

## Diagnostic and Skill Laboratories of the Institute

S. No.	Department	Laboratory	Nature of the Laboratory
1.	Anaesthesiology	Skill Lab	Skill
		Simulation Lab	Skill
2.	Clinical Immunology & Rheumatology	Autoantibody Lab	Diagnostic
		Acute Phase Reactant Lab	Diagnostic
		Immunodeficiency Lab	
		Nail Fold Capillaroscopy Lab	Diagnostic
		Ultrasound Lab	Skill
		Research Lab-1	Skill
		Research Lab-1	Skill
3.	Cardiology	Echo Lab	Diagnostic
		TMT Lab	Diagnostic
		Holter Lab	Diagnostic
		Cath Lab	Diagnostic and Skill
4.	Cardio-vascular & Thoracic Surgery (CVTS)		
5.	Critical care Medicine (CCM)	None	N/A
6.	Emergency Medicine		
7.	Endocrinology		
8.	Endocrine & Breast Surgery		
9.	Gastroenterology	Endoscopy Theater (E-Block)	Diagnostic and Skill
		Endoscopy Theater (Naveen OPD)	Diagnostic and Skill
		GE Serology Lab	Diagnostic and Research
		GE Biochemistry Lab	Diagnostic and Research
		GI Physiology and Manometry Lab	Diagnostic and Skill
10.	Hematology	Bone Marrow Procedure Theater	Skill
		Cancer Cytogenetics Lab	Diagnostic and Skill
		Coagulation Lab	Diagnostic
		Flow Cytometry Lab	Diagnostic and Skill
		Hemolytic Anemia Lab	Diagnostic
		Microbial Hematology Lab	Diagnostic
		Molecular Hematology Lab	Diagnostic and Skill
		Morphology Lab	Diagnostic and Skill
		Myeloma Lab	Diagnostic
Transplant Biology Lab	Diagnostic		
11.	Hepatology	Endoscopy Theater	Diagnostic and Skill
		Endoscopic Ultrasound Lab	Diagnostic and Skill
		Hepatitis Molecular Lab	Diagnostic and Skill
		Hepatitis Serology Lab	Diagnostic and Skill
		Liver Physiology Lab	Diagnostic and Skill



		Molecular Lab	Diagnostic and Skill		
		Clinical chemistry Lab	Diagnostic		
23.	Pediatric Gastroenterology	Pediatric Gastro Lab	Diagnostic		
24.	Pediatric Surgery Superspecialities	Laparoscopic Simulation Lab	Skill		
		Aerodynamic Lab	Diagnostic		
25.	Plastic Surgery & Burns	None	N/A		
26.	Pulmonary Medicine	Pulmonary Function Test Lab	Diagnostic and Skill		
		Polysomnography Lab	Diagnostic and Skill		
		Bronchoscopy Lab	Diagnostic and Skill		
		Interventional Pulmonology lab	Diagnostic and Skill		
27.	Radiodiagnosis				
28.	Radiotherapy	Medical Physics Lab	Skill		
29.	Surgical Gastroenterology				
30.	Transfusion Medicine	Blood Component Lab	Diagnostic		
		Cross Match Lab	Diagnostic		
		Donor Apheresis & Therapeutic Plasma Exchange Lab	Diagnostic and Skill		
		Hemostasis Lab	Diagnostic and Skill		
		Immunoematology Lab	Diagnostic		
		Molecular Lab	Skill		
		Nucleic Acid Lab	Diagnostic and Skill		
		Quality Control Lab	Diagnostic		
		31.	Urology	Urology Research Lab	Diagnostic and Skill





संजय गाँधी स्नातकोत्तर आयुर्विज्ञान संस्थान, लखनऊ  
**Sanjay Gandhi Postgraduate Institute of Medical Sciences**

**Dr. Shubha R. Phadke**  
M.D. (Paediatrics), D.M. (Medical Genetics)  
**Professor & Head**  
Department of Medical Genetics

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Lucknow-226014 (India)

*Sanjay Gandhi Postgraduate Institute of Medical Sciences Lucknow*  
*Department of Medical Genetics*

S No	Name of Skill	Year of establishment	Used in training program (Program name and date)	
1	Biochemical genetics lab (Enzyme assays)	2011	These skill labs are used for demonstrations during- 1) YearlyICMR Course (15 days) on Medical Genetics and Genetic Counselling 2) Observers and short term training in MSc programmes	
2	Cytogenetics	Karyotype		1989
		MLPA		2012
		QFPCR		2014
		Microarray		2012
3	Genetic Haematology	1989		
4	Molecular genetics	Sanger sequencing		2005
		TPPCR		2015
5	Research lab (NGS lab)	2015		
6	New-born screening lab	2012		
7	Research lab (Stem cell culture lab)	2020		
8	Research lab (Molecular biology lab)	1989		
9	Research lab (Culture lab)	2020		

*\*In addition to routine patient diagnostics, these labs are being used for training DM medical students since 1990, PDCC clinical and molecular genetics since 2021 and MSc Genetic counselling since 2022.*

  
10/04/2024

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## Department of Neurology

S.No.	Name of Skill Lab	Year of the Establishment	Used in training Programme (Programme name and date)
1.	Neurophysiology	1987	1987
2.	Neurochemistry	1988	1988
3.	Sleep Lab	2001	2001

(Dr. Sanjeev Jha)

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### Department of Maternal and Reproductive Health.

