

## LIST OF PUBLICATIONS

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**List of Publications in Journals** (corresponding author is shown by \*):

Sr. #	Publication	Citation (Google Scholar)	Impact Factor (2022)	H-Index of the Journal	HJRS Category
174	Arshia Nazir, Muhammad Irfan, <b>Naeem Rashid</b> , Muhammad Sajjad (2025) Optimized production, purification and biochemical characterization of a novel glycerophosphodiesterase from a hyperthermophilic archaeon <i>Pyrococcus abyssi</i> . Process Biochem. <a href="https://doi.org/10.1016/j.procbio.2025.09.001">https://doi.org/10.1016/j.procbio.2025.09.001</a>		3.7	174	W (Bronze)
173	Hamayun Arshad, Qurratulann Afza Gardner, <b>Naeem Rashid</b> , Muhammad Waris, Muhammad Akhtar (2025) Identification and structural analysis of a surface layer protein from <i>Geobacillus thermopakistaniensis</i> MAS1: highlighting its larvicidal potential against <i>Culex quinquefasciatus</i> , <i>Anopheles stephensi</i> and <i>Aedes aegypti</i> . Int J Bio Mac Mol. 315:144307. doi: <a href="https://doi.org/10.1016/j.ijbiomac.2025.144307">10.1016/j.ijbiomac.2025.144307</a> .		7.7	166	W (Gold)
172	Zahra Naz, Ishan Rathore, Muhammad Saleem, Moazur Rahman, Alexander Wlodawer* and <b>Naeem Rashid*</b> (2025) A bifunctional Phosphoglucomutase/Phosphomannomutase from <i>Thermococcus kodakarensis</i> : Biophysical Analysis and cryo-EM Structure. Biomolecules 15, 319. <a href="https://doi.org/10.3390/biom15030319">https://doi.org/10.3390/biom15030319</a>		4.8		W (Gold)
171	Asma Waris, Ali Raza Awan, Muhammad Wasim, Abu Seed Hashmi, <b>Naeem Rashid</b> , Sehrish Firyal, Aisha khalid, Muhammad Tayyab (2024) 3D modeling of thermostable xylanase from <i>Thermotoga naphthophila</i> a member of GH10 family: characterization studies of recombinant xylanase <a href="https://doi.org/10.1101/2024.09.06.611769">https://doi.org/10.1101/2024.09.06.611769</a>				

170	Zara Naz, Jacek Lubkowski, Muhammad Saleem Moazur Rahman, Alexander Wlodawer*, <b>Naeem Rashid*</b> (2024) Biophysical Characterization of a Novel Phosphopentomutase from the Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i> . Int. J. Mol. Sci. 25: 12893 <a href="https://doi.org/10.3390/ijms252312893">https://doi.org/10.3390/ijms252312893</a>	4.9	166	W (Gold)
169	Hafiz Muhammad Khalid, Najam us Sahar Sada Zaidi, <b>Naeem Rashid</b> , Muhammad Tahir (2024) Development of an immunodiagnostic assay for the detection of Sugarcane mosaic virus Turk. J. Biol. 48: 390-400. doi:10.55730/13000152.2714	0.443	47	X (Clay)
168	Ayesha Sania, Majida Atta Muhammad Muhammad Sajed, Nasir Ahmad, Mehwish Aslam Xiao-Feng Tang and <b>Naeem Rashid*</b> (2024) Engineering Tk1656, a highly active L-asparaginase from <i>Thermococcus kodakarensis</i> , for enhanced activity and stability. Int. J. Biol. Macromol. 281: 136442. <a href="https://doi.org/10.1016/j.ijbiomac.2024.136442">https://doi.org/10.1016/j.ijbiomac.2024.136442</a>	7.7	166	W (Gold)
167	Ayesha Sania, Muhammad Sajed, <b>Naeem Rashid*</b> (2024) Looking into the thermostable archaeal L-asparaginases. Biologia. 79:3637–3648 <a href="https://doi.org/10.1007/s11756-024-01801-7">https://doi.org/10.1007/s11756-024-01801-7</a> .	1.653	45	X (Clay)
166	Abeera Shaeer, Iqra Aroob, Mehwish Aslam Naseema Azim, and <b>Naeem Rashid*</b> (2024) Investigating recombinant manganese-catalases from <i>Geobacillus thermopakistanensis</i> for sustainable and eco-friendly textile processing. Int. J. Environ. Sci. Technol. <a href="https://doi.org/10.1007/s13762-024-06072-y">https://doi.org/10.1007/s13762-024-06072-y</a> .	3.519	93	W (Bronze)
165	Sabah Mansoor, Sehrish Firyal, Ali Raza Awan <b>Naeem Rashid</b> , Nasir Ahmad, Abu Saeed Hashmi Muhammad Azam, Muhammad Wasim, Shagufta Saeed, Muhammad Tayyab* (2024) Biological evaluation of locally characterized recombinant thermostable $\alpha$ -amylase in poultry birds. Xi'an Shiyou Daxue Xuebao (Ziran Kexue Ban)/Journal of Xi'an Shiyou University, Natural Sciences Edition <b>20</b> : 30-44. <a href="https://doi.org/">https://doi.org/</a>	0.197	16	X (Null)

