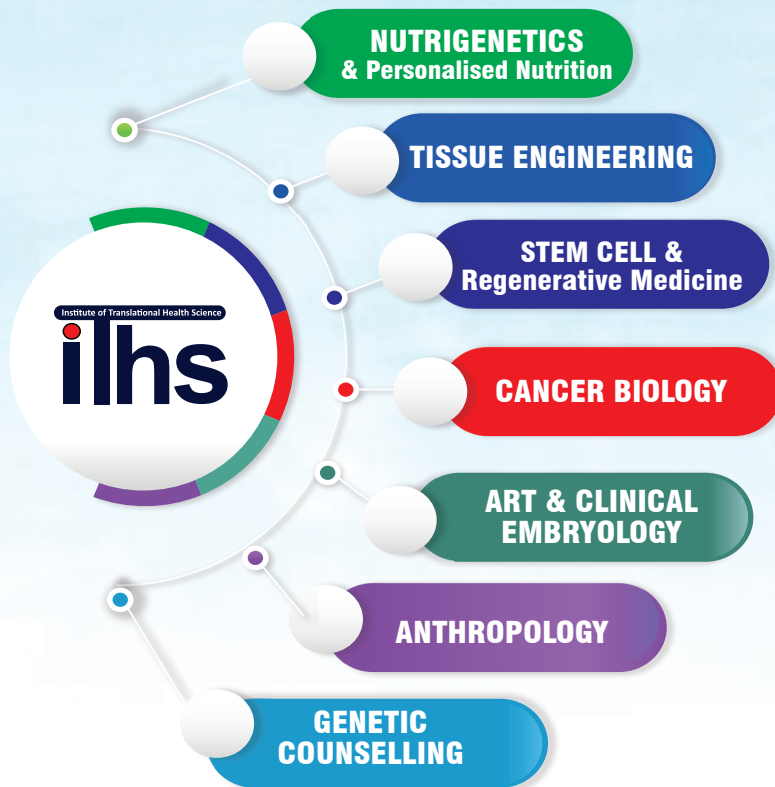


INSTITUTE OF TRANSLATIONAL HEALTH SCIENCE

(A Unit of Dakshin Kosal Foundation)

PROSPECTUS 2025-2026

Transform Your Future in Health Science



ADMISSION HELPLINE :
9691736435 | 9815692195

ABOUT THE UNIVERSITY



Rayat Bahra University (RBU) is established under Punjab act no. 16 of 2014 vide notification no. 17-leg/2014 dated 13th August 2014 and notified by UGC under section 22 of the UGC act 1956, is empowered to award degree vide letter No. 8-23/2014 (CPP-I/PU) Dated 26th Sept 2014 by University Grant Commission (UGC).

Just within the vicinity of city beautiful Chandigarh, and well within the reach of the facilities of the city stands the thriving campus of Rayat Bahra University (RBU).

Rayat-Bahra University (RBU) is Recognised by UGC of India and carries a rich Legacy of 20+ years in providing quality education in the field of **Reproductive Science, Integrative Health Sciences, Stem Cell Technology & Regenerative Medicine**, Medical and Allied Science, Pharmaceutical Science, Biological Science, Dental, Nursing, Engineering, Hotel Management, Business Management, Law, Agriculture media at Doctorate, Post-Graduation, Under Graduate, Diploma level, Certificate and Evening courses. Students from across India and 30+ countries make RBU an Internationally vibrant Campus which offers robust platforms to make its student's Industry ready. The university offers a choice-based flexible learning system, enabling an interdisciplinary approach for learners to learn at their own pace and choose electives from other available courses as well as to take up some additional/value-added courses to increase their skills/employability.

To emerge as the Top Education Institute, RBU has entered into an academic-Industrial partnership with numerous companies and research institutes including **EMBRYOGENESIS** -Infertility Diagnostic & Research, **Institute of Nutrigenetics & Nutrigenomics Research (INNRR)**, **Institute of Translational Health Science (ITHS)**, IBM, Wipro, Zscaler, Infosys and Royal Enfield etc.

RAYAT BAHRA UNIVERSITY



S. Gurvinder Singh Bahra
Chairman, RBGI, Chancellor, RBU



Gurinder Singh Bahra
Vice Chairman, RBGI

INSTITUTE OF TRANSLATIONAL HEALTH SCIENCE



Jyoti Garhewal
Founder & Director, INNRR
Founder & Director, ITHS



Prof. (Dr.) Pulakes Purkait
Director, ITHS
Co-Founder & Director, INNRR
Founder & Director, Embryogenesis

ABOUT THE INSTITUTE



Institute of Nutrigenetics & Nutrigenomics Research (INNR) and Institute of Translational Health Science (ITHS), EMBRYOGENESIS- Infertility Diagnostic & Research (EMBRYOGENESIS) are founded by Ms. Jyoti Garhewal & Dr. Pulakes Purkait, in Chhattisgarh in 2023.

ITHS INNR, & EMBRYOGENESIS in association with **Rayat Bahra Group of Institution** established the "**Institute Translational Health Science departments**" on focus of quality education and research in translational health science at **Rayat Bahra University** campus, Mohali in 2023 and **Bahra University** campus, Shimla Hill in 2024. INNR, ITHS & EMBRYOGENESIS are the new age value added emerging Health science institute and offering doctorate (Ph.D.), post-graduation (M.Sc.), under graduation (B.Sc.), PG diploma, Diploma and certificate courses with the different academic institute.

INNR, ITHS and EMBRYOGENESIS, well equipped with industry expert and international recognized faculty to carry out both teaching and research through its five major department under the aegis of **Institute of Translational Health Science -**

- (i) Department of Nutrigenetics (ii) Department of Cancer Biology (iii) Department of Stem Cell
(iv) Department of ART & Clinical Embryology (v) Department of Anthropology

RBU and ITHS offer B.Sc., M.Sc., Ph.D., PG Diploma and certificate Courses in "**Nutrigenetics & Personalized Nutrition**", "**Stem Cell & Regenerative Medicine**" **ART & Clinical Embryology, Cancer Biology, Anthropology, "Genetics Counselling"** and **B.Tech in Stem Cell & Tissue Engineering**. The institute is harmony of experienced teaching methodologies accompanied by best in class infrastructure and state-of-art laboratories that supports and exhibits the practicality of the enriching syllabus.

