

Education

Degree	Institution	Date
Doctor of Philosophy	Andhra University, Visakhapatnam, India Marine Natural Products	1995
Master of Science (Chemistry)	Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, India	1990
Bachelor of Science (Chemistry)	Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, India	1988

Positions/Employment

Math, Science and Technology Department University of Minnesota, Crookston, MN <i>Associate Professor with tenure</i> <i>Assistant Professor</i>	2014 - to date 2008-2014
Department of Chemistry Austin College, Sherman, TX <i>Visiting Assistant Professor</i>	2006-2008
Department of Chemistry and Biochemistry Arizona State University, Tempe, AZ <i>Faculty Research Associate</i> <i>Postdoctoral Research Assistant</i>	2003-2006 2002-2003
Department of Chemistry and Biochemistry University of Oklahoma, Norman, OK <i>Postdoctoral Research Associate</i>	2000-2001
Department of Organic Chemistry, University of Gottingen, Gottingen, Germany <i>Alexander von Humboldt Research Fellow</i>	1999-2000
Vittal Mallya Scientific Research Foundation, Bangalore, India <i>Research Associate</i>	1995-1998

Fellowships and Awards

Alexander von Humboldt Research Fellowship, Bonn, Germany (1999 – 2000)	
Research Fellowship, Council of Scientific and Industrial Research, New Delhi, India (1991 – 1995)	
Gold medal (1 st rank in Master of Science, Sri Sathya Sai Institute of Higher Learning, 1990)	

Funding

External sources

2010 Altru foundation

Title: *Combating bacterial resistance – discovering new pharmacophores from plants.*

Total costs: \$25,000

2013-2018 Anonymous donor

Title: *Study abroad scholarships*

Total costs: \$50,000

Campus Wide Sources

2016-2017 Faculty research grant, Vice-Chancellor of Academic Affairs, University of Minnesota Crookston (UMC)

Title: *Diversity in natural products - A potential source for drug discovery and development: Chemical examination of a Cameroonian spice Alchornea cordifolia*

Total costs: \$10,000

2014-2015 Faculty research grant, Vice-Chancellor of Academic Affairs, UMC

Title: *To augment grant-in-aid funds and for investigating a series of biologically active Streptomyces strains*

Total costs: \$10,000

2014 Matching grant, Vice-Chancellor of Academic Affairs, UMC

Title: *Funds to augment HPLC funding from Ggrant-in-Aid*

Total costs: \$4,250

2014 Matching grant, Math, Science and Technology department, UMC

Title: *Funds to augment HPLC funding from GIA*

Total costs: \$5,500

2012 Technology Innovation Program grant, UMC

Title: *Development of alternative study materials for organic chemistry – I (CHEM 2301)*

Total costs: \$3,500

2011-2012 Equipment grant, Vice-Chancellor of Academic Affairs, UMC

Title: *To augment and enhance the drug discovery program at the U of M Crookston*

Total costs: \$20,000

2009-2010 Research Initiation Grant, Vice-Chancellor of Academic Affairs, UMC

Title: *Natural products based drug discovery*

Total costs: \$10,000

2008-2009 Research Initiation Grant, Math, Science and Technology department, UMC

Title: Natural products based drug discovery

Total costs: \$2,000

University Wide Sources

2015-2016 Travel Grant, GPS Alliance, University of Minnesota Twin Cities

Title: *Site visit to Tribhuvan University, Nepal for discussions regarding setting up Memorandum of Understanding for importing plants extracts for research purpose*

Total costs: \$1,500

2014-2015 Grant-in-Aid, Graduate School, University of Minnesota Twin Cities

Title: Purchase of a HPLC system

Total costs: \$23,504

2013-2014 Grant-in-Aid, Graduate School, University of Minnesota Twin Cities

Title: *Bio-prospecting for metabolites that inhibit the sugar beet pathogen *Aphanomyces cochlioides**

