

## **BIO-DATA**

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- 3. Date of Birth:** December 21, 1969
- 4. Present post:** Professor

### **5. HIGHLIGHTS OF QUALIFICATIONS**

- 1. Three years** Postdoctoral Fellow in the Glycobiology Program, The Burnham Institute, California, USA and in School of Chemistry, University of St. Andrews, Scotland, UK.
- 2. Eighteen years** experience in independent leadership as Scientist to supervise Ph.D. students.
- 3. One year** experience as senior research scientist in industry.

### **6. PROFESSIONAL AWARDS**

1. Received **CSIR Young Scientist Award 2005** in Chemical Sciences.
2. Received **DST Ramanna Research Fellowship 2007** (2007-2010).
3. Dr. H.C. Srivastava young scientist award 2014, from Association of Carbohydrate Chemists and Technologists (India)
4. Visiting scientist to University of Konstanz, Germany under INSA-DFG bilateral exchange program (March-May 2009), Abo Akademy University, Turku, Finland (Aug-Oct. 2013) under DBT, India-Academy of Finland exchange program, University of Debrecen, Hungary under INSA-HAS bilateral exchange program (April-June 2015).

### **7. EDUCATION**

- Ph.D., Synthetic Carbohydrate Chemistry, Jadavpur University, Calcutta, India 1997  
“Synthesis of Complex Oligosaccharides Related to Some Bacterial Polysaccharides” (with Prof. Nirmolendu Roy, Indian Association For the Cultivation of Sciences, Calcutta)
- M. Sc. in Organic Chemistry, University of Calcutta, India. 1991
- B. Sc.(Hons.) in Chemistry, R. K. Mission Residential College, Narendrapur, University of Calcutta, India. 1989

## 8. EXPERIENCE

- (1) **Bose Institute, Kolkata, India** **January 2016-contd.**  
Professor, Division of Molecular Medicine
- (2) **Bose Institute, Kolkata, India** **August 2010-Dec. 2015**  
Associate Professor, Division of Molecular Medicine
- (2) **Bose Institute, Kolkata, India** **October 2008-July 2010**  
Assistant Professor, Division of Molecular Medicine
- Chemical synthesis of complex oligosaccharides and their glycoconjugates of microbial origin and immunochemical studies to raise antibodies against them.
  - Design and synthesis of small molecules for their use in developing anticancer, antioxidative agents and enzyme inhibitors.
- (3) **Central Drug Research Institute (C.S.I.R), Lucknow, India** **Sept. 2001-Sept. 2008**  
Scientist-C and E1, Medicinal and Process Chemistry Division
- Development of multi-component reaction for the synthesis of several heterocyclic molecules for their biological screening as antimicrobial agents.
  - Structure elucidation and synthesis of bioactive natural products.
  - Environmentally benign methodology development in synthetic organic chemistry.
- (4) **Chembiotek Research Pvt. Ltd., Kolkata** **2000-2001**  
Senior Research Scientist
- Synthetic studies on Linazolid antibiotic analogs.
- (5) **The Burnham Institute, La Jolla, USA** **1998-2000**  
Postdoctoral Research Fellow with Prof. Ole Hindsgaul and Prof. Minoru Fukuda
- Chemo-enzymatically synthesized a series of oligosaccharides of mucin type glycans for use in the assay of glycosyltransferases.
  - Synthesised sialyl Lewis X tetrasaccharide as well as its analogs for use in the recognition studies of selectins.
- (6) **University of St. Andrews, Scotland** **1997-1998**  
Postdoctoral Research Fellow with Prof. R. A. Field and Prof. S. W. Homans
- Prepared <sup>13</sup>C-labelled GM<sub>1</sub> pentasaccharide for its use in the isotope-assisted NMR spectroscopy.
- (7) **Indian Association for the Cultivation of Science, India** **1992-1997**  
Ph.D. student with Prof. N. Roy
- Synthesized oligosaccharides corresponding to the pathogenic bacterial polysaccharides. repeating unit of *Klebsiella* type 2 and tri- and tetrasaccharide analogs related to this antigen.

## 9. HUMAN RESOURCES DEVELOPED

a. **Fourteen students** completed and awarded Ph.D. degree and presently doing Post-doctoral studies in abroad under Newton, RSC, AvH and NIH fellowships etc.

