**Summary of Dr. Desh Deepak’ Curriculum Vitae**

**Name : Dr. Desh Deepak**

**Department :** Chemistry Department

**Institution :** Lucknow University

**Address :** Chemistry Department, University of Lucknow, Lucknow

**Date of Birth :** 30-05-1960

**Educational Qualification:**

MSc. Lucknow University Chemistry (Organic) 1980

Ph.D. Lucknow University Chemistry 1986

Title of Ph. D. Thesis: “Pregnane glycosides from Periploca callophyla”

**Professional Recognition and Awards** : total no. 25.

**Fellowship awarded**: total No. 6

**Patent:** 1+ 1 applied

**List of book/ book chapter:** total no. 4

**List of publication:** total No. 96

**Published** -80

**Communicated**: 16

**Abstract in conferences:** 108

**Ph.D supervised**: 22

**Ph.D Co- supervised:** 12

**Current Ph.D student**: 8

**Curriculum Vitae of Dr. Desh Deepak**

**Name : Dr. Desh Deepak**

**Department :** Chemistry Department

**Institution :** Lucknow University

**Address :** Chemistry Department, University of Lucknow, Lucknow

**Date of Birth :** 30-05-1960

**Educational Qualification:**

MSc. Lucknow University Chemistry (Organic) 1980

Ph.D. Lucknow University Chemistry 1986

Title of Ph. D. Thesis: “Pregnane glycosides from Periploca callophyla”

**Field of Specilization**

1. Isolation and synthesis of Natural product with special reference to Oligosaccharides and

 Oligoglycosides.

1. Structure elucidation of glycosides and oligosaccharides By NMR (1H, 13C and 2DCOSY, TOCSY,

 HSQC, HMBC, NOESY, DOESY) etc.

1. Structure elucidation by Mass spectrometry (FAB, MALDI and ES-MS).
2. Modern Chromatographic technique ( HPLC and molecular sieving).

**Professional Recognition and National/International awards**

1. Certificate of Appreciation award for outstanding contributions in chemical sciences by **Indian Society of Chemist and biologist**, **July 2018.**
2. Appointed Nodal Officer, Uttar Pradesh, **Prime Minister’s Olympic Task Force for the year** **2017-24.**
3. Awarded Teacher of the Teachers award by **Avadhnama Group of News paper**, **2014.**
4. Awarded Cash prize by Lucknow University for **Best research paper** award, **2018.**
5. Won prize for best poster presentation in **National Seminar on Natural Products and** **Organic Synthesis** (NPOS 2012**) March 28, 2012.**
6. Won prize for best poster presentation in Conference held at **CDRI on Challenge for Drug** **Discovery and Developments 2011.**
7. **Awarded Travel grant by INSA** for attending **XIX International Carbohydrate Symposium at San Diego, USA, 1998.**
8. **Awarded Travel grant and local hospitality** by the **Organizers of XIX** International Carbohydrate Symposium at San Diego, USA, 1998.
9. **Awarded Travel grant** by **Department of Science and Technology, New Delhi** to attend*European Carbohydrate Syposium at Netherlands,* **1997 (**localhospitality and registration was sanctioned by the organizers).
10. **Invited** by the Organizers*of European Carbohydrate Symposium at**Netherlands* to present**oral presentation**of Paper in**1997.**
11. **Awarded a Honorarium of Rs. 40,000/-** for writing an article on **Pregnane Glycosides** *in “Progress in the Chemistry of Organic Natural Products”*published by **Springer-Verlag**, **1997.**
12. **Awarded a Honorarium of Rs. 22,000/-** for writing an article on **Cardiac Glycosides** in“*Progress in the Chemistry of Organic Natural Products*”published by **Springer-Verlag, 1996.**
13. **Awarded Travel grant** by **Council of Scientific and Industrial Research, New Delhi** to attend*International Glycoconjugate Conference at Seattle,**USA*,**1995**.
14. **Awarded Travel** grant by **Indian National Science Academy, New Delhi** toattend *International Glycoconjugate Conference at Seattle*, *USA,* **1995.**
15. **Awarded Travel grant** by **Department of Science and Technology, New Delhi**, to attend*International Glycoconjugate Conference at Seattle, USA*,**1995**.
16. **Presented** a paper at*International Glycoconjugate Conference held at Seattle**USA*,**1995.**
17. **Appointed Editor** of **Asclepiadaceae Newsletter of Botany 2000 program of UNESCO at** *ASOMPS VIII at Melaka Malaysia***, 1994.**
18. **Awarded Travel grant**, registration fee and local hospitality by **UNESCO** toattend the *ASOMPS VII at Malaka Malaysia*, **1994.**
19. Invited by University of Malaysia to give key note lecture on “Phytochemistry of Indian Asclepiadaceae” at VIII Asian Symposium on Medicinal Plant Species and other natural products at Malaka Malaysia, **1994**.
20. **Awarded UNESCO fellowship** at*ASOMPS VII at Manila, Phillipines*, **1992**.
21. **Awarded Travel grant** by **Government of Uttar Pradesh and DST, New Delhi**, to attend*VII Asian Symposium of Medicinal Plant Species and their**natural products* at**Manila, Philipines**,**1992.**
22. **Presented two research papers** at*VII Asian Symposium of Medicinal Plant**Species and their natural products* at**Manila Phillipines, 1992**.
23. **Awarded Bursary award** of **Indian National Science Academy, New Delhi**, **1991.**
24. **Awarded Travel grant** to attend **16th IUPAC conference** at **Japan** by **CSIR**, **New Delhi, 1988.Indian National Science Academy**, **New Delhi, 1988.**
25. **Awarded Dr. Chakarvorty Gold Medal of Lucknow University, 1985.**

