

**Name : Dr. G. Naresh Kumar**

**Designation : Visiting Professor-Biotechnology**

Phone: 9227104967

E-mail: gnaresh\_k@yahoo.co.in

School: Science



**Research Interest:**

Metabolic engineering of Bacteria

**Academic Background:**

Degree	Subject	University	Year
M. Sc. (Hons.) 5 year Integrated	Chemistry	Birla Institute of Technology & Science, Pilani	1980
Ph. D.	Molecular Biology	Tata Institute of Fundamental Research, Mumbai	1987

**Professional Experience:**

From	Period	Position	Organisation
November 1987 to October 1988	1 year	Post Doctoral Research	Department of Biochemistry and Developmental Biology, Rice University, Houston, Texas U. S. A
December 1989 to July 1990	8 months	Scientific Officer C	Molecular Biology & Agricultural Division, Bhabha Atomic Research Centre, Bombay.
August 1990 to June 1029	5½ yrs	Lecturer	Department of Biochemistry, Faculty of Science, M. S. University of Baroda, Vadodara
	8 years	Reader	
	15 years	Professor	

**Teaching Engagements:**

Title	Course Code	Class Name	School Name

## Publications:

<b>2020</b>	
61	Vaishnawi Gupta, <b>G. Naresh Kumar</b> and Aditi Buch (2020) Colonization by multi-potential <i>Pseudomonas aeruginosa</i> P4 stimulates peanut ( <i>Arachis hypogaea</i> L.) growth, defence physiology and root system functioning to benefit the root-rhizobacterial interface. Journal of Plant Physiology. <b>IF 2.825.</b>
60	Riddhi Vyas, Maharshi Pandya, Jayashree Pohnerkar and <b>G. Naresh Kumar</b> (2020) <i>Vitreoscilla</i> hemoglobin promotes biofilm expansion and mitigates sporulation in <i>Bacillus subtilis</i> DK1042. 3 Biotech 10:118. <b>IF 1.786.</b>
<b>2018</b>	
59	Gangavarapu SUBRAHMANYAM, Rakesh Kumar SHARMA, <b>Gattupalli Naresh KUMAR</b> and Gattupalli ARCHANA (2018) <i>Vigna radiata</i> var. GM4 plant growth enhancement and root colonization by a multi-metal-resistant plant growth-promoting bacterium <i>Enterobacter</i> sp. C1D in Cr(VI)-amended soils. <i>Pedosphere</i> <b>28</b> (1): 144–156. <b>IF 2.43</b>
59	Vinothkumar, K., Bhalara, S. R., Shah, A., Ramamurthy, T., Niyogi, S. K., <b>Kumar, G. N.</b> and Bharadwaj, A. K. (2018) Involvement of topoisomerase mutations, <i>qnr</i> and <i>aac(6')Ib-cr</i> genes in conferring quinolone resistance to the clinical isolates of <i>Vibrio</i> and <i>Shigella</i> spp. (1998 to 2009) from Kolkata, India. <i>J. Glob Antimicrob Resist</i> 13:85-90. doi: 10.1016/j.jgar.2017.10.013. <b>IF 2.022</b>
<b>2017</b>	
58	Ruma Raghuvanshi, Chaudhari Archana, <b>G. Nareshkumar</b> (2017) 2-Ketogluconic acid and pyrroloquinoline quinone secreting probiotic <i>Escherichia coli</i> Nissle 1917 as a dietary strategy against heavy metal induced damage in rats. <i>J. Functional Foods</i> <b>37</b> , 541-552. <b>IF 3.47 SNIP 1.255 SJR 1.178</b>
57	Chaudhari Archana Somabhai, Ruma Raghuvanshi, <b>G. Nareshkumar</b> (2017) Genetically engineered <i>Escherichia coli</i> Nissle 1917 synbiotic counters fructose induced metabolic syndrome and iron deficiency. <i>Applied Microbiology and Biotechnology</i> . <b>101</b> , 4713–4723. 10.1007/s00253-017-8207-7 <b>IF 3.376 SJR 1.18 June 2017</b>
<b>2016</b>	
56	Chaudhari Archana Somabhai, Ruma Raghuvanshi, <b>G. Nareshkumar</b> (2016) Genetically engineered <i>Escherichia coli</i> Nissle 1917 synbiotics reduce metabolic effects induced by chronic consumption of dietary fructose. <i>PLoS One</i> 11(10): e0164860. doi:10.1371/journal.pone.0164860. <b>IF 3.057</b>
55	Chanchal Kumar, Jitendra Wagh, G. Archana and <b>G. Naresh Kumar</b> (2016) Sucrose dependent mineral phosphate solubilization in <i>Enterobacter asburiae</i> PSI3 by heterologous overexpression of periplasmic invertases, <i>World Journal of Microbiology and Biotechnology</i> <b>32</b> , 194. DOI 10.1007/s11274-016-2153-x). <b>IF 1.532.</b>
54	Vikas Sharma, Ajit Kumar, G. Archana and <b>G. Naresh Kumar</b> (2016) <i>Ensifer meliloti</i> overexpressing <i>Escherichia coli</i> phytase gene ( <i>appA</i> ) improves phosphorus (P) acquisition in maize plants. <i>Sci Nat (Die Naturwissenschaften)</i> <b>103</b> :76. DOI 10.1007/s00114-016-1400-1. August. <b>IF</b>

