

Curriculum Vitae

Subhas S. Karki, M Pharm., PhD

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Patents filed (05) and awarded (03) and other achievements

Patent No	Details
Indian Patent No. 316878 <u>awarded</u>	Compounds as Inhibitors of DNA Double Strand Break Repair, Methods & Applications Thereof
Indian Patent filed Application No. 201641014968 A	Novel Inhibitors of Antiapoptotic BCL-2 Protein
US Patent <u>Awarded</u> No. 9969696B2	Compounds as Inhibitors of DNA Double Strand Break Repair, Methods & Applications Thereof
UK patent filed. Patent No. G82523674 (Granted on March 11, 2020)	Compounds as Inhibitors of DNA Double Strand Break Repair, Methods & Applications Thereof
Provisional US patent Application No. 63/254,899, filed October 12, 2021	"PYRAZOLE DERIVATIVES WITH ANTICANCER ACTIVITY."
Best Scientist	KLE University, Belagavi, 2015
Best Teacher	KLE University, Belagavi, 2014
Certificate of Merit Award	KLE Society, Founders Day, November 13, 2013
STARS Award	American Association of Government College of Pharmacy (Bengaluru) Alumni-AAGCPA December 2013
Boyscast Fellowship-NewDelhi	2006-07 Dept. of Science & Technology, New Delhi
Rank Certificate-1996	1 st Rank, Karnatak University-Dharwad

Projects guided:

Ph D	M Pharm
8 awarded and 4 are pursuing	22

Grants completed/ Ongoing: Total Grant generated about 46,50,000/-

Presentation of Papers at Conferences / Seminars:

1. Presented oral paper on "Microwave assisted synthesis of 7-fluoro-8-substituted-benzo-[4,5]-thiazolo-[2,3-c]-1,2,4-triazole" at IUPAC sponsored 2nd International Symposium on Green/Sustainable Chemistry, New Delhi, 10-13, January 2006.
2. Presented oral paper on "Synthesis, Characterization and In-vitro Anti-cancer Activity of 1-benzyl-3-substituted-1,3-dihydro-2-indolinones" at 2nd International Conference on Heterocyclic Chemistry, University of Rajasthan, Jaipur, India, December 16-19, 2006.
3. Poster presented on "Synthesis of stilbene-based resveratrol analogs as antimitotic agents" Subhas S. Karki, Elizabeth Thomas, Sathees C. Raghavan, Suresh Singh Rajput, Sujeet Kumar, Nishith Teraiya, *Resveratrol2012 2nd International conference*, University of Leicester, Leicester, UK, Dec 5-7, 2012.

PUBLISHED PAPERS/ACCEPTED -85 numbers

National:18; International: 67 ; Communicated: 01

Scopus H index-19; Google Scholar H Index-22; Citations as on 02-04-2021- 1931

Some of the important publication in relation to proposed collaborative research work

