



# GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE (GIPS)

(A Unit of Shrimanta Shankar Academy)

Approved by PCL AICTE, New Delhi, Affiliated to Assam Science and Technology University

B.Pharm Programme Accredited by NBA

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Ref No. GIPS/IAEC/NOTICE/2022/01

Date-31-03-2022

## Notice

### 14<sup>th</sup> Institutional Animal Ethical Committee (IAEC) meeting

Respected Members,

The 14<sup>th</sup> Institutional Animal Ethics Committee (IAEC) meeting of GIPS will be held on 05/04/2022, Tuesday from 09:00 AM at GIPS conference room. Therefore, your presence and active participation in the meeting will be highly solicited. The agendas for discussion in the meeting are as follows:

#### Agendas

The agendas of discussion:

1. Discussion on the proceedings of 13<sup>th</sup> IAEC meeting.
2. Discussion on the research proposal applied for the experimental use of animals in final year M. Pharm project work, PhD scholars and sponsored projects.
3. Any other matter

Thanking you,

Mr. Iswar Hazarika  
Member secretary  
IAEC, GIPS

MEMBER SECRETARY, IAEC, GIPS

CHAIRMAN, IAEC, GIPS

Proceedings of 13<sup>th</sup> IAEC meeting held on 22nd Nov 2021


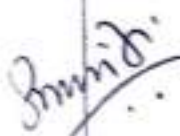
The following members were present in the meeting:

1. Dr. Gouranga Das, Chair person, IAEC, GIPS
2. Dr. Smriti Rekha Dutta, Main Nominee, IAEC, GIPS
3. Dr. Apurba Chakraborty, Scientist outside the Institute, IAEC, GIPS
4. Dr. Sasanka Sekhar Dutta, Socially aware Nominee, IAEC, GIPS
5. Dr. Dipankar Saha, Biological Scientist, IAEC, GIPS
6. Mr Iswar Hazarika, Member Secretary, IAEC, GIPS
7. Dr. Bhanu Pratap Sahu, Scientist from different discipline, IAEC, GIPS

Minutes of 13<sup>th</sup> IAEC meeting held on 22/11/2021 in Girijananda Chowdhury Institute of Pharmaceutical Sciences (GIPS), Hatkhowapara, Azara, Guwahati-781017

The member secretary Mr. Iswar Hazarika welcomed the gathering and requested and the Chairman Prof (Dr.) Gouranga Das to preside over the meeting. The member secretary Mr. Iswar Hazarika give a brief overview of the purpose of the meeting. The IAEC meeting resolutions are as follows:

**Resolutions of 13<sup>th</sup> IAEC meeting**

Sl. No.	Agendas and Resolution	Action Taken
1.	<b>Agenda</b> Discussion on the proceedings of 12th IAEC meeting <b>Resolution</b> All members accepted the proceedings of 12 <sup>th</sup> IAEC meeting	
2.	<b>Agenda</b> Discussion on the modernization of GIPS animal house. <b>Resolution</b> <ul style="list-style-type: none"><li>➤ Mr. Iswar Hazarika, member secretary, GIPS gave a brief presentation on the planning of modernization of the animal house by including dirty corridor and clean corridor.</li><li>➤ All the members approved the proposal to modernize the animal house.</li></ul>	Individually Ventilated Cage (IVC) has been purchased and it is on the way. The work for modernization shall be started after the installation and on the basis of the requirement of IVC installation.
3.	<b>Agenda</b> Discussion on the research proposal applied for the experimental use of animals in final year M. Pharm project work, PhD scholars and sponsored projects. <b>Resolution</b> <ul style="list-style-type: none"><li>➤ Research proposals were thoroughly discussed. Some proposals were accepted after minor changes, and some</li></ul>	All students are working on their project.   CHAIRMAN, IAEC, GIPS 

	proposals were rejected. Main nominee asked to correct and resubmit the proposals. Detailed list is enclosed with the resolution of the meeting.	
4.	<p>Any other Matters</p> <p><b>Agenda</b></p> <ul style="list-style-type: none"> <li>➤ Dr. Sashanka Sekhar Dutta, Socially aware Nominee, IAEC, GIPS showed concern on the absence of Veterinarian, IAEC, GIPS and requested chairman to appoint a veterinarian on regular basis.</li> </ul> <p><b>Resolution</b></p> <ul style="list-style-type: none"> <li>➤ Prof (Dr.) Gouranga Das, Chairman, IAEC said he shall look into the matter and take immediate action.</li> </ul>	Dr. Anirban Ray was appointed as a full-time veterinarian w.e.f 01/12/2021.