KEY LEARNING OUTCOMES

- ▶ Classroom Learning
- ▶ Knowledge of Genetic Analysis for Food
- ▶ Knowledge of Stem Cell Culture & Analysis
- ▶ Knowledge of Regenerative Medicine
- ▶ Knowledge of Genetics Counselling
- ▶ Hands-On Practical Training Project

OUR APPROACH:

- ▶ Research-oriented learning
- ▶ In-house subject expert lectures
- ▶ State of the ART techniques
- ▶ Hands-on practical knowledge

PROGRAM HIGHLIGHT

- ▶ Standards of technology and infrastructure
 - ▶ Internationally Recognized Faculty
 - ▶ Training in Emerging Health Science Field
 - ▶ Hands-on Practical Exposure
 - ▶ Personalized training by Industry Experts
 - ▶ Scholarships on Course Fee*
- Academically bright students after completion of the course will get a chance of CAMPUS INTERVIEW & PLACEMENT



S. Gurvinder Singh Bahra

Chairman, Rayat Bahra Group

Ms. Jyoti Garhewal

Founder & Director, INNR & ITHS

Prof. Pulakes Purkait

Director, ITHS,

Co Founder & Director, INNR

Founder & Director, EMBRYOGENESIS

MESSAGE FROM THE FOUNDER & DIRECTOR, ITHS & INN



JYOTI GARHEVAL

Patent: 8
Publication: 2



Welcome Dear Students,

I extend a warm welcome to each of you as you embark on this exciting journey of academic discovery and personal growth. Your decision to join our Institute marks the beginning of a transformative experience that will equip you with the knowledge and skills necessary to excel in the ever-evolving field of Translational health science. We are committed to fostering an environment that encourages innovation, collaboration, and critical thinking. I encourage you to take full advantage of the resources and opportunities available to you during your time here. Together, we will work towards a brighter future in health science, and I look forward to witnessing the remarkable contributions you will make to this vital field. I Wish you All Success and look forward to a Wonderful experience with you.

Warm regards,

MS. JYOTI GARHEVAL

Founder & Director,

Institute of Translational Health Science

Institute of Nutrigenetics & Nutrigenomics Research

MESSAGE FROM THE DIRECTOR, ITHS



Prof. (Dr.) Pulakes Purkait

M.Sc., Ph.D., Post Doc,
JRF, SRF, PDF

Patent: 15+
Publication: 30+

“Best Innovator Award”
for Infertility Treatment,
NHBC 2024, IIT Delhi



Welcome Dear Students,

On behalf of the Institute of Translational Health Science, I am delighted to welcome you to our esteemed programs focused on Nutrigenetics, Stem Cell & Regenerative Medicine, Cancer Biology, Clinical Embryology, and Anthropology. Your decision to embark on this academic journey marks the beginning of an exciting exploration into the complexities of health and disease. We are committed to fostering an environment where innovation and research thrive, and each of you is an integral part of that mission. As you engage with our distinguished faculty and collaborate with fellow scholars, I encourage you to embrace the challenges and opportunities that lie ahead. Together, we can advance our understanding and contribute meaningfully to the fields of health and science. Welcome to our Institute.

Warm regards,

PROF. (DR.) PULAKES PURKAIT

Director, Institute of Translational Health Science

Founder, Embryogenesis Infertility Diagnostics & Research (OPC) Pvt. Ltd

Co-Founder & Director,

Institute of Nutrigenetics & Nutrigenomics Research



The Hub of Game - Changing Healthcare Service collaborators -



MOU @ ITHS

ACADEMIC PARTNER :



MOU between ITHS & ALLOCELLPEUTICS



Ms. Jyoti Garhwal, Founder & Director, ITHS & INN
Prof. (Dr.) Pulakes Purkait, Director, ITHS & INN, EMBRYOGENESIS
Dr. Kumar Abhiram Jha, Assoc. Professor, Stem Cell, ITHS

MOU between ITHS & AASHAKIRAN IVF, KHARAR



Prof. (Dr.) Pulakes Purkait, Director, ITHS & INN, EMBRYOGENESIS
&
Dr. Jagjit Singh, Director, Aashakiran IVF

MOU between ITHS & RADIANCE HOSPITAL



Prof. (Dr.) Pulakes Purkait, Director, ITHS & INN, EMBRYOGENESIS

&

Dr. Rimmy Singla & Dr. Raman Singla, Director, Radiance Hospital & IVF

MOU between ITHS & Indira IVF



Prof. (Dr.) Pulakes Purkait, Director, ITHS & INN, EMBRYOGENESIS

&

Dr. Ritesh Agarwal, Head, Training Embryology, IFA, Indira IVF

MOU between ITHS & GIOSTAR-USA



Prof. (Dr.) Pulakes Purkait, Director, ITHS & INN, EMBRYOGENESIS

&

Dr. Anand Srivastava, Chairman & Co Founder, GIOSTAR-USA
Dr. Kumar Abhiram Jha, Assoc. Professor, Stem Cell, ITHS

YOUR MENTORS





Doctorate (Ph.D.)

Duration: 3-4 Years
Total Fee: INR 450,000/-

Nutrigenetics, Cancer Biology
Stem Cell & Regenerative Medicine
ART & Clinical Embryology, Anthropology

Ph.D. for Professionals

Duration: 3 years
Course Fee: INR 600000 /-

Innovators Research Program (IRP)