Total costs: \$21,748

2012-2013 Travel Grant, GPS Alliance, University of Minnesota Twin Cities

Title: *Site visit to Bangalore and nearby cities in India in preparation for a global seminar course and for recruitment of Indian students*

Total costs: \$5,000

2010-2011 Infrastructure improvement funds, University of Minnesota

Title: *Renovation and redesign of existing laboratories in Hill Hall II floor into organic chemistry and soil laboratories*

Total costs: \$750,000

2010-2011 Grant-in-Aid, Graduate School, University of Minnesota Twin Cities

Title: *Caenorhabditis elegans as a tool for screening antibacterial compounds from plants.*

Total costs: \$25,846

Refereed Publications (undergraduate authors are underlined)

1. George R. Pettit, Qinghua Ye, Delbert L. Herald, John Knight, Fiona Hogan, Noeleen, Melody, **Venugopal J. Mukku**, Dennis Doubek and Jean-Charles Chapuis. Isolation and structure of cancer cell growth inhibitory tetracyclic triterpenes from the Zimbabwean *Monadenium lugardae*. *Journal of Natural Products*, **2016**, 79, 1598-1603.
2. **Venugopal J. Mukku**, Shawn Friedland, Nicole E. Sorlie, Heather S. Donati-Lewis, Brian J. Dingmann. Antimicrobial activity of selected Native American seeds. *Journal of Medicinal Plants Research*, **2013**, 7, 2928-2932.
3. George R. Pettit, John C. Knight, Delbert L. Herald, Robin K. Pettit, Fiona Hogan, **Venugopal J. Mukku**, John S. Hamblin, Michael J. Dodson, and Jean-Charles Chapuis. Antineoplastic Agents. 570. Isolation and structure elucidation of Bacillistatins 1 and 2 from a marine *Bacillus silvestris*. *Journal of Natural Products*, **2009**, 72, 366-371.

4. George R. Pettit, **Venugopal J. Mukku**, Gordon Cragg, Delbert L. Herald, John C. Knight, Cherry L. Herald and Jean-Charles Chapuis. Antineoplastic Agents. 558. *Ampelocissus* sp. Cancer Cell Growth Inhibitory Constituents. *Journal of Natural Products*, **2008**, *71*, 130-133.
5. George R. Pettit, Jiang Du, Robin K. Pettit, Linda A. Richert, Fiona Hogan, **Venugopal J. Mukku**, Michael S. Hoard. Antineoplastic Agents. 554. The Manitoba bacterium *Streptomyces* sp. *Journal of Natural Products*, **2006**, *69*, 804-806.
6. Anjaneyulu A.S.R., Rao V.L., Sastry, V.G., **Venugopal J. Mukku**, Schmitz, F.J. Juncins I-M, five new briarane diterpenoids from the Indian Ocean gorgonian *Junceella juncea* Pallas. *Journal of Natural Products*, **2003**, *66*, 507-510.
7. **Venugopal J. Mukku**, Edrada R.A., Schmitz F.J., Shanks M.K. New sesquiterpene quinols from a Micronesian sponge, *Aka* sp. *Journal of Natural Products*, **2003**, *66*, 111-113.
8. **Venugopal J. Mukku**, Maskey R.P., Monecke P, Gruen-Wollny I, Laatsch H. 5-(2-methylphenyl)-4-pentenoic acid from a terrestrial *Streptomyces*. *Zeitschrift fuer Naturforschung B: Chemical Sciences*, **2002**, *57*, 335-337.
9. **Venugopal J. Mukku**, Speitling M, Laatsch H, Helmke E. New butenolides from two marine *Streptomyces*. *Journal of Natural Products*, **2000**, *63*, 1570-1572.
10. Anjaneyulu, A.S.R., Murthy M.V.R.K., Gowri P.M., **Venugopal J. Mukku**. Laatsch, H. A rare prostaglandin from the soft coral *Sarcophyton crassocaule* of the Indian Ocean. *Journal of Natural Products*, **2000**, *63*, 1425-1426.
11. Anjaneyulu, A.S.R., **Venugopal J. Mukku**, Sarada P. On the novel cembranoids of the soft coral *Sinularia granosa* of the Indian Ocean and their biogenesis. *Indian Journal of Chemistry B*, **2000**, *39*, 530-535.
12. Anjaneyulu, A.S.R., Gowri, P.M., **Venugopal J. Mukku**, Sarada P., Murthy M.V.R.K., Murthy, P.S.N., Rao C.V., Kumar G. Novel diterpenoids from the Indian Ocean soft coral *Sarcophyton elegans*. *Journal of Indian Chemical Society*, **1999**, *76*, 651-659.
13. Anjaneyulu, A.S.R., **Venugopal J. Mukku**, Minale L., Iorizzi M., Palagiano, E. Chemical examination of a sea cucumber of *Holothuria* genus of the Indian Ocean. *Indian Journal of Chemistry B*, **1998**, *37*, 262-266.
14. Anjaneyulu, A.S.R., **Venugopal J. Mukku**, Sarada P, Clardy J and Lobkovsky, E. Havellockate, a novel seco and spiro lactone diterpenoid from the Indian Ocean soft coral *Sinularia granosa*. *Tetrahedron Letters*, **1998**, *39*, 139-142.
15. Anjaneyulu, A.S.R., **Venugopal J. Mukku**, Sarada P., Rao G.V., Clardy J., Lobkovsky E. Sarcophytin, a novel tetracyclic diterpenoid from the Indian Ocean soft coral *Sarcophyton elegans*. *Tetrahedron Letters*, **1998**, *39*, 135-138.