- Identification of a Novel Inhibitor of Nonhomologous DNA End Joining: Implications in DNADouble-strand Break Repair, Apoptosis and Cancer” Mrinal Srivastava, MridulaNambiar, SheetalSharma, Subhas S. Karki, Sathees C. Raghavan et al. *Cell* 151, 1474-1487, 2012. (IF: 32.403) Q1
- Novel Levamisole derivative induces extrinsic pathway of apoptosis in cancer cells and inhibits tumor progression in mice” Mahesh Hegde,Subhas S. Karki,Elizabeth Thomas, Sujeet Kumar, KuppusamyPanjamurthy, Ranganatha S. R, Kanchugarakoppal S. Rangappa, BibhaChoudhary,Sathees C. Raghavan. *PLoS ONE* 7 (9), 43632, 2012. (IF: 4.07)
- 2-(4-Chlorobenzyl)-6-arylimidazo[2,1-b][1,3,4]thiadiazoles:synthesis, cytotoxic activity and study of mechanism of action”Sujeet Kumar, Mahesh Hegde,Dominique Schols, Sathees C. Raghavanand Subhas S. Karki. *Eur J Med Chem* 84, 2014, 687-697. (IF: 3.432)
- Synthesis and Antiproliferative Activity of Imidazo[2,1-b][1,3,4]thiadiazole Derivatives. Sujeet Kumar, Sathees C. Raghavan,Subhas S. Karki. *Bioorg & Med. Chem. Lett.*, 24, 2014, 4682-4688. (IF: 2.447)
- Structural and functional charaectrisation of pluronic copolymer micelleencapsulated SCR7 as a potential anticancer agent. Franklin John, Jinu George, Mrinal Srivastava, PA Hassan, VK. Aswal, Subhas S. Karki, Sathees C. Raghavan. *Macromolecular Bioscience* 2015, 15, 521–534. (IF: 3.74)
- Pluronic copolymer encapsulated SCR7 as a potential anticancer agent.Franklin John, Jinu George, Mrinal Srivastava, PA Hassan, VK. Aswal, Subhas S. Karki, Sathees C. Raghavan. *Faraday Discussions* 2015, 177, 155-161. (IF: 4.194)
- Synthesis and evaluation of the biological activity of N’-[2-oxo-1,2 dihydro-3H-indol-3-ylidene]benzohydrazides as potential anticancer agents. ArpitKatiyar, Mahesh Hegde, Sujeet Kumar, Sathees C. Raghavan and Subhas S. Karki. *RSC Adv.*, 2015, 5, 45492–45501. (IF: 3.71)
- 3,5-Bis(3-alkylaminomethyl-4-hydroxybenzylidene)-4-piperidones: A Novel Class of Potent Tumor-selective Cytotoxins.Subhas S Karki, Umashankar Das, Jonathan R Dimmock et al. *Journal of MedicinalChemistry* 2016, 59(2):763-9. (IF: 5.7) Q1
- Identification of a Novel BCL2 Specific Inhibitor that Binds Predominantly to its BH1 Domain. DivyaankaIyer, Supriya V. Vartak, Subhas S. Karki, Sathees C. Raghavan et al. *FEBS J* 283, 3408-3437, 2016. (IF: 4.237) Q1
- A Novel Resveratrol Based Tubulin Inhibitor Induces Mitotic Arrest and Activates Apoptosis in Cancer Cells. Elizabeth Thomas, Mahesh Hegde, Sujeet Kumar, Subhas S. Karki, SatheesRaghavan, and BibhaChoudhary. *Sci Rep.* 2016 Oct 17;6:34653. (IF: 5.228)Q1
- A Novel Inhibitor of BCL2, Disarib Abrogates Tumor Growth while Sparing Platelets, by Activating Intrinsic Pathway of Apoptosis. Supriya V. Vartak, Subhas S. Karki,BibhaChoudhary, Pritha Ray, Sathees C. Raghavan et al. *Biochem. Pharmacol.* 2016;122:10-22. (IF: 5.091) Q1
- Identification and Characterization of Novel Ligase I Inhibitors. Monica Pandey, Sujeet Kumar, Goldsmith GQ, Mrinal Srivastava, DibyenduBannerjee, BibhaChoudhary, Subhas S. Karki,Sathees C. Raghavan et al. *Molecular Carcinogenesis* 2017; 56(2):550-566. (IF: 4.8). Q2
- Novel BCL2 inhibitor, Disarib induces apoptosis by disruption of BCL2-BAK interaction Supriya V. Vartak, DivyaankaIyer, Subhas S. Karki, Sathees C. Raghavan et al. *Biochem. Pharmacol.*, 2017;131:16-28. (IF: 5.091) Q1
- 3,5-Bis(3-dimethylaminomethyl-4-hydroxybenzylidene)-4-piperidone and related compounds induce glutathione oxidation and mitochondria-mediated cell death in HCT-116 colon cancer cells.Addala E, Rafiei H, Das S, Bandy B, Das U, Karki SS, Dimmock JR. *Bioorg Med Chem Lett.* 2017;27(16):3669-3673.

