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Indrajeet Sharma, PhD

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Start Year

2011

End Year

2014

Associate Professor (with tenure), 2020–present

Assistant Professor, 2014–2020

Indrajeet Sharma

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 menaquinone 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.* *Carbohydr. 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.

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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

mammopyranosides and α -D-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.

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