Sl. No.	Title of the thesis	Submitted by	Year	University
1	Synthetic studies towards carbohydrate derived molecules of biological importance.	Geetanjali Agnihotri	2006	H. N. B. Garhwal University, Srinagar, Uttaranchal
2	Synthetic studies on carbohydrate derived biodynamic molecules.	Pallavi Tiwari	2007	Banaras Hindu University, Varanasi
3	Structural studies of synthetic molecules of biological importance.	Rishi Kumar	2008	J. N. U. New Delhi
4	Design and synthesis of molecules of biological importance.	Soni Kamlesh Madhusudan	2008	H. N. B. Garhwal University, Srinagar, Uttaranchal
5	Design and Synthesis of Carbohydrate Based Biodynamic Molecules.	Chinmoy Mukherjee	2009	Jadavpur University, Kolkata
6	Synthesis of oligosaccharides of biological importance.	Pintu Kumar Mandal	2009	Jadavpur University, Kolkata
7	Synthesis of Complex Oligosaccharides Related to Microbial Polysaccharides	Rajib Panchadhayee	2011	Banaras Hindu University, Varanasi
8	Synthetic studies on oligosaccharides related to some bacterial polysaccharides	Samir Ghosh	2011	Jadavpur University, Kolkata
9	Synthesis of oligosaccharides corresponding to the bacterial cell wall polysaccharides	Goutam Guchhait	2012	Jadavpur University, Kolkata
10	Synthesis of complex oligosaccharides corresponding to the bacterial polysaccharides	Abhishek Santra	2013	University of Calcutta, Kolkata
11	Synthetic studies on microbial complex oligosaccharides	Abhijit Sau	2014	University of Calcutta, Kolkata
12	Synthesis of Oligosaccharides and Development of Synthetic Methodologies	Manas Jana	2016	University of Calcutta, Kolkata
13	Synthesis of Complex Oligosaccharides of Bacterial Origin	Tamashree Ghosh	2016	University of Calcutta, Kolkata
14	Synthesis of oligosaccharide repeating units of the bacterial cell wall polysaccharides	Debashis Dhara	2017	University of Calcutta, Kolkata

b. At present **Seven students** are working in the laboratory in Ph.D. program.

10. **Life member:** Association for Carbohydrate Chemists and Technologists (India)

## LIST OF PUBLICATIONS

No.	Article Title	Journal Title	Authors
159	Facile Transformation of Nitriles into Thioamides: Application to C-Glycosyl Nitrile Derivatives	<i>ChemistrySelect</i> 2017, 2, 1366 -69	Tamashree Ghosh, Anshupriya Si, Anup Kumar Misra*
158	Concise Synthesis of a Pentasaccharide Repeating Unit Corresponding to the O-Antigen of Salmonella EntericaO51	<i>ChemistrySelect</i> 2017, 2, 937-939	Ishani Bhaumik, Anup Kumar Misra*
157	Global Association between Thermophilicity and Vancomycin Susceptibility in Bacteria	<i>Front. Microbiol.</i> 2016, 7:412. doi: 10.3389/fmicb.2016.00412.	C. Roy, M. Alam, S. Mandal, P. K. Haldar, S. Bhattacharya, T. Mukherjee, R. Roy, M. J. Rameez, Anup K. Misra, R. Chakraborty, A. K. Nanda, S. K. Mukhopadhyay, Wriddhiman Ghosh,
156	Phemindole, a synthetic di-indole derivative maneuvers the store operated calcium entry (SOCE) to induce potent anti-carcinogenic activity in human triple negative breast cancer cells	<i>Frontiers in Pharmacology</i> (2016),7, 114/1-114/21.	S. Chakraborty, S. Ghosh, B. Banerjee, A. Santra, A. Adhikary, Anup K. Misra, Parimal C. Sen,
155	Mephebrindole, a synthetic indole analog coordinates the crosstalk between p38MAPK and eIF2 $\alpha$ /ATF4/CHOP signalling pathways for induction of apoptosis in human breast carcinoma cells	<i>Apoptosis</i> (2016),21,1106-1124	S. Chakraborty, S. Ghosh, B. Banerjee, A. Santra, J. Bhat, A. Adhikary, S. Chatterjee, Anup K.; Misra, Sen, Parimal C.
154	Expedient synthesis of the pentasaccharide repeating unit of the O-antigen of Escherichia coli O86 and its conformational analysis	<i>Glycoconj J</i> (2016) 33, 887-896	Ishani Bhaumik, Anup Kumar Misra*
153	Synthesis of a pentasaccharide repeating unit corresponding to the cell wall O-antigen of Escherichia coli O59 using iterative glycosylations in one pot	<i>Tetrahedron</i> (2016) 72, 4435-4441	Anshupriya Si, Anup Kumar Misra*
152	Preparation of glycosyl thiourea derivatives from glycosyl azides using sulfamic acid and sodium iodide in one-pot	<i>Carbohydrate Research</i> (2016) 434, 107-112	Arin Guichait, Manas Jana, Kuladip Jana, Anup Kumar Misra*
151	C-Cinnamoyl glycosides as a new class of anti-filarial agents	<i>Eur. J. Med. Chem</i> (2016) 114, 308-317	Priya Roy, Debashis Dhara, Pravat Kumar Parida, Rajiv Kumar Kar, Anirban Bhunia, Kuladip Jana, Santi P. Sinha Babu,* Anup Kumar Misra*
150	Oxidative stress plays major role in mediating apoptosis in filarial nematode <i>Setaria cervi</i> in the presence of trans-stilbene derivatives	<i>Free Rad. Biol. Med.</i> (2016) 93, 130-144	Niladri Mukherjee, Pravat Kumar Parida, Abhishek Santra, Tamashree Ghosh, Ananya Dutta, Kuladip Jana, Anup