**FELLOWSHIPS AWARDED**

1. **Junior Research Fellowship**, State Council of Science and Technology, UP, 1981.
2. **Senior Research Fellowship**, Indian Council of Medicinal Research, 1985.
3. **Senior Research Fellowship**, CSIR, New Delhi, 1986.
4. **Research Associate ship** of University Grants Commission in pay scale of Rs.3200-3700,1989.
5. **Department of Science and Technology**, Young Scientist project award of project value aboutRs. 3.5 lakhs 1992 as a Research Scientist in the pay scale of Rs. 2200-4000, 1991.
6. **Research Scientist-ship** as a Co-Principal Investigator of DST major project of about Rs. 12lakhs in the scale Rs. 3000-4000 @Basic pay Rs. 3750/-, 1994.

**RESEARCH GRANT AVAILED**

1. **INSA New Delhi,** Bursary award for research, 1991.
2. **DST,** Young scientist project award on constituents of asclepiadaceae Plants, 1992.
3. **DST major project** on constituents of Camel and Donkey’s Milk, 1995.
4. **DST major project** on Isolation and synthesis of bacterial oligosaccharides, 2002.
5. **UGC major project** on Cardiac Glycosides, 2001.
6. **UGC-JRF** fellowship of Mr. Gaurav Srivastva, since 2006.
7. **CSIR-JRF/SRF** fellowship of Mr. Ashish Singh, since 2013
8. **UGC-JRF** fellowship of Mr. Muzeeb Khan, since 2014.
9. **CSIR-JRF** fellowship of Mr. Pushpraj Singh, since 2015.
10. **CSIR-JRF/SRF** fellowship of Mr. Ranjeet Kumar, since 2015.
11. **CSIR-JRF** fellowship of Mr. Mayank Sharma, since 2018.
12. **CSIR-JRF** fellowship of Ms. Binapani Das, since 2018.

**Patent**

1. “A process for isolation of oligosaccharides having immunostimulating activity from donkey’s milk”, Indian Patent no.3044/oct/98 Serial no.189748, 1998.
2. **Process for Isolation of oligosaccharides** from Horse milk having antilipidemic activity2017 (Applied).

**LIST OF BOOK/BOOK CHAPTER PUBLISHED**

1. Cardiac glycosides: Progress in Chemistry of Organic natural products edited by W. Herg, G. Kirgy, R.E. Moore, W. Steglich and Ch. Tamm, **Springer Wien NewYork**-Vol-69, 1996.
2. Pregnane glycosides: Progress in Chemistry of Organic natural products edited by W. Herg, G. Kirgy, R.E. Moore, W. Steglich and Ch. Tamm, **Springer Wien NewYork**-Vol-71, 1997.
3. “Phytochemistry of Indian Asclepiadaceae”, Desh Deepak, book “Taxanomy and Phytochemistry of the Asclepiadaceae in Tropical Asia”, Ed. Ruth Kiew, Deptt. of Biology, University Pertanian Malaysia, **UNESCO publication** (1995).
4. Isolation of Milk Oligosaccharides, Narendra M. Tripathi and Desh Deepak (e-Book), LAMBERT Academic Publication, **Saarbrücken, Germany**-2014.

**LIST OF PUBLICATIONS/Research Paper:**

1. **“A Pregnane Ester Glycoside from** *Periploca calophylla*”, Desh Deepak and Anakshi Khare,

