NAME	Navkiran kaur	
DESIGNATION	Associate Professor	199
EMAIL ID	navkirank@amity.edu	
CONTACT NUMBER	8826332111	1 de
RESEARCH INTERESTS	Cancer biology, glycosylation, inflammation	cell signaling,

EDUCATIONAL QUALIFICATIONS:		
Name of College / University	Degree	Year
Kurukshetra University, Kurukshetra	B.Sc. (Biochemistry)	1996
Panjab University, Chandigarh	M.Sc. (Hons) Biochemistry	1998
Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh	Ph.D. (Medical Biotechnology)	2008

**Title of Ph.D. thesis:** Effect of different forms of HDL on Ox-LDL mediated cellular responses in differentiated monocytes/macrophages

EXPERIENCE (in chronological order): Total 20 Years Research & Teaching			
Designation	Type of post held	Name of the Institute	Year (From – To)
C	(teaching/ research)		
Associate	Teaching and		
Professor	Research	Amity Institute of Biotechnology	Aug 2022-till date
Assistant			
Professor (Grade	Teaching and		
III)	Research	Amity Institute of Biotechnology	2017 –july2022
Assistant			
Professor (Grade	Teaching and	A mity Institute of Distochnology	2011 2016
11)	Research	Anny Institute of Biotechnology	2011-2016
Assistant Professor (Grade	Taashing and		
I)	Research	Amity Institute of Biotechnology	2007-2010
Senior		Postgraduate Institute of Medical	2007 2010
Research		Education and	
fallow	Dagaanah	Descende (DCIMER) Chandicarth	2006 2007
	Research	Research(POINER), Chandigarn	2000-2007
Junior		Postgraduate Institute of Medical	
Research		Education and	
fellow	Research	Research(PGIMER), Chandigarh	1999-2006
		Awarded :2	
No. of Ph.D. stu	idents supervised	Ongoing : 1	
No. of Junior R	esearch fellow/ Post		
doc		1	
No. of M.Tech/M	MSc. Students		
supervised:		15	
No. of B.Tech/B	B.Sc. Students		
supervised:		40	