			Kumar Misra,* Santi P. Sinha Babu*
149	Glycosylation of phenolic acceptors using benzoylated glycosyl trichloroacetimidate donors	<i>Carbohydrate Chemistry: Proven Synthetic Methods</i> (2015), 3, 97-105.	Jani Rahkila, Anup Kumar; Misra, Lorenzo Guazzelli, Reko Leino,
148	Chemoselective hydration of glycosyl cyanides to C-glycosyl formamides using ruthenium complexes in aqueous media	<i>Tetrahedron Letters</i> (2015) 56, 5995-5998	Anup Kumar Misra, Éva Bokor, Sándor Kun, Evelin Bolyog-Nagy, Ágnes Kathó, Ferenc Joó, László Somsák*
147	Expedient synthesis of the pentasaccharide repeating unit of the polysaccharide O-antigen of <i>Escherichia coli</i> O11	<i>Chemistry Open</i> (2016) 5, 47-50	Anshupriya Si, Anup Kumar Misra*
146	Facile synthesis of the heptasaccharide repeating unit of the cell wall O-polysaccharide of enterotoxigenic <i>Escherichia coli</i> O139	<i>Chemistry Open</i> (2015) 5, 43-46	Tamashree Ghosh, Anup Kumar Misra*
145	Synthesis of di- and trisaccharides related to the O-polysaccharide of <i>Shigella dysenteriae</i> type 8	<i>J. Carbohydr. Chem.</i> (2015) 34, 501-513	Abhishek Santra, Tamashree Ghosh and Anup Kumar Misra*
144	Convergent Synthesis of Oligosaccharide Fragments Corresponding to the Cell Wall O-Polysaccharide of <i>Salmonella enterica</i> O53	<i>Chemistry Open</i> (2015) 4, 768-773.	Debashis Dhara, Anup Kumar Misra*
143	Synthesis of trisaccharide and a tetrasaccharide repeating unit corresponding to the O-antigen of Shiga toxin producing <i>Escherichia coli</i> O177	<i>Tetrahedron</i> (2015) 71, 3960-3965	Manas Jana, Anup Kumar Misra*
142	Synthesis of a tetrasaccharide and its glycoconjugate corresponding to the capsular polysaccharide of <i>Neisseria meningitidis</i> serogroup X and its immunochemical studies	<i>RSC: Adv.</i> (2015) 5, 41332-41340	K. R. Harale, N. B. Dumare, D. Singh, Anup K. Misra, Manoj K. Chhikara
141	Efficient synthesis of the pentasaccharide repeating unit of the O-antigenic polysaccharide of <i>Escherichia coli</i> O166 strain	<i>Synthesis</i> (2015) 47, 83-88.	Anshupriya Si, Anup Kumar Misra*
140	Expedient synthesis of a pentasaccharide related to the O-specific polysaccharide of <i>Escherichia coli</i> O117:K98:H4 strain	<i>RSC: Adv</i> (2014) 4, 61589-61595	Ishani Bhaumik, Anup Kumar Misra*
139	Synthesis of the pentasaccharide repeating unit of the O-antigen of <i>Escherichia coli</i> O175 using one-pot glycosylations and its conformational analysis	<i>Tetrahedron</i> (2014) 70, 9262-9267	Tamashree Ghosh, Rajiv Kumar Kar, Anirban Bhunia, Anup Kumar Misra*
138	Efficient synthesis of the tetrasaccharide repeating unit of the O-antigen of <i>Escherichia coli</i> O174 strain	<i>Carbohydr. Res.</i> (2014) 399, 21-25.	Ishani Bhaumik, Tamashree Ghosh and Anup K. Misra*
137	Synthesis of the tetrasaccharide repeating unit of the O-antigen of <i>Escherichia coli</i> O69 strain and its conformational analysis	<i>RSC Adv.</i> (2014) 4, 37079-37084.	Manas Jana, Rajiv Kumar Kar, Anirban Bhunia, Anup Kumar Misra*
136	Concise Synthesis of the Repeating Units of the Cell Wall Lipopolysaccharide of <i>Azospirillum brasilense</i> SR80	<i>Synthesis</i> (2014) 1947-1953.	Pintu Kumar Mandal, Debashis Dhara, and Anup Kumar Misra
135	Synthesis and evaluation of triazole linked glycosylated 18 $\beta$ -glycyrrhetic acid derivatives	<i>Bioorganic Medicinal Chem.</i>	P. K. Parida, A. Sau, T. Ghosh, K. Jana, K.