*Phytochemistry*,**24**, 1037 **(1985), UGC no. 30899, ISSN no. 00319422.**

1. **“A Pregnane Ester Diglycoside from** *Periploca calophylla*”, Desh Deepak, M.P. Khare andAnakshi Khare, *Phytochemistry*, **24**, 3015 **(1985), UGC no. 30899, ISSN no. 00319422.**
2. **“A New Pregnane Glycoside from** *Periploca calophylla*”, Desh Deepak, M.P. Khare and Anakshi Khare, *Indian J. Chem*., **25B,** 44 **(1986), UGC no. 20731, ISSN no. 03764611.**
3. **“A Novel Pregnane Glycoside from** *Periploca calophylla*”, Arun Sethi, Desh Deepak, M.P. Khare and Anakshi Khare, *J. Natural Prod*., **57**, 787 **(1988), UGC no. 24771, ISSN no. 01633864.**
4. **“Plant Pregnane”- A Review**, Desh Deepak, Anakshi Khare and M.P. Khare,*Phytochemistry*, **28**, 3255 **(1989), UGC no. 30899, ISSN no. 00319422.**
5. **“Two Pregnane Glycosides from** *Hemidesmus indicus*”, Kamal Prakash, Arun Sethi, Desh Deepak, Anakshi Khare and M.P. Khare, *Phytochemistry*, **30**, 297 **(1991), UGC no. 30899, ISSN no. 00319422.**
6. **“Sioraside, a Novel Pregnane Glycoside from** *Streblus asper*., Kamal Prakash, Desh Deepak,Anakshi Khare and M.P. Khare, *Phytochemistry,* **31**, 1056 **(1992), UGC no. 30899, ISSN no. 00319422.**
7. **“Structural studies of Oligosaccharide Segment of Hemisine and Desmisine**”,DeshDeepak, Suman Srivastava and Anakshi Khare, *Trends in Carbohydrate Chemistry*, p. 69 (1993), **UGC no. 35054, ISSN no. 09750304**.
8. **“Structural Studies of Oligosaccharides of Reticulatin and Deniculatin**, Sanjay Srivastav,Desh Deepak and Anakshi Khare, *Trends in Carbohydrate Chemistry*, p. 61 (1993), **UGC no. 35054, ISSN no. 09750304**.
9. **“Pregnane Glycosides from *Hemidesmus indicus***”, Ruchi Chandra, Desh Deepakand Anakshi Khare, *Phytochemistry*, **35,** 1545 (1994), **UGC no. 30899, ISSN no. 00319422**.
10. **“Three Novel Pregnane Glycosides from** *Leptadenia reticulata*”, Sanjay Srivastav, Desh Deepak and Anakshi Khare, *Tetrahedron*, **50**, 789 (1994), **UGC no. 24235, ISSN no. 00404020**.
11. **“Phytochemistry of Indian Asclepiadaceae”,** Desh Deepak, The Taxonomy and phytochemistry of the Asclepiadaceae, 33-34, 1995, book chapter **edited by Prof. Ruthkiew**, **UNESCO PUBLICATION** Malesia.
12. **“Indicusine-A Pregnane Diester Triglycoside from *Hemidesmus indicus* R. Br.”,** DeshDeepak, Sanjay Srivastav and Anakshi Khare, *Natural Product Letters****,*** **6,** 81 (1995), **UGC no.34316, ISSN no. 10575634**.
13. **“Synthesis of Oligosaccharide Protein Conjugates with intersecting N-acetyl-glucosamine** **as Blood Group Determinants**”, Rina Saksena, Desh Deepak and Anakshi Khare, *Glycoconjugate Journal****,*****12**, 397 (1995), **UGC no.28017, ISSN no.02820080**.
14. **“Cardiac Glycosides- A Review**”, Desh Deepak, S. Srivastava, N.K. Khare and Anakshi Khare, *Progress in the Chemistry of Organic Natural Products*, **69,** 71 (1996), **UGC no.31941, ISSN no. 21917043**.
15. **“Pregnane Glycosides from *Hemidesmus indicus*”,** Desh Deepak, Suman Srivastava and Anakshi Khare, *Phytochemistry*, **44,** 145, (1997), **UGC no. 30899, ISSN no. 00319422.**
16. **“Synthesis of Fucosylated Human Milk Oligosaccharides and their Analogs**”, Rina Saksena, Desh Deepak and Anakshi Khare, *Trends in Carbohydrate Chemistry***,** Surya Publications**, 3**, 19 (1997), **UGC no. 35054, ISSN no. 09750304**.
17. **“Pregnane Glycosides- A Review**”, Desh Deepak, S. Srivastava, and Anakshi Khare,*Progress**in the Chemistry of Organic Natural Products*,**71,**169, (1997), **UGC no.31941, ISSN no. 21917043**.
18. **“Mass Spectral Studies of Pregnane Glycosides**”, Desh Deepak, Sanjay Srivastav, Arun Seth**i** and Anakshi Khare, *Bulletin for Indian Society for Mass Spectrometry,*12-30 Jan-Oct 1999, **book chapter.**
19. **“A Novel Pentasaccharide from Immunostimulant Oligosaccharide Fraction of Buffalo Milk**”, Rina Saksena, Desh Deepak, Anakshi Khare,Ragni Sahai, L.M. Tripathi and V.M.L.Srivastava , *Biochim. Biophy. Acta.***1428**, 433-445 (1999), **UGC no.64713, ISSN no. 0063002.**