  
 CHAIRMAN, IAEC, GIPS



Brief list of the study 13th IAEC meeting

Sl No	Principal Investigator and Application No.	Title of Proposal	Purpose of animal use	Resolution	No. of Animals proposed	No. of Animals Sanctioned	Approval No. and status
1	Alokali Kiba (M.PH/PRO/13/2021)	Exploration of anti-diabetic potential of hydro-ethanolic leaf extract of Persicaria wallichii L. -A wild edible plant from North Eastern India.	Acute toxicity study and Antidiabetic property	<ul style="list-style-type: none"> <li>➤ For antidiabetic study, the normal group may contain only 6 animals. For other groups 10 rats per group can be given due to high mortality rate.</li> </ul>	60 rats	56 rats	GIPS/IAEC/M.PH/PRO/13/2021 Status: Approved
2	Upasana Saikia (M.PH/PRO/14/2021)	Design, development and evaluation of lamivudine loaded nanoparticles for mucosal drug delivery system.	Pharmacokinetic study	<ul style="list-style-type: none"> <li>➤ Members asked to reduce the frequency of blood collection in the proposal if it doesnot hamper the research.</li> </ul>	9 rabbits	9 rabbits	GIPS/IAEC/M.PH/PRO/14/2021 Status: Approved
3	PRERONA CHOUHURY (M.PH/PRO/15/2021)	Effect of Jatropha seed kernel oil on skin permeation of nitredipine from keratin film for the management of hypertension.	Acute toxicity, irritation study and Pharmacokinetic study	<ul style="list-style-type: none"> <li>➤ For in-vivo kinetic study, the members asked to reduce the number of animals in control group from 18 to 6 Nos.</li> <li>➤ Members also asked to check for anaesthesia and not to use Urethane as it requires urethane chamber.</li> </ul>	69 rats	57 rats	GIPS/IAEC/M.PH/PRO/15/2021 Status: Approved

*Signature*

*Signature*  
CHAIRMAN, IAEC GIPS

4	TASRINA RAHMAN (M.PH/PRO/16/2021)	EVALUATION OF ACUTE ORAL TOXICITY AND ACUTE DERMAL TOXICITY OF ISOCOUMARIN COMPOUND (AGRIMONOLIDE) IN EXPERIMENTAL ANIMALS	toxicity studies	-	27 rats	GIPS/IAEC/M.PH/PRO/16/2021 Status: Approved
5	SANSWRANG BASUMATARY (M.PH/PRO/17/2021)	PHARMACOLOGICAL EVALUATION OF WOUND HEALING ACTIVITY OF ISOLATED COMPOUND AGRIMONOLIDE ON EXPERIMENTAL ANIMALS	Wound healing activity	<ul style="list-style-type: none"> <li>Members suggested to use Ketamine + xylene or use anaesthesia as per CPCSEA guidelines.</li> </ul>	96 rats	GIPS/IAEC/M.PH/PRO/17/2021 Status: Approved
6	SOURIN SARMA (M.PH/PRO/18/2021)	EVALUATION OF SYNERGISM OF APOCYNIN AND DIOSMIN AGAINST ETHANOL INDUCED GASTRIC ULCEROGENESIS	anti-ulcer activity	<ul style="list-style-type: none"> <li>Members suggested to use anaesthesia as per CPCSEA guidelines.</li> </ul>	48 rats	GIPS/IAEC/M.PH/PRO/18/2021 Status: Approved
7	TANMAY SARMA (M.PH/PRO/19/2021)	EVALUATION OF GASTROPROTECTIVE PROPERTY OF CO-ADMINISTERED SIMVASTATIN AND GALLIC ACID AGAINST INDOMETHACIN	gastro protective study	<ul style="list-style-type: none"> <li>Members suggested to use anaesthesia as per CPCSEA guidelines.</li> <li>The members asked to remove the parameters from the objectives in Form B.</li> </ul>	48 rats	GIPS/IAEC/M.PH/PRO/19/2021 Status: Approved