	as anticancer agents.	<i>Letters</i> (2014), 24, 3865-68.	Biswas, S. Raha, Anup Kumar Misra*
134	Convergent synthesis and conformational analysis of the hexasaccharide repeating unit of the <i>O</i> -antigen of <i>Shigella flexneri</i> serotype 1d	<i>European Journal of Organic Chemistry</i> (2014) 4577-4584.	Debashis Dhara, Rajiv Kumar Kar, Anirban Bhunia, Anup Kumar Misra*
133	Linear synthesis and conformational analysis of the pentasaccharide repeating unit of the cell wall <i>O</i> -antigen of <i>Escherichia coli</i> O13	<i>Carbohydrate Research</i> (2014) 391, 9-15.	A. Santra, A. Si, R. K. Kar, A. Bhunia, Anup Kumar Misra*
132	Synthesis of a pentasaccharide repeating unit of the <i>O</i> -antigen of enteroadherent <i>Escherichia coli</i> O154 strain	<i>Tetrahedron: Asymm.</i> (2014), 25, 632-636	Manas Jana, Abhijit Sau, Anup K. Misra*
131	Convergent synthesis of a pentasaccharide repeating unit corresponding to the cell wall <i>O</i> -antigen of <i>Salmonella enteric</i> O44.	<i>Tetrahedron: Asymmetry</i> (2014) 25, 263-267.	Debashis Dhara, Pintu Kumar Mandal, Anup Kumar Misra*
130	Convergent synthesis of a tetrasaccharide repeating unit of the <i>O</i> -specific polysaccharide from the cell wall lipopolysaccharide of <i>Azospirillum brasilense</i> strain Sp7.	Beilstein J. Org. Chem. (2014) 10, 293-299.	Pintu Kumar Mandal*, Debashis Dhara and Anup Kumar Misra
129	Convergent synthesis of a hexasaccharide corresponding to the cell wall <i>O</i> -antigen of <i>Escherichia coli</i> O41	<i>RSC Adv.</i> (2014) 4, 54-60	Tamashree Ghosh, Abhishek Santra and Anup Kumar Misra*
128	Concise synthesis of a pentasaccharide repeating unit corresponding to the <i>O</i> -antigen of <i>Escherichia coli</i> O102.	<i>Tetrahedron: Asymmetry</i> (2013), 24, 942-946	Abhijit Sau, Debashis Dhara and Anup Kumar Misra*
127	Concise synthesis of the tetrasaccharide repeating unit of the <i>O</i> -antigen of <i>Escherichia coli</i> O16.	Beilstein J. Org. Chem. (2013) 9, 1757-1762.	Manas Jana and Anup Kumar Misra*
126	Expedient synthesis of a tetrasaccharide and a pentasaccharide corresponding to the cell wall <i>O</i> -antigen of <i>Escherichia coli</i> O77 and <i>Escherichia coli</i> O17.	<i>Tetrahedron: Asymmetry</i> (2013), 24, 1488-1494	Debashis Dhara and Anup Kumar Misra*
125	Synthesis of a common tetrasaccharide repeating of the <i>O</i> -antigen of enteroinvasive <i>Escherichia coli</i> O143 and <i>Shigella boydii</i> type 8	<i>Current Organic Synthesis</i> (2013) 10, 178-182.	Abhishek Santra and Anup Kumar Misra*
124	Facile synthesis of a pentasaccharide repeating unit corresponding to the common <i>O</i> -antigen of <i>Salmonella enterica</i> O57 and <i>E. coli</i> O51.	<i>Tetrahedron: Asymmetry</i> (2013), 24, 606-611.	Tamashree Ghosh, Abhishek Santra and Anup Kumar Misra*
123	Short synthesis of the common trisaccharide core of kankanose and kankanoside isolated from <i>Cistanche tubulosa</i>	Beilstein J. Org. Chem. (2013) 9, 705-709.	Goutam Guchhait, Anup Kumar Misra*
122	Stereoselective synthesis of $\beta$ -glycosyl thiols and their synthetic applications.	<i>J. Org. Chem.</i> (2013) 78, 2680-86.	Manas Jana and Anup Kumar Misra*
121	Nitrosyl tetrafluoroborate catalyzed preparation of 2,3-unsaturated and 2-deoxy glycosides of hindered alcohols, thiols and sulfonamides	<i>Synlett</i> (2013) (24) 581-586.	Abhishek Santra, Goutam Guchhait and Anup Kumar Misra*
120	Appel reagent mediated transformation of glycosyl hemiacetal derivatives into thioglycosides and glycosyl thiols	Beilstein J. Org. Chem. (2013) 9, 974-982.	Tamashree Ghosh, Abhishek Santra, Anup Kumar Misra*
119	Removal of benzylidene acetal and benzyl ether in carbohydrate derivatives using triethylsilane and Pd/C.	Beilstein J. Org. Chem. (2013) 9, 74-78.	Abhishek Santra, Tamashree Ghosh, Anup Kumar Misra*
118	Convergent synthesis of the tetrasaccharide repeating unit of the cell wall lipopolysaccharide of <i>Escherichia coli</i> O40	Beilstein J. Org. Chem. (2012) 8, 2053-2059.	Abhijit Sau, and Anup Kumar Misra*