20. **“Synthesis of Disaccharides Related to Human Milk of antigenic properties”,** Rina Saksena, Desh Deepak andAnakshi Khare, Ind. J. Chem. **38B**, 795-799 (1999), **UGC no.20731, ISSN no. 03764611.**
21. **“Structural Studies of Disaccharides of 2,6-dideoxy Sugars present in Denicunine and** **Heminine”,** Poonam Sigler, Suman Srivastava, Desh Deepak and Anakshi Khare,*Trends in* *Carbohydrate* Chemistry, Vol. 4, 17-23, **(1999), UGC no. 35054, ISSN no. 09750304.**
22. **“Structural Studies of Trisaccharide Segment of Ornonine**”, PoonamSigler, Rina Saksena,Desh Deepak and Anakshi Khare, *Trends in Carbohydrate Chemistry*, Vol. 4, 11-15, **(1999), UGC no. 35054, ISSN no. 09750304.**
23. **“Milk Oligosaccharides as Immunostimulants and Antitumor Agents”,** Rina Saksena, DeshDeepak, Ramendra S. Rathore and Anakshi Khare, *Trends in Carbohydrate Chemistry,* Vol. 4, 33-38 **(1999), UGC no. 35054, ISSN no. 09750304.**
24. **“Isolation of Donkey Milk Oligosaccharides as Immunomodulators**”,Rina Saksena,Ramendra S. Rathore, Desh Deepak and Anakshi Khare, *Trends in Carbohydrate Chemistry,* **(1999), UGC no. 35054, ISSN no. 09750304**.
25. **“Stereoselective Synthesis of Disaccharides Corresponding to Antigenic Factor of *Candida* *guilliermondii* suitable for Chain Extension**”, SapnaS. Srivastav, Rina Saksena, DeshDeepak , Naveen K. Khare and Anakshi Khare, *Trends in Carbohydrate Chemistry,* Vol. 4, 51-53, **(1999), UGC no. 35054, ISSN no. 09750304.**
26. **“Structure Elucidation of Oligosaccharides Containing 2-deoxy Sugars by NMR** **Techniques”,** Desh Deepak, Arun Sethi, Sapna S. Srivastav and Anakshi Khare,*Trends in**Carbohydrate Chemistry,* Vol 4, 25-32, **(1999), UGC no. 35054, ISSN no. 09750304.**
27. **“C- 21 Steroidal Glycosides from *Hemidesmus indicus*”,** Poonam Sigler, Rina Saksena, DeshDeepak and Anakshi Khare, *Phytochemistry*, 54, 983-987, **(2000), UGC no. 30899, ISSN no. 00319422.**
28. **“Pragnane and Pragnane Glycosides from *Marsdenia rolei*”**, Vijay S. Gupta, Alok Kumar,Desh Deepak, Anakshi Khare and Naveen K. Khare, Phytochemistry, 64 1327-1333 **(2003), UGC no. 30899, ISSN no. 00319422.**
29. **“Chemistry and Pharmacological abstract of hoya species**” Satish C. pandey, Sudhir S.Singh, Anil C. Ghosh, Desh Deepak and Anakshi Khare, Journal of medicinal and aromatic plant sciences, 26, 775-783, **(2004), UGC no.24570, ISSN no. 02537125.**
30. **“Isolation of two C-21 Nonpregnane Precursor from Hoya Parasitica”,** Rinky srivastava, deepali Narain, Desh Deepak and Anakshi Khare, Natural Product Communications, 2(11), 1089-1090, **2007, UGC no. 37315, ISSN no.15559475.**
31. **“Absolute configuration of Ketocalogenin and its 20-ol derivatives”** Naveen Khare, DesDeepak & Anakshi Khare, Indian Journal of chemistry, 47, 1744-1747, **(2008), UGC no.20731, ISSN no. 03764611.**
32. **“Role of Recent Techniques for Structure Interpretation of Novel Heptasaccharide Nakose”,** Narendra Mani Tripathi, Desh Deepak, *JPBR,* 1(6):150-153 **(2011),.**
33. **“Isolation and Structure Elucidation of Novel (Bosose) Milk Oligosaccharides from NAK Milk”,** Narendra Mani Tripathi, Desh Deepak and Anil Kumar Soni, *scitech,* 6 **(2011), ISSN no. 23477318.**
34. **“Antioxidant, Lipid lowering and post heparin lipolytic activity of Mare oligosaccharides fraction in tritan treated hyperlipidemic Rats”** Amit Srivastva, Rama Tripathi, Gitika Bhatia,ashok Kumar Khanna, Desh Deepak\*, Asian pacific Journal of Tropical biomedicine, 1-6. **(2012), UGC no. 1290, ISSN no 22211691.**
35. **“Isolation of mare's milk oligosaccharide fraction of colostrum, transitional and** **mature phases promotes in vitro oxidative burst in murine macrophages”** Amit Srivastva, RamaTripathi, Vishal Kumar Soni, S.M. Bhattacharya, Desh Deepak\*, Elsevier Editorial System(tm) for Journal of Equine Veterinary Science, 34, 1009-1015, **(2014), UGC no.7441, ISSN no. 07370806.**
36. **“A novel method for quantification of lactose in mammalian milk through HPTLC and determination by a mass spectrometric technique”** A. Srivastava, R. Tripathi, S. Verma, N.Srivastva, AKS Rawat and D. Deepak, Analytical methods, 6, 7268 **(2014), UGC no. 15241, ISSN no 17599660.**
