

**List of Publications: (in reverse chronological order)**

157. Au(III) Halides/Phenylacetylene Catalyzed Glycosylations using 1-*O*-Acetyl Furanoses and Pyranose 1,2-Orthoesters as Glycosyl Donors  
Asadulla Mallick, Yakkala Mallikharjunarao, Parasuraman Rajasekaran, Rashmi Roy, Y. D. Vankar  
*Eur. J. Org. Chem.* **2016**, [doi.org/10.1002/ejoc.201501245](https://doi.org/10.1002/ejoc.201501245)
156. Recent Developments in the Synthesis of 2-*C*-Branched and 1,2-Annulated Carbohydrates  
Yashwant D. Vankar, Torsten Linker  
*Eur. J. Org. Chem.* **2015**, 7633-7642.
155. AuCl<sub>3</sub> and AuCl<sub>3</sub>-Phenylacetylene catalyzed glycosylations using glycosyl trichloroacetimidates  
Rashmi Roy, A. K. Palanivel, A. Mallick, and Yashwant D. Vankar  
*Eur. J. Org. Chem.* **2015**, 4000-4005.
154. Diastereoselective Overman rearrangement using L-ascorbic acid based allylic alcohol. Application in the Synthesis of (+)-1,2-di-*epi*-swainsonine and tetrahydroxypyrrolizidine  
Parasuraman Rajasekaran, Alafia A. Ansari and Yashwant D. Vankar  
*Eur. J. Org. Chem.* **2015**, 2902-2913.
153. Synthesis of Isofagomine–Pyrrolidine Hybrid Sugars and Analogues of (–)-Steviamine and (+)-Hyacinthacine C5 Using 1,3-Dipolar Cycloaddition Reactions  
Rima Lahiri, Ashokkumar Palanivel, Sudhir A. Kulkarni, and Yashwant D. Vankar  
*J. Org. Chem.* **2014**, 79, 10786-10800.
152. Gold(III)chloride-phenyl acetylene: A new catalyst-system for the Ferrier Rearrangement, and O-glycosylation of 1-*O*-acetyl sugars as glycosyl donors  
Rashmi Roy, Parasuraman Rajasekaran, Asadulla Mallick and Yashwant D. Vankar  
*Eur. J. Org. Chem.* **2014**, 5564-5573.
151. A Concise Synthesis of (2*R*,3*R*)-, (2*R*,3*S*)-3-Hydroxypipicolinic Acids and Total Synthesis of (–)-Deoxoprosopinine and (+)-2-*epi*-Deoxoprosopinine from D-Glycals  
Asadulla Mallick, Nitee Kumari, Rashmi Roy, Ashokkumar Palanivel and Yashwant D. Vankar  
*Eur. J. Org. Chem.* **2014**, 5557-5563.
150. n-Tetrabutylammonium nitrate Suresh Dharuman and Yashwant D. Vankar  
*eEORS* **2014** (In Press) (A book chapter in “**Encyclopedia in Organic Synthesis**”)
149. An easy route to synthetic Analogues of Radicamine B, Codonopsine and Codonopsinine from D-Mannitol  
Suresh Dharuman, Ashok Kumar Palanivel and Yashwant D. Vankar  
*Org. Biomol. Chem.* **2014**, 12, 4983-4998.
148. Synthesis and glycosidase inhibition study of 2-*C*-hydroxymethyl and 6-*C*-hydroxymethyl branched piperidines from D-glucose using ene-yne metathesis as a Key Step  
Asadulla Mallick, and Yashwant D. Vankar  
*Eur. J. Org. Chem.* **2014**, 4155-4161.

147. N-Halosuccinimide/AgNO<sub>3</sub>:Efficient reagent systems for one step synthesis of 2-halo glycols from glycols: Application in the synthesis of 2C-branched sugars via Heck coupling reactions  
Suresh Dharuman and Yashwant D. Vankar *Organic Letters* **2014**, *16*, 1172-1175.
146. Bicyclic hybrid sugars as glycosidase inhibitors: Synthesis and comparative study of inhibitory activities of fused oxa-oxa, oxa-aza and oxa-carbasugar hybrid molecules  
Alafia A. Ansari, Parasuraman Rajasekaran, M. Musawwer Khan, and Yashwant D. Vankar *J. Org. Chem* **2014**, *79*, 1690-1699.
145. Synthesis of pyrrolidine iminosugars, (-)-lentiginosine, (-)-swainsonine and their 8a-epimers from D-Glycols  
Alafia A. Ansaria and Yashwant D. Vankar  
*RSC Advances* **2014**, *4*, 12555 – 12567.
144. Ceric ammonium nitrate mediated efficient carbon-Ferrier rearrangement on glycols: Application in the synthesis of 2-deoxy-2-amino-C-glycoside.  
Alafia A. Ansari, Y. Suman Reddy and Yashwant D. Vankar  
*Beilstein J. Org. Chem* **2014**, *10*, 300-306.
143. Synthesis and Comparative Study of Homoisofagomines and Analogues as Glycosidase Inhibitors  
R. K. Basak and Yashwant D. Vankar *Eur. J. Org. Chem.* **2014**, 844–859.
142. Synthesis of Unnatural Indolizidines, Pyrrolizidine and C-alkyl Iminosugars from Sugar Derived Hemiaminals  
Rima Lahiri, Y. Suman Reddy, Sudhir A. Kulkarni and Yashwant D. Vankar  
*RSC Advances* **2013**, *3*, 23242 – 23254.
141. Synthesis of isofagomine and a few new azasugars as glycosidase inhibitors from D-mannitol derived nitroolefins  
Rashmi Roy, Pavan K. Kancharla, Y. Suman Reddy, Anita Brar, Y. D. Vankar  
*Tetrahedron:Asymm* **2013**, *24*, 1502-1513.
140. Synthesis of Dihydroxymethyl Dihydroxypyrrolidines and Steviamine Analogues from C-2 Formyl Glycols  
Alafia A. Ansari and Yashwant D. Vankar  
*J. Org. Chem.* **2013**, *78*, 9383-9395.
139. Synthesis of L-3-epi-isofagomine, its homo-, n-butyl and bicyclic analogues from D-glucose as glycosidase inhibitors  
Asadulla Mallick, A. P. John Pal, Yashwant D. Vankar  
*Tetrahedron Letters* **2013**, *54*, 6549–6552.
138. Synthesis of 2-Nitroglycols from Glycols using “Tetrabutylammonium Nitrate–Trifluoroacetic anhydride–Triethylamine” Reagent System, and Base-Catalyzed Ferrier Rearrangement of Acetylated 2-Nitroglycols  
Suresh Dharuman, Preeti Gupta, Pavan K. Kancharla and Yashwant D. Vankar  
*J. Org. Chem.* **2013**, *78*, 8442-8450.
137. Recent developments in design and synthesis of bicyclic azasugars, carbasugars and related molecules as glycosidase inhibitors  
Rima Lahiri, Alafia A. Ansari and Yashwant D. Vankar  
*Chem. Soc. Revs.* **2013**, *42*, 5102-5118.