117	Significantly fast synthesis of glycosyl dithiocarbamate and trithiocarbonate derivatives under solvent-free condition	Synlett (2012) (23) 2789-2794.	Manas Jana and Anup Kumar Misra*
116	Stereoselective glycosylations by nitrosyl tetrafluoroborate catalyzed activation of glycosyl trichloroacetimidate derivatives	Synlett (2012) (23), 2341-2348.	Abhijit Sau, Abhishek Santra and Anup Kumar Misra*
115	Facile synthesis of the pentasaccharide repeating unit of the cell wall O-antigen of <i>Escherichia coli</i> 19ab	Carbohydrate Research (2012) 362, 8-12.	Tamashree Ghosh, Anup Kumar Misra*
114	Expedient synthesis of two structurally close tetrasaccharides corresponding to the O-antigens of <i>Escherichia coli</i> O127 and <i>S. enterica</i> O13	Tetrahedron: Asymmetry (2012) 23, 1385-1392.	Abhishek Santra, Tamashree Ghosh, Anup Kumar Misra*
113	Reaction of glycal derivatives with alcohols in the presence of <i>N</i> -Bromosuccinimide (NBS) and diphenyldiselenide: Preparation of 2-deoxy-2-phenylselenyl glycosides	Carbohydrate Research (2012) 361, 41-48.	Abhijit Sau, Anup Kumar Misra*
112	Synthesis of the tetrasaccharide motif and its structural analog corresponding to the O-specific lipopolysaccharide of <i>Escherichia coli</i> O75	PLoS: One (2012) 7, e37291	Abhijit Sau, and Anup Kumar Misra*
111	Convergent synthesis of the pentasaccharide repeating unit of the O-antigenic polysaccharide of enterohaemorrhagic <i>Escherichia coli</i> O113	Glycoconjugate Journal (2012) 29, 181-188	Abhishek Santra and Anup Kumar Misra*
110	Synthesis of a tetrasaccharide analog corresponding to the repeating unit of the O-polysaccharide of <i>Salmonella enterica</i> O59: Unexpected stereo outcome in glycosylation.	Carbohydrate Research (2012) 352, 18-22.	Abhijit Sau, Rajib Panchadhayee, Debjani Ghosh, Anup Kumar Misra*
109	Convergent synthesis of the tetrasaccharide repeating unit corresponding to the O-antigen of the vero-toxin producing <i>E. coli</i> O176	Glycoconjugate Journal (2011) 28, 519-524.	Goutam Guchhait and Anup Kumar Misra*
108	Convergent synthesis of the tetrasaccharide repeating unit of the O-antigen of <i>Shigella boydii</i> type 9	Beilstein J. Org. Chem (2011) 7, 1182-1188.	Abhishek Santra and Anup Kumar Misra*
107	Convergent synthesis of the pentasaccharide repeating unit of the O-antigen of <i>Shigella boydii</i> type 14	Tetrahedron: Asymmetry (2011) 22, 1390-1394.	Rajib panchadhayee and Anup Kumar Misra*
106	Efficient glycosylation of unprotected sugars using sulfamic acid: a mild eco-friendly catalyst	Catalysis Communications (2011) 14, 52-57.	Goutam Guchhait and Anup Kumar Misra*
105	Environmentally benign synthesis of 2,3-unsaturated glycopyranosides in task-specific ionic liquid	Catalysis Letters (2011) 141-925-930.	Goutam Guchhait and Anup Kumar Misra*
104	Odorless eco-friendly synthesis of thio- and selenoglycosides in ionic liquid	Synlett (2011) 1905-1911.	Abhijit Sau and Anup Kumar Misra*
103	Synthesis of thioglycosides in room temperature ionic liquid.	J. Carbohydr. Chem. (2011) 30, 85-93.	Abhishek Santra, Abhijit Sau, Anup Kumar Misra*
102	Environmentally benign preparation of benzylidene acetal of carbohydrate derivatives in PEG 600	J. Carbohydr. Chem. (2011) 30, 41-46.	Abhijit Sau and Anup Kumar Misra
101	Efficient acylation and sulfation of carbohydrates using sulfamic acid, a mild, eco-friendly catalyst under organic solvent-free condition	Green Chemistry (2011) 13, 1345-51.	Abhishek Santra, Goutam Guchhait, Anup Kumar Misra*
100	Convergent synthesis of a common pentasaccharide corresponding to the O-antigen of <i>Escherichia coli</i> O168 and <i>Shigella</i>	Glycoconjugate Journal (2011) 28, 11-19.	Goutam Guchhait, Anup K. Misra*