B. Tech. Stem Cell & Tissue Engineering

Duration: 4 Years

Fee: INR 80,000/- Semester

Post graduate program

M.Sc. Nutrigenetics & Personalized Nutrition

Duration: 2 Years

Fee: INR 55,000/- Semester

M.Sc. Cancer Biology

Duration: 2 Years

Fee: INR 55,000/- Semester

M.Sc. Stem Cell & Regenerative Medicine

Duration: 2 Years

Fee: INR 55,000/- Semester

M.Sc. ART & Clinical Embryology

Duration: 2 Years

Fee: INR 100,000/-Semester

MA. / M.Sc. Anthropology

Duration: 2 Years

Fee: INR 55,000/- Semester

Undergraduate program

B.Sc. Nutrigenetics & Personalized Nutrition

Duration: 3 Years / 4 Years

Fee: INR 35,000/- Semester

B.Sc. Cancer Biology

Duration: 3 Years / 4 Years

Fee: INR 35,000/- Semester

B.Sc. Stem Cell & Regenerative Medicine

Duration: 3 Years / 4 Years

Fee: INR 35,000/- Semester

B.Sc. ART & Clinical Embryology

Duration: 3 Years / 4 Years

Fee: INR 35,000/- Semester

B.A. / B.Sc. Anthropology

Duration: 3 Years / 4 Years

Fee: INR 35,000/- Semester

PG Diploma

PGD. Nutrigenetics & Personalized Nutrition

Duration: 1 Years

Fee: INR 30,000/- Semester

PGD. ART & Clinical Embryology

Duration: 1 Years

Fee: INR 100,000/- Semester

PGD. Genetic Counselling

Duration: 1 Years

Fee: INR 40,000/- Semester

Certificate

Personalized Nutrition & Nutrigenetics

Duration: 6 Months

Fee: INR 35,000/-

Stem Cell Processing & Cryopreservation

Duration: 7 Days

Fee: INR 30,000/-

Genetic Counselling

Duration: 6 Months

Fee: INR 48,000/-

WHY YOU JOIN ITHS ?

1. **India's No. 1 university for Nutrigenetics study** : "Department of Nutrigenetics" is the sole department of ITHS (under the aegis of **Institute of Nutrigenetics & Nutrigenomics Research**) in India as well as in the world, providing academic degree in "**Nutrigenetics & Personalized nutrition**" (in association with "**Rayat Bahra University**")
2. **North India's No. 1 university for "Cancer Biology" research**
3. **Pioneer in Instrumentation and Research laboratory** : - ITHS of RBU has the best state of the art Laboratory facility for cutting edge Translational health science research. It also has the Nutrigenetics research Laboratory, Stem cell Research laboratory, cancer research Laboratory, Embryology Laboratory which is the one & only in Indian academic set up for industry ready.
4. **"Best Innovation Award"** for translational research from Govt of India at IIT Delhi, **2024**.
5. **Translational Health Services**, given by the Embryogenesis Infertility Diagnostics & Research and ITHS-RBU directly to the public-
 - i) Specialized & Patented Infertility diagnostics Test (ERFA)
 - ii) Patented Immunotherapy (H₂-LIT) for Recurrent Pregnancy Loss / RIF / IVF failure
 - iii) Cellular Therapy / Regenerative Therapy
6. ITHS is the first Institute to introduce the "**Molecular Hydrogen Therapy**" as a subject in its curriculum.
7. ITHS of RBU is only University institute with top-notch Stem Cell Technology and regenerative medicine research with International reputed faculty.
8. ITHS is at the forefront of scientific innovations with **15+ patents** in 2023-2024.
9. **Industrial Collaboration** : More than **50+ Industrial collaboration** for Training, Research and Placement
10. ITHS is the one and only "University Institute" in Rayat Bahra University which offers translational health science courses that are multi-disiplinary and highly research driven programs:
 - i. **Nutrigenetics & Personalised Nutrition**, ii. **Cancer Biology**, iii. **Stem Cell & Regenerative Medicine**
 - iv. **Assisted Reproductive Technology & Clinical Embryology**, v. **Anthropology**

Innovators Research Program (IRP)

Think Research
Think ITHS



The Innovators Research Program (IRP) is an initiative aimed at fostering a research-oriented academic environment at **Institute of Translational Health Science (ITHS), RBU Mohali Campus**. This program will provide undergraduate and postgraduate students with early exposure to high-impact research, equipping them with scientific inquiry skills, problem-solving abilities, and innovation-driven thinking. Through this initiative, students will actively participate in real-world research projects, collaborate with faculty mentors, and contribute to scientific advancements through publications and patents.

The key objectives of IRP:

- Encouraging students to engage in research from their first year.
- Providing hands-on experience in cutting-edge research areas.
- Promoting a “**One Student, One Research Project**” approach.
- Supporting **patent filing and research publications**.
- Establishing collaborations with national and international research organizations.
- Enhancing career opportunities by preparing students for higher education and industry roles.

Key Features

- Mentorship Program: Each student will be guided by experienced faculty members.
- State-of-the-Art Research Labs: Access to advanced equipment and resources.
- Industry & Academic Collaborations: Partnerships with leading research institutions.
- Funding & Scholarships: Provision of financial assistance for research projects.
- Annual Research Symposium: A platform for students to showcase their research.

**FIRST TIME
IN NORTH INDIA**



B.Tech. Stem Cell & Tissue Engineering

Duration: 4 Years (8 Semesters)

Eligibility: 12th Class (PCB/M)

Semester Fee : INR 80,000/-

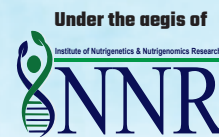
Annual Fee : INR 160,000/-

Total Course Fee: INR 640,000/-

Career Opportunities

Research Scientist
Biomedical Engineer
Biotechnologist
Pharmaceutical Industry
Hospital & Clinics
Academic Institution
Professor

DEPARTMENT OF NUTRIGENETICS



Nutrigenetics and Personalized Nutrition (NPN) is designed to equip students with a comprehensive understanding of how genetic variations influence nutrient metabolism, dietary requirements and overall health outcomes. Nutrigenetics have emerged as cutting-edge fields that integrate genetics, nutrition, and health to provide tailored dietary recommendations based on an individual's lifestyle and genetic makeup.



To empower students to comprehend and utilize genetic information towards targeted personalized nutritional advice. This unique and innovative course provides insight into all the latest developments in the fields of nutrition, genetics and nutrient-microbiome interactions with a strong emphasis on translating this knowledge into practical nutritional and lifestyle modification advice. Understanding this Genetics-guided precision nutrition opens the way to a new era of more effective healthcare services for increased well-being across all ages and improved lifestyle disease management.