37. **“Antioxidant properties of milk oligosaccharides from various Ruminants”** Tulika Roy andDesh Deepak, Int J Pharm Bio Sci, 5, 400-408, (**2014), UGC no., ISSN no 09756299.**
38. **“Colostrum Hexasaccharide, a Novel Staphylococcus aureus Quorum-Sensing Inhibitor”,** A. Srivastava, B.N. Singh, D. Deepak, A.K.S. Rawat, B.R. Singh, *Antimicrobial Agents and Chemotherapy,* 59(4)2169-2178 **(2015), UGC no. 15824 , ISSN no 00664804.**
39. **“Structure Elucidation of a Novel Pentasaccharide Meeniose from Bubalus bubalis Colostrum**”,Meenakshi Singh, Alok Kumar, and Desh Deepak,*JBCR, 32(1), 438-44.* **(2015), UGC no. 62923, ISSN no 23193077.**
40. **“Isolation and Purification of Sheep Milk Oligosaccharide as Therapeutic Agents”** AshokKr. Ranjan and Desh Deepak\* *JBCR, 32(2), 455-465.* **(2015), UGC no. 62923, ISSN no 23193077.**
41. **“In-vitro antioxidant activity of isolated compound from methanolic stem bark of jasminum auriculatum”** Jyotsana Srivastava\*, Desh Deepak and Poonam Prakash, Rasayan J.Chem. 8, 161-163**(2015), UGC no. 1001, ISSN no 09741496.**
42. **“Isolation of Novel Pentasaccharide Murtiose From Buffalo Colostrum”,** Meenakshi Singh, Desh Deepak and Alok Kumar, in J.Biol.chem. Research, 32(2):986-995 **(2015), UGC no. 62923, ISSN no 23193077.**
43. **“Isolation of Novel Heptasaccharide fraction of Chauri Milk”**, Narendra Mani Tripathi, Dr. Desh Deepak, *IJOPAAR,* 3(1):58-64 **(2016), UGC no. , ISSN no. 2455474X .**
44. **“Structure elucidation of two novel yak milk oligosaccharides and their DFT studies”** Ashish K Singh, Ashok K ranjan, gaurav Srivastva, Desh Deepak, Molecular Structure.1108:87-91 **(2016**), **UGC no. 24702, ISSN no. 00222860** .
45. **“Isolation, Structure Elucidation and DFT Study on two Novel Oligossacharides from Yak Milk”,** Meenakshi Singh, Alok Kumar, Gaurav Srivastava, Desh Deepakand M.P.V.V. Singh, Molecular Structure, 1117:69-78 **(2016**), **UGC no. 24702, ISSN no. 00222860**.
46. **“Structure Elucidation of Novel Yak Milk Oligosaccharides (Osiose) from Sheep Milk,** Ashish Kumar Singh, Mayank Agnihotri, Desh Deepak, JBCR, 33(1):344-351, 2016, **UGC no. 62923, ISSN no 23193077**
47. **“Isolation of Novel Oligosaccharide from Shyama Dhenu (Black Cow) Milk”,** Gunjan, Deepali Narain, Anakshi Khare, Desh Deepak, *JBCR*, 33(2), 2016, **UGC no. 62923, ISSN no 23193077**.
48. **“Isolation of a Novel Oligosaccharide from Goat Milk”,** Kuldeep Kumar, Anupam Kumar Srivastava and Desh Deepak, *JBCR*, 33(1):381-387, 2016, **UGC no. 62923, ISSN no 23193077**.
49. **“Isolation and purification of a pentasaccharide (lusose) from camel milk”** Arjita Mani, Narendra Mani and Tripathi Desh Deepak, International Journal of Pure and Applied Biomedical Sciences; Vol. 11 **(2016).**
50. **“Isotaion and Purification of Camel Milk Oligosaccharides as Therapeutic Agent”,** Arjita Mani and Desh Deepak, *JBCR,* 33(2) **(2016), UGC no. 62923, ISSN no 23193077.**
51. **“Isolation and NMR Studies of Novel Oligosaccharide from Goat Milk”** Anupaum kumar Srivastava, Pushpraj Singh and Desh Deepak, *JBCR,* 33(2) (**2016), UGC no. 62923, ISSN no 23193077.**
52. **“Immunostimulant Fractions of Novel Hexa and Heptasaccharide from Donkey's Milk”,** Ashok K. Ranjan, Ramendra S. Rathore, Desh Deepak, Anakshi Khare, Ragini Sahai and V.M.L. Srivastava, *Asian Journal of Organic & Medicinal Chemistry.*, Pg.55-60 **(2016), UGC no., ISSN no 24568937.**
53. **“Structure Elucidation of Novel Milk Oligosaccharide from Yak Milk”** Kuldeep Kumar, Anupam Srivastava and Desh Deepak *JBCR,* 34(1) **(2017), UGC no. 62923, ISSN no 23193077.**
54. **“Isolation and Structure Elucidation of Caprose (Novel Oligosaccharide) from Goat Milk”** Pushpraj Singh, Anupam Kumar Srivastava and Desh Deepak. *JBCR,* 34(1) **(2017), UGC no. 62923, ISSN no 23193077.**
55. **“Isolation of Novel Oligosaccharide from *Bos indicus* (Black Cow) Milk and their DFT Studies”** Muzeeb Khan, Deepali Narain, Anil Mishra, Anakshi Khare and Desh Deepak\*.*International Journal of Carbohydrate Research*; 7(1): 4-8 (***2017),* UGC no. 5036, ISSN no 0086215.**