164	Amina Maqsood, Nisar Ahmed Shakir, Mehwish Aslam, Moazur Rahman, <b>Naeem Rashid*</b> (2024) Structural and Functional investigations of Pcal_0606, a bifunctional phosphoglucose phosphomannose isomerase from <i>Pyrobaculum calidifontis</i> . Int. J. Biol. Macromol. 279: 135127 <a href="https://doi.org/10.1016/j.ijbiomac.2024.135127">https://doi.org/10.1016/j.ijbiomac.2024.135127</a>		7.7	166	W (Gold)
163	Ayesha Sania, Majida Atta Muhammad Muhammad Sajed, Naseema Azim, Nasir Ahmad Mehwish Aslam and <b>Naeem Rashid*</b> (2024) Structural and functional analyses of an L asparaginase from <i>Geobacillus thermopakistaniensis</i> . Int. J. Biol. Macromol. 263: 130438. <a href="https://doi.org/10.1016/j.ijbiomac.2024.130438">doi.org/10.1016/j.ijbiomac.2024.130438</a> .		8.2	166	W (Gold)
162	Arshia Nazir, Mohsin Shad, <b>Naeem Rashid</b> , Naseema Azim, Muhammad Sajjad (2024) Recombinant production and characterization of a metal ion-independent Lysophospholipase from a hyperthermophilic archaeon <i>Pyrococcus abyssi</i> DSM25543. Int J Biol Macromol. 259: 129345. <a href="https://doi.org/10.1016/j.ijbiomac.2024.129345">doi: 10.1016/j.ijbiomac.2024.129345</a> .		8.025	166	W (Gold)
161	Hafiz Muhammad Khalid, Najam us Sahar Sadaf Zaidi, Naeem Rashid, Muhammad Tahir * (2024) Development of polyclonal antibodies against the recombinant protein of Barley yellow dwarf virus. Asian J Agric & Biol. 2024(1): 2023127. DOI: <a href="https://doi.org/10.35495/ajab.2023.127">10.35495/ajab.2023.127</a>		0.28	13	X (Null)
160	Iqra Aroob, Nasir Ahmad, Mehwish Aslam, Abeera Shaeer, and <b>Naeem Rashid*</b> (2024) Ethylenediaminetetraacetic acid enhances structural stability and thermotolerance of recombinant cyclomaltodextrinase from <i>Geobacillus thermopakistaniensis</i> at higher temperatures. Biologia 79: 191–198 <a href="https://doi.org/10.1007/s11756-023-01542-z">doi.org/10.1007/s11756-023-01542-z</a>		1.653	45	X (Clay)
159	Qamar Abbas, Majida Atta Muhammad, Nisar Ahmad Shakir, Mehwish Aslam, and <b>Naeem Rashid*</b> (2023) Molecular cloning and characterization of Pcal_0039, an ATP-/NAD <sup>+</sup> -independent DNA ligase from hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> . Int. J. Biol. Macromol. 253: 126711 <a href="https://doi.org/10.1016/j.ijbiomac.2023.126711">doi.org/10.1016/j.ijbiomac.2023.126711</a>		8.025	166	W (Gold)

158	Majida Atta Muhammad, Nasir Ahmad, Mohsina Akhter, <b>Naeem Rashid*</b> (2023) Structural and functional analyses of Pcal_0917, an $\alpha$ -glucosidase from hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> . Int. J. Biol. Macromol. <b>244</b> :125446 doi.org/10.1016/j.ijbiomac.2023.125446.		8.025	166	W (Gold)
157	Shazeel Ahmad, Syed Farhat Ali, Saima Iftikhar and <b>Naeem Rashid*</b> (2023) Engineering a DNA polymerase from <i>Pyrobaculum calidifontis</i> for improved activity, processivity and extension rate. Int. J. Biol. Macromol. <b>233</b> : 123545. doi.org/10.1016/j.ijbiomac.2023.123545.		8.025	166	W (Gold)
156	Sumaira Mehboob, Tuba Ahmad, Ramzan Ali, Nasir Ahmad, Hamama Islam Butt, Shahzad Bashir, <b>Naeem Rashid</b> (2023) Molecular cloning and production of recombinant Pcal_0672, a family GH57 glycoside hydrolase from <i>Pyrobaculum calidifontis</i> . Biologia <b>78</b> :1861-1874. <a href="https://doi.org/10.1007/s11756-023-01338-1">https://doi.org/10.1007/s11756-023-01338-1</a>		1.653	45	X (Clay)
155	Iqra Aroob, Asifa Maqbool, Nasir Ahmad, Mehwish Aslam, Abeera Shaeer and <b>Naeem Rashid*</b> (2023) Pcal_0976, a pullulanase homologue from <i>Pyrobaculum calidifontis</i> , displays a glycoside hydrolase activity but no pullulanase activity. Biologia <b>78</b> : 1875-1887 <a href="https://doi.org/10.1007/s11756-022-01309-y">https://doi.org/10.1007/s11756-022-01309-y</a> .	0	1.653	45	X (Clay)
154	Nisar Ahmed Shakir <sup>+</sup> , Mehwish Aslam <sup>+</sup> , Tahira Bibi Samia Falak, Naeem Rashid* (2023) Functional analyses of a highly thermostable hexokinase from <i>Pyrobaculum calidifontis</i> . Carbohydr Res. 523:108711. doi.org/10.1016/j.carres.2022.108711	0	2.975	143	X (Honorable Mention)
153	Syed Farhat Ali, Kashif Maseh, Shazeel Ahmad, and <b>Naeem Rashid</b> (2023) Cost-effective, high-yield production of <i>Pyrobaculum calidifontis</i> DNA polymerase for PCR application. Prep. Biochem. Biotechnol. 53(6):704-711. <a href="https://doi.org/10.1080/10826068.2022.2137731">https://doi.org/10.1080/10826068.2022.2137731</a>	0	3.14	35	X (Null)
152	Muhammad Sajed, Samia Falak, Majida Atta Muhammad, Nasir Ahmad, <b>Naeem Rashid*</b> (2022) A plant-type L-asparaginase from <i>Pyrobaculum</i>	0	1.653	45	X (Clay)

