

1. Details of the Teacher/ Academic :

Name:	Dr. RAVIKANTH KAMLEKAR
Date of Birth	13/06/1974
Date of Joining in IGNOU:	18/12/2023
Current Designation :	Regional Director
Level as on date :	13A Pay Level
Highest Educational Qualifications	M.Sc., M.Phil., Ph.D.
School/ Division/ Institute/ Centre/ Cell	IGNOU Regional Centre Chennai, Chennai

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:

Name of the recipient	Honour /Award/ Fellowship name/ membership of Professional body/ Statutory body	Agency name /Name of statutory body/ institution/ Apex body	Period
Dr. K. Ravikanth	<i>Young Scientist Fast Track Grant</i>	<i>DST-SERB, India</i>	2015-18
Dr. K. Ravikanth	<i>Hormel Fellowship</i>	<i>Hormel Institute, Univ. of Minnesota</i>	2007-11
K. Ravikanth	<i>Senior Research Fellowship (SRF)</i>	Council of Scientific and Industrial Research (CSIR), India	2003-06
K. Ravikanth	<i>Max-Planck-Gesellschaft Fellowship</i>	Max-Planck Institut für biophysikalische Chemie, Göttingen, Germany	2002
K. Ravikanth	<i>Junior Research Fellowship (JRF)</i>	Council of Scientific and Industrial Research (CSIR), India	2001-03
K. Ravikanth	<i>University First Rank for M. Phil. in Chemistry</i>	University of Hyderabad, India	2001
K. Ravikanth	<i>Lectureship in UGC-CSIR-NET</i>	All India Joint Entrance Exam	2000

3. Books/Book Chapter:

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN No

SNo.	Name of Author1/ Editor 1, & Co- author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1.	J. Chakraborty, A. D. Gupta, R. K. Kamlekar	Engineering Chemistry -I Concepts & Applications	India, National	Vikas Publishing	2021		9789354534348
2.	R Kenoth, M. M. Balamurali, R.K. Kamlekar	'Steady-State Fluorescence Spectroscopy as a tool to monitor Protein/Ligand Interactions' in <i>Optical Spectroscopic and Microscopic Techniques Analysis of biological molecules</i>	Singapore, International	Springer, Singapore	2022	35-54	9789811645495
3.	Kenoth, R. E. Brown*, R.K. Kamlekar	'In vitro measurement of sphingolipid intermembrane transport illustrated by GLTP superfamily members' in <i>Intracellular Lipid Transport: Methods and Protocols, Methods in Molecular Biology, 1949: 237-256</i>	New York, International	Springer Nature, Humana Press, New York,	2019	237-256	Online ISBN: 978-1-4939-9136-5, Print ISBN: 978-1-4939-9135-8

4. Research Articles/Publications:

S.No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	ML John, A Sivaramakrishna , RK Kamlekar*	Elucidating the interactions of endocannabinoid-like neurotransmitters, <i>N</i> -acyltaurines and bovine serum albumin: Spectroscopic and computational approaches	<i>Biochimica et Biophysica Acta (BBA)- Biomembranes</i>	1867 (1)	8442 1	2025	0005-2736
2.	C. Ravindar, A.P. Sukanya, D. Sivaramakrishna , R K Kamlekar* , M.J. Swamy*	Structure and Characterization of Catanionic Complexes and Biocompatible Vesicles of <i>N</i> -Acyltaurine and Sarcosine Alkyl Ester: Encapsulation and Release Studies with 5-Fluorouracil	<i>ACS Applied Bio Materials</i>	7(9)	5784 – 5794	2024	2576-6422
3.	R Kenoth*, S Pothuraju, Anand Prabu A, RK Kamlekar*	Spectroscopic and thermodynamic characterization of the interaction between sugar-stabilised silver nanoparticles and wheat germ agglutinin (WGA), a chitin binding lectin.	<i>Carbohydrate Research</i>	535	1090 14.	2023	ISSN :1873-426X (Online) 0008-6215
4.	A.P. Sukanya, C. Ravindar, M. L. John, S. Dey* and R. K. Kamlekar*	Crystal structure, molecular packing, and intermolecular interactions of <i>N</i> -pentadecanoyltaurine and <i>N</i> -acyltaurine's interaction with cholesterol	<i>Cryst. Eng. Comm.</i>	25	5286-5295	2023	ISSN: 1466-8033
5.	Aleena P, Ragavi S, R. K. Kamlekar , M Mariappan M and V. Anbazhagan V*	2-Pyridylmethyl- <i>N</i> -palmitoylglycine micelle-guided synthesis of a recyclable CuO@ SiO ₂ nanocatalyst for hydride transfer nitro reduction in water.	<i>New J. Chem.</i>	47	1577 1 - 1577 7	2023	ISSN: 1144-0546 (print); 1369-9261 (web)
6.	G. Arunkumar, P. Nantheeswaran, M. Mariappan, R.	Cobalt metal–organic framework microcrystalline particles with strong electrocatalytic	<i>New J. Chem.</i>	47	9654-9660	2023	ISSN: 1144-0546 (print); 1369-