	<b>1.773.</b>
53	Jitendra Wagh, Kumar Chanchal, Shah Sonal, Bhandari Praveena, G. Archana and <b>G. Naresh Kumar (2016)</b> Inoculation of genetically modified endophytic <i>Herbaspirillum seropedicae</i> Z67 endowed with gluconic and 2-ketogluconic acid secretion confers beneficial effects on rice ( <i>Oriza sativa</i> ) plants. <i>Plant Soil</i> <b>409</b> , 51-64. DOI 10.1007/s11104-016-2937-7. <b>IF 2.952. Publ. December 2016.</b>
52	Ruma Raghuvanshi, Archana Chaudhari, <b>G. Nareshkumar (2016)</b> Amelioration of Cadmium and Mercury induced Liver and Kidney damage in rats by genetically engineered probiotic <i>Escherichia coli</i> Nissle 1917 producing pyrroloquinoline quinone (PQQ) with oral supplementation of citric acid. <i>Nutrition</i> <b>32</b> , 1285–1294. <a href="http://dx.doi.org/10.1016/j.nut.2016.03.009">http://dx.doi.org/10.1016/j.nut.2016.03.009</a> . <b>IF 2.926</b> November-December.
51	Jain, R., Jha, S., Mahatma, M. K., Jha, A. and <b>Kumar, G. N. (2016)</b> Characterization of arsenite tolerant <i>Halomonas</i> sp. Alang-4, originated from heavy metal polluted shore of Gulf of Cambay. <i>J. Env. Sci. Health Part A</i> 51(6):478-486. DOI:10.1080/10934529.2015.1128717. February <b>IF 1.276 ISSN: 1093-4529</b>
50	Kittappa Vinothkumar, <b>G. Naresh Kumar</b> , Ashima Kushwaha Bhardwaj <b>(2016)</b> Characterization of <i>Vibrio fluvialis qnrVC5</i> gene in native and heterologous hosts: Synergy of <i>qnrVC5</i> with other determinants in conferring quinolone resistance. <i>Front. Microbiol.</i> 7:146. doi:10.3389/fmicb.2016.00146. February 16. <b>IF 3.989</b>
49	Ujwal Trivedi, Shubham Kaushik, Saravanan Matheshwaran, Valakunja Nagaraja, G. Archana and <b>G. Naresh Kumar (2016)</b> Expression and purification of functional <i>Anabaena</i> PCC 7120 XisA protein. <i>Protein Expression and Purification.</i> <b>118</b> , 64-69. <b>IF 1.695.</b>
	<b>2015</b>
48	Mahendrapal Singh Rajput, Bhagya Iyer, Maharshi Pandya, Rahul Jog, <b>Naresh Kumar G., Shalini Rajkumar (2015)</b> Derepression of mineral phosphate solubilization phenotype by insertional inactivation of <i>iclR</i> in <i>Klebsiella pneumoniae</i> . Plos One 10(9): e0138235. <b>IF 3.73.</b> September 2015
47	Purvi Zaveri, Nasreen Munshi, Alok Vaidya, Sanjay Jha and <b>G. Naresh Kumar (2015)</b> Functional microbial diversity dynamics in Common Effluent Treatment Plants of South Gujarat and Hydrocarbon degradation. <i>Canadian Journal Microbiology</i> 61, 389-397. DOI 10.1139/cjm-2014-0700 <b>IF 1.18. June 2015</b>
46	Ashish Kumar Singh, Sumeet Kumar Pandey, Gourav Saha and <b>Naresh Kumar G. (2015)</b> Pyrroloquinoline quinone producing <i>Escherichia coli</i> Nissle 1917 (EcN) alleviates age associated oxidative stress and hyperlipidemia, and improves mitochondrial function in aging rats. <i>Experimental Gerontology</i> 66, 1-9. <b>IF 3.529. June 2015</b>
45	Sumeet Pandey, Ashish Singh, Nirja Chaudhari, Laxmipriya P. Nampoothiri, <b>Naresh Kumar G. (2015)</b> Protection against 1,2-Di-methylhydrazine induced systemic oxidative stress and altered brain neurotransmitter status by probiotic <i>Escherichia coli</i> CFR 16 secreting pyrroloquinoline quinone. <i>Current Microbiology</i> <b>70</b> , 690-697. (DOI: 10.1007/s00284-014-0763-9) <b>IF 1.359. May 2015</b>
44	Tapan Kumar Adhya, <b>Naresh Kumar</b> , Gopal Reddy, Appa Rao Podile, Hameeda Bee, and Bindiya Samantaray <b>(2015)</b> Microbial mobilization of soil phosphorus and sustainable P management in