	<i>calidifontis</i> undergoes temperature dependent autocleavage. <i>Biologia</i> <b>77</b> : 3623-3631. DOI:10.1007/s11756-022-01215-3				
151	Syed Nasim Abbas, Mehwish Aslam, Hafiza Zumra Fatima, Muhammad Arshad Javed, <b>Naeem Rashid*</b> (2022) Pcal_2031, a RecA/Rad51 homologue from <i>Pyrobaculum calidifontis</i> complements the ultraviolet light sensitivity of <i>Escherichia coli</i> . <i>Biologia</i> . <b>77</b> :3319-3326 <a href="https://doi.org/10.1007/s11756-022-01187-4">https://doi.org/10.1007/s11756-022-01187-4</a>	0	1.653	45	X (Clay)
150	Abeera Shaeer, Mehwish Aslam, Iqra Aroob and <b>Naeem Rashid*</b> (2022) Role of C-terminal domain in a manganese-catalase from <i>Geobacillus thermopakistaniensis</i> . <i>J. Biosci. Bioeng.</i> <b>134(3)</b> : 203-212. <a href="https://doi.org/10.1016/j.jbiosc.2022.06.010">https://doi.org/10.1016/j.jbiosc.2022.06.010</a>	0	3.185	121	X (Clay)
149	Muhammad Sajed, Nasir Ahmad, <b>Naeem Rashid*</b> (2022) Temperature dependent autocleavage and applications of an L-asparaginase from <i>Thermococcus kodakarensis</i> for acrylamide mitigation in food items. <i>3 Biotech.</i> <b>12</b> :129. DOI: 10.1007/s13205-022-03197-0.	1	2.893	49	
148	Samia Falak, Muhammad Sulaiman Saeed, <b>Naeem Rashid*</b> (2022) Molecular cloning, expression in <i>Escherichia coli</i> and structural-functional analysis of a pyruvate kinase from <i>Pyrobaculum calidifontis</i> . <i>Int. J. Biol. Macromol.</i> <b>209</b> : 1410–1421. <a href="https://doi.org/10.1016/j.ijbiomac.2022.04.144">https://doi.org/10.1016/j.ijbiomac.2022.04.144</a> .	2	8.025	166	W (Gold)
147	Samia Falak, Muhammad Sajed and <b>Naeem Rashid*</b> (2022) Strategies to enhance soluble production of heterologous proteins in <i>Escherichia coli</i> . <i>Biologia</i> <b>77</b> : 893–905 DOI: 10.1007/s11756-021-00994-5	4	1.653	45	X (Clay)
146	Iqra Aroob, Maryam Javed, Nasir Ahmad, Mehwish Aslam, and <b>Naeem Rashid*</b> (2021) Investigating the role of carbohydrate binding module 34 in cyclomaltodextrinase from <i>Geobacillus thermopakistaniensis</i> : structural and functional analyses. <i>3 Biotech.</i> <b>12</b> : 25. DOI: 10.1007/s13205-021-03089-9	1	2.893	49	
145	Abeera Shaeer, Mehwish Aslam, Farhan Aziz, Iqra Aroob and <b>Naeem Rashid*</b> (2021) Looking into a	1	3.185	121	X (Clay)

	highly thermostable and efficient recombinant manganese-catalase from <i>Geobacillus thermopakistanensis</i> . J. Biosci. Bioeng. <b>133(1)</b> : 25-32. doi.org/10.1016/j.jbiosc.2021.09.012.				
144	Shazeel Ahmad, Syed Farhat Ali, Naseema Azim <b>Naeem Rashid*</b> (2021) Studies on enhancement of production of recombinant DNA polymerase originated from <i>Pyrobaculum calidifontis</i> . Biologia <b>76</b> : 3579–3586. DOI : 10.1007/s11756-021-00887-7	1	1.653	45	X (Clay)
143	Iqra Aroob, Nasir Ahmad, <b>Naeem Rashid*</b> (2021) Cyclodextrin-preferring glycoside hydrolases properties and applications. Amylase 2021; 5: 23-37.	3			
142	M. Farhan ul Haque, S. Sadia Bukhari, Rabia Ejaz Faheem uz Zaman, K. Rajan Sreejith, <b>Naeem Rashid</b> , Muhammad Umer and Naveed Shahzad (2021) A novel RdRp-based colorimetric RT-LAMP assay for rapid and sensitive detection of SARS-CoV-2 in clinical and sewage samples from Pakistan. Virus Res. <b>302</b> : 198484. DOI: 10.1016/j.virusres.2021.198484	12	6.286	136	W (Bronze)
141	Abeera Shaeer, Mehwish Aslam and <b>Naeem Rashid*</b> (2021) Structural and functional analyses of a novel manganese-catalase from <i>Bacillus subtilis</i> R5. Int. J. Biol. Macromol. <b>80</b> : 222-233. doi 10.1016/j.ijbiomac.2021.03.074.	4	8.025	166	W (Gold)
140	Khadija Rafiq, Muhammad Sohail Akram, Muhammad Shahid, Uzma Qaisar and <b>Naeem Rashid*</b> (2021) <i>Staphylococcus sciuri</i> SAT-17 improved the growth of salt stressed maize ( <i>zea mays</i> L.) By modulated expression of stress responsive genes and anti-oxidative defence mechanisms. Pak. J. Agri. Sci., <b>57</b> : 1331-1338 DOI 10.21162/PAKJAS/21.9936	1	0.856	26	Y (Null)
139	Amina Arif, <b>Naeem Rashid*</b> and Muhammad Akhtar (2021) Removal of N-terminal methionine of human interferon $\alpha$ -2b by co-producing with <i>Pyrococcus furiosus</i> methionine aminopeptidase in <i>Escherichia coli</i> . Biologia. <b>76</b> :1843–1848 DOI 10.1007/s11756-021-00728-7	0	1.653	45	X (Clay)
138	Nisar Ahmad Shakir, Mehwish Aslam and <b>Naeem Rashid*</b> (2021) ADP-dependent glucose/glucosamine kinase from <i>Thermococcus kodakarensis</i> : cloning and characterization. Int. J	3	8.025	166	W (Gold)