	K. Kamlekar , M. Pannipara, A. G. Al-Sehemi and S. P. Anthony*	activity: amine controlled morphology and OER activity.					9261 (web)
7.	Roopa Kenoth*, Arya K Sreekumar, A. Sukanya, A. Anand Prabu, R. K. Kamlekar*	Interaction of sugar stabilised silver nanoparticles with Momordica charantia seed lectin, a type II ribosome inactivating protein.	<i>Glycoconjugate Journal</i>	40	179-189	2023	Online ISSN: 1573-4986, Print ISSN: 0282-0080
8.	P. Aleena, R. K. Kamlekar , M. Sureshan, A.Jothi, V. K.K. Praneeth, S. Ramesh, V. Anbazhagan*	Effectiveness of the hydrophobic core of pyridine tethered N-acyl glycine micelles in improving chromenoquinoline synthesis in water.	<i>Colloids and Surfaces A: Physicochemical and Engineering Aspects.</i>	664(5)	1311-29	2023	Online ISSN: 1873-4359, Print ISSN: 0927-7757
9.	A. P. Sukanya, S. Megarajan, L.J. Martin, V. Anbazhagan, R. K. Kamlekar*	Interaction of N-acyltaurines with phosphatidylcholines.	<i>Biochimica et Biophysica Acta (BBA) - Biomembranes.</i>	1865 (3)	1841-03	2022	ISSN: 0005-2736
10.	A. P. Sukanya, R. K. Kamlekar*	Function and therapeutic potential of N-acyl amino acids	<i>Chemistry and Physics of Lipids</i>	239	1051-14	2021	ISSN: 0009-3084
11.	S. Megarajan; R. K. Kamlekar ; V. Anbazhagan*	Highly selective rapid colorimetric sensing of Pb ²⁺ ion in water samples and paint based on metal induced aggregation of N-decanoyltrimethamine capped gold nanoparticles	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.</i>	239	1184-85	2020	ISSN: 1386-1425
12.	A. P. Sukanya, R. K. Kamlekar*	Characterization of the molecular packing, thermotropic phase behaviour and critical micellar concentration of a homologous series of N-acyltaurines ($n = 9-18$). PXRD, DSC and fluorescence spectroscopic studies	<i>Chemistry and Physics of Lipids</i>	230	1049-29	2020	ISSN: 0009-3084
13.	S. Megarajan; R. K. Kamlekar ; P. Suresh Kumar;	Rapid and selective colorimetric sensing of Au ³⁺ ions based on galvanic displacement	<i>New Journal of Chemistry</i>	43	1874-1-1874-6	2019	ISSN: 1144-0546 (print);