136. The carbon-Ferrier rearrangement: an approach towards the synthesis of C-glycosides  
Alafia Ali Ansari, Rima Lahiri and Yashwant D. Vankar  
*ARKIVOC* **2013**, 316-362.
135. Functionalization of Glycals Leading to 2-Deoxy-O-glycosides, Aminosugars,  
Nitrosugars and Glycosidase Inhibitors: Our Experience  
Rima Lahiri, Suresh Dharuman, Yashwant D. Vankar  
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134. Palladium catalyzed improved regio and stereoselective O-glycosylation of D-glucal  
derived  $\alpha$ - and  $\beta$ -vinyl oxiranes  
Y. Suman Reddy, Rima Lahiri, Yashwant D. Vankar  
*Eur. J. Org. Chem.* **2012**, 4751-4761.
133. Synthesis of furan derivatives of cyclic  $\beta$ -amino acid cispentacins via intramolecular  
nitrile oxide cycloaddition  
Ranjan K. Basak, Suresh Dharuman, Yashwant D. Vankar  
*Tetrahedron Lett.* **2012**, *41*, 4283-4287.
132. HClO<sub>4</sub>-SiO<sub>2</sub> mediated improved isomerisation of glycidic esters to  $\alpha$ -hydroxy- $\beta,\gamma$ -  
unsaturated esters: Application in the formal synthesis of (R)-Baclofen and  $\beta$ -phenyl  
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Ranjan K. Basak, Suresh Dharuman, Y. Suman Reddy, Yashwant D. Vankar  
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Y. Suman Reddy, Pavan K Kancharla, Rashmi Roy and Yashwant D. Vankar  
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130. Total synthesis of (+)-pericosine B and (+)-pericosine C and their enantiomers by using  
the Baylis-Hillman reaction and ring-closing metathesis as key steps.  
Y. Suman Reddy, P. Kadigachalam, Ranjan K. Basak, A.P. John Pal, Yashwant D.  
Vankar *Tetrahedron Letters* **2012**, *53*, 132-136.
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Synthesis of Structurally Diverse Sugar-Derived Morpholine 1,2,3-Triazoles and 1,4-  
Oxazin-2-ones. Y. Suman Reddy, A. P. John Pal, Preeti Gupta, Alafia A. Ansari,  
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Pavan K. Kancharla, Y. Suman Reddy, Suresh Dharuman, Yashwant D. Vankar  
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Rima Lahiri, Hari Prasad Kokatla, Yashwant D. Vankar  
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A. P. John Pal, P. Kadigachalam, Asadulla Mallick, D. V. Ramana, and Yashwant D. Vankar  
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Preeti Gupta, Suresh Dharuman, Yashwant D. Vankar *Tetrahedron:Asymm.* **2010**, *21*, 2966-2972.
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122. Synthesis of Fused Oxa-Aza Spiro Sugars from D-Glucose Derived  $\delta$ -Lactone as Glycosidase Inhibitors  
A. P. John Pal, Preeti Gupta, Y. Suman Reddy and Yashwant D. Vankar  
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Hari Prasad Kokatla, Rima Lahiri, Pavan K. Kancharla, Venkata Ramana Doddi and Yashwant D. Vankar *J. Org. Chem.* **2010**, *75*, 4608-4611.
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117. A concise route to (-)-Shikimic Acid and (-)-5-*epi*-Shikimic Acid, and their Enantiomers via Barbier Reaction and Ring-Closing Metathesis  
Pavan K. Kancharla, Venkata Ramana Doddi, Hariprasad Kokatla and Yashwant D. Vankar *Tetrahedron Lett.* **2009**, *50*, 6951-6954.
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Preeti Gupta and Y. D. Vankar *Eur. J. Org. Chem.* **2009**, 1925-1933.
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Nitee Kumari, B. Gopal Reddy and Y.D. Vankar  
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D.V. Ramana, K. Hari Prasad, A. P. John Pal, Ranjan K. Basak and Y. D. Vankar  
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Preeti Gupta, Nitee Kumari, Aditi Agarwal and Y. D. Vankar  
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