CAREER OPPORTUNITIES

Holistic Nutritionist , Dietitian , Health and Nutrition Educator, Personalized Health Coach , Personalized Food Development, Food analyst, Food Industry Wellness Centers, Sports and Fitness Nutritionist

PROGRAMS OFFERED

B.Sc. (Hons / Research)
Nutrigenetics & Personalized Nutrition
Duration: 3 Years (6 Semesters) / 4 Years (8 Semesters)
Eligibility: 12th Class (Physics, Chemistry, Biology/ Math / Home Science)
Course Fee: INR 35,000/- Semester

M.Sc.
Nutrigenetics & Personalized Nutrition
Duration: 2 years (4 Semesters)
Eligibility: Undergraduate / B.Sc. Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, BVSc., and Allied Sciences
Course Fee: INR 55000 /- Semester

PG Diploma
Nutrigenetics & Personalized Nutrition
Duration: 1 year (2 Semesters)
Eligibility: Undergraduate / B.Sc. Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, BVSc., and Allied Sciences
Course Fee: INR 30000/- Semester

Certificate
Personalised Nutrition & Nutrigenetics
Duration: 6 Months
Eligibility: 12th
Course Fee: INR 35,000/-

FACULTY



DR. VANSHIKA TYAGI
M.sc., Ph.D.
Asst. Prof., ITHS, RBU
Patent: 1, Pub: 2



VIVEK NEWAR
Founder & Director
Dyet Life Care LLP
Scholar, ITHS, RBU
Patent: 1, Pub: 15+



Ms. ANJU
M.sc., Ph.D. (pursuing)
Asst. Prof., ITHS, RBU



Ms. PARAMJOT
M.sc., Ph.D. (pursuing)
Asst. Prof., ITHS, RBU



MRS. URVASHI SHARMA
(Ph.D. Scholar ITHS, RBU)



Mrs. SHIVANI
(Nutrition Specialist. &
Scientific Operation Strategist
Embryogenesis)

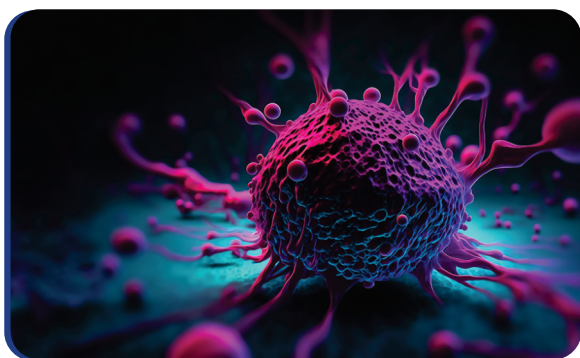
DEPARTMENT OF CANCER BIOLOGY



Cancer is a complex and multifaceted disease that continues to be a significant global health challenge. The field of cancer biology has emerged as a crucial area of study aimed at understanding the underlying mechanisms of cancer development, progression, and treatment. Cancer Biology program provides a comprehensive exploration of Cancer Biology subjects, Students can discover exciting possibilities within this program, designed to equip them with the necessary skills for impactful careers in cancer research. acquiring specialised expertise in molecular oncology, and cancer genetics. Embark on a transformative academic journey as a professional study of cancer cell biology with an B.Sc., M.Sc. Cancer Biology program, designed to delve into the intricate realm of cancer research and molecular biology.

CAREER OPPORTUNITIES

Cancer Biologist, Research Scientist in Oncology, Clinical Research Coordinator
Biotechnology Consultant, Pharmaceutical Industry Specialist, Academic
Researcher/Professor, Public Health Analyst, Entrepreneur in Biotech Start-ups
Genetic Counsellor, Clinical Laboratory Scientist, Medical Writer, Bioinformatics Scientist,
Principal Investigator in Biomedical Research



FACULTY



PROF. (DR). PULAKES PURKAIT
M.sc., Ph.D. Post Doc, (JRF, SRF, PDF)
Patent : 15+ , Publication : 30+
Professor, ITHS, RBU



Ms. ANJU
M.sc., Ph.D. (pursuing)
Asst. Prof., ITHS, RBU

PROGRAMS OFFERED

B.Sc. (Hons / Research) Cancer Biology

Duration: 3 Years (6 Semesters) / 4 Years (8 Semesters)

Eligibility: 12th Class (PCB/M)

Course Fee: INR 35000/- Semester



DR. KUMAR ABHIRAM JHA
M. Sc. Biotech, CUSAT, Kochin
PhD, AllIMS, New Delhi
Post-doc, UTHSC, USA
Assoc. Prof., ITHS, RBU



DR. VIDHU WADHWA
MBBS, MD (Path)
Consultant Pathologist
(Embryogenesis)

M.Sc. Cancer Biology

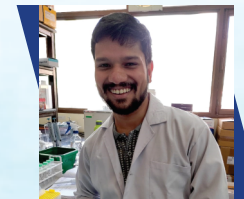
Duration: 2 years (4 Semester)

Eligibility: Undergraduate / B.Sc. Life Sciences,
Embryology, Nutrigenetics, Genetics, Microbiology,
Biotechnology, Anthropology, Human Biology, MLT /
MBBS, BDS, BVSc., and Allied Sciences

Course Fee: INR 55000 /- Semester,
Total Course Fee : INR 220,000/-



Ms. PARAMJOT
M.sc., Ph.D. (pursuing)
Asst. Prof., ITHS, RBU



KARAN SINGH NEGI
B.Sc. & M.Sc. (Micro)
Asst. Scientist.
(Embryogenesis)

DEPARTMENT OF STEM CELL TECHNOLOGY



Stem Cell & Regenerative Medicine is designed to provide students with a comprehensive understanding of the principles, techniques, and applications of stem cell biology and regenerative medicine in healthcare practice. Stem cell research and regenerative medicine have emerged as cutting-edge fields with the potential to revolutionize healthcare by offering novel treatments for a wide range of diseases and injuries.

The two years Master program (M.Sc.) and Four Years Undergraduate program (B.Sc.) in Stem Cell & Regenerative Medicine with research offers courses in cutting-edge emerging biomedical health science, including developmental biology, human embryology, stem cell biology, regenerative medicine, and the translational & therapeutic aspects of stem cell technology. The program also provides practical hands-on laboratory training with animal stem cell culture, processing and cryopreservation technologies. The B.Sc. (H), and M.Sc. and Certificate Programs of Stem Cell science focuses on new aspects of stem cell techniques of medical science, i.e. cell culture, characterization and maintenance of pluripotent embryonic and adult stem cell lines and its applications in regenerative medicine.