	agricultural soils. <i>Current Science</i> <b>108</b> , 1280-1287. <b>IF 0.833</b> . April 2015
	<b>2014</b>
43	Hemanta Adhikary, Paulomi B. Sanghavi, Silviya R. Macwan, Archana, G. and <b>Naresh Kumar G. (2014)</b> Artificial citrate operon confers mineral phosphate solubilization ability to diverse fluorescent pseudomonads. <i>PLoS ONE</i> 9(9): e107554. doi:10.1371/journal.pone.0107554 <b>IF 3.73</b> .
42	Kavita Yadav, Chanchal Kumar, G. Archana, <b>G. Naresh Kumar (2014)</b> Artificial citrate operon and <i>Vitreoscilla</i> hemoglobin gene enhanced mineral phosphate solubilizing ability of <i>Enterobacter hormaechei</i> DHRSS. <i>Applied Microbiology Biotechnology</i> <b>98</b> , 8327–8336 (DOI 10.1007/s00253-014-5912-3) <b>IF 3.689</b> .
41	Jitendra Wagh, Praveena Bhandari, Sonal Shah, G. Archana and <b>G. Naresh Kumar (2014)</b> Overexpression of citrate operon in <i>Herbaspirillum seropedicae</i> Z67 enhances organic acid secretion, mineral phosphate solubilization and growth promotion of <i>Oryza sativa</i> . <i>Plant Soil</i> <b>383</b> :73–86. DOI 10.1007/s11104-014-2161-2 <b>IF 3.235</b> .
40	Prasant Kumar, Ayush V. Ranawade and <b>Naresh G. Kumar (2014)</b> Potential probiotic <i>Escherichia coli</i> 16 harboring the <i>Vitreoscilla</i> hemoglobin gene improve gastrointestinal tract colonization and ameliorate carbon tetrachloride induced hepatotoxicity in rats. <i>BioMed Research International</i> Article ID 213574, 9 pages <a href="http://dx.doi.org/10.1155/2014/213574">http://dx.doi.org/10.1155/2014/213574</a> <b>IF 2.88</b> .
39	Ashish Singh, Sumeet Pandey and <b>Nareshkumar G. (2014)</b> Pyrroloquinoline quinone secreting probiotic <i>Escherichia coli</i> Nissle 1917 ameliorates ethanol induced oxidative damage and hyperlipidemia in rats. <i>Alcoholism</i> <b>38</b> , 2127-2137. DOI: 10.1111/acer.12456 <b>IF 3.421</b> .
38	Sumeet Pandey, Ashish Singh, Prasant Kumar, Archana Chaudhari, <b>Nareshkumar G. (2014)</b> Probiotic <i>Escherichia coli</i> CFR 16 producing pyrroloquinoline quinone (PQQ) ameliorates 1,2-Dimethylhydrazine induced oxidative damage in colon and liver of rats. <i>Applied Biochemistry Biotechnology</i> . <b>173</b> , 775-786. <b>IF 1.893</b> .
37	Kavita Yadav, Chanchal Kumar, G. Archana and <b>G. Naresh Kumar (2014)</b> <i>Pseudomonas fluorescens</i> ATCC 13525 containing an artificial oxalate operon and <i>Vitreoscilla</i> hemoglobin secretes oxalic acid and solubilizes rock phosphate in acidic alfisols. <i>Plos One</i> <b>9(4)</b> : e92400. doi:10.1371/journal.pone.0092400. <b>IF 3.73</b> .
36	Jitendra Wagh, Sonal Shah, Praveena Bhandari, G. Archana and <b>G. Naresh Kumar (2014)</b> Heterologous expression of pyrroloquinoline quinone ( <i>pqq</i> ) gene cluster confers mineral phosphate solubilization ability to <i>Herbaspirillum seropedicae</i> Z67. <i>Applied Microbiology Biotechnology</i> <b>98</b> , 5117-5129. DOI: 10.1007/s00253-014-5610-1. <b>IF 3.689</b> .
35	Prasant Kumar Jena, Shilpa Singh, Bhumika Prajapati, <b>G. Nareshkumar</b> , Tejal Mehta and Sriram Seshadri <b>(2014)</b> Impact of targeted specific antibiotic delivery for gut microbiota modulation on high-fructose-fed rats. <i>Appl Biochem Biotechnol</i> <b>172</b> : 3810–3826. DOI 10.1007/s12010-014-0772-y. <b>IF 1.893</b> .
34	Rahul Jog, Maharshi Pandya, <b>G. Nareshkumar</b> , and Shalini Rajkumar <b>(2014)</b> Mechanism of phosphate solubilization and antifungal activity of <i>Streptomyces</i> spp. isolated from wheat roots and rhizosphere and their application in improving plant growth. <i>Microbiology</i> . <b>160</b> , 778-788. <b>IF 2.252</b>