	Biol. Macromol. <b>173:</b> 168–179 <a href="https://doi.org/10.1016/j.ijbiomac.2021.01.019">https://doi.org/10.1016/j.ijbiomac.2021.01.019</a>				
137	Huma Naz, Sheeren Gul, Qamar Bashir, <b>Naeem Rashid</b> and H. Naveed Shahzad (2021) <i>Thermococcus kodakarensis</i> -derived L-asparaginase: a candidate for the treatment of glioblastoma. <i>Biologia</i> . <b>76:</b> 1305–1314 <a href="https://doi.org/10.2478/s11756-021-00678-0">doi.org/10.2478/s11756-021-00678-0</a> .	2	1.653	45	X (Clay)
136	Khurram Jahangir Toor, Nasir Ahmad, Majida Attar Muhammad and <b>Naeem Rashid*</b> (2020) TK-PUL, a pullulan hydrolase type III from <i>Thermococcus kodakarensis</i> , a potential candidate for simultaneous liquefaction and saccharification of starch. <i>Amylase</i> <b>4:</b> 45–55 <a href="https://doi.org/10.1515/amylase-2020-0004">https://doi.org/10.1515/amylase-2020-0004</a> .	0			
135	Muhammad Sulaiman Saeed, Masood Ahmed Siddiqui and <b>Naeem Rashid*</b> (2021) Effect of Y50H and S187G substitutions on thermostability and exonuclease activity of TK1646 from <i>Thermococcus kodakarensis</i> . <i>Protein Expr. Purif.</i> <b>179:</b> 105799 <a href="https://doi.org/10.1016/j.pep.2020.105799">https://doi.org/10.1016/j.pep.2020.105799</a>	0	2.025	94	X (Null)
134	Huma Naz, Qamar Bashir, <b>Naeem Rashid</b> and Hafiz Naveed Shahzad (2021) Isocitrate dehydrogenase 1 gene variants analysis of glioma patients from Pakistan. <i>Ann. Hum. Genet.</i> <b>85:</b> 73–79. DOI: 10.1111/ahg.12409.	0	2.18	79	X (Clay)
133	Sadaf Ashraf, Kanwal Nisa, Samar Ali, <b>Naeem Rashid</b> and Masood Ahmad Siddiqui (2022) Gene cloning and characterization of Pcal_0222, an $\alpha$ -amylase from <i>Pyrobaculum calidifontis</i> . <i>Pak. J. Zool.</i> <b>54:</b> 537–542. DOI: <a href="https://dx.doi.org/10.17582/journal.pjz/20200917190928">https://dx.doi.org/10.17582/journal.pjz/20200917190928</a> .	0	0.687	29	X (Null)
132	Sabeel un Naeem, Nasir Ahmad and <b>Naeem Rashid*</b> (2020) Pcal_0842, a highly thermostable glycosidase from <i>Pyrobaculum calidifontis</i> displays both $\alpha$ -1,4- and $\beta$ -1,4 glycosidic cleavage activities. <i>Int. J. Biol. Macromol.</i> <b>165B:</b> 1745-1754 <a href="https://doi.org/10.1016/j.ijbiomac.2020.10.012">https://doi.org/10.1016/j.ijbiomac.2020.10.012</a>	5	8.025	166	W (Gold)
131	Sumaira Mehboob, Nasir Ahmad, Sajida Munir Ramzan Ali, Hooria Younas, <b>Naeem Rashid*</b> (2020) Gene cloning, expression enhancement in <i>Escherichia coli</i> and biochemical characterization of a highly thermostable amyloamylase from <i>Pyrobaculum calidifontis</i> . <i>Int. J. Biol. Macromol.</i>	10	8.025	166	W (Gold)

	<b>165A</b> :645-653. <a href="https://doi.org/10.1016/j.ijbiomac.2020.09.071">https://doi.org/10.1016/j.ijbiomac.2020.09.071</a>				
130	Anam Iftikhar, Azka Asifa, Asma Manzoor Muhammad Azeem, Ghulam Sarwar, <b>Naeem Rashid</b> , Uzma Qaisar* (2020) Mutation in pvcABCD operon of <i>Pseudomonas aeruginosa</i> modulates MexEF-OprN efflux system and hence resistance to chloramphenicol and ciprofloxacin. <i>Microb. Pathog.</i> <b>149</b> : 104491. <a href="https://doi.org/10.1016/j.micpath.2020.104491">https://doi.org/10.1016/j.micpath.2020.104491</a>	9	3.848	89	W (Honorable Mention)
129	Ghazaleh Gharib, Shahid Mahmood Chohan <b>Naeem Rashid*</b> , Muhammad Akhtar (2020) Heterologous gene expression and characterization of recombinant aspartate aminotransferase from <i>Geobacillus thermopakistaniensis</i> . <i>Protein Expression and Purification.</i> <b>175</b> : 105709. <a href="https://doi.org/10.1016/j.pep.2020.105709">https://doi.org/10.1016/j.pep.2020.105709</a>	1	2.025	94	X (Null)
128	Khadija Rafiq, Muhammad Sohail Akram Muhammad Shahid, Uzma Qaisar, and <b>Naeem Rashid*</b> (2020) Enhancement of salt tolerance in maize ( <i>Zea mays</i> L.) using locally isolated <i>Bacillus</i> sp. SR-2-1/1. <i>Biologia</i> <b>75</b> :1425–1436. <a href="https://doi.org/10.2478/s11756-020-00435-9">doi.org/10.2478/s11756-020-00435-9</a>	18	1.653	45	X (Clay)
127	Kanwal Nisa, Sadaf Ashraf, Masood Ahmed Siddiqui*, Naila Taj, Habib-Ur-Rehman, Arifa Bano and <b>Naeem Rashid</b> (2020) Purification and Characterization of a Thermostable Pyruvate Ferredoxin Oxidoreductase/Pyruvate Decarboxylase from <i>Thermococcus kodakaraensis</i> . <i>Pak. J. Zool.</i> <b>52</b> : 1149-1156. DOI: <a href="https://dx.doi.org/10.17582/journal.pjz/20191018081056">https://dx.doi.org/10.17582/journal.pjz/20191018081056</a>	3	0.687	29	X (Null)
126	Shahid Mahmood Chohan, Muhammad Sajed Sabeel un Naeem, and <b>Naeem Rashid*</b> (2020) Heterologous gene expression and characterization of TK2246, a highly active and thermostable plant type L-asparaginase from <i>Thermococcus kodakarensis</i> . <i>Int. J. Biol. Macromol.</i> <b>147</b> : 131–137. DOI: <a href="https://doi.org/10.1016/j.ijbiomac.2020.01.012">10.1016/j.ijbiomac.2020.01.012</a>	14	8.025	166	W (Gold)
125	Sitara Nasar, <b>Naeem Rashid</b> and Saima Iftikhar (2020) Dengue proteins with their role in pathogenesis, and strategies for developing an effective anti-dengue treatment: A Review. <i>J. Med. Virol.</i> <b>92</b> : 941–955. doi: <a href="https://doi.org/10.1002/jmv.25646">10.1002/jmv.25646</a>	31	20.693	145	W (Platinum)
124	Anam Tariq, Alina Gul, Majida Atta Muhammad Samia Falak and <b>Naeem Rashid*</b> (2020)	0	0.687	29	X (Null)