56. **“Obtention of Novel Fucosylated Oligosaccharides from Sheep Milk”** Ashok Kr. Ranjan, Honey Sinha, Desh Deepak\*, *International Journal of Carbohydrate Research* 7(1): 1-3 **(*2017),* UGC no. 5036, ISSN no 0086215.**
57. **“Isolation and Structure Elucidation of Novel Milk Oligosaccharide from Shyama Dhenu (Black Cow) Milk”** Lata Gangwar, Deepali Narain, Anakshi Khare and Desh Deepak**\*.** *JBCR*, Vol. 34, No. 1: 249-255**(2017), UGC no. 62923, ISSN no 23193077.**
58. **“Isolation of a Novel Oligosaccharide (Dicose) from Sheep Milk”** Pooja Verma, Mayank Agnihotri, Joy Sarkar and Desh Deepak. *JBCR,* Vol. 34, No. 1: 221-230*,* **(2017), UGC no. 62923, ISSN no 23193077.**
59. **“Structure Elucidation of Novel Oligosaccharide from Shyama Dhenu Milk and their DFT Studies”** Muzeeb Khan, Sheelu Sharma, Deepali Narain, Anil Mishra, Anakshi Khare and Desh Deepak\*. *JBCR,* Vol. 34, No. 1: 188-195, **(2017), UGC no. 62923, ISSN no 23193077.**
60. **“Isolation and Structure Elucidation of novel oligosaccharide Bosnose from shyama Dhenu (Black cow) Milk”** Gunjan, Deepali Narain, Anakshi Khare, Desh Deepak\*, *JBCR*, 34(1). 181-187, **(2017), UGC no. 62923, ISSN no 23193077.**
61. “**Structure Elucidation of a Novel Oligosaccharide (Medalose) from Camel Milk”** Lata Gangwar, Rinku Singh and Desh Deepak, *Journal of Molecular Structure,* 1153; 157-161, **(2017), UGC no. 24702, ISSN no. 00222860*.***
62. **“Isolation and Structure Elucidation of Biologically Active Novel Pentasaccharide from the milk of *Bubalus bubalis”,*** Lata Gangwar, Anish Kumar, Desh Deepak\*, *International Journal of Carbohydrate Research 2017,* 7(1), 9-13, **(*2017),* UGC no. 5036, ISSN no 0086215***.*
63. **“Isolation and Structural Determination of Ramelose (A Novel Oligosaccharide from Camel Milk) by 2D**-**NMR”,** Pooja Verma, Rinku Singh and Desh Deepak\*, *International Journal of Carbohydrate Research, 2017*, 7(1), 14-20, **(*2017),* UGC no. 5036, ISSN no 0086215**.
64. **“Structure Elucidation Of a Novel Compound Carpuside isolated from *Ichnocarpus frutiscens”*** Pradeep Bahadur Neupane, Arpita Prasad, Naveen Khare, Anakshi Khare and Desh Deepak, Trends in Carbohydrate Research, Vol. 9, No. 4, 2017, 1-6, **UGC no. 35054, ISSN no. 09750304.**.
65. **“Isolation of a novel Sheep milk oligosaccharide as biologically active component”** Shilpi Sah**u,** Pooja Verma, Joy Sarkar and Desh Deepak, *JBCR,* 2017, vol 34(2), 583-596, **UGC no. 62923, ISSN no 23193077**.
66. **“Isolation, Purification and NMR Study of a Novel Nonasaccharide (Rieose) from ‘Gaddi Sheep’ Milk”** Sanyogita Shahi, Lata Gangwar, Pooja Verma and Desh Deepak\*, JBCR, 2017, vol 34(2), 569-582, **UGC no. 62923, ISSN no 23193077.**
67. **“Isolation and structure elucidation of novel nonasaccharide from gaddi’ sheep milk”,** Sanyogita Shahi, Muzeeb Khan and Desh Deepak\*,  *JBCR*, 2017 Vol 34(2), 557-568, **UGC no. 62923, ISSN no 23193077**.
68. **“NMR libraries of natural and synthetic monosaccharides, oligosaccharides and glycosides”** Asho**k** Kr Ranjan and Desh Deepak\***,** Chemistry & Biology Interface, 2017, 7, 5, 255-285, **UGC no. 48474, ISSN no. 22494820**.
69. **“Synthesis of mono and di digoxigenin and strophanthidin cardiac glycosides”** Ashok Kr Ranjan, Rinky srivastva and Desh Deepak, Chemistry & Biology Interface, 2017, 7, 5, 311-322, **UGC no. 48474, ISSN no. 22494820**.
70. **“Structure Elucidation of a Novel CompoundIchnosid*e* isolated from *Ichnocarpus frutiscens”*** Pradeep Bahadur Neupane, Arpita Prasad, Naveen Khare, Anakshi Khare and Desh Deepak, Chemistry and Biology Interface, 2017, 7, 6, 351-358, **UGC no. 48474, ISSN no. 22494820**.
71. **"Famiose: A novel Hexasaccharide from donkey's milk"** Pushpraj Singh, Ranjeet Kumar Maurya, Abbas Haider and Desh Deepak, *jbcr,* ***2017,* UGC no. 62923, ISSN no 23193077.**
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86.**“Isolation and structure elucidation of novel Tetrasaccharide from Gaddi sheep milk**