	dysenteriae type 4		
99	Synthesis of tri- and penta-saccharide fragments corresponding to the O-antigen of <i>Shigella boydii</i> type 6	Tetrahedron: Asymmetry (2010) 21, 2612-2618.	Abhishek Santra and Anup Kumar Misra*
98	Synthesis of the hexasaccharide repeating unit corresponding to the cell wall lipopolysaccharide of <i>Azospirillum irakense</i> KBC1	Tetrahedron: Asymmetry (2010) 21, 2755-2761.	Samir Ghosh and Anup Kumar Misra*
97	Efficient synthesis of (6-deoxy-glycopyranosid-6-yl)-sulfone derivatives and their effect on $Ca^{2+}$ -ATPase.	Eur. J. Med. Chem. (2010) 45, 6012-6019.	C. Mukherjee, S. Ghosh, P. Nandi, P. C. Sen and Anup K. Misra*
96	Convenient synthesis of penta- and hexasaccharide fragments corresponding to the O-antigen of <i>Escherichia coli</i> O150	Tetrahedron: Asymmetry (2010) 21, 2142-2152.	Rajib Panchadhayee and Anup K. Misra*
95	Convergent synthesis of a common pentasaccharide repeating unit corresponding to the O-specific polysaccharide of <i>Escherichia coli</i> O4: K3, O4:K6 and O4:K12.	Tetrahedron: Asymmetry (2010) 21, 859-863.	Rajib Panchadhayee and Anup Kumar Misra*
94	Synthesis of a hexasaccharide corresponding to <i>Azospirillum lipoferum</i> Sp59b lipopolysaccharide	Tetrahedron: Asymmetry (2010) 21, 725-730.	Samir Ghosh and Anup Kumar Misra*
93	Regioselective reductive ring-opening of benzyldene acetals using triethylsilane and $I_2$	Synlett (2010) 1193-1196.	Rajib Panchadhayee and Anup K. Misra*
92	Substituted hydrazinecarbothioamide as potent antitubercular agents: Synthesis and quantitative structure-activity relationship (QSAR).	Bioorg. Med. Chem. Lett. (2010) 20, 2597-2600	S. Singh, P. K. Mandal, N. Singh, Anup K. Misra, S. Singh, V. Chaturvedi, S. Sinha, A. K. Saxena
91	Removal of anomeric allyl group using N-bromo succinimide (NBS): preparation of glycosyl hemiacetals	J. Carbohydr. Chem. (2010), 29, 76-83.	Rajib Panchadhayee and Anup Kumar Misra*
90	Concise Synthesis of the pentasaccharide O-antigen corresponding to the Shiga toxin producing <i>Escherichia Coli</i> O171	Bioorganic Chemistry (2010) 38, 56-61.	Pintu Kumar Mandal and Anup Kumar Misra*
89	Synthesis of the trisaccharide O-antigen of <i>Rahnella aquatilis</i> 1-95	J. Carbohydr. Chem. (2010), 29, 1-9.	Goutam Guchhait, Anup K. Misra*
88	Synthesis of a tetra-saccharide corresponding to the teichoic acid from the cell wall of <i>Streptomyces</i> sp. VKM Ac-2275	Tetrahedron: Asymmetry (2009) 20, 2688-93.	Samir Ghosh and Anup Kumar Misra*
87	Synthesis of tri- and disaccharide fragments related to the O-antigen of enteropathogenic <i>Escherichia coli</i> O158	J. Carbohydr. Chem. (2010) 29, 39-50.	Rajib Panchadhayee and Anup Kumar Misra*
86	Concise synthesis of a hexasaccharide related to the adhesin receptor of <i>Streptococcus oralis</i> ATCC 55229	J. Carbohydr. Chem. (2009) 28, 447-462.	Samir Ghosh and Anup Kumar Misra*
85	Synthesis of (6,6')-C-linked pseudodisaccharides	J. Carbohydr. Chem. (2009), 28, 475-482.	Chinmoy Mukherjee, Anup Kumar Misra*
84	Total synthesis of the heptasaccharide of the iron-binding exopolysaccharide secreted by <i>Klebsiella oxytoca</i> BAS-10	Tetrahedron: Asymmetry (2009) 20, 1791-1797.	Goutam Guchhait and Anup Kumar Misra*
83	Synthesis of a tri and tetra-saccharide present in the cell wall lipopolysaccharides of <i>Azospirillum brasilense</i> S17	Synthesis (2009) 2584-2590	Shashi Pandey, Samir Ghosh and Anup Kumar Misra*