	<i>Escherichia coli</i> signal peptidases cleave the signal sequence of TK0522, a carbohydrate esterase from hyperthermophilic archaeon <i>Thermococcus kodakarensis</i> . Pak. J. Zoo. <b>52</b> : 789-792. DOI: <a href="https://dx.doi.org/10.17582/journal.pjz/20191109101144">https://dx.doi.org/10.17582/journal.pjz/20191109101144</a>				
123	Muhammad Arif, Qamar Bashir, Masood Ahmad Siddiqui and <b>Naeem Rashid*</b> (2020) Molecular characterization of a highly efficient and thermostable phosphoribosyl anthranilate isomerase from <i>Geobacillus thermopakistanensis</i> Protein Expr Purif. <b>166</b> :105523 <a href="https://doi.org/10.1016/j.pep.2019.105523">https://doi.org/10.1016/j.pep.2019.105523</a>	1	2.025	94	X (Null)
122	Muhammad Sulaiman Saeed and <b>Naeem Rashid*</b> (2019) Characterization of TK1646, a highly thermostable 3'-5' single strand specific exonuclease from <i>Thermococcus kodakarensis</i> . Int J. Biol. Macromol. <b>140</b> :1194-1201 <a href="https://doi.org/10.1016/j.ijbiomac.2019.08.150">https://doi.org/10.1016/j.ijbiomac.2019.08.150</a>	2	8.025	166	W (Gold)
121	Abeera Shaeer, Mehwish Aslam and <b>Naeem Rashid*</b> (2019) A highly stable manganese catalase from <i>Geobacillus thermopakistanensis</i> molecular cloning and characterization Extremophiles <b>23</b> :707-718 <a href="https://doi.org/10.1007/s00792-019-01124-5">https://doi.org/10.1007/s00792-019-01124-5</a>	10	3.035	92	X (Clay)
120	Hira Muzammal, Qurat ul Ain, Muhammad Sulaiman Saeed and <b>Naeem Rashid*</b> (2019) Gene cloning and characterization of Tk1281, a flap endonuclease 1 from <i>Thermococcus kodakarensis</i> Folia Microbiologica <b>65</b> : 407-415. <a href="https://doi.org/10.1007/s12223-019-00745-9">https://doi.org/10.1007/s12223-019-00745-9</a> .	1	2.629	56	X (Honorable Mention)
119	Naseema Azim, Qurratulann Afza Gardner, <b>Naeem Rashid</b> , Muhammad Akhtar* (2019) Mechanistic studies on <i>Pyrobaculum calidifontis</i> porphobilinogen synthase (5-aminolevulinic acid dehydratase). <i>Bioorganic Chem.</i> <b>91</b> :103117. <a href="https://doi.org/10.1016/j.bioorg.2019.103117">https://doi.org/10.1016/j.bioorg.2019.103117</a> .	0	5.305	75	W (Bronze)
118	Nisar Ahmed Shakir, Tahira Bibi, Mehwish Aslam and <b>Naeem Rashid*</b> (2019) Biochemical characterization of a highly active ADP-dependent phosphofructokinase from <i>Thermococcus kodakarensis</i> . <i>J. Biosci. Bioeng.</i> <b>129</b> : 6-15. <a href="https://doi.org/10.1016/j.jbiosc.2019.06.014">https://doi.org/10.1016/j.jbiosc.2019.06.014</a>	1	3.185	121	X (Clay)