33	Raina Jain, Sanjay Jha, Hemanta Adhikary, Prasant Kumar, Vipul Parekh, Anamika Jha, Mahesh K Mahatma and <b>G Naresh Kumar (2014)</b> <a href="#">Isolation and molecular characterization of arsenite tolerant <i>Alishewanella</i> sp. GIDC-5 originated from industrial effluents</a> . <i>Geomicrobiol. J.</i> <b>31(1)</b> , 82-90. <b>IF 1.608</b> .
<b>2013</b>	
32	Prasant Kumar, Sriram Garg Gopalakrishnan and <b>Naresh Kumar, G. (2013)</b> <i>In vitro</i> comparison of the extracellular secretion of inulosucrase enzyme in potential probiotic <i>Escherichia coli</i> 16 and BL-21. <i>African J. Biotechnology</i> <b>12</b> , 6382-6388. <b>IF 0.57</b>
31	Pandya, Maharshi; Gattupalli, <b>Nareshkumar</b> and Rajkumar, Shalini <b>(2013)</b> Invasion of rhizobial infection thread by non rhizobia for colonization of <i>V. radiata</i> root nodules. <i>FEMS Microbiol. Lett.</i> <b>348</b> , 58-65. <b>IF 2.049</b>
30	Chanchal Kumar, Kavita Yadav, G. Archana and <b>G. Naresh Kumar (2013)</b> 2-Ketogluconic acid secretion by incorporation of <i>Pseudomonos putida</i> KT 2440 gluconate dehydrogenase ( <i>gad</i> ) operon in <i>Enterobacter asburiae</i> PSI3 improves mineral phosphate solubilization. <i>Curr. Microbiol.</i> <b>67</b> , 388-394. DOI: 10.1007/s00284-013-0372-z <b>IF 1.815</b>
29	Mahendrapal Singh Rajput, <b>G. Naresh Kumar</b> and Shalini Rajkumar <b>(2013)</b> Repression of oxalic acid-mediated mineral phosphate solubilization in rhizospheric isolates of <i>Klebsiella pneumoniae</i> by succinate, <i>Arch. Microbiol.</i> <b>195</b> , 81-88. <b>IF 1.754</b>
<b>2012</b>	
28	Raina Jain, Hemanta Adhikary, Sanjay Jha, Anamika Jha and <b>G. Naresh Kumar (2012)</b> Remodulation of central carbon metabolic pathway in response to arsenite exposure in <i>Rhodococcus</i> sp. Strain NAU-1. <i>Microbial Biotechnology</i> <b>5</b> , 764–772, <b>IF 3.214</b> .
27	Rajkumar, Shalini, Jog, Rahul and <b>Nareshkumar, G. (2012)</b> Plant growth promoting potential and soil enzyme production of the most abundant <i>Streptomyces</i> spp. from wheat rhizosphere. <i>Journal of Applied Microbiology</i> <b>113</b> , 1154-1164. <b>IF 2.337</b> .
<b>2011</b>	
26	Vikas Sharma, G. Archana and <b>G. Naresh Kumar (2011)</b> Plasmid load adversely affects growth and gluconic acid secretion ability of mineral phosphate-solubilizing rhizospheric bacterium <i>Enterobacter asburiae</i> PSI3 under P limited conditions. <i>Microbiological Research.</i> <b>166</b> , 36-46. <b>IF 2.054. Citation 1</b>
25	Divya K. Patel, Prayag Murawala, G. Archana and <b>G. Naresh Kumar (2011)</b> Repression of mineral phosphate solubilizing phenotype in the presence of weak organic acids in plant growth promoting fluorescent pseudomonads. <i>Bioresource Technology</i> <b>102</b> 3055–3061. BITE-D-10-01629R2 <b>IF 4.365</b> . 10.1016/j.biortech.2010.10.041
<b>2010</b>	
24	Patel, Kuldeep J., Saurabh Vig, <b>G. Nareshkumar</b> , and G. Archana (2010) Effect of transgenic rhizobacteria overexpressing <i>Citrobacter braakii</i> <i>appA</i> on phytate-P availability to mung bean plants. <i>J. Microbiol. Biotechnol.</i> <b>20</b> , 1491–1499. <b>IF 2.06</b> .
23	Aditi D. Buch, G. Archana and <b>G. Naresh Kumar (2010)</b> Broad-host-range plasmid mediated metabolic perturbations in <i>Pseudomonas fluorescens</i> 13525. <i>Applied Microbiology and Biotechnology</i> .