	V. Anbazhagan*	of silver nanoparticles					1369-9261 (web)
14.	S. B. Subramaniyan, V. Santhosh, S. Megarajan, R.K. Kamlekar , V. Anbazhagan*	Remarkable effect of jacalin in diminishing the protein corona interference in the antibacterial activity of pectin-capped copper sulfide nanoparticles	<i>ACS Omega</i>	4(9)	1404 9-1405 6	2019	ISSN: 2470-1343
15.	J Muruganandam, S Megarajan, S B Subramaniyan, R.K. Kamlekar , V Anbazhagan*	A convenient green method to synthesize luminescent carbon dots from edible carrot and its application in bioimaging and preparation of nanocatalyst	<i>J. Mol. Liquids</i>	278	175-182	2019	Online ISSN: 0167-7322
16.	S Megarajan, S. B. Subramaniyan, A. P. Sukanya, R.K. Kamlekar , V Anbazhagan*	Effective elimination of biofilm formed with waterborne pathogens using copper nanoparticles	<i>Microbial Pathogenesis</i>	127	341-346	2019	Online ISSN: 0882-4010
17.	R. Kenoth, X Zou, D. K. Simanshu, H. M. Pike, L. Malinina, D. J. Patel, R. E. Brown, R.K. Kamlekar *	Functional evaluation of tryptophans in glycolipid binding and membrane interaction by HET-C2, a fungal glycolipid transfer protein	<i>BBA Biomembrane</i>	1860 (5)	1069-1076	2018	Online ISSN: 0005-2736
18.	K.B. Ayaz Ahmed, P. Ahalya, M. Sengan, R.K. Kamlekar , V. Anbazhagan*	Synthesis and characterization of zinc sulfide quantum dots and their interaction with snake gourd (<i>Trichosanthes anguina</i>) seed lectin:	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i>	151	739-745	2015	Online ISSN: 1386-1425
19.	L. Malinina,* D.K. Simanshu, X. Zhai, V.R. Samygina, R.K. Kamlekar , R. Kenoth, B.O-Lizarralde, M.L. Malakhova, J.G. Molotkovsky, D.J. Patel,* and R.E. Brown*	Sphingolipid transfer proteins defined by the GLTP-fold	<i>Quarterly Reviews of Biophysics</i>	48 (03)	281-322	2015	Online ISSN: 1469-8994
20.	D.K. Simanshu [‡] , R.K. Kamlekar [‡] ,	Non-vesicular trafficking by a ceramide-1-phosphate	<i>Nature</i>	500	463-468	2013	Online ISSN: 1476-

	D.S. Wijesinghe [‡] , X. Zou, X. Zhai, S.K. Mishra, J.G. Molotkovsky, L. Malinina, E.H. Hinchcliffe, C.E. Chalfant*, R.E. Brown*, D.J. Patel* ([‡] Authors contributed equally to this work)	transfer protein regulates eicosanoids					4687
21.	S.T. Reddy [‡] , P.K. Tarafdar [‡] , R.K. Kamlekar , and M.J. Swamy* ([‡] Authors contributed equally to this work)	Structure and Thermotropic Phase Behavior of a Homologous Series of Bioactive N-Acyldopamines	<i>J. Phys. Chem. B.</i>	117	8747-57	2013	Online ISSN: 1520-5207
22.	R.K. Kamlekar [‡] , D. K. Simanshu [‡] , Y. Gao, R.Kenoth, H.M. Pike, F. G. Prendergast, L. Malinina, J. G. Molotkovsky, S. Y. Venyaminov, D. J. Patel, and R. E. Brown* ([‡] Authors contributed equally to this work).	The glycolipid transfer protein (GLTP) domain of phosphoinositol 4-phosphate adaptor protein-2 (FAPP2): structure drives preference for simple neutral glycosphingolipids	BBA-Molecular and Cell Biology of Lipids	1831(2)	417-27	2013	Online ISSN: 1388-1981
23.	R.Kenoth [‡] , R.K. Kamlekar [‡] , D.K. Simanshu [‡] , Y. Gao, L. Malinina, F.G. Prendergast, J.G. Molotkovsky, D. J. Patel, S.Y. Venyaminov, R.E. Brown* ([‡] Equal Author Contribution)	Conformational folding and stability of the HET-C2 glycolipid transfer protein fold: does a molten globule-like state regulate activity?	<i>Biochemistry</i>	50(23)	5163-71	2011	Online ISSN: 1520-4995
24.	R.K.	Human GLTP: three	<i>Biophys. J.</i>	99 (8)	2626-	2010	Online