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CHAIRMAN, IAEC, GIPS

		INDUCED GASTRIC ULCER IN RATS				
8	Taslima Akhter Rohman (M.PH/PRO/20/2021)	Pre Clinical Investigation of the neuroprotective activity of combined Resveratrol and Ferulic acid in Scopolamine induced cognitive dysfunction in rats.	neuro protective activity	<ul style="list-style-type: none"> <li>Members suggested to use anaesthesia as per CPCSEA guidelines.</li> </ul>	42 rats	GIPS/IAEC/M.PH/PRO/20/2021 Status: Approved
9	Chayanika Goswami (M.PH/PRO/21/2021)	Neuroprotective action of extracts of Trapa natans against neuroinflammation	neuro protective activity	<ul style="list-style-type: none"> <li>Members suggested to use anaesthesia as per CPCSEA guidelines.</li> </ul>	36 rats	GIPS/IAEC/M.PH/PRO/21/2021 Status: Approved
10	Chayanika Kalita (M.PH/PRO/22/2021)	Neuroprotective action of extracts of Silimarin against MSG induced neurotoxicity	neuro protective activity	<ul style="list-style-type: none"> <li>Members suggested to use anaesthesia as per CPCSEA guidelines.</li> </ul>	36 rats	GIPS/IAEC/M.PH/PRO/22/2021 Status: Approved
11	Sikhamoni Dutta (M.PH/PRO/23/2021)	Preclinical investigation of neuroprotective activity of combined Andrographalide and Curcumin in Scopolamine induced cognitive dysfunction in rats.	neuro protective activity	<ul style="list-style-type: none"> <li>Members suggested to use anaesthesia as per CPCSEA guidelines.</li> <li>Members also asked to mention deep burial method for carcass disposal.</li> </ul>	42 rats	GIPS/IAEC/M.PH/PRO/23/2021 Status: Approved

  
 CHAIRMAN, IAEC, GIPS

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12	Dibyajyoti Das (M.PH/PRO/24/2021)	EVALUATION OF WOUND HEALING ACTIVITY OF EXTRACT FROM WHOLE PLANT OF HYDROCOTYLE SIBTHORPIOIDES IN EXPERIMENTAL RATS	Wound healing activity	➤ Members suggested to use Ketamine + xylene or use anaesthesia as per CPCSEA guidelines.	36 rats	GIPS/IAEC/M.PH/PRO/24/2021 Status: Approved
13	Sabir Hussain (M.PH/PRO/25/2021)	Green synthesis, characterization and evaluation of anti-inflammatory activity of silver nanoparticles loaded in nanogel using agrimonolide	anti-inflammatory activity	➤ Members suggested to use Ketamine + xylene or use anaesthesia as per CPCSEA guidelines.	72 rats	GIPS/IAEC/M.PH/PRO/25/2021 Status: Approved
14	Nurul Amin (M.PH/PRO/26/2021)	Formulation Development and Evaluation of Furosemide Loaded Solid Lipid Nanoparticle for Mucosal Drug Delivery System	Pharmacokinetic study	➤ Members suggested to use Ketamine + xylene or use anaesthesia as per CPCSEA guidelines.	18 rats	GIPS/IAEC/M.PH/PRO/26/2021 Status: Approved
15	Pankaj Basumatary (M.PH/PRO/27/2021)	EVALUATION OF WOUND HEALING ACTIVITY OF EXTRACT FROM WHOLE PLANT OF SACCHARUM BENGALENSE/MUNJA IN EXPERIMENTAL RATS	Wound healing activity	➤ Members suggested to use Ketamine + xylene or use anaesthesia as per CPCSEA guidelines.	36 rats	GIPS/IAEC/M.PH/PRO/27/2021 Status: Approved

*Signature*

AIRMAN, IAEC, GIPS

Proceedings of 14<sup>th</sup> IAEC meeting held on 05th April 2022

The following members were present in the meeting:

1. Dr. Gouranga Das, Chair person, IAEC, GIPS
2. Dr. Smriti Rekha Dutta, Main Nominee, IAEC, GIPS
3. Dr. Apurba Chakraborty, Scientist outside the Institute, IAEC, GIPS
4. Dr. Sashanka Sekhar Dutta, Socially aware Nominee, IAEC, GIPS
5. Dr. Dipankar Saha, Biological Scientist, IAEC, GIPS
6. Mr Iswar Hazarika, Member Secretary, IAEC, GIPS
7. Dr. Bhanu Pratap Sahu, Scientist from different discipline, IAEC, GIPS

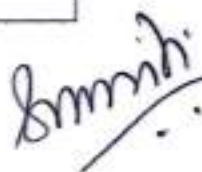
Minutes of 14<sup>th</sup> IAEC meeting held on 05/04/2021 in Girijananda Chowdhury Institute of Pharmaceutical Sciences (GIPS), Hatkhowapara, Azara, Guwahati-781017