CAREER OPPORTUNITIES

- Stem Cell Researcher, Biomedical Engineer, Regenerative Medicine Scientist
- Academician or Professor, Research Associate, Medical Science Liaison
- Pharmaceutical Researcher, Biotech Entrepreneur.

PROGRAMS OFFERED

B.Sc. (Hons / Research) Stem Cell & Regenerative Medicine

Duration: 3 Years/ 4 Years (Hons & Research)

Eligibility: 12th Class (PCB / M)

Course Fee: INR 35,000/- / Semester

M.Sc. Stem Cell & Regenerative Medicine

Duration: 2 years (4 Semesters)

Eligibility: B.Sc. Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, BVSc., and Allied Sciences

Course Fee: INR 55,000/- / Semester, Total Fee : INR 220,000/-
+ Industrial Training fee INR 60,000/-

Certificate Stem Cell Processing & Cryopreservation

Duration: 7 Days

Eligibility: 12th (PCBM), B.Sc. Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, Ph.D., BVSc., and Allied Sciences

Course Fee: INR 30,000/-

FACULTY



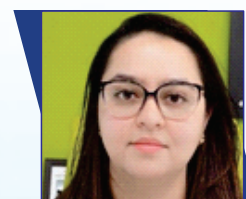
DR. KUMAR ABHIRAM JHA
M. Sc. Biotech, CUSAT, Kochin
PhD, AIIMS, New Delhi
Post-doc, UTHSC, USA
Assoc. Prof., ITHS, RBU



MR. VIVEKGIRI GOSWAMI
M.sc., Ph.D. (pursuing)
Asst. Prof., ITHS, RBU



MS. NANCY SAINI
B.Sc. (Micro), M.Sc. (Biotech.),
UGC NET, ICAR AICE -JRF
Stem Cell Biologist
Asst. Prof. ITHS, RBU



DR. SAHIBA S. SINDHU
MBBS, MS
(Stem Cell Specialist)
MEDICAL OFFICER



PROF. A.K. SAXENA
Prof & Head, Dept. of
Pathology, AIIMS, Patna
(Visiting Prof.)



DR. ANAND SRIVASTAVA
(Chairman, GIOSTAR - USA)
(Visiting Prof.)

DEPARTMENT OF ART & CLINICAL EMBRYOLOGY

Under the aegis of



EMBRYOGENESIS
"Refining Family Evolution"



Embryology is the science and sub field of Assisted reproductive technology (ART) that deals with the development and growth of an individual before birth. It begins with fertilization of an oocyte (ovum) by a sperm and culminates with the birth of the baby.

Clinical Embryology is a stream of biology which mainly focuses on the study of fertilisation of eggs and the healthy development of the embryos. Specialised persons working in the field of Clinical Embryology are known as embryologists. An embryologist focuses on the creation of embryos outside the mother's womb (Embryology Laboratory) with the help of sperm and eggs. Therefore, they play a very critical role in the lives of couples devoid with naturally conceiving abilities..

CAREER OPPORTUNITIES

- Embryologist, Lab Director, ART quality manager, Academician, Professor, Researcher



PROGRAMS OFFERED

B.Sc. (Hons. / Research) ART & Clinical Embryology

Duration: 3 Years / 4 Years (Hons / Research)

Eligibility: 12th Class (PCB/M)

Course Fee: INR 35,000/- / Semester

M.Sc. ART & Clinical Embryology

Duration: 2 years (4 Semesters)

Eligibility: Undergraduate / B.Sc. Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, BVSc., and Allied Sciences

Course Fee: INR 100000/- Semester, Total Fee : 4,00,000/-
+ Industrial Training Fee : 100000 /-

PG Diploma ART & Clinical Embryology

Duration: 1 year (2 Semesters)

Eligibility: Undergraduate / Post Graduate in Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, BVSc., and Allied Sciences

Course Fee: INR 100000/- Semester, Total Fee : 2,00,000/-
+ Industrial Training Fee : 50000 /-

FACULTY



MS. ARNIKA SINGH
B.Tech & M.Tech (Biotech),
PGD Clinical Embryology, Ph.D. (pursuing)
Embryologist & Asst. Prof., ITHS, RBU



Ms. VIVEKGIRI GOSWAMI
M.sc., Ph.D. (pursuing)
Asst. Prof., ITHS, RBU



DR. SADHANA DESAI
Project In-charge,
Embryology Training iSAR, Mumbai
(Visiting Prof.)



DR. VIJAY MANGOLI
Project Co-ordinator
iSAR Embryology Course Mumbai
(Visiting Prof.)



DR. RIMMY SINGLA
MBBS, DGO, FICOG, MRCOG-UK
Director, Radiance Hospital &
Test Tube Baby Center
(Reproductive Medicine)
(Visiting Prof.)



DR. VED PRAKASH
Founder, iHERA, New Delhi
(Visiting Prof.)



DR. ALKA
Director, Alka IVF, Udaipur
(Visiting Prof.)



DR. RITESH AGARWAL
Head, Training Embryology, IFA,
Indira IVF
(Visiting Prof.)



DR. CHARULATA CHATTERJEE
Senior consultant embryologist
Visiting Prof.



DR. MEENU BHANOT
Ph.D. (Exp:15 Years.)
Asst. Prof., Clinical Embryology
Embryologist,

DEPARTMENT OF ANTHROPOLOGY



Anthropology is a multidisciplinary field that encompasses the study of human societies, cultures, and their development over time. This program combines social sciences, natural sciences, and humanities to offer a holistic approach to studying human beings and their interactions with each other. B.Sc. / M.Sc. in Anthropology is designed to provide students with a comprehensive understanding of human diversity, evolution, Health, Nutrition, Human genetics, and behaviour. This program combines elements of social sciences, natural sciences, and humanities to offer a holistic approach to studying human beings and their interactions with each other and the environment.