82	Efficient synthesis of two sialylated tetrasaccharides found in goat milk	Synthesis (2009) 1348-1354	Pintu K. Mandal, Anup K. Misra*
81	First synthesis of a pentasaccharide repeating unit of the O-antigenic polysaccharide from enterohemorrhagic E. coli O48:H21.	Tetrahedron: Asymmetry (2009) 20, 1550-1555	Rajib Panchadhayee and Anup Kumar Misra*
80	Total synthesis of a unique tetrasaccharide present in the Human Clotting Factor IX and mammalian Notch 1 receptor.	Tetrahedron: Asymmetry (2009) 20, 473-477	Chinmoy Mukherjee and Anup Kumar Misra*
79	Facile synthesis of a tetrasaccharide corresponding to the capsular polysaccharide of Streptococcus pneumoniae type 15B.	Arkivoc (2009), (ii), 281-287	Pintu Kumar Mandal, Gour Hari Maiti and Anup Kumar Misra*
78	Odorless regioselective ring opening of epoxides with S-alkylisothio-uronium salts as masked thiols in water.	Arkivoc (2009) (ii) 298-307	Rajib Panchadhayee and Anup Kumar Misra*
77	Syntheses and evaluation of glucosyl aryl thiosemi-carbazide and glucosyl thiosemicarbazone derivatives as antioxidant, anti-dyslipidemic agents.	Bioorg. Med. Chem. Lett. (2009), 19, 386-389.	S. Ghosh, Anup Kumar Misra,* G. Bhatia, M. Khan, A. Khanna
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**Book Chapter:**

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**Patent:**

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