	Kamlekar , Y. Gao, R. Kenoth, J. G. Molotkovsky, F. G. Prendergast, L. Malinina, D. J. Patel, W. S. Wessels, S. Y. Venyaminov, and R. E. Brown*	distinct functions for the three tryptophans in a novel peripheral amphitropic fold			35		ISSN: 1542-0086
25.	R. Kenoth, D. K. Simanshu, R.K. Kamlekar , H. M. Pike, J. G. Molotkovsky, L. M. Benson, H. R. Bergen III, F. G. Prendergast, L. Malinina, S. Y. Venyaminov, D. J. Patel, and R. E. Brown*	Structural Determination and Tryptophan Fluorescence of Heterokaryon Incompatibility C2 Protein (HET-C2), a Fungal Glycolipid Transfer Protein (GLTP), Provide Novel Insights into Glycolipid Specificity and Membrane Interaction by the GLTP-fold	<i>J. Biol. Chem.</i>	285(17)	1306 6-78	2010	Online ISSN: 1083-351X
26.	M.J. Swamy*, P.K. Tarafdar, R.K. Kamlekar	Structure, Phase Behaviour and Membrane Interactions of <i>N</i> -acylethanolamines and <i>N</i> -acylphosphatidylethanolamines	<i>Chemistry and Physics of Lipids</i>	163	266-79	2010	Online ISSN: 0009-3084
27.	R.K. Kamlekar [‡] , P. K. Tarafdar [‡] & M. J. Swamy* ([‡] Equal Author Contribution)	Synthesis, Calorimetric Studies and Crystal Structures of <i>N</i> -, <i>O</i> -diacylethanolamines with Matched Chains	<i>J. Lipid Res.</i>	51 (1)	42-52	2010	Online ISSN: 1539-7262
28.	R.K. Kamlekar [‡] , M. S. Chandra [‡] , T. P. Radhakrishnan & M. J. Swamy* ([‡] Equal Author Contribution)	Interaction of <i>N</i> -myristoylethanolamine with Cholesterol Investigated in a Langmuir Film at the Air-Water Interface	<i>Biophys. Chem.</i>	139 (1)	63-69	2009	Online ISSN: 0301-4622
29.	R.K. Kamlekar , S. Satyanarayana, D. Marsh & M. J. Swamy*	Miscibility and Phase Behavior of <i>N</i> -acylethanolamine/ Diacylphosphatidyl-ethanolamine Binary	<i>Biophys. J.</i>	92	3968-77	2007	Online ISSN: 1542-0086

		Mixtures of Matched Acyl Chainlengths (n = 14, 16)					
30.	M. Ramakrishnan, P. K. Tarafdar, R. K. Kamlekar & M. J. Swamy*	Differential Scanning Calorimetric Studies on the Interaction of N-acylethanolamines with Cholesterol	<i>Current Science</i>	93 (2):	234-238	2007	Online ISSN: 0011-3891
31.	R. K. Kamlekar & M. J. Swamy*	Molecular Packing and Intermolecular Interactions in Two Structural Polymorphs of N-Palmitoylethanolamine, a Type-2 Cannabinoid Receptor Agonist	<i>J. Lipid Res.</i>	47	1424-1433	2006	Online ISSN: 1539-7262
32.	R. K. Kamlekar & M. J. Swamy*	Studies on the Critical Micellar Concentration and Phase Transitions of Stearoylcarnitine	<i>Biosci. Rep.</i>	26	387–398	2006	Online ISSN: 1573-4935
33.	M. Ramakrishnan, R. Kenoth, R. K. Kamlekar , M. S. Chandra, T. P. Radhakrishnan & M. J. Swamy*	N-Myristoylethanolamine—Cholesterol (1:1) Complex: First Evidence from Differential Scanning Calorimetry, Fast-Atom-Bombardment Mass Spectrometry and Computational Modeling	<i>FEBS Let.</i>	531	343-347	2002	Online ISSN: 1873-3468