S.No	Name of skill	Year of Establishment	Used in training program For regular teaching of PDCC students and senior residents
1.	<b>Obstetric skill lab:</b> Noelle Maternal birthing simulator  Bony pelvis and fetal skull	2018	Used in the training of <ul style="list-style-type: none"> <li>• Management of obstetrical emergencies like postpartum hemorrhage, eclamsia.</li> <li>• Conducting normal delivery and episiotomy repair</li> <li>• Instrumental and breech delivery.</li> <li>• Management of shoulder dystocia.</li> <li>• Manual removal of placenta</li> </ul>





DEPARTMENT OF TRANSFUSION MEDICINE  
संजय गाँधी स्नातकोत्तर आयुर्विज्ञान संस्थान, लखनऊ  
SANJAY GANDHI POSTGRADUATE INSTITUTE OF MEDICAL SCIENCES  
Raebareli Road, Lucknow-226014 INDIA

Department of Transfusion Medicine

PBTJ/TM/6016/2024

Dated: 10/04/2024

S. N.	Name of Skill	Year of Establishment	Training program name & date
1	Blood Donation & Apheresis (in donors) including Therapeutic Plasma Exchange (in patients)	1990	1. These skill/diagnostic labs are used yearly for NACO /UPSACS training programs involving medical officers , lab technicians and nurses from across the state 2. Short term training of blood bank doctors from Bokaro General Hospital, Bokaro (Jharkhand) in 2021; Firozabad in 2020; Civil hospital Lucknow in 2019 to name a few in recent times 3. Hemophilia lab diagnosis training program for doctors & technicians on 28-29 April 2017.
2	Crossmatch Lab	1990	
3	Immunohematology	2002	
4	Quality Control & Hemostasis Lab	2002	
5	Component Lab	1990	
6	Molecular Lab	2014	
7	NAT Lab	2014	
8	Transfusion Transmitted Infections Lab	1990	

In addition to routine patient diagnostics these labs are being used for training of MD Transfusion Medicine students since 1993, PDCC Apheresis Technology & Blood Component Therapy since 2001 and BSc-MLT (Transfusion Medicine) since 2022.

Signature of HOD

Dr. Priti Elhence

Act M.D.

Professor

Dept. of Transfusion Medicine

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**Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow**

**Department: Gastroenterology**

<b>Serial Number</b>	<b>Name of Skill</b>	<b>Year of Establishment</b>	<b>Used in Training program (program name and date)</b>
1	Endoscopy Theater (E-Block)	1988	DM course
2	Fibroscan (Naveen OPD)	2012	DM course
3	GE Serology Lab	1988	DM course, PhD course
4	GE Biochemistry Lab	1989	DM course, PhD course
5	GI Physiology and Manometry Lab	1989	DM course, PhD course

  
Signature of HOD

**Dr. Praveer Rai, MD, DM**  
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**Dr. Amita Aggarwal**

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## Department of Clinical Immunology and Rheumatology

S No	Name of Lab	Name of skill	Year of establishment	Used in training (program name & date)	External training
1	Autoantibody Lab	ANA by IIF	1989	DM students from 1989	Conducted 15 national level autoantibody workshops to train physicians in use of these tests from last 30 years
2		ANCA by IIF	1991	DM students from 1992	
3		ELISA for autoantibodies	1990	DM students from 1990	
4		Immunoline assay for autoantibodies	1993	DM students from 1993	
5	Acute phase Lab	Nephelometry assay for proteins	1990	DM students from 1990	
6	Immunodeficiency Lab	Lymphocyte subsets by Immunochemistry	1990	DM students 1990	
7		Lymphocyte subsets by Flowcytometry	2000	DM & PhD students from 2000	
8		Neutrophil function tests	2000	DM & PhD students from 2000	
9	Cell culture facility (research lab I and II)	PBMC cultures, cellular assays	1990	DM & PhD students 1990	
10	Research lab I & II	Western blotting	1990	PhD students 1990	

The labs in the department are well equipped to impart skill on most immunological tests as well as carry out research activities

  
Dr Amita Aggarwal  
April 10, 2024



# Sanjay Gandhi Postgraduate Institute of Medical Sciences

Raebareli Road, Lucknow

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## Dr. Sanjay Gambhir

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### Department of Nuclear Medicine

S No	Name of skill	Year of establishment	Used in training (program name & date)
1	PET/CT Radiopharmacy Lab	2013	MD, MSc, PhD, Post Doc Programe
2	Gamma Camera Radiopharmacy Lab	1989	MD, MSc
3	Invitro Lab	1989	MD, MSc
4	Radiochemistry Lab	2014	PhD, Post Doc
5	Cell Culture Lab	2021	PhD, Post Doc
6	PET/CT Camera	2019	MD, MSc
7	SPECT/CT Camera	1989	MD, MSc

