assistance to other Scientific Bodies
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. 87	Department of Biotechnology
3425	Other Scientific Research 2012-2013
3425.60	Others
3425.60.200	Assistance to other Scientific Bodies
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:

(A) The institute should utilize this Non-Recurring amount within a period of 12 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

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

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- 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 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, Sathyabama University, Chennai, Chennai, Tamilnadu would be responsible for submission of Statements of Expenditure (S/E) and consolidated utilization certificates (U/Cs) to DBT from PIs in respect of grants released against this sanction order from time to time.
7. The accounts of grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so by the sanctioning authority.
8. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/105/2012-2013** dated **April, 18 2012**.
9. This sanction order has been noted at serial no. 18 in the Register of Grants.

Garima
Dr. Garima Gupta
(Scientist 'C')

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, Sathyabama University, Chennai, JEPPIAAR NAGAR, OLD MAMALLAPURAM ROAD, SHOLINGANALLUR,, Chennai - 600119, Tamilnadu
- 3 Dr. Jayshree Nellore, Assistant Professor, Department of Biotechnology, Sathyabama University, Chennai, , Chennai - 600119, Tamilnadu
- 4 Cash Section, DBT (2 copies).
- 5 Sanction Folder.
- 6 File Copy.

Garima
Dr. Garima Gupta
(Scientist 'C')

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INDIAN COUNCIL OF MEDICAL RESEARCH
V. Ramalingawami Bhawan, Ansari Nagar, Post Box No. 4911
New Delhi - 110029

No. AMR/7/2011-ECD-1

Dated: 27/06/2012

To

The Registrar
Sathyabhama University Dental College -
Jeppiaar Nagar, Rajiv Gandhi Salai
Chennai-600119

Subject - Sanction and budget allotment for the New Schemes Entitled, " **Reversal Of Multi Drug Resistant Pseudomonas Aeruginosa Isolated From Various Clinical Sources By Pyochelin Conjugated Liposome Oleic Acids Coencapsulated With Combination Antibiotics** "

Sir,

1. The Director General of the Council sanctions the above mentioned research scheme initially for a period of One year from 07/07/2012 to 06/07/2013 subject to extension upto the total duration specified in para 3(3) below.
2. The Director General of the Council also sanctions the budget allotment of Rs 31,04,580/- (Rupees. Thirty One Lakh Four Thousand Five Hundred & Eighty Only) as detailed in the attached statement for the year 2012 - 2013.
3. The grant-in-aid will be given subject to the following conditions.
 1. The payment of the grant will be made in lump-sum to the Head of the Institution. The first installment of the grant will be paid generally as soon as a report regarding the commencement of the project and appointment of the staff is received by the Council. The demand for payment of the subsequent installment of the grant should be placed with the Council in the prescribed Performa attached.
 2. The staff appointed on the project should be paid as indicated in the budget statement attached.