The member secretary Mr. Iswar Hazarika welcomed the gathering and requested and the Chairman Prof (Dr.) Gouranga Das to preside over the meeting. The Chairman Prof (Dr.) Gouranga Das gave a brief overview of the purpose of the meeting. The IAEC meeting resolutions are as follows:

**Resolutions of 14<sup>th</sup> IAEC meeting**

Sl No.	Agenda	Resolution
1	Discussion on the proceedings of 13 <sup>th</sup> IAEC meeting	All members accepted the resolutions of 13 <sup>th</sup> IAEC meeting
2	Discussion on the research proposal applied for the experimental use of animals in final year M. Pharm project work, PhD scholars and sponsored projects.	➤ Research proposals were thoroughly discussed. Some proposals were accepted after minor changes, and some proposals were rejected. Main nominee asked to correct and resubmit the proposals. Detailed list is enclosed with the resolution of the meeting.
3	Any other matters <ul style="list-style-type: none"><li>• Dr. Apurba Chakraborty, Scientist outside the Institute, IAEC, GIPS showed concern on lack of preparation of the students coming for presentation. He suggested a preliminary screening of the students.</li></ul>	➤ The house recommended screening of students proposal before presenting it to IAEC.

  
CHAIRMAN, IAEC, GIPS

  
Smriti



<ul style="list-style-type: none"><li>• Dr. Sashanka Sekhar Dutta, Socially aware Nominee, IAEC, GIPS reminded that the present IAEC is to be reconstituted and asked the member secretary to apply in the CPCSEA portal before time.</li></ul>	<ul style="list-style-type: none"><li>➤ Mr. Iswar Hazarika, member secretary said that he shall look into the matter. He also added that the validity of this committee is till 31/08/2022 and reconstitution can be done only 40 days prior to the expiry date.</li></ul>
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*Smriti*

  
CHAIRMAN, IAEC, GIPS

Brief list of the study 14<sup>th</sup> IAEC meeting

Sl No	Name	Title	Resolution	No. of Animals proposed	No. of Animal sanctioned	Approval Number and status
1	Abhishek Yadav (M.PH/PRO/28/2021)	Preparation and evaluation of curcumin loaded esterified black rice starch nanoparticles for improvement of bioavailability	Approval subject to modification: - Mention the time interval and the volume of blood sample collected	18 rats	18 rats	GIPS/IAEC/M.PH/PRO/01/2022 Status: <b>Approved</b>
2	Akash Ajith (M.PH/PRO/29/2021)	Design, development and evaluation of amphotericin loaded polymeric nanoparticle dermal gel for transdermal drug delivery	Animals used for antifungal activity is approved. However, the number of animals used for skin irritation studies need to be verified from OECD guidelines. The applicant reviewed the OECD guidelines and decided to omit the skin irritation study.	54 rats	30 rats	GIPS/IAEC/M.PH/PRO/02/2022 Status: <b>Approved</b>
3	Angshuman Sonowal (M.PH/PRO/30/2021)	Carbon-quantum dots-based liposomes of curcumin for lung cancer therapy	Approval subject to modification: - Mention the cell-line for the induction of cancer.	36 mice	36 Swiss Albino mice	GIPS/IAEC/M.PH/PRO/03/2022 Status: <b>Approved</b>
4	Chinmoyee Borah (M.PH/PRO/31/2021)	Development and evaluation of paclitaxel proliposomes loaded dry powder inhaler for lung cancer in mice	Approval subject to modification: - Mention the euthanasia process and carcass disposal method.	30 mice	30 Swiss Albino mice	GIPS/IAEC/M.PH/PRO/04/2022 Status: <b>Approved</b>