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 Conference on Advance in Chemistry For Substainable Development” at Department of

 Chemistry and Mechanical Engineering Harcourt Technical University, Kanpur (march

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 Carbohydrate” 18-20th Dec 2017.

93.**Chauri milk oligosaccharide and their biological activities** Pooja Verma, Ashok Kr. Ranjan, Joy Sarkar and Desh Deepak\* 24th ISCB International Conference (ISCBC- 2018), 11-13th Jan 2018, at Manipal University, Jaipur, Rajasthan.

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 Khan , Anil Mishra and Desh Deepak. International Conference on functional biology

 and molecular application in health and agriculture Dec20-22, 2017 University of

 Lucknow.

95. **Isolation and structure elucidation of Novel Oligosaccharide From Gaddi Sheep**

 **Milk and their DFT Studies** Muzeeb Khan,Sanyogita Shahi, Anil Mishra and Desh

 Deepak\* National seminar Lucknow Christan College 8-9 nov 2017.

96.**“isolation and structure elucidation of novel oligosaccharide from lal-mua cow milk**

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98. **Oligosaccharide Constituents of Mare Milk and their Biological Activities;** Ranjeet

 Kumar Maurya, Amit K. Srivastava and Desh Deepak, International Conference on

 Functional Biology and Molecular Applications in Health and Agriculture, Dec. 20-22,

 2017, University of Lucknow.

99. **Medicinal importance of Hemidesmus indicus and its chemical constituents;** Arpita

 Srivastava , naveen Khare and desh Deepak, International Conference on Functional

 Biology and Molecular Applications in Health and Agriculture, Dec. 20-22, 2017,

 University of Lucknow.

100. **Isolation of Unusual Oligosaccharides from Milk of Different Origin,** XXXII

 international Carbohydrate Conference on “Emerging Chemistry and Biology of

 Carbohydrate” Invited Lecture. 18-20th Dec 2017.

101. **Isolation and NMR studies of Aliose –A novel Hexasaacharide from donkey’s milk**;

 Puspraj singh, Abbas Haider Rizvi and Desh Deepak , 24th ISCB international

 conference January 2018 at Manipal University jaipur, rajasthan.

102. **13CNMR studies of Pregnanes** ;Arpita Srivastava, Naveen Khare and Desh Deepak,

 24th ISCB international conference January 2018 at Manipal University jaipur, rajasthan.

103. **Isolation and structure elucidation of Novel Goat milk oligosaccharide by NMR** ;

 Kuldeep Kumar and desh Deepak; 24th ISCB international conference January 2018 at

 Manipal University jaipur, rajasthan.

104. **Isolation and structure elucidation of Novel Hexasaccharide from cow colostrum** ;

 Gunjan and Desh Deepak , 24th ISCB international conference January 2018 at Manipal

 University jaipur, rajasthan.

105. **Isolation and structure elucidation of Baffalo milk oligosaccharide as**

 **immunostimulant;** Ashish kumar singh, anish kumar and desh Deepak, 24th ISCB

 international conference January 2018 at Manipal University jaipur, rajasthan.

106**. Role of mass spectrometry over NMR for the structure elucidation of glycosides**

 **and oligosaccharides** ; Arpita srivastava Naveen khare and Desh Deepak; XXXII

 international Carbohydrate Conference on “Emerging Chemistry and Biology of

 Carbohydrate” Invited Lecture. 18-20th Dec 2017 at IIT Kharagpur.

107. **Isolation Of Novel Milk Oligosaccharide From Mare Milk** Ranjeet Kumar Maurya,

 Shipli Shahu and Desh Deepak, 24th ISCB international conference January 2018 at

 Manipal University jaipur, rajasthan.

108. **Isolation of Novel Milk Oligosaccharide From Mare Milk** Ranjeet Kumar Maurya ,

 Amit Srivastava and Desh Deepak\* XXXII international Carbohydrate Conference on

 “Emerging Chemistry and Biology of Carbohydrate” 18-20th Dec 2017.