117	<b>Naeem Rashid*</b> and Mehwish Aslam (2020) An overview of twenty-five years of research on <i>Thermococcus kodakarensis</i> , a genetically versatile model organism for archaeal research. <i>Folia Microbiologica</i> . 65: 67-78 <a href="https://doi.org/10.1007/s12223-019-00730-2">https://doi.org/10.1007/s12223-019-00730-2</a>	2	2.629	56	X (honorable Mention)
116	Iqra Aroob, Nasir Ahmad, Mehwish Aslam, Abeera Shaeer, <b>Naeem Rashid*</b> (2019) A highly active $\alpha$ -cyclodextrin preferring cyclomaltoamylase from <i>Geobacillus thermopakistaniensis</i> . <i>Carbohydr Res</i> . 481:1–8. doi: 10.1016/j.carres.2019.06.004	6	2.975	143	X (Honorable Mention)
115	Sohaib Afzaal, Usman Hameed, Nasir Ahmad <b>Naeem Rashid</b> , Muhammad Saleem Haider (2019) Molecular identification and characterization of lactic acid producing bacterial strains isolated from raw and traditionally processed foods of Punjab Pakistan. <i>Pak. J. Zoo</i> . 51: 1145–1153. DOI <a href="http://dx.doi.org/10.17582/journal.pjz/2019.51.3.1145.1153">http://dx.doi.org/10.17582/journal.pjz/2019.51.3.1145.1153</a>	4	0.687	29	X (Null)
114	Anam Tariq, Alina Gul, Majida A. Muhammad, <b>Naeem Rashid*</b> & Masood A Siddiqui (2019) Recombinant Tk0522, a carbohydrate esterase homologue from <i>Thermococcus kodakarensis</i> , does not require a signal sequence for translocation to periplasmic space in <i>Escherichia coli</i> . <i>Biologia</i> 74:899–904 <a href="https://doi.org/10.2478/s11756-019-00243-w">https://doi.org/10.2478/s11756-019-00243-w</a>	1	1.653	45	X (Clay)
113	Naveed Shahzad, Iqra Hussain, Usman Shah Gilani, Asima Tayyeb, Muhammad Amir Aslam, Muhammad Khurshid, Umair Hassan, Fareeda Tasneem, Muhammd Umer & <b>Naeem Rashid</b> (2019) Merkel cell polyomavirus DNA sequences in the blood of healthy population of Pakistan. <i>Future Microbiology</i> 14:599-608 <a href="https://doi.org/10.2217/fmb-2018-0314">https://doi.org/10.2217/fmb-2018-0314</a>	3	3.553	96	X (Clay)
112	Mehwish Akram and <b>Naeem Rashid</b> (2019) Inwardly rectifying potassium channels in <i>Drosophila</i> regulate the sleep/wake behaviour through PDF-neurons. <i>Pak. J. Zoo</i> . 51: 709-715 <a href="http://dx.doi.org/10.17582/journal.pjz/2019.51.2.709.715">http://dx.doi.org/10.17582/journal.pjz/2019.51.2.709.715</a>	0	0.687	29	X (Null)

111	Shahid Mahmood Chohan, <b>Naeem Rashid*</b> Muhammad Sajed and Tadayuki Imanaka (2019) Pcal_0970, an extremely thermostable L asparaginase from <i>Pyrobaculum calidifontis</i> with no detectable glutaminase activity. Folia Microbiologica 64: 313-320 <a href="https://doi.org/10.1007/s12223-018-0656-6">https://doi.org/10.1007/s12223-018-0656-6</a> .	26	2.629	56	X (honorable Mention)
110	Muhammad Arif, <b>Naeem Rashid*</b> , Sumera Perveen, Qamar Bashir and Muhammad Akhtar (2019) Extremely stable indole-3-glycerol-phosphate synthase from hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . Extremophiles 23: 69-77. <a href="https://doi.org/10.1007/s00792-018-1061-4">https://doi.org/10.1007/s00792-018-1061-4</a> .	9	3.035	92	X (Clay)
109	Saadia Basheer, <b>Naeem Rashid*</b> , Muhammad Sohail Akram, and Muhammad Akhtar (2019) A highly stable laccase from <i>Bacillus subtilis</i> strain R5: Gene cloning and characterization. Biosci. Biotech. Biochem. 83(3):436-445 <a href="https://doi.org/10.1080/09168451.2018.1530097">https://doi.org/10.1080/09168451.2018.1530097</a>	6	2.337	130	X (Clay)
109	A. Muazzam*, B. Malik, <b>N. Rashid</b> , S. Irshad and M. Fatima (2019) Soluble expression of <i>Bacillus licheniformis</i> ATCC 27811 $\alpha$ -amylase and characterization of purified recombinant enzyme. The Journal of Animal & Plant Sciences, 29(1): 99-108.		0.6		
108	Gilani US, Memoona, Rasheed A, Shahid M Tasneem F, Arshad MI, <b>Rashid N</b> , Shahzad N (2019) The implication of CRISPR/Cas9 genome editing technology in combating human oncoviruses. J. Med. Virol. 91:1-13. doi 10.1002/jmv.25292.	8	20.693	145	W (Platinum)
107	Anjum Shehzad, Nasir Ahmad, Zaheer Hussain, Muhammad S. Haider and <b>Naeem Rashid*</b> (2018) Valorization of waste foods using pullulan hydrolase from <i>Thermococcus kodakarensis</i> . Amylase 2:39-43	1			
106	Iram Aziz, Tahira Bibi, <b>Naeem Rashid*</b> , Riku Aono Haruyuki Atomi* and Muhammad Akhtar (2018) A phosphofructokinase homolog from <i>Pyrobaculum calidifontis</i> displays kinase activity towards	9	3.476	265	W (Bronze)