	<b>88</b> , 209-218. <b>IF 2.441</b> . DOI: 10.1007/s00253-010-2717-x
22	Kuldeep J. Patel, Anil K. Singh, <b>G. Nareshkumar</b> and G. Archana (2010) Organic-acid-producing, phytate-mineralizing rhizobacteria and their effect on growth of pigeon pea ( <i>Cajanus cajan</i> ). <i>Applied Soil Ecology</i> <b>44</b> , 252-261. <b>IF 2.247</b>
21	Aditi D. Buch, G. Archana and <b>G. Naresh Kumar</b> (2010) Heterologous expression of phosphoenolpyruvate carboxylase enhances the phosphate solubilizing ability of fluorescent pseudomonads by altering the glucose catabolism to improve biomass yield. <i>Bioresource Technology</i> <b>101</b> , 679-687. <b>IF 4.253. Citation 1</b>
	<b>2009</b>
20	Aditi D. Buch, G. Archana and <b>G. Naresh Kumar</b> (2009) Enhanced citric acid biosynthesis in <i>Pseudomonas fluorescens</i> ATCC 13525 by overexpression of the <i>Escherichia coli</i> citrate synthase gene. <i>Microbiology</i> <b>155</b> , 2620-2629. <b>IF 2.802. Citation 1</b>
19	Prasant Kumar, S. Ferzin, S. Chintan and <b>G. Naresh Kumar</b> (2009) Isolation and characterization of potential probiotic <i>Escherichia coli</i> strains from rat faecal samples. <i>Amer. J. Infectious Diseases</i> <b>5</b> (2): 119-124.
	<b>2008</b>
18	Aditi Buch, Archana. G., <b>Naresh Kumar, G.</b> (2008) Metabolic channeling of glucose towards gluconate in phosphate solubilizing <i>Pseudomonas aeruginosa</i> P4 under phosphorus deficiency. <i>Research Microbiology</i> <b>159</b> , 635-642. <b>IF 2.216. Citations 8</b>
17	Kavita, B., Shukla S., <b>G. Naresh Kumar</b> , G. Archana. (2008) Amelioration of phytotoxic effects of Cd on mung bean seedlings by gluconic acid secreting rhizobacterium <i>Enterobacter asburiae</i> PSI3 and implication of role of organic acid. <i>World J Microbiology Biotechnology</i> <b>24</b> , 2965-2972. <b>IF 0.745; Citation 1.</b>
16	Karunakaran, R., Mehta, O., Kunjadia, P., Apte, S. K. and <b>Naresh Kumar G.</b> (2008) Excision of <i>Anabaena</i> PCC 7120 <i>nifD</i> element in <i>Escherichia coli</i> : growth kinetics and RecA regulated <i>xisA</i> expression and DNA rearrangement. <i>Bioresource Technology</i> <b>99</b> , 4551-4558. <b>IF 3.1</b>
15	Patel, D. K., Archana G. and <b>Naresh Kumar G.</b> (2008) Variation in the nature of organic acid secretion and mineral phosphate solubilization by <i>Citrobacter</i> sp. in the presence of different sugars. <i>Current Microbiology</i> <b>56</b> (2), 168-174. <b>IF 1.059; Citations 7.</b>
	<b>2007</b>
14	Gopit R. Shah, Karunakaran R. and <b>Naresh Kumar G.</b> (2007) <i>in vivo</i> restriction endonuclease activity of <i>Anabaena</i> PCC 7120 <i>XisA</i> protein in <i>Escherichia coli</i> . <i>Res. Microbiol.</i> <b>158</b> , 679-684. <b>IF 2.504</b>
13	S. Srivastava, M. T. Kausalya, G. Archana, O. P. Rupela and <b>G. Naresh-Kumar</b> (2007) Efficacy of organic acid secreting bacteria in solubilization of rock phosphate in acidic alfisols. In <i>First International Meeting on Microbial Phosphate Solubilization</i> . Series: <a href="#">Developments in Plant and Soil Sciences</a> , Vol. 102 Velazquez, E.; Rodriguez-Barrueco, C. (Eds.) pp. 117-124, Springer. <b>Citation 2</b>

