Indrajeet Sharma, PhD

Postdoctoral Fellow

Email

isharma@ou.edu

URL

Connect with me on LinkedIn

Start Year

2011

End Year

2014

Associate Professor (with tenure), 2020–present
Assistant Professor, 2014–2020

Assistant Professor, 2014–2020
Department of Chemistry & Biochemistry,
University of Oklahoma

Lucille Castori Postdoctoral Fellow, 2012–2014

PhD, Wayne State University, 2011

MSc, IIT–Kharagpur, 2006

BSc, University of Delhi, 2004

Publications

Mechanism of MenE inhibition by acyl-adenylate analogues and discovery of novel antibacterial agents.
Matarlo, J. S.; Evans, C. E.; Sharma, I.; Lavaud, L. J.; Ngo, S. C.; Shek, R.; Rajashankar, K. R.; French, J. B.; Tan, D. S.*; Tonge, P. J.* *Biochemistry* 2015, *54*, 6514–6524.
[Abstract | PubMed | PMC]

Solvent-dependent divergent functions of Sc(OTf)3 in stereoselective epoxide-opening spiroketalizations.
Sharma, I.; Wurst, J. M.; Tan, D. S.* *Org. Lett.* 2014, *16*, 2474–2477.
[Abstract | PubMed | PMC]

Diversifying complexity.
Sharma, I.; Tan, D. S.* *Nat. Chem.* 2013, *5*, 157–158.
[Abstract | PubMed]

Stable analogues of OSB-AMP: Potent inhibitors of MenE, the *o*-succinylbenzoate-CoA synthetase from bacterial menaquninone biosynthesis.
Lu, X.; Zhou, R.; Sharma, I.; Li, X.; Kumar, G.; Swaminathan, S.; Tonge, P. J.*; Tan, D. S.* *ChemBioChem* 2012, *13*, 129–136.
[Abstract | PubMed | PMC]

Influence of protecting groups on the anomeric equilibrium; case of the 4,6- *O*-benzylidene acetal in the mannopyranose series.
Sharma, I.; Bohé, L.; Crich, D.* *Carbohyd. Res.* 2012, *357*, 126–131.
[Abstract | PubMed | PMC]

Direct Fmoc-chemistry-based solid-phase synthesis of peptidyl thioesters.
Sharma, I.; Crich, D.* *J. Org. Chem.* 2011, *76*, 6518–6524.
[Abstract | PubMed | PMC]

Influence of protecting groups on the reactivity and selectivity of glycosylation: chemistry of the 4,6- *O*-benzylidene protected mannopyranosyl donors and related species.
Aubry, S.; Sasaki, K.; Sharma, I.; Crich, D.* *Topics Curr. Chem.* 2011, *301*, 141–188.
[Abstract | PubMed]

Influence of the O3 protecting group on stereoselectivity in the preparation of *C*-mannopyranosides with 4,6-*O*-benzylidene protected donors.
Crich, D.*; Sharma, I. *J. Org. Chem.* 2010, *75*, 8383–8391.
[Abstract | PubMed | PMC]

Triblock peptide and peptide thioester synthesis with reactivity-differentiated sulfonamides and peptidyl thioacids.
Crich, D.*; Sharma, I. *Angew. Chem. Intl. Ed.* 2009, *48*, 7591–7594.
[Abstract | PubMed | PMC]

Epimerization-free block synthesis of peptides from thioacids and amines with the Sanger and Mukaiyama reagents.
Crich, D.*; Sharma, I. *Angew. Chem. Intl. Ed.* 2009, *48*, 2355–2358.
[Abstract | PubMed]

Is donor-acceptor hydrogen bonding necessary for 4,6-*O*-benzylidene-directed β-mannopyranosylation? Stereoselective synthesis of β-*C*-mannopyranosides and α-*C*-glucopyranosides.
Crich, D.*; Sharma, I. *Org. Lett.* 2008, *10*, 4731–4734.
[Abstract | PubMed | PMC]

Direct access to 1,4-dihydroxyanthraquinones: The Hauser annulation reexamined with *p*-quinones.
Mal, D.*; Ray, S.; Sharma, I. *J. Org. Chem.* 2007, *72*, 4981–4984.
[Abstract | PubMed]