- Pharmacological studies
- Behavioural studies
- Surgical studies
- Imaging studies
- Infectious disease research
- Cancer research
- Nutritional studies
- Neurological studies
- Reproductive studies
- Metabolic Studies

Associated Facilities Provided

- Scaffold development
- Histological analysis of tissue scaffold reactions

Tissue processing Facility

Isoflurane Anaesthesia Machine

Species Supported

Rat, Mice, Rabbit, Hamster, and Guinea pig

Collaboration & Customized Support

We foster collaborative research initiatives with esteemed institutions, industries, and researchers, providing tailored support for specific research projects. Our services include collecting samples from external agencies, such as institutions and companies, for animal studies, enabling comprehensive research and leveraging diverse resources.

Training and Internship Programs:

- Enhance your research skills with our specialized programs

Si. no	Course Title	Minimum Duration	Major Areas Covered	Target Group
1)	Trainee	Six months	Laboratory Animal research basics	Degree Life Science
2)	Internship	2 weeks	An introduction to Laboratory animal research	Degree Life Science
3)	Thesis (MSc, MS, MD, MDS, PhD)	Six months	As per the work	Masters/PhD life science

Contact Us:

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PUSHPAGIRI
Institute of Medical Sciences & Research Centre

LABORATORY ANIMAL RESEARCH FACILITY

PUSHPAGIRI INSTITUTE OF MEDICAL SCIENCES AND RESEARCH CENTRE

Why Research with Us?

Our facility is recognized by CCSEA (Committee for Control and Supervision of Experiments on Animals) and boasts an active Institutional Animal Ethics Committee (IAEC), ensuring ethical and high-quality research practices.

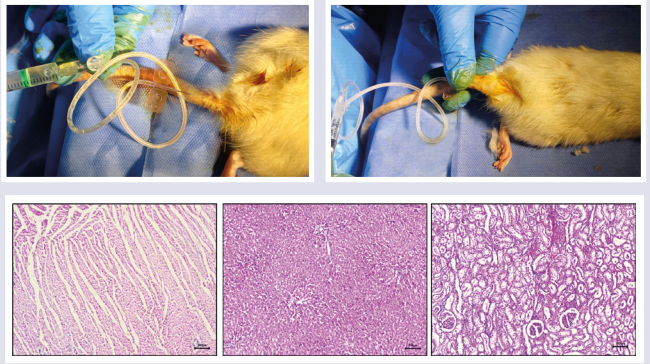
Benefits of using our facility:

- Improved animal care
- Enhanced research quality
- Increased productivity

Diverse Research Capabilities:

Explore a wide range of studies with us, utilizing our comprehensive facilities:

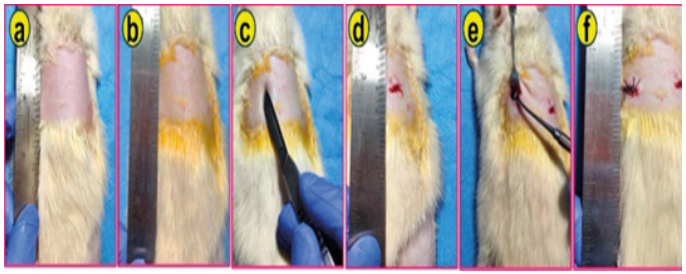
Toxicity Assessment



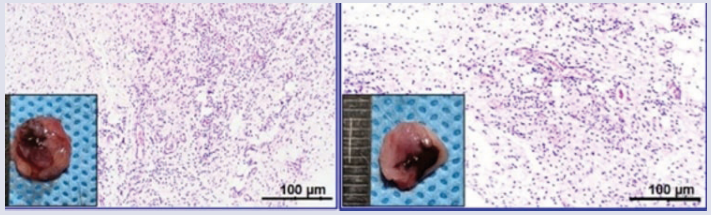
Histological images of (a) heart, (b) liver, (c) kidney after the acute systemic toxicity test.

Reference: Mohammed R, Chacko SK, Balakrishnan R, Thomas NG, Binsi PK, Muhamed Ashraf P, Krishnan N, Anil S. Catechin as a functional additive in electrospun PCL/gelatin/nHA nanocomposite fibers for tissue engineering applications. Journal of Applied Polymer Science.:e56308. Impact factor: 3

In Vivo Biocompatibility



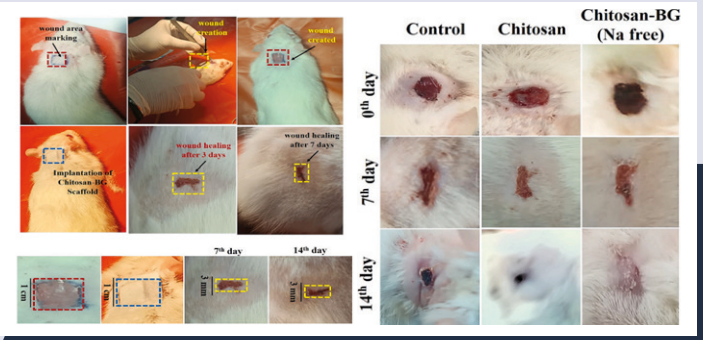
(a)–(f) - Biocompatibility study. (a) Inspection of the surgical site, (b) and (c) dorsal skin after fur removal and disinfection with 10% povidone-iodine solution, (d) wound creation, (e) scaffold implantation, and (f) wound closure with sutures



Histological Analysis

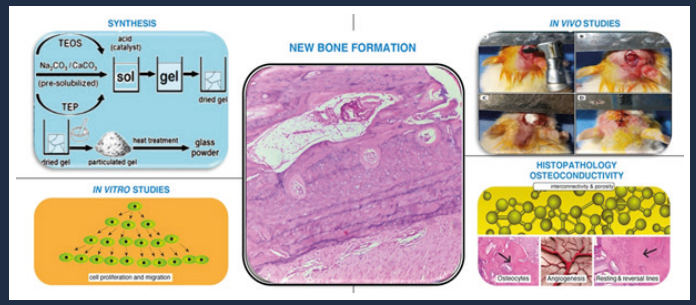
Reference: Sowndarya, A., Daniel Thangadurai, T., Thomas, N. G., Sreedharan, R., Anil, S., Manjubaashini, N., Satheesh Babu, T. G., & Megha Kumar, S. (2025). Effect of surface-engineered AuNPs on gene expression, bacterial interaction, protein denaturation, and toxicology assay: an in vitro and *in vivo* model. Journal of materials chemistry. B, 10.1039/d4tb01731e.

In Vivo Wound Healing



Reference: Manjubaashini N, Bargavi P, Thomas NG, Krishnan N, Balakumar S. Chitosan bioactive glass scaffolds for *in vivo* subcutaneous implantation, toxicity assessment, and diabetic wound healing upon animal model. International Journal of Biological Macromolecules. 2024 Jan 1; 256:128291. Impact Factor:8.20

Preclinical Analysis of *In Vivo* Bone Regeneration Potential of Bone Grafts



Reference: Thomas NG, Manoharan A, Anbarasu A. Preclinical evaluation of sol-gel synthesized modulated 45S5-bioglass based biodegradable bone graft intended for alveolar bone regeneration. Journal of Hard Tissue Biology. 2021;30(3):303-8.