**Ph.D. supervised in Field of Carbohydrate chemistry with Name of Students and Title of the Thesis**

1. **Amit Srivastava (2007)**-“Isolation of oligosaccharides from Mare milk as immunostimulant andantibacterial agent”.
2. **Shilpi Sahu (2007)**-“Isolation and synthesis milk oligosaccharides as biologically activecomponents”.
3. **Rinku Singh (2007)**-“Isolation of milk oligosaccharides from Camel milk as antibacterial andimmunomodulators”.
4. **Nitin Kumar Gupta (2007)**-“Isolation of milk oligosaccharides as immunostimulants”.
5. **Rahul Shrotriya (2007)**-“Effect of various substituent groups on splitting pattern and chemical shiftsof various monosaccharides and oligosaccharides”.
6. **Anupam Kumar Srivastava (2008)**-“Isolation of oligosaccharides from milk as bioactive agents”.
7. **S. Abbas Haider Rizvi (2008)**-“Mass spectral analysis of natural products”.
8. **Gaurav Srivastava (2008)**-“Isolation of Yak milk oligosaccharides as therapeutic agents”.
9. **Sanyogita Shahi (2008)**-“Mlik oligosaccharides as immunostimulants”.
10. **Devina Sahai (2008)**-“Nutritional and medicinal properties of various milk”.
11. **Narendra Mani Tripathi (2012)**-“Isolation and Structure Elucidation of Biologically Important Milk Oligosaccharides”
12. **Arjita Mani (2012**)“isolation of oligosaccharides as Therapeutic Agents from Milk”.
13. **Ram Krishan Bajpai (2012)**-“organic and metal pollution in River Gomti and Ganga”.
14. **Anish Kumar (2012)**-“Isolation and structure Elucidation of Milk Oligosaccharides as Therapeuticagents”.
15. **Mayank Agnihotri (2013)**-“Isolation of Biologically Important Oligosaccharides from Milk”.
16. **Tulika Roy (2014)**-“Isolation of various milk oligosaccharides as bioactive agents”.
17. **Meenakshi Singh (2015)**-“Conformational Studies of Oligosaccharides isolated from*Bubalus bubalis*Clostrum as therapeutic agents by NMR”.
18. **Ashok Kumar Ranjan (2015)**- “Isolation of biologically active oligosaccharides from milk of*ovies**aries* and their structure elucidation”
19. **Kuldeep Kumar (2017)**- “Conformational & Configurational Studies of Goat Milk Oligosaccharide by NMR”.
20. **Gunjan (2017)**- “Stereoscopic Structure Elucidation of Cow Colostrum Oligosaccharides by NMR”
21. **Ashish Kumar Singh (2018)-** “Structure elucidation of milk oligosaccharides by 2D-NMR”
22. **Lata Gangwar (2018)-** 2D-NMR study of Novel Milk Oligosaccharides and Their Biological Activities. (Thesis submitted on 13/08/2018 at Lucknow University)

**Ph.D. Co-supervised in relevant area**

* 1. **Ruchi Chandra (1991)- “**Studies of Glycosides (a. Pregnane Glycosides, b. Synthetic glycoproteins”
	2. **Sanjay Srivastava (1993)- “**Pregnane Glycosides from Asclepiadaceae”
	3. **Poonam Sigler (1997)- “**Pregnane Glycosides from Hemidesmus indicus and *Orthenthera viminea”*
	4. **Reena Saksena (1997)- “**Isolation and Stereoselective Synthesis of Milk Oligosaccharides as Immunostimulants and Tumor-Associated Antigens”
	5. **Vijay Shankar Gupta (2001)- “**Chemical Constituents of Marsdenia Roylei”
	6. **Satish Chandra Pandey (2001)- “**Isolation of Pregnane precursors from Hoya Iongifolia and Synthesis of Biologically active Pregnane derivatives”
	7. **Ramendra Singh Rathore (2001)- “**Isolation of Novel Oligosaccharides as Immunostimulant from Donkey’s Milk”
	8. **Rinky Srivastava (2002)- “**Isolation of Cardenolides and their Precursors and Synthesis of Cardiac Glycosides”
	9. **Pradeep Bahadur Neupane (2003)- “** Chemical Constituents of Ichnocarpus frutescens**”**
	10. **Deepali Narain (2006)- “**Isolation of Milk Oligosaccharides as Therapeutic Agents”
	11. **Honey Sinha (2006)– “**Isolation of Sheep Milk Oligosaccharides as Bioactive components”
	12. **Arpita Prasad (2018)- “**Isolation and Structure Elucidation of Naturally Occurring Glycosides from Indigenous Medicinal Plants” (Thesis submitted on 26/07/2018 at Lucknow University)

**Current Ph.D. Students**

1. Muzeeb Khan
2. Pushpraj Singh
3. Ranjeet Kumar Maurya
4. Mayank Sharma
5. Binapani Das
6. Pooja Pandey
7. Jyotsana Srivastva (Collaborative Student, SHIATS, Allahabad)
8. Pooja Verma (Collaborative Student, Lucknow University