16. Anjaneyulu, A.S.R., Rao N.S.K., **Venugopal J. Mukku**. A novel furanosesquiterpenoid from the soft coral *Lobophytum catalai* Tixier-Durivault of the Andaman and Nicobar Islands. *Indian Journal of Chemistry B*, **1996**, *35*, 1001-1003.
17. Anjaneyulu, A.S.R., **Venugopal J. Mukku**, Rao N.S.K. A novel dimeric dipeptide from the Indian Ocean starfish *Pentaceraster regulus*. *Journal of Chemical Research (S)*, **1995**, *1*, 50-51.
18. Anjaneyulu, A.S.R., Sagar K.S., **Venugopal J. Mukku**. Terpenoid and steroid constituents of the Indian Ocean soft coral *Sinularia maxima*. *Tetrahedron*, **1995**, *40*, 10997-11010.
19. Anjaneyulu, A.S.R., **Venugopal J. Mukku**, Prakash C.V.S. Two new furanosesquiterpenoids and a phenolic dibromo compound from a marine sponge of *Axinella* genus of Andaman and Nicobar Islands. *Indian Journal of Chemistry B*, **1994**, *33*, 148-151.

Invited Presentations

1. **Venugopal J. Mukku**, "Diversity in Natural Products – A personal Journey", Central Department of Microbiology, Tribhuvan University, Kathmandu, Nepal, December 19, 2015.
2. **Venugopal J. Mukku**, "Natural Products in Drug Discovery", AstraZeneca Research and Development Center, Bangalore, India, January 2, 2013.
3. **Venugopal J. Mukku**, "Bio-prospecting for Anti-MRSA Leads", University of North Dakota, December 5, 2008.

Oral and poster presentations at Professional Meetings (undergraduate students are underlined)