CHAIRMAN, IAEC, GIPS




5	Deep Jyoti Goswami (M.PH/PRO/32/2021)	Development of Colen Targeted Microparticle for the treatment of intestinal disease	Approval subject to modification: Dr. Apurba Chakraborty, Scientist outside the Institute, IAEC, GIPS suggested to split the group 1 (n=12) into two subgroups providing the timepoints.	18 mice	18 Swiss Albino mice	GIPS/IAEC/M.PH/PRO/05/2022 Status: <b>Approved</b>
6	Dhritilata Pegu (M.PH/PRO/33/2021)	Development of curcumin silver nanoparticle loaded gel and evaluation of its antimicrobial and in vivo wound healing activity	Approval subject to modification: - Check for postoperative care	30 rats	30 rats	GIPS/IAEC/M.PH/PRO/06/2022 Status: <b>Approved</b>
7	Rupsikha Kalita (M.PH/PRO/34/2021)	Development of keratin based nose to brain targeted nanocarriers for the management of dementia with Lewy bodies	The committee recommended to reduce the total number of animals in control group from n=30 to n=6. For in-vivo imaging studies, the committee asked whether 5 number of animals will be sufficient to come to a meaningful result. However, the applicant said as it is a qualitative study it will suffice the need for the study.	125 rats	101 rats	GIPS/IAEC/M.PH/PRO/07/2022 Status: <b>Approved</b>
8	Sauvik Kumar Das (M.PH/PRO/35/2021)	Preparation and evaluation of irinotecan loaded esterified jackfruit starch nanoparticles for improvement of bioavailability	Approval subject to modification: - Mention the time interval and the volume of blood sample collected	18 rats	18 rats	GIPS/IAEC/M.PH/PRO/08/2022 Status: <b>Approved</b>
9	Sumanjit Das (M.PH/PRO/36/2021)	<i>Lindernia crustacea</i> : Phytochemical and pharmacological evaluation (Analgesic, anti-	Approved	36 rats	36 rats	GIPS/IAEC/M.PH/PRO/09/2022 Status: <b>Approved</b>

CHAIRMAN, IAEC



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		inflammatory, antipyretic) of an unexplored medicinal plant				
10	Uloopi Dutta (M.PH/PRO/37/2021)	PLGA based Nanoparticle of Curcumin loaded topical Gel for wound healing in rats	Approval subject to modification: - Check for postoperative care -	30 rats	30 rats	GIPS/IAEC/M.PH/PRO/10/2022 Status: <b>Approved</b>
11	Purbajit Chetia (PhD/PRO/01/2022)	Evaluation and comparison of anti-rheumatoid arthritic activity of few plant-derived compounds along with selegeline	Approved	66 rats	66 rats	GIPS/IAEC/PHD/PRO/01/2022 Status: <b>Approved</b>

  
 CHAIRMAN, IAEC, GIPS





# GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE (GIPS)

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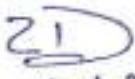

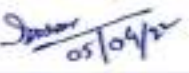
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Website: www.gips-guwahati.ac.in

Date-05-04-2022

## Attendance of 14<sup>th</sup> IAEC meeting

Sl No	Name and Designation of Member (Nominated members by CPCSEA to IAEC, GIPS)	Signature with Date
1.	<b>Dr. Smriti Rekha Dutta</b> <i>Main Nominee, IAEC, GIPS</i>	 5/4/22
2.	<b>Dr. Sashanka Sekhar Dutta</b> <i>Socially aware Nominee, IAEC, GIPS</i>	 05/04/2022
3.	<b>Dr. Apurba Chakraborty</b> <i>Scientist from outside the Institute, IAEC, GIPS</i>	
4.	<b>Dr. Pranabesh Chattopadhyay</b> <i>Link Nominee, IAEC, GIPS</i>	

Sl No.	Name and designation of Member (Nominated members by CPCSEA to IAEC, GIPS)	Signature with Date
1.	<b>Dr. Dipankar Saha</b> <i>Biological Scientist, IAEC, GIPS</i>	 5/4/22
2.	<b>Prof. (Dr.) Gouranga Das</b> <i>Scientist from different discipline, Chairperson IAEC, GIPS</i>	 05.4.22
3.	<b>Dr. Raheswar Bora</b> <i>Veterinarian, IAEC, GIPS</i>	- Ab -
4.	<b>Dr. Bhanu Pratap Sahu</b> <i>Scientist from different discipline, IAEC, GIPS</i>	 5/4/22
5.	<b>Mr. Iswar Hazarika</b> <i>Faculty incharge of animal house, member secretary</i>	 05/04/22

## Animal Grouping

The animals will be divided into two groups viz., the negative control group and the treatment dye treated group. The animals are required to observe the residue level of the insecticide at specific time points (15, 30, 60, 90, 120 and 144) using two replicates. With the help of animal grouping we will be able to determine the location and time supplied by the insecticide to reach the milk.

Group	Chemicals to be administered	Number of animals
1	Abamectin (by pooled concentrate)	10
2 (control)	Physiological solution (saline solution)	10