	pyrimidine nucleosides and ribose 1-phosphate. <i>J. Bacteriol.</i> <b>200</b> : e00284-18. ( <b>Manuscript selected for Spotlight in J. Bacteriol.</b> ) doi:10.1128/JB.00284-18.				
105	Habib-ur-Rehman, Masood Ahmed Siddiqui*, Abdu Qayyum, Arifa Bano and <b>Naeem Rashid</b> (2018) Gene expression in <i>Escherichia coli</i> and purification of recombinant type II pullulanase from a hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> . <i>Pak. J. Zoo.</i> <b>50</b> : 1381-1386. DOI:http://dx.doi.org/10.17582/journal.pjz/2018.50.4.1381.1386	11	0.687	29	X (Null)
104	Sabah Mansoor, Muhammad Tayyab*, Amna Jawad, Bushra Munir, Sehrish Firyal, Ali Raza Awan, <b>Naeem Rashid</b> and Muhammad Wasim (2018) Refolding of misfolded inclusion bodies of recombinant $\alpha$ -amylase: characterization of cobalt activated thermostable $\alpha$ -amylase from <i>Geobacillus</i> SBS-4S. <i>Pak. J. Zoo.</i> <b>50</b> :1147-1155.	6	0.687	29	X (Null)
103	Shahid Mahmood Chohan and <b>Naeem Rashid*</b> (2018) Gene cloning and characterization of recombinant L-Asparaginase from <i>Bacillus subtilis</i> strain R5. <i>Biologia</i> 73:537–543. <a href="https://doi.org/10.2478/s11756-018-0054-1">https://doi.org/10.2478/s11756-018-0054-1</a>	5	1.653	45	X (Clay)
102	J. Guo, A. R. Coker, S. P. Wood, J. B. Cooper*, R. M. Keegan, N. Ahmad, M. A. Muhammad, <b>Naeem Rashid</b> and M. Akhtar (2018) Structure and function of the type III pullulan hydrolase from <i>Thermococcus kodakarensis</i> . <i>Acta Cryst. D</i> <b>74</b> : 305-314. doi: 10.1107/S2059798318001754	16	5.699	148	W (Silver)
101	Tahira Bibi, Musadiq Ali, <b>Naeem Rashid*</b> , Majida Atta Muhammad and Muhammad Akhtar (2018) Enhancement of gene expression in <i>Escherichia coli</i> and characterization of highly stable ATP dependent glucokinase from <i>Pyrobaculum calidifontis</i> . <i>Extremophiles</i> <b>22</b> :247-257 <a href="https://doi.org/10.1007/s00792-017-0993-4">https://doi.org/10.1007/s00792-017-0993-4</a>	4	3.035	92	X (Clay)
100	Fatima Ahsan, Qurratulann Afza Gardner, <b>Naeem Rashid</b> , Greg J. Towers, Muhammad Akhtar* (2018) Preventing the N-terminal processing of	6	5.307	75	W (Bronze)

	human interferon $\alpha$ -2b and its chimeric derivatives expressed in <i>Escherichia coli</i> . Bioorganic Chemistry 76:294-302. doi: 10.1016/j.bioorg.2017.11.016				
99	Iram Aziz, <b>Naeem Rashid*</b> , Raza Ashraf, Masood Ahmed Siddiqui, Tadayuki Imanaka and Muhammad Akhtar (2018) Pcal_0632, a phosphorylating glyceraldehyde-3-phosphate dehydrogenase from <i>Pyrobaculum calidifontis</i> Extremophiles 22: 121-129 <a href="https://doi.org/10.1007/s00792-017-0982-7">https://doi.org/10.1007/s00792-017-0982-7</a>	1	3.035	92	X (Clay)
98	J. Guo, A. R. Coker, S. P. Wood, J. B. Cooper*, S. M. Chohan, <b>N. Rashid</b> and M. Akhtar (2017) Structure and function of the thermostable L-asparaginase from <i>Thermococcus kodakarensis</i> . Acta Cryst. <b>D73</b> : 889-895. <a href="https://doi.org/10.1107/S2059798317014711">https://doi.org/10.1107/S2059798317014711</a> .	32	5.699	148	W (Silver)
97	Raza Ashraf, <b>Naeem Rashid*</b> , Tamotsu Kanai, Tadayuki Imanaka and Muhammad Akhtar (2017) Pcal_1311, an alcohol dehydrogenase homologue from <i>Pyrobaculum calidifontis</i> , displays NADH dependent high aldehyde reductase activity Extremophiles 21(6):1101-1110 <a href="https://doi.org/10.1007/s00792-017-0970-y">https://doi.org/10.1007/s00792-017-0970-y</a>	2	3.035	92	X (Clay)
96	Sumera Perveen, <b>Naeem Rashid</b> , Xiao-Feng Tang, Tadayuki Imanaka and Anastassios C. Papageorgiou* (2017) Anthranilate phosphoribosyltransferase from the hyperthermophilic archaeon <i>Thermococcus kodakarensis</i> shows maximum activity with zinc and forms a unique dimeric structure. FEBS Open Bio 7: 1217-1230. doi: 10.1002/2211-5463.12264.	8	2.792	41	X (Clay)
95	Munir Ahmad, Qurratul Ann Afza Gardner, <b>Naeem Rashid</b> , Muhammad Akhtar* (2017) Designing structural-motifs for the preparation of acylated proinsulin and their regiospecific conversion into insulin modified at Lys <sup>29</sup> . Bioorganic Chemistry <b>73</b> : 147-153. doi: 10.1016/j.bioorg.2017.06.005	2	5.307	75	W (Bronze)
94	Raza Ashraf, Majida Atta Muhammad, <b>Naeem Rashid*</b> and Muhammad Akhtar (2017) Cloning	6	3.595	171	W (Bronze)