1. Lydia Hegge, **Venugopal J. Mukku**, Psuedoguaianolides from *Helenium flexuosum* seeds. National Conference on Undergraduate Research, University of North Carolina Asheville, Asheville, NC, April 7-9, 2016.
2. You Bin Lee, Sierra Trost, Brian Dingmann and **Venugopal Mukku**. Using alamar blue cell viability assay to screen for putative antimicrobial products. National Conference on Undergraduate Research, University of North Carolina Asheville, Asheville, NC, April 7-9, 2016.
3. Michael Laurich, Emmett LaCoursiere, Bryce Tradewell, **Venugopal J. Mukku**, Timothy J. Dudley, E. Peterson, W. J. Boyko, Nicholas A. Piro, William S. Kassel, Jared J. Paul. Synthesis and characterization of neutral and ionic forms of ortho- and para-hydroxyphenyl benzimidazoles. 50th Midwest Regional Meeting of American Chemical Society, St. Joseph, MO, Oct 21-24, 2015. (poster)
4. Brian J. Dingmann, Rachel McCoppin, Soo-Yin Lim Thompson, **Venugopal J. Mukku**, 'Integrating Research into the Curriculum: Models and Strategies across disciplines at the University of Minnesota Crookston'. National Conference on Undergraduate Research (Faculty and Administrator Network Session), Eastern Washington University, Cheney, April 17, 2015. (oral)

5. Brooke Vathauer, Rochelle Herzog, Jason Brantner and **Venugopal J. Mukku**. HPLC fingerprinting of biologically active extracts from *Streptomyces*. National Conference on Undergraduate Research, Eastern Washington University, Cheney, WA, April 16-18, 2015. (oral)
6. Emmett LaCoursiere, Michael Laurich, **Venugopal J. Mukku**, Timothy J. Dudley, David D. Mall, W. J. Boyko, William G. Dougherty, William S. Kassel, Jared J. Paul. Theoretical and experimental investigations of *ortho* and *para*-hydroxyphenyl benzimidazoles. 49th Midwest Regional Meeting of American Chemical Society, Columbia, MO, Nov 12-15, 2014. (poster)
7. Gyuongyoun Baek, and **Venugopal J. Mukku**. Isolation and characterization of bioactive pseudoguaianolides from *Helenium flexuosum*. National Conference on Undergraduate Research, University of Kentucky, Lexington, KY, April 3-5, 2014.
8. Constantin Adalakoun, Danielle Wavra, Jake Heggem, Jason Brantner, **Venugopal J. Mukku**, *Streptomyces* 'beets' *Aphanomyces*. National Conference on Undergraduate Research, La Crosse, WI, April 11-13, 2013. (Oral)
9. **Venugopal J. Mukku**, "An Integrated Introduction to Sophomore Undergraduate Organic Laboratory: Isolation and Spectroscopic Characterization of the Flavone, Hispidulin, from *Artemisia frigida*", 245th ACS National Meeting, New Orleans, LA, April 7-11, 2013. (Oral)
10. **Venugopal J. Mukku**, "Overcoming Challenges in Teaching Organic Chemistry to Non-Majors", Southeastern Regional Meeting of the American Chemical Society, Raleigh, NC, November 14-17, 2012. (Oral)
11. Shawn Friedland, Brian J. Dingmann, **Venugopal J. Mukku**. Flavonoids from native Minnesotan plants. Undergraduate Research in Molecular Sciences, Moorhead, MN, October 28-29, 2011. (poster)
12. Shawn Friedland, Heather Donati-Lewis, Brian J. Dingmann, **Venugopal J. Mukku**. Antibacterial activity of selected Minnesota seeds. American Society of Pharmacognosy Annual Meeting, San Diego, CA, July 30-August 3, 2011. (poster)
13. Heather Donati-Lewis, Brian J. Dingmann, **Venugopal J. Mukku**. Common spices and uncommon properties. National Conference on Undergraduate Research, Missoula, MT, April 15-17, 2010. (Oral)

Service (2013-to date)

Adhoc reviewer (Tetrahedron Letters, Natural Product Research) Organizer (campus research presentations, 2013-to date), Campus Curriculum committee (Chair 2016-2017; member 2015-2016); Member (UMC Executive retreat, 2015 & 2016; Campus tenure committee, 2015-2017; Academic Quality improvement project, 2015-2017; Academic Standards and Policies committee, 2015-2017; Peer institution selection committee, 2015-2016; UMC diversity committee, 2014-to date; faculty

consultative committee, 2016-2017 & 2013-2014;) Treasurer (Western Minnesota regional science fair, 2016).