2006	
12	Hameeda, B., Reddy, Y. H., Rupela, O. P., <b>Kumar, G. N.</b> and Reddy G. (2006) Effect of carbon substrates on rock phosphate solubilization by bacteria from composts and macrofauna. <i>Current Microbiology</i> . 53(4):298-302. <b>IF – 1.09</b>
2005	
11	Vikas Sharma, Vikas Kumar, G. Archana and <b>G. Naresh Kumar (2005)</b> Substrate specificity of Glucose dehydrogenase (GDH) of <i>Enterobacter asburiae</i> PSI3 and rock phosphate solubilisation with GDH substrates as C sources. <i>Canadian Journal of Microbiology</i> <b>51</b> , 477-482. <b>IF-1.118; Citations 8.</b>
2002	
10	Gyaneshwar, P., <b>Naresh Kumar, G.</b> , Parekh, L. J. & Poole P. S. (2002) Role of soil microorganisms in improving P nutrition of plants <i>Plant and Soil</i> <b>245</b> , 83–93. <b>IF-1.29; Citations 109.</b>
2000	
9	Vaishnav, P., Randev, S., Jatiani, S., Keharia, H., Vyas, P. R., <b>Naresh Kumar, G.</b> and Archana, G. (2000) Characterisation of carbamoyl phosphate synthetase of <i>Streptomyces</i> spp. <i>Indian J. Exp. Biol.</i> <b>38</b> , 931-935.
1999	
8	Gyaneshwar, P., Parekh, L. J., Archana, G., Poole, P. S., Collins, M. D., Hutson, R. A. and <b>Naresh Kumar, G. (1999)</b> Involvement of a phosphate starvation inducible glucose dehydrogenase in soil phosphate solubilization by <i>Enterobacter asburiae</i> . <i>FEMS Microbiol. Letters</i> <b>171</b> , 223-229. <b>IF-1.84; Citations 17.</b>
1998	
7	Gyaneshwar P., <b>Naresh Kumar, G.</b> and Parekh, L. J. (1998) Effect of buffering on the phosphate-solubilizing ability of microorganisms. <i>World J. Microbiol. Biotechnol.</i> <b>14</b> , 669-673. <b>IF -0.478; Citations 42.</b>
6	Gyaneshwar, P., <b>Naresh Kumar, G.</b> and Parekh, L. J. (1998) Biochemical and genetic characterization of mineral phosphate solubilizing <i>Enterobacter asburiae</i> . In Biofertilizers and Biopesticides, A. M. Deshmukh (Ed.) pp. 112-118, Technoscience Publ. Jaipur, India.
5	Gyaneshwar, P., <b>Naresh Kumar, G.</b> and Parekh, L. J. (1998) Cloning of mineral phosphate solubilizing genes from <i>Synechocystis</i> PCC 6803. <i>Curr. Sci.</i> 74, 1097-1099. IF-0.791
1996	
4	Apte, S. K. and <b>Naresh Kumar, G. (1996)</b> A model for cell type-specific differential gene expression during heterocyst development and the constitution of aerobic nitrogen fixation ability in <i>Anabaena</i> sp. strain PCC 7120. <i>J. Biosci.</i> <b>21</b> , 397-411. <b>IF 0.5</b>
1995	