The labs in the department are well equipped to impart skill on most Nuclear Medicine tests as well as carry out research activities

(Dr. Sanjay Gambhir)

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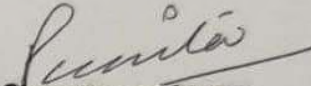
April 12, 2024

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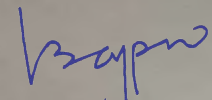
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Department:

Serial Number	Name of skill	Year of establishment	Used in training program ( Program name and date)
1	RADIOTHERAPY SIMULATION	1990	MD [BSC(CMT)-2018]
2	RADIOTHERAPY PLANNING	1990	MD [BSC(CMT)-2018]
3	BRACHYTHERAPY	1990	MD [BSC(CMT)-2018]
4			

  
Signature of HOD

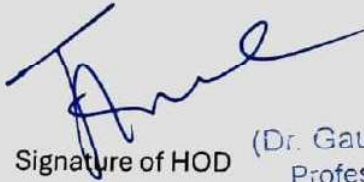
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Department of Endocrine Surgery

Sl. No.	Name of Skill	Year of establishment	Used in training program (program name and date)
1.	Tumor Markers Laboratory	2002	MCh endocrine surgery. 2004
2.	Minimally invasive surgery skills lab	2004	MCh endocrine surgery. 2004



Signature of HOD (Dr. Gaurav Agarwal)  
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## Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow

### Department of Molecular Medicine and Biotechnology

S. No.	Name of Lab	Name of skill	Year of establishment	Used in training (program name & date)
1	Patient care Lab	Triple marker Test	2012	<p>Diagnostic labs</p> <p><b><u>Trained Gynecologists from various hospitals and clinics in Lucknow and adjoining areas:</u></b> Workshop and CME on Molecular HPV-Testing- 10.02. 2018</p>
		Homocysteine Test	2012	
		Quadruple Marker Test	2014	
		Double Marker Test	2015	
		Human Chorionic Gonadotropin Test Alpha-Fetoprotein Test		
		HC2 HPV DNA screening	2018	
		HPV 16 & 18 Genotyping	2019	
2.	Cell Culture Lab 1	Kidney cells, Confocal Microscopy	2011	<p><b><u>M.Sc and PhD training:</u></b></p> <p><b><u>Workshops/training organized</u></b></p> <ul style="list-style-type: none"> <li>• Confocal microscope workshop organized: on 10 and 11 September 09.2015</li> <li>• Annual Workshops 'Biotechnology Methods' in the year 2011, 2013 and 2015, 2016</li> <li>• Demonstration of Molecular Diagnostics Techniques during <b>01/02 courses</b> on Molecular Diagnostics to PhD students</li> </ul>
		Breast cells, Glioblastoma cells, macrophage cells culture,	2019	
3.	Cell Culture Lab 2	mesenchymal stem cell Trophoblast cell, culture	2019	<ul style="list-style-type: none"> <li>• "Training on Laboratory &amp; Quality control/assurance procedure for Universal salt iodination Program in UP" sponsored by UNICEF &amp; DST in 2012</li> </ul>
4.	Research Lab 1	Basic Bio-chemistry and molecular Biology lab	2011	



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		Exosome lab	2011	<b><u>M.Sc and PhD training:</u></b>  <b><u>Workshops/training organized</u></b>
5.	Genomics Lab	RT-PCR	2012	<ul style="list-style-type: none"><li>• Nanotechnology in Molecular Medicine workshop, June 27<sup>th</sup>, 2018</li><li>• Small RNA Isolation &amp; Characterization- workshop, February 24<sup>th</sup>-25<sup>th</sup> 2020</li><li>• Gene Profiling using Microarray Technology- 3 days workshop, February 28<sup>th</sup>, 2020</li></ul> <b><u>To train faculty members following workshop were organized</u></b> <ul style="list-style-type: none"><li>• ICMR -National Capacity Building workshops – April 13-14, 2023</li><li>• ICMR -2<sup>nd</sup> National Capacity Building workshops – February 19<sup>th</sup>-20<sup>th</sup>, 2024</li></ul>
		Small RNA facility	2013	
		Microarray	2017	
6.	Flow cytometry Lab		2022	
7.	Research Lab 2	Neuroimmunology lab	2019	<b><u>M.Sc. and PhD training</u></b>
8.	Research Lab 3	Mitochondrial Biology Lab	2019	<b><u>M.Sc. and PhD training:</u></b>  <b><u>One Day Research Facility Training:</u></b> <i>Methods in cancer cell biology for M.Sc. and PhD students, September 23<sup>rd</sup> 2022</i>
9.	Research Lab 4	Membrane Fusion lab	2020	<b><u>M.Sc. and PhD training</u></b>

Signature of HOD

*Swasti*  
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