

List of publication: Sivapriya Kirubakaran

1. Biochemical, Cellular and in vivo characterization of Torin2, an ATP-competitive mTOR, ATM and ATR inhibitor: Qingsong Liu*, Chunxiao Xu*, **Sivapriya Kirubakaran**, Xin Zhang, Wooyoung Hur, Yan Liu, Nicholas P. Kwaitkowski, Jinhua Wang, Kenneth Westover, Peng Gao, Dalian Erica Carson C. Thoreen, Seong A. Kang, Matthew P. Patricelli, Pasi A. Janne, Kwok Wong, David M. Sabatini, Nathanael S. Gray, **Cancer Res.** **2013**, 73(8):2574-2586 (* Equal first authors) **(Impact Factor: 8.7)**
2. Structure-activity relationship study of selective benzimidazole-based inhibitors of *Cryptosporidium parvum* IMPDH: **Sivapriya Kirubakaran**, Suresh Kumar Gorla, Lisa Sharling, Minjia Zhang, Xiaoping Liu, Soumya S. Ray, Iain S. MacPherson, Boris Striepen, Lizbeth Hedstrom and Gregory D. Cuny, **Bioorg. Med. Chem. Lett.**, 22 (5), **2012**, 1985–1988 **(Impact Factor: 2.5)**
3. Kinome-wide selectivity profiling of ATP-competitive mTOR (mammalian target of rapamycin) inhibitors and characterization of their binding kinetics: Liu Q , **Kirubakaran S**, Hur W, Niepel M, Westover K, Thoreen CC, Wang J, Ni J, Patricelli MP, Vogel K, Riddle S, Waller DL, Traynor R, Sanda T, Zhao Z, Kang SA, Zhao J, Look AT, Sorger PK, Sabatini DM, Gray NS, **J Biol Chem.** **2012**, 287(13), 9742-52 **(Impact Factor: 4.8)**
4. **Macpherson I, Kirubakaran S**, et al: “The Structural Basis of Cryptosporidium-Specific IMP Dehydrogenase Inhibitor Selectivity, **J. Am. Chem. Soc.**, **2010**, 132 (4), 1230–1231). **(Impact Factor: 10.7)**
5. Maurya SK, Gollapalli DR, **Kirubakaran S**, Zhang M, Johnson CR, Benjamin NN, Hedstrom, L., Cuny GD. “Triazole inhibitors of *Cryptosporidium parvum* inosine 5'-monophosphate dehydrogenase” **J. Med. Chem.** **2009**, 52, 4623-4630. **(Impact Factor: 5.6)**
6. **Kirubakaran S**, Suguna P, Chandrasekaran S. “Novel tetraselenides of mannose: synthesis and mechanistic studies” **Tetrahedron Lett.** **2007**, 48, 2091. **(Impact Factor: 2.4)**
7. **Kirubakaran S**, Suguna P, Shubasree S, Ramu Sridhar P, Chandrasekaran S. “Novel chalcogenides of thymidine and uridine: Synthesis, properties and applications” **Carbohydr. Res.** **2007**, 342, 1151. **(Impact Factor: 2.1)**

8. **Kirubakaran S**, Sridhar H, Suhas VL, Chandra N, Chandrasekaran S. "Conformationally locked thiosugars as potent α -mannosidase inhibitors" *Bioorg. Med. Chem.* **2007**, *15*, 5659. (Impact Factor: 3.5)
9. **Kirubakaran S**, Suguna P, Bannerji A, Rao DN, Chandrasekaran S. "Facile one pot synthesis of new thio and seleno urea derivatives: A new class of potent urease inhibitors" *Bioorg. Med. Chem. Lett.* **2007**, *17*, 6387. (Impact Factor: 2.5)
10. Mitra A, **Kirubakaran S**, Anilkumar. "Experimental implementation of a 3-qubit quantum game with corrupt source using nuclear magnetic resonance quantum information processor" *J. Mag. Res.* **2007**, *187*, 306. (Impact Factor: 2.4)
11. **Kirubakaran K**, Chandrasekaran S. "New conformationally locked thioderivatives of mannose: Synthesis, applications and mechanistic studies" *Carbohydr. Res.* **2006**, *341*, 2204. (Impact Factor: 2.1)
12. Chockalingam E, **Kirubakaran S**, Subramanian S, Chandrasekaran S. "Rice husk filtrate as a nutrient medium for the growth of desulfotomaculum nigrificans: Characterisation and sulfate reduction studies" *Bioresource Tech.* **2005**, *96*, 1880. (Impact Factor: 4.8)
13. **Kirubakaran S**, Chandrasekaran S. "Metathesis: A change-your-partners dance: Chemistry Nobel Prize-2005" *Resonance* **2006**. (Invited Article)

List of patents granted

1. Chandrasekaran S, **Kirubakaran S**. "Thiolevomannosan-a new and potent inhibitor of alpha –mannosidase" Indian Pat. Appl. IN-2005CH00616, 2008.
2. Compounds for treating mammalian gastrointestinal microbial infections, European Patent Application EP2408753, Lizbeth K Hedstrom, Gregory D Cuny, Deviprasad R Gollapalli, **Sivapriya Kirubakaran**, Boris Striepen, Suresh Kumar Gorla, Sushil K Maurya, Corey Robert Johnson, Mandapati Kavitha, Jihan Khan, Publication date: 25/1/2012
3. Compounds for treating mammalian gastrointestinal microbial infections, Lizbeth K Hedstrom, Gregory D Cuny, Deviprasad R Gollapalli, **Sivapriya Kirubakaran**, Boris Striepen, Suresh Kumar Gorla, Sushil K Maurya, Corey Robert Johnson, Mandapati Kavitha, Jihan Khan, PCT/US2010/ 13257418

4. **Kirubakaran S**, Sushil M, Golapalli D, Khan, J, Maddapatti, K, Johnson, C, Sharling L, Striepen B, Cuny G, Hedstrom L. "New drugs for cryptosporidiosis: Design, synthesis and studies against *Cryptosporidium parvum*-IMPDH" (Pub. No :WO/2010/108187, International Application No.: PCT/US2010/028178, Publication Date: 23.09.2010
5. Hedstrom L, Maurya S, Gollapalli D, Cuny G, Sharling L, Striepen B, **Kirubakaran S**. "Triazoles to treat cryptosporidiosis" Provisional Patent No. 61/162,013, 2009

Invited Book Chapter:

Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering." Chapter 1: Sivapriya Kirubakaran, Vijay Thiruvenkatam IGI Global, 2014. 1-626. doi:10.4018/978-1-4666-6363-3