5. Policy Documents Reports/ Mimeos:

SNo.	Title	Institution/ Agency	Year
1.			
2.			
3.			

6. MOOCs/ eSLMs/ eModules developed :

SNo.	Author/ Co-author (if any)	Title	Credits	Level	Host Portal: (SWAYAM/ NPTEL/ NMEICT/ ePG Pathshala/ Any Other)	Year	Weblink

7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops (Please do not mention if it is only participation without presentation)

S. No.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference	City	Date and Year
1.	R. K. Kamlekar	<i>Human ceramide-1-phosphate transfer protein: the emergence of a new GLTP-fold subfamily in eukaryotes</i>	NIT Rourkela, India. (22 nd Biennial Conference of the Indian Photobiology Society)	Biomolecular Dynamic-Experimental & Theoretical Perspective (BDETP) - 2017	Rourkela, India	Dec 18-20 2017
2.	D. K. Simanshu, R.K. Kamlekar , Dayanjan S. Wijesinghe, Xianqiong Zou, X. Zhai, S.K. Mishra, J.G. Molotkovsky, L.Malinina, E.H. Hinchcliffe, C.E. Chalfant, D.J. Patel, R.E. Brown*	<i>Nonvesicular Trafficking of Ceramide-1-Phosphate by a Lipid Transfer Protein that Regulates Eicosanoid Production</i>	<i>Biophysical J.</i> 106 (2): 303a	Paper presented (poster) in the Biophysical Society 58 th Annual Meeting	San Francisco, California, USA,	Feb.15-19, 2014
3.	R.K. Kamlekar , Y. Gao, D. Simanshu, F.G. Prendergast, S.Y. Venyaminov, L. Malinina, J.G. Molotkovsky, D.J. Patel, R.E. Brown*	<i>Glycolipid Transfer Protein (GLTP) Domain of Phosphoinositol 4-Phosphate Adaptor Protein-2 (FAPP2): Lipid Transfer Specificity and Physical Features</i>	<i>Biophysical J.</i> 102(3): 495a	Paper presented (poster) in the Biophysical Society 56 th Annual Meeting	Boston, USA	24 th to 28 th Feb. 2012
4.	R.K. Kamlekar , Y. Gao, H.M. Pike, R. Kenoth ¹ , F.G. Prendergast ² , S.Y. Venyaminov, R.E. Brown*	<i>Site-Directed Mutagenesis of Human GLTP: Role of Tryptophan Residues</i>	<i>Biophysical J.</i> 96(3): 326a	Paper presented (poster) in the Biophysical Society 53 rd Annual Meeting	Boston, USA	28 th Feb-04 th March 2009
5.	R.K. Kamlekar , R. Kenoth, H.M.	<i>Folding /Unfolding of Glycolipid Transfer Protein:</i>	<i>Biophysical J.</i> 96(3): 82a	Paper presented (poster) in the	Boston, USA	28 th Feb-04 th March 2009