	Details: (original articles/chapters/abstracts published)
	<ol> <li>Priming the Nutrition-Gut-Immuno-Oncology Axis Saha, A., Kapoor, N., Kaur, N., Bose, S., Kesheri, M.K., Sharda, S. (2024). In: Pathak, S., Banerjee, A., Duttaroy, A.K. (eds) Microbiota and Dietary Mediators in Colon Cancer Prevention and Treatment. Springer, Singapore. <u>https://doi.org/10.1007/978-981-96-0297-1_15</u>.</li> <li>Majumder, S.D., Agarwal, S., Vasishth, K., Kaur, N., Bose, S. (2024). Therapeutic Relevance of Glycosylation Inhibitors in Cancer. In: Pathak, S., Banerjee, A., Duttaroy, A.K. (eds) Small Molecules for Cancer Treatment. Springer, Singapore. <u>https://doi.org/10.1007/978-981-96-0301-5_9</u></li> <li>Serine proteases and their contribution to</li> </ol>
	<ul> <li>Serine proteases and their contribution to chemoresistance in cancer. Mohammad Aman, Prerna Dalal, Navkiran Kaur, Sudeep Bose Pathophysiological Aspects of Proteases in Cancer</li> <li>2025, Pages 347-362 <u>https://doi.org/10.1016/B978-0-443-30098-1.00021-5</u></li> </ul>
	<ol> <li>From enzyme to predictors: Serine proteases in cancer diagnosis and prognosis S Bose, MA Azad, NK Borah, N Kaur - Pathophysiological Aspects of Proteases in Cancer, 2025, Pages 223-237. https://doi.org/10.1016/B978-0-443- 30098-1.00014-8</li> </ol>
PUBLICATIONS (33)	6. Integromics: Tracking the Multi-omic Expanse in Theragnostics. Shambhavee Srivastav, Lavanya, Anupama Avasthi, Navkiran Kaur, Wolfgang Gaertner, Minu Kesheri, Swarna Kanchan, Shivani Sharda In: Kesheri, M., Kanchan, S., Salisbury, T.B., Sinha, R.P. (eds) Microbial Omics in Environment and Health. Springer, Singapore. https://doi.org/10.1007/978-981-97-1769-9_6
	<ul> <li>7. Lectins as a promising therapeutic agent for breast cancer:</li> <li>A review</li> <li>Keerti Singh<sup>±</sup>, Lokita Agrawal<sup>±</sup>, Rhea Gupta<sup>±</sup>, Divyam Singh</li> <li>, Meghavi Kathpalia, and Navkiran Kaur Breast</li> <li>DiseaseVolume 43, Issue 1, 2024, Pages 193-211</li> </ul>
	<ul> <li>https://doi.org/10.3233/BD-230047</li> <li>8. Sharda, S., Avasthi, A., Bose, S., Kaur, N. (2024). Cellular Interactions Network in Cancer: Integrative Disease Models. In: Sobti, R.C., Ganguly, N.K., Kumar, R. (eds) Handbook of Oncobiology: From Basic to Clinical Sciences. Springer, Singapore.</li> </ul>
	<ul> <li>https://doi.org/10.1007/978-981-99-6263-1_43</li> <li>9. Chakraborty, M., Kaur, J., Gunjan <i>et al.</i> Clinical relevance of glycosylation in triple negative breast cancer: a review. <i>Glycoconj</i> J 41, 79–91 (2024). https://doi.org/10.1007/s10719-024-10151-0</li> </ul>
	<ol> <li>MicroRNAs as a theranostics: combating breast cancer stem cells. Meghavi Kathpalia, Rashi Sehgal, Navkiran Kaur. <u>Cancer Stem Cells and Signaling Pathways</u> 2024, Pages 295- 308. https://doi.org/10.1016/B978-0-443-13212-4.00027-1.</li> <li>Sacituzumab Govitecan as a Second-Line Treatment in</li> </ol>
	Relapsed/Refractory Metastatic Triple-Negative Breast Cancer Patients: A Systematic Review and Meta- analysis. Meghavi Kathpalia, Anurag Sharma, Navkiran Kaur. (April, 2023) Annals of Pharmacotherapy volume 58

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12. Structuring Inflammasome-Epigenome – Phenotypic
Axis in Gynecological Cancers. S Sharda, A Avasthi, N
Kau Handbook of Oncobiology: From Basic to Clinical
Sciences, Pages 1-16 (2023)
13 Plasma proteomic analysis identified proteins associated
with faulty neutronhils functionality in decomposated
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Kaun Dalthi Maiwall Countri Danalaishan Lumiata
Kaur, Kakni Maiwali, Gayatri Kamakrishna, Jaswinder
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25;11(11):1/45. doi: 10.3390/cells11111745.
14. An Insight into Antioxidant and Antimicrobial Activities
of Ethnotherapeutically Important Trans Himalayan
Medicinal Plants: A Review Anupama Sharma Avasthi1*,
Navkiran Kaur1, Shivani Shardal and Sabari Ghosal.
Journal of Pharmaceutical Research International 33(36A):
195-212, 2021; Article no.JPRI.70139.
15. Sehgal, R., Maiwall, R., Rajan, V., Islam, M., Baweia, S.,
Kaur. N., Kumar. G., Ramakrishna, G., Sarin, S. K. &
Trehannati, N. (2022) Granulacyte-Macronhage Colony-
Stimulating Factor Modulates Myalaid Derivad
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nups://doi.org/10.3389/IImmu.2022.828949
16. PVA1 mediated immunomodulation in vasculo-adipose
balance in atherosclerosis Navkiran Kaur1, Anupama
Avasthil, Shivani Shardal and Ashish Misra, Trends Med,
Volume 21: 1-7, 2021.
17. Immune Surveillance by Myeloid-Derived Suppressor
Cells in Liver Diseases Sehgal R, Kaur N, Ramakrishna G,
Trehan Pati N. Dig Dis. 2021 Jun 22. doi:
10.1159/000517459
18. Normal and reconstituted high-density lipoprotein
protects differentiated monocytes from oxidized low-
density lipoprotein-induced apoptosis. Kaur N. Kumari S.
Ghosh S.ARYA Atheroscler. 2020 Nov:16(6):269-277. doi:
10.22122/arva.v16i6.1582.
19. Bioinformatic analysis of aherrant alveosylation in
Trinle negative breast cancer Naukiran kaur et al Breast
Con Curr Bos 2017 2.5 (Suppl) DOI: 10.4172/2572.4119
Call Curl Res 2017, 2.5 (Suppl) DOI: $10.41/2/25/2-4118$ -
01-011 (III'st and Main author)
20. Kole of post translational modifications in breast cancer,
Navkiran Kaur <i>et al</i> Breast Can Curr Res 2017, 2:3(Suppl)
DOI: $10.41/2/25/2-4118-C1-006$ (first and main author)
21. Bioinformatic analysis of aberrant posttranslational
modifications in breast cancer. Navkiran et al abstract
accepted and presented in RGCON 2017
22 Desistance against UIV 1. Dala of characting
22. Resistance against filv-1; Kole of chemokine
receptor, UKS and Kestriction Factor, APUBEC3G.
Arshia Berry, Sakshi Sehgal and <u>Navkiran Kaur</u>
International journal of Pharma and BioSciences, 2017,
Apr;8(2): (B) 297-306. (corresponding author).
23. GSIT: An Integrated web tool for identification of
genomic signatures in highly similar DNA sequences
Amit Tuteja, Kandarp joshi, Swati Subodh, Navkiran kaur,
Bioinformation, August 2014; vol 10(1).