CAREER OPPORTUNITIES

- Anthropologist, Researcher, Govt. officer, Academic Researcher
- Professor, Human biologist, Sport Anthropometrist, IAS, IPS, civil service aspirant



PROGRAMS OFFERED

B.A. / B.Sc. (Hons/ Research) Anthropology

Duration: 3 Years (6 Semesters) / 4 Years (8 Semesters)

Eligibility: 12th Class any subject

Course Fee: INR 35,000/- Semester

M.A. / M.Sc. Anthropology

Duration: 2 years (4 Semesters)

Eligibility: Undergraduate / B.Sc. Life Sciences, Embryology, Nutrigenetics, Genetics, Microbiology, Biotechnology, Anthropology, Human Biology, MLT / MBBS, BDS, BVSc., and Allied Sciences / any subject

Course Fee: INR 55000/- Semester

VISITING FACULTY



PROF. A.K. SINHA
Retd. Professor
Panjab University, Chandigarh



PROF. J.M. NAIDU
Former Registrar,
Andhra University, Andhra Pradesh



DR. R. SAHANI
Associate Prof.
University of Delhi



DR. RAJ KUMAR
Research Associate (Cultural)
Anthropological Survey of India (Govt. of India)

LABORATORY & INSTRUMENTS FACILITY



EMBRYOLOGY



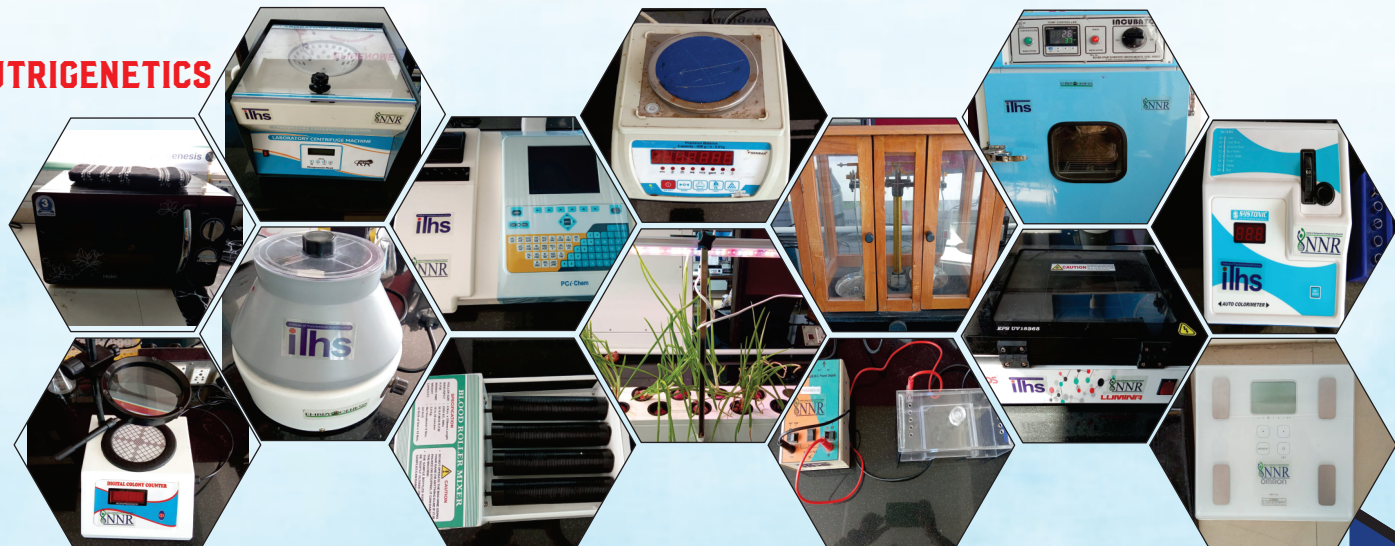
STEM CELL



CANCER BIOLOGY



NUTRIGENETICS



WORKSHOP & TRAINING



WORKSHOP ON ORAL CANCER



WORKSHOP ON INNOVATIVE FARMING SOLUTIONS



SKILL DEVELOPMENT PROGRAM:



INDUSTRIAL VISIT



FRESHER PARTY @ ITHS : NAI UDAAN 2024



FRESHER PARTY @ RBU



Miss Fresher of RBU,
Mobel Jakobs, Dept. of Nutrigenetics, ITHS

SCIENCE BRANIACS 2024: Festival of science @ ITHS



Mental Health Awareness program @ ITHS



Breast Cancer Awareness Program @ ITHS



APPRECIATION



S. Gurvinder Singh Bahra
Chairman, Rayat Bahra Group
Ms. Jyoti Garhwal
Founder & Director, INNR & ITHS



Gurinder Bahra
Vice Chairman,
Rayat Bahra Group, Punjab



Dr. Anand Shrivastava,
Chairman, Co-Founder
& CSO, GIOSTAR-USA



Ms. Jyoti Garhwal
Founder & Director,
INNR & ITHS, Chhattisgarh



Prof. Lopamudra Bhattacharyya
Founder & Principal
GLF Business School, Kolkata



Prof. (Dr.) Simerjit
Director, IQAC
Rayat Bahra University



Dr. Alka
Director,
Alka IVF, Udaipur



Prof. (Dr.) Madhumita Mukherjee
Director-Principal, USTAHS,
Rayat Bahra University



Dr. Pradeep Bandwal
Director, Narayani IVF,
Udaipur



Prof. (Dr.) Neena Mehta
Dean Academics,
Rayat Bahra Dental College
& Hospital



Dr. Sudipta Mukherjee
HOD, USTAHS,
Rayat Bahra University



Dr. Ritesh Agarwal
Director, IFA,
Indira IVF, Udaipur



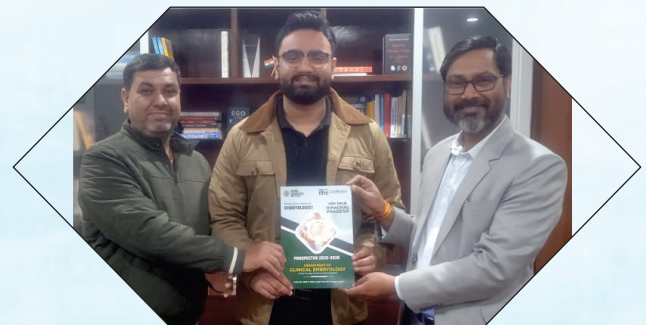
Dr. Parul Sharda
Director,
Parul IVF, Ahmedabad



Dr. Krishan Poonia
Director,
VATSALYA IVF, Bikaner



Mr. Vineet Kumar
Registrar, Bahra University
Mr. S. Gurvinder Singh Bahra
Chancellor, Bahra University
Mr. Anurag Awasthi,
Director Admission, Bahra University



Mr. Gurinder Singh Bahra
Vice Chairman,
Rayat Bahra Group



NUTRIGENETICS

A New Career in Translational Science

Nutrigenetics is a new field of study that combines the fields of nutrition and genetics. It focuses on how diet and lifestyle can influence our genes and how our genes can influence our diet. This field is particularly important in the context of personalized medicine, where treatments are tailored to an individual's genetic makeup.