	Pike, F.G. Prendergast, S.Y. Venjaminov, R.E. Brown*	<i>Molten Globule- Like Intermediates?</i>		Biophysical Society 53 rd Annual Meeting.		
6.	R.Kenoth, R.K. Kamlekar , H.M. Pike, F.G. Prendergast, S.Y. Venjaminov, R.E. Brown*	<i>Spectral Characterization of Het-C2, A Glycolipid-transfer Protein</i>	<i>Biophysical J. 96(3): 337a</i>	Paper presented (poster) in the Biophysical Society 53 rd Annual Meeting	Boston, USA	28 th Feb- 04 th March 2009
7.	R. K. Kamlekar , Musti J. Swamy*	<i>Crystal Structure and Intermolecular Interactions of Two Polymorphs of N- Palmitoylethanolam ine, A Type-2 Cannabinoid Receptor Agonist</i>		Paper presented (poster) in the Asia-Pacific Workshop on Biological Physics, National University of Singapore,	NSU, Singapor e	3-5 July 2006
8.	R. K. Kamlekar , M. S. Chandra, T. P. Radhakrishnan & Musti J. Swamy*	<i>N- Acylethanolamines: Structural Polymorphism and Interaction with Cholesterol</i>		Paper presented (oral & poster) in the CHEMFEST- 2006, School of Chemistry, University of Hyderabad.	Hyderab ad, India	March 04, 2006
9.	R. K. Kamlekar , D. Marsh & Musti J. Swamy*	<i>Miscibility and Phase Behavior of N- Acylethanolamine/ Phosphatidylethano lamine Binary Mixtures of Matched Acyl Chains. Calorimetric and ESR Spectral Studies</i>		Paper presented (poster) in the CHEMFEST- 2005, School of Chemistry, University of Hyderabad.	Hyderab ad, India	March 2005
10.	R. K. Kamlekar , D. Marsh & Musti J. Swamy*	<i>Miscibility and Phase behavior of binary mixtures of NMEA/DMPE and NPEA/DPPE: The DSC and ESR spectral study.</i>	Dr. B. R. Ambedkar Centre for Biomedical Research	Paper presented (poster) in the Internation al Conference on Chemistry Biology Interface: Synergistic New Frontiers,	New Delhi	21-26 Nov. 2004

8. Consultancy assignment (if any):

SNo.	Organization/ agency	Cost, title of consultancy	Duration

9. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing):

SNo.	Agency	Amount	Duration with dates	Status i.e. Ongoing/ Completed
1.	“Structure Activity Studies of a New Structural Class of Bioactive Fatty Acid Amides: N- acyltaurines”. (YSS/2014/000021), DST-SERB, India	₹24,60,000/-	3 Years (2015-2018)	Completed
2.	“An Investigation on the Interaction of Serum Proteins (BSA & HSA) with Bioactive Fatty Acid Amide: N- acyltaurines”, (SG20210066), VIT Vellore	₹3,00,000/-	2 Years (2021-23)	Completed
3.	Catanionic/Neutral Liposomes as Solid Lipid Nanoparticles: Biophysical Characterization, and Drug Entrapment/Release Studies, (SG20230078), VIT Vellore	₹2,50,000/-	1 Years (2023-24)	Completed

10. Details of PhD and MPhil Scholars (including those awarded degree):

SNo.	Name and enrolment no:	Year of registration	Year of completion/ award
1.	Ms. SUKANYA. A.; (Reg. No.15PHD0133)	2015	2021

11. Details of Programmes/ Courses coordinated/ written/ edited/ translated 9if applicable):

SN o.	Programme	Course	Unit (print)/ Audio/Video/ eSLM	Coordinated/Written / Edited (content/ language/ format)/ Translated	Period

12. Training programmes designed and conducted, duration and dates

SNo.	Programme	Dates	Place	Number of Participants

13. Details of Counselling sessions conducted:

SNo.	Program me	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)

14. Details of Patents granted (if any):

15. Contribution to IGNOU's corporate life:

S.No.	Chairperson/ Committee	Member of	Name of the Committee	Date/ period
1.				

16. Administrative position/s held in the University (even as in charge)

SNo.	Designation	Period
1.	Regional Director, IGNOU RC Bijapur	Dec 2023 to April 2025
2.	Regional Director, IGNOU RC Chennai	April 2025 onwards

17. Any other contribution/information

Signature of Teacher /Academic