PATENTS (total no.) nil	
	Nagpal & Navkiran Kaur, GIAP, ISBN 978-81-925781-3-2
	<b>33. ROLE OF CANCER STEM CELLS IN BREAST</b> <b>CANCER</b> May 2014 pg 24 -27 BioEvolution Sahil
	kaur, GIAP, ISBN 978-81-925781-3-2
	2014 pg 1-4, BioEvolution, Hema madhav & Navkiran
	32. MESOTHELIOMA:CURRENT ROSPECTIVES, May
	PEDICON-2001, Patna, Feb. 7-11, 2001
	Achar Gold Medal of Indian Academy of Pediatrics at
	<b><u>Kaur</u></b> and S. Majumdar (2005) Indian Pediatrics ; 42:223- 231 For this paper Dr. M. Unadhyay was awarded S.T.
	Upadhyay, Sunit Singhi, Jayashree Murlidharan, <u>Navkiran</u>
	gelatin in saline) in pediatric septic shock Manasaranjan
	crystalloid (saline) and colloid (polymer from degraded
	<b>31. Randomized evaluation of fluid resuscitation with</b>
	1 S25
	Savita Kumari, Sanjay Jain, Subhash Varma, Siddhartha
	atherosclerotic pathology. <u>Navkiran Kaur</u> , Sujata Ghosh,
	in human monocytes/macrophages: Implications for
	<sup>30.</sup> Role of nHDL and rHDL on Ox-LDL mediated apoptosis
	Volume 28 - Issue - p e67
	Kumari, S: Ghosh, S (2010) Journal of Hypertension
	29. Modulation of Oxidized Ldl Mediated Cellular Responses By Different Forms of Udl Join St Kours No.
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	S.Ghosh. (2010), Atherosclerosis supplements, 11 issue 2,
	monocytes <u>N.Kaur</u> S .Kumari S.Jain <sup>,</sup> S. Majumdar
	on Ox-LDL induced apoptosis in differentiated
	28 Role of different forms of HDL (Ov-HDL and N HDL)
	<b>monocytes</b> ' in the proceedings of International symposium
	cytokines through NFkappa B in differentiated
	on Ox-LDL mediated expressions of inflammatory
	27. Abstract accepted entitled 'Role of different forms of HDL
	[corresponding author]
	In numan preast cancer Farul Jauhri and <u>Navkiran kaur</u> , Molecular Targets and Cancer Therapautics 2013
	(phosphorylation and glycosylation) and its significance
	26. Proteomic study of the of posttranslational modifications
	WCIRDC Abstracts, Endocr Pract. 2014; 20(No. 1) 19A.
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	apoptosis through an NF-kR-Rel-2 nathway in
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	Krishnamoorthy Narayanasamy, Swati Subodh, Subrat K.
	Vishnubhatla Sreenivas, Navkiran Kaur, Subrat K. Panda,
	circulating in North Indian Population Amit Iuteja, Abu Baker Siddiqui Kaushal Madan Robit Goyal Shalimar