The RBU, in partnership with the Institute of Nutrigenetics and Nutrigenomics Research (INNR), has launched a comprehensive Nutrigenetics program. This pioneering initiative aims to offer cutting-edge education and research opportunities in the rapidly evolving field of Nutrigenetics, which explores the relationship between diet, lifestyle, and genetics.

The program is designed to cater to various levels of academic and professional aspirations and includes B.Sc., M.Sc., Ph.D. and PhD courses, is being offered in the region. The collaboration with INNR brings a wealth of expertise and resources to the program. INNR is renowned for its research in nutritional genomics and personalized nutrition. This partnership ensures that students receive education and training that is aligned with the latest scientific advancements and industry standards, he added.

Bahra said in a big initiative the RBU has decided to introduce an extensive Cancer Biology program in North India. This marks the first time such a comprehensive curriculum, including BSC, MSc., and PhD courses, is being offered in the region. This initiative aims to revolutionize medical education and research, positioning North India as a leader in cancer studies.

RBU TO START NEW COURSES IN NUTRIGENETICS, CANCER BIOLOGY

DW BUREAU / MOHALI

RAYAT BAHRA Group of Institutions, in partnership with the Institute of Nutrigenetics and Nutrigenomics Research (INNR), announced the launch of India's first comprehensive Nutrigenetics program. This pioneering initiative aims to offer cutting-edge education and research opportunities in the rapidly evolving field of Nutrigenetics, which explores the relationship between diet, lifestyle, and genetics.

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विभाजित बाहरी यूनिवर्सिटी के वैज्ञानिकों के सर्वश्रेष्ठ इनोवेटिव प्रस्कार

सचिव नृणा / विज्ञान

मोहाली, 10 दिसंबर : रायात बाहरी यूनिवर्सिटी के वैज्ञानिक डॉ. पुरकेश पुरकेश बैट इन्वेंटर अवार्ड हासिल कर रहे हैं।

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Cutting-Edge Digital Biometrics

Gain Design Patent, Enhancing Medical Diagnostics

A major milestone in medical diagnostics has been achieved with the issuance of a design patent for the innovative Digital Biometrics. This advanced device, which sets new standards in user-friendly and non-invasive medical equipment, is poised to transform clinical diagnostics.

Amrith Tawar

Cutting-Edge Digital Biometrics

Best Innovator Award for RBU scientist

PUNJAB NEWS EXPRESS | December 12, 2024 08:14 AM

MOHALI: Dr. Pulakesh Purkait, Director and Head of the Institute of Translational Health Science, Rayat Bahra University, and Founder Director of Embryogenesis - Infertility Diagnostics and Research, has been honored with the "Best Innovator Award" at the National Biotech and Health Conclave 2024. The award recognizes his patented endometrial test, "ERFA - The Soil Test," a groundbreaking innovation in infertility diagnostics.

The prestigious conclave was hosted by the Ministry of Micro, Small, and Medium Enterprises and held at the Research and Innovation Park, IIT Delhi.

Chairman Gurinder Singh Bahra and Vice-Chancellor Prof. (Dr.) Parvinder Singh lauded Dr. Purkait's remarkable achievement, highlighting it as a proud moment for the university. They emphasized that his pioneering work reflects the institution's commitment to fostering cutting-edge research and innovation.

Best Innovator Award for RBU scientist

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NEWS BRIEF

ERFA - The Soil Test & LIT H2

Therapy kit to check IVF failure launched at RBU

UK BANSAL

MOHALI: Prof. Pulakesh Purkait, founder of Embryogenesis, and Professor and Head, Translational Health Science, Rayat Bahra University, has developed a revolutionary diagnostic test "Endometrial Receptivity & Function Assay, 'ERFA - The Soil Test' for the explanation of unexplained infertility, recurrent IVF failure, recurrent implantation failure and recurrent pregnancy loss. This endometrial testing developed in India is based on immunohistochemistry method, which explains different molecular markers in endometrium for successful pregnancy or successful IVF procedure. The test is patented by Prof. Purkait in India.

The ERFA - The Soil Test and LIT-H2 antioxidant therapy can be a hope for mothers-to-be. The "ERFA - The Soil Test Kit" was launched by Gurinder Singh Bahra, Vice-Chancellor of Rayat Bahra Group of Institutions. Prof. Purkait and Jyoti Garhwal, founder and Director, Institute of Translational Health Science, developed a therapeutic method "LIT-Hydrogen antioxidant therapy" for reproductive health. The therapy can help check the recurrent pregnancy loss or IVF failure.

This therapy is patented by Prof. Purkait, Garhwal, Embryogenesis, Institute of Translational Health Sciences (ITHS), Institute of Nutrigenetics and Nutrigenomics Research (INNR) and Rayat Bahra University.

Gurinder Singh Bahra, Chancellor of the RBU, said he was elated at the pioneering work done by the two scientists. He complimented them on their commendable research work and hoped that they would continue to excel in their fields of specialization and hoped that the new therapy would benefit those in need of this treatment.

Jaggery distributed to Rallih residents on occasion

आइवीएफ की असफलता को जांचेंगी ईआरएफ थैरेपी किट

जगत बंसल

मोहाली, 10 दिसंबर : रायात बाहरी यूनिवर्सिटी के वैज्ञानिक डॉ. पुरकेश पुरकेश बैट इन्वेंटर अवार्ड हासिल कर रहे हैं।

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Science Fest organised at Rayat Bahra University

DW BUREAU / MOHALI

"Science Brainiacs", a science fest was jointly organised by Institute of Translational Health Science (ITHS) and Department of Life Sciences of Rayat Bahra University. Various competitions were organised including Startups Display, Projects Display, Collage Making and Poster making Photography, Science Model, and Healthy Food Competition.