3	Reena, S., Gyaneshwar, P., <b>Naresh Kumar, G.</b> and Parekh, L. J. (1995). Mineral phosphate solubilization by organic acids: Role of metal ion chelation. <i>J. M. S. University of Baroda (Sci., Tech. &amp; Med.)</i> <b>42</b> , 11-15.
2	Sandhya, N., Handa, P., Gyaneshwar, P., <b>Naresh Kumar, G.</b> and Parekh, L. J. (1995). Citrate mediated catabolite repression in plant growth promoting <i>Pseudomonas fluorescens</i> . <i>J. M. S. University of Baroda (Sci., Tech. &amp; Med.)</i> <b>42</b> , 17-21.
<b>1994</b>	
1	<b>Naresh Kumar, G. (1994)</b> Paradoxes in the evolution of introns and genes. <i>Curr. Sci.</i> <b>66</b> , 336-339.

### **Book Chapters**

Sr. No.	Details
3	Gattupalli Naresh Kumar and Gattupalli Archana (October 5 <sup>th</sup> , 2021). Potential of <i>Escherichia coli</i> Probiotics for Improved Health and Disease Management [Online First], IntechOpen, DOI: 10.5772/intechopen.100380
2	R. Jog, G. Nareshkumar, and S. Rajkumar, Enhancing soil health and plant growth promotion by actinomycetes, G. Subramaniam et al. (eds.), Plant Growth Promoting Actinobacteria, pp. 33-45, © Springer, 2016.  DOI 10.1007/978-981-10-0707-1_3; ISBN 978-981-10-0705-7.
1	G. Archana, A. Buch, and <b>G. Naresh Kumar (2012)</b> Pivotal role of organic acid secretion by rhizobacteria in plant growth promotion. In <i>Microorganisms in Sustainable Agriculture and Biotechnology</i> , T. Satyanarayana, B. N. Johri and A. Prakash (eds.), pp. 35-53, © Springer. DOI 10.1007/978-94-007-2214-9_3.

### **Awards/Recognitions:**

- Fellow, Gujarat Science Academy (2011)
- National Science Talent Search (NCERT, India) Award (Rank 33) and Fellowship, 1974-1977.