	<i>Details: Project entitled</i> 'Screening and Identification of disease specific sialo glycosylation changes with specific lectins in breast carcinoma' sanctioned by UP-CST – (2016-2018) as co- investigator (status completed)
<b>RESEARCH PROJECTS</b> Completed: (total no.) 1	<b>Responsibilties:</b> My major responsibility is to identify specific lectins which has probable role in identification of disease specific sialo-glycosylates in breast cancer cells and further to study the role of specific lectin (s) in the modulation of cellular responses in view of apoptosis in breast cancer using different techniques (cell culture, affinity chromatography, immunocytochemistry, RT PCR and western immunoblots.). Various Bioinformatic tools were also used to further substantiate and to study the biological interactions in breast cancer.
	Details: Project entitled 'Biological significance of disease
	specific sialo glycosylation in triple negative Breast cancer'
	approved by ICMR – (January 2021-july 2025) as Principal
	Investigator. (status ongoing) Desponsibilities: My major responsibility will be in execution of the
	project along with other investigators and primarily I will be
	involved and working on the optimization and standardization of LC-MS and bioinformatics work involved in studying the biological significance of specific sialo glycosylates in triple negative breast
	cancer
	Travel Grant Award from European Atherosclerosis Society for attending and participating in EAS congress held in Milan. Italy (2012)
	Travel grant Award from the Indian National Science
	Academy, Govt of India, to attend international conference held in Milan Italy (2012)
	<ul> <li>Travel Bursary From Immunology Society National</li> </ul>
	Institute of Immunology, New Delhi for attending the international conference held in Milan, Italy (2012)
	Travel Grant Award from ICLA for attending and participating in Ist international conference on lipid metabolism and Atherosclerosis held in seoul,South Korea (2012)
	Shortlisted for Travel grant Award from European
AWARDS & HONOURS/ DISTINCTIONS	Atherosclerosis Society for attending and participating in EAS congress held in Hamburg, Germany (2010)
	> Shortlisted for Travel grant Award from the Indian
	National Science Academy, Govt of India, to attend
	international conference held in Germany, (2010).
	> Nominee for NS Dhalla young scientist award in Basic
	Cardiovascular Biology under Aupices of International
	Society for Heart Research (Indian Section), International
	Academy of Cardiovascular Sciences (Indian Section) and
	Heart Failure Society of India (2008)
	Research work carried out on on Randomized evaluation of fluid resuscitation with crystalloid (saline) and colloid (polymer from degraded gelatin in saline) in pediatric septic shock work was awarded with S.T. Achar Gold Medal of Indian Academy of Pediatrics at PEDICON-2001, Patna, Feb. 7-11.(2001)
	Senior Research Fellow. Indian Council of Medical

	Research, Govt. of India.
<b>MEMBERSHIP</b> with Professional/ Academic bodies	Member of European Atherosclerosis society(annual membership)
	Active member of American Association of cancer research (Annual member ship)
	Member of European Society of Medical Oncology
	Women in cancer Research, 2013-till date (all women members of AACR are entitled)
	Member of working group of atherosclerosis and vascular biology (Annual membership)
	Member of Heart failure Association 2013-till date
	Professional Associate Membership of American Heart Association/American Stroke Association with scientific council Affiliation of Council of Basic cardiovascular Science