	and characterization of thermostable GroEL/GroES homologues from <i>Geobacillus thermopakistanensis</i> and their applications in protein folding. J. Biotechnol. <b>254</b> : 9-16. <a href="http://dx.doi.org/10.1016/j.jbiotec.2017.05.023">http://dx.doi.org/10.1016/j.jbiotec.2017.05.023</a> .				
93	Furqan Sabir, Muhammad Tayyab*, Bushra Muneer, Abu Saeed Hashmi, Ali Raza Awan, <b>Naeem Rashid</b> , Muhammad Wasim and Sehrish Firyal (2017) Characterization of recombinant thermostable phytase from <i>Thermotoga naphthophila</i> : a step for the fulfilment of domestic requirement of phytase in Pakistan. Pak. J. Zool. <b>49</b> : 1945-1951. DOI: <a href="http://dx.doi.org/10.17582/journal.pjz/2017.49.6.1945.1951">http://dx.doi.org/10.17582/journal.pjz/2017.49.6.1945.1951</a>	10	0.687	29	X (Null)
92	Majida Atta Muhammad, Samia Falak, <b>Naeem Rashid*</b> , Qurra-tul-Ann Afza Gardner, Nasir Ahmad, Tadayuki Imanaka and Muhammad Akhtar (2017) <i>Escherichia coli</i> signal peptidase recognizes and cleaves archaeal signal sequence. Biochemistry (Moscow) <b>82</b> : 821-825. DOI: <a href="https://doi.org/10.1134/S0006297917070070">10.1134/S0006297917070070</a>	3	2.824	89	X (Clay)
91	Jingxu Guo, Wenling Zhang, Alun R. Coker, Steve P. Wood, Jonathan B. Cooper*, Shazeel Ahmad Syed F. Ali, <b>Naeem Rashid</b> and Muhammad Akhtar (2017) Structure of the family B DNA polymerase from the hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> . Acta Cryst. <b>D73</b> : 420-427. <a href="https://doi.org/10.1107/S2059798317004090">https://doi.org/10.1107/S2059798317004090</a> .	5	5.699	148	W (Silver)
90	Saadia Basheer, <b>Naeem Rashid*</b> , Raza Ashraf Muhammad Sohail Akram, Masood Ahmed Siddiqui, Tadayuki Imanaka and Muhammad Akhtar (2017) Identification of a novel copper activated and halide tolerant laccase in <i>Geobacillus thermopakistanensis</i> . Extremophiles <b>21</b> : 563-571. DOI: <a href="https://doi.org/10.1007/s00792-017-0925-3">10.1007/s00792-017-0925-3</a>	16	3.035	92	X (Clay)
89	Iram Aziz, <b>Naeem Rashid*</b> , Raza Ashraf, Qamra Bashir, Tadayuki Imanaka and Muhammad Akhtar (2017) Pcal_0111, a highly thermostable bifunctional fructose-1,6-bisphosphate	4	3.035	92	X (Clay)

	aldolase/phosphatase from <i>Pyrobaculum calidifontis</i> . Extremophiles <b>21</b> : 513-521. DOI: 10.1007/s00792-017-0921-7				
88	N. Mills-Davies, D. Butler, E. Norton, D. Thompson, M. Sarwar, J. Guo, R. Gill, N. Azim, A. Coker, S. P. Wood, P. T. Erskine, L. Coates, J. B. Cooper*, <b>Naeem Rashid</b> , M. Akhtar and P. M. Shoolingin-Jordan (2017) Structural studies of substrate and product complexes of 5-aminolaevulinic acid dehydratase from humans, <i>Escherichia coli</i> and the hyperthermophile <i>Pyrobaculum calidifontis</i> . Acta Cryst. <b>D73</b> : 9–21. doi: 10.1107/S2059798316019525.	25	5.699	148	W (Silver)
87	Raza Ashraf, <b>Naeem Rashid*</b> , Saadia Basheer, Iram Aziz, and Muhammad Akhtar (2017) Glutathione-dependent formaldehyde dehydrogenase homologue from <i>Bacillus subtilis</i> strain R5 is a propanol preferring alcohol dehydrogenase. Biochemistry (Moscow) <b>82</b> : 13–23. doi: 10.1134/S0006297917010023.	3	2.824	89	X (Clay)
86	Ayesha Pervaiz, Barizah Malik*, <b>Naeem Rashid</b> (2017) Enhancing soluble gene expression of $\alpha$ amylase from <i>Bacillus licheniformis</i> and purification of recombinant protein. Advances in Life Sciences <b>7</b> : 5-10. DOI: 10.5923/j.als.20170701.02	0		10	
85	Shahid Mahmood Chohan, Muhammad Atif Nisar, <b>Naeem Rashid*</b> , Ghazaleh Gharib, Qamar Bashir and Masood Ahmed Siddiqui (2016) TK1656, an L-asparaginase from <i>Thermococcus kodakarensis</i> , a novel candidate for therapeutic applications. Biologia <b>71</b> : 1315–1319. <a href="https://doi.org/10.1515/biolog-2016-0168">https://doi.org/10.1515/biolog-2016-0168</a>	7	1.653	45	X (Clay)
84	Majida A Muhammad, Samia Falak, <b>Naeem Rashid*</b> , Nasir Ahmed, Qurra-tul-Ann A Gardner, Anam Tariq and Muhammad Akhtar (2017) Complete signal peptide of Tk1884, an $\alpha$ -amylase from <i>Thermococcus kodakarensis</i> , is not necessary for extracellular secretion of the enzyme by <i>Escherichia coli</i> . Amylase 1: 75-81.	2			

83	Sumera Perveen, <b>Naeem Rashid</b> and Anastassios C. Papageorgiou* (2016) Crystal structure of a phosphoribosyl anthranilate isomerase from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . Acta Cryst. <b>F72</b> : 804–812. doi:10.1107/S2053230X16015223	3	1.072	148	X (Null)
82	Saba Riaz*, Muhammad Faisal Bashir, Saleem Haider and <b>Naeem Rahid</b> (2016) Association of genotypes with viral load and biochemical markers in HCV-infected Sindhi patients. Braz. J. Microbiol. <b>47</b> : 980–986.	9	2.214	79	X (Null)
81	Tahira Bibi, Sumera Perveen, Iram Aziz, Qamar Bashir, <b>Naeem Rashid*</b> , Tadayuki Imanaka, Muhammad Akhtar