Vice-Chancellor Dr. Parvinder Singh shared his views about Science Brainiacs with the participants and presided over the prize distribution ceremony. Dr. Simerjit Kaur, Dean, Students Welfare, welcomed the dignitaries and participants and encouraged the participants to showcase their skills.

Jyoti Garhwal, Founder and Director, ITHS, stated that the purpose of organising Science Brainiacs was to provide a platform to the students to engage themselves into various activities that enhance their skills and abilities.

Dr. Kumar Abhiram Jha, Chief Scientist, GOSTAR, USA, Professor AK Sinha, Department of Anthropology, Panjab University, Chandigarh, and Dr. Indu Sharma, Department of Zoology, Panjab University, were jury members. Dr. Neena Mehta, Dr. Manoj Bali, Dr. Sonika Vatta also judged the competitions.

Dr. Pulakesh Purkait, Director of ITHS, highlighted the significance of the Science Brainiacs, and proposed a vote of thanks. The event was coordinated by Vanshika Tyagi Gupta, Assistant Professor in the Institute of Translational Health Science. Winners of various competitions were honoured with trophies and certificates in different competitions. In Science model competition first prize won by Madhav Ahuja, second prize won by Rudraksha Monga and Priya Thakur, third prize won by Malleha. In photography competition first prize was won by Arshpreet Kaur, second prize by Anmol Chaudhary and the third prize was bagged by Mohammad Yousuf Dar. In poster making the first prize was won by Amarjot Kaur, second prize by Gurpreet Kaur and the third prize was won by Megha Verma. In Collage Making Competition first prize, Nidhi won the second prize, and Afshan won the third prize. In the Healthy dish competition Shreya Jain first prize, Tamanna Kapoor won second prize and Ramica and Gauri jointly bagged the third prize.

रयात बाहरी यूनिवर्सिटी में सजा विज्ञान मेला

मोहाली। एक विज्ञान मेला 'साइंस ब्रेनियार्क्स' का आयोजन इंडस्ट्रीयुट ऑफ ट्रांसलेशनल हेल्थ साइंस और रयात बाहरी विश्वविद्यालय के जीवन विज्ञान विभाग द्वारा संयुक्त रूप से किया गया था। इस अवसर पर स्टार्टअप डिस्प्ले, प्रोजेक्ट डिस्प्ले, कोलाज मेकिंग और पोस्टर मेकिंग फोटोग्राफी, विज्ञान मॉडल और स्वस्थ भोजन प्रतियोगिता सहित विभिन्न प्रतियोगिताएं आयोजित की गईं। पुरस्कार वितरण समारोह की अध्यक्षता करते हुए कुलपति डॉ. परविंदर सिंह ने साइंस ब्रेनियार्क्स पर अपने विचार साझा किए। छात्र कल्याण डीन डॉ. सिमरजीत कौर ने गणमान्य व्यक्तियों और प्रतिभागियों का स्वागत किया और उन्हें अपने कौशल का प्रदर्शन करने के लिए प्रोत्साहित किया। आईटीएचएस की संस्थापक और निदेशक ज्योति गढ़वाल ने कहा कि साइंस ब्रेनियार्क्स के आयोजन का उद्देश्य छात्रों को विभिन्न गतिविधियों में शामिल होने के लिए एक मंच प्रदान करना है, जो उनके कौशल और क्षमताओं को बढ़ाते हैं। डॉ. कुमार अभिराम झा, मुख्य वैज्ञानिक, जियोस्टार यूएसए, प्रोफेसर एके सिन्हा, मानव विज्ञान विभाग पंजाब विश्वविद्यालय चंडीगढ़ और डॉ. इंदु शर्मा, प्राणीशास्त्र विभाग पंजाब विश्वविद्यालय जूरी सदस्य थे।

Science Fest organised at Rayat Bahra University

LK BANSAL MOHALI, APRIL 25

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“Felicitation” to Jyoti Garhewal, Founder & Director ITHS
International Conference Organised by Department of Anthropology,
Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh 8-9 March 2025



“Best Innovator Award” to Prof. (Dr.) Pulakes Purkait, Director, ITHS
National Biotech & Health Conclave 2024
Hosted by Ministry of MSME, Govt. of India, at IIT Delhi , 27th Nov. 2024

PATENT

- 1. ReceptivityPX : A BIOMARKER IDENTIFICATION METHOD FOR ANALYZING ENDOMETRIAL RECEPTIVITY AND IMMUNE COMPETENCY**
 (Application No.202411059621 A, Publication Date : 27/09/2024)
- 2. A Preparatory Method of Lymphocyte Immune- Modulation and Molecular Hydrogen (H₂) Antioxidant Therapy**
 (Patent No.202411037742 A; Publication Date: 14/06/2024)
- 3. A Testing Method for Endometrial Receptivity & Function Assay (ERFA) for Improving Successful Embryo Implantation**
 (Patent No.202431001616 A; Publication Date: 09/02/2024)
- 4. LIT- H₂ ANTIOXIDANT KIT** (DESIGN NO. 413317-001; DATE 12/04/2024, GRANT DATE : 07/08/2024)
- 5. DIGITAL BIOTHESIOMETER** (DESIGN NO. 406611-001; GRANT DATE : 09/07/2024)
- 6. A method of improving embryo implantation during IVF**
 (Patent No.202211073981 A; Publication Date: 30/12/2022)
- 7. Cell Sheet Based Regenerative Therapy in Cardiology**
 (Patent Application No.202311076252 A; Publication Date: 01/12/2023)
- 8. A Method for Assessing Students' Mindset and Psychological Stress Levels before and after Examinations**
 (Patent Application No.202421004316 A; Publication Date: 09/02/2024)
- 9. A method for personalized nutritional and supplementation recommendations based on multi-gene analysis for enhanced health outcomes.** (Patent Application No. 202411072293A, Publication Date : 22/11/2024)
- 10. Advanced water filtration system utilizing carbon nanotubes for enhanced contaminant removal**
 (Applied on FEB. 2024)

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