- Autocyclized and oxidized forms of SCR7 induce cancer cell death by inhibiting nonhomologous DNA end joining in a Ligase IV dependent manner. Vartak SV, Swarup HA, Karki SS, Mantelingu K, Raghavan SC et al. *FEBS J.* 2018 ; 285(21):3959-3976. (IF: 4.237) Q1
- Effects of green synthesised silver nanoparticles (ST06-AgNPs) using curcumin derivative (ST06) on human cervical cancer cells (HeLa) in vitro and EAC tumor bearing mice models. Murugesan K, Koroth J, Srinivasan PP, Singh A, Mukundan S, Karki SS, Choudhary B, Gupta CM. *Int J Nanomedicine.* 2019;14:5257-5270. (IF: 4.471) Q1
- Investigation of anti-cancer and migrastatic properties of novel curcumin derivatives on breast and ovarian cancer cell lines. Jinsha Koroth, Snehal Nirgude, Shweta Tiwari, Vidya Gopalakrishnan; Raghunandan Mahadeva; Sujeet Kumar; Subhas S Karki; Bibha Choudhary, *BMC Complementary and Alternative Medicine.* 2019;19(1):273.
- ST09, a novel curcumin derivative, blocks cell migration by inhibiting Matrix metalloproteases in Breast Cancer Cells and Inhibits Tumor Progression in EAC Mice Tumor Models. Snehal Nirgude, Raghunandan Mahadeva, Jinsha Koroth, Vidya Gopalakrishnan, Sharath Kumar K S, Sujeet Kumar, Subhas S Karki, Bibha Choudhary. *Molecules* 25, 19, 4499. (IF: 4.148) Q1
- Synthesis, in silico ADME, molecular docking and in vitro cytotoxicity evaluation of stilbene linked 1,2,3-triazoles. Arnika Das1, Sujeet Kumar, Leentje Persoons, Dirk Daelemans, Dominique Schols, Hakan Alici, Hakan Tahtaci, Subhas S Karki. *Heliyon* 2021, 7, e05893
- Synthesis, molecular docking and preliminary antileukemic activity of 4-methoxybenzyl derivatives bearing an imidazo[2,1-b][1,3,4]thiadiazoles, Chudamani B, Karla G. Cano Hernandez, Sujeet Kumar, Renato J. Aguilera, Dominique Schols, C Gopi Mohan, Subhas S. Karki. *Chemistry & Biodiversity* 2021, 18(2), e2000800. (IF: 2.408) Q2
- Synthesis, molecular docking and preliminary cytotoxicity study of some novel 2-(naphthalen-1-yl)-methylimidazo[2,1-b][1,3,4]thiadiazoles, Choodamani B, Sujeet Kumar, Alok Kumar Gupta, Dominique Schols, Hakan Tahtaci, Tuncay Karakurt, Satvik Kotha, Swapna B, Ramachandra Setty, Subhas S. Karki, *Journal of Molecular Structure* 1234, 130174, 2021. (IF: 3.196) Q2
- Curcumin derivative 1, 2-bis [(3E, 5E)-3, 5-bis [(2-chlorophenyl) methylene]-4-oxo-1-piperidyl] ethane-1, 2-dione (ST03) induces mitochondria mediated apoptosis in ovarian cancer cells and inhibits tumor progression in EAC mouse model. *Translational Oncology* 15(1), 101280 (IF: 4.243) Q2
- Synthesis, Anticancer Evaluation, and Molecular Docking of Hexahydroquinoline Derivatives as Mcl-1 Inhibitors and Apoptosis Inducers, Nishith Teraiya, Subhas S Karki, Ashlesha Chauhan, *Anti-Cancer Agents in Medicinal Chemistry In Press* (IF: 2.505) Q3
- Three novel piperidones exhibit potent pro-apoptotic effects and tumor-selective cytotoxicity on leukemia cells via protein degradation and stress-mediated mechanisms, Lisett Contreras, Stephanie Medina, Austre Y Schiaffino Bustamante, Edgar A Borrego, Umashankar Das, Subhas S. Karki, Jonathan R Dimmock, and Renato J Aguilera, *Pharmacological Reports* (IF: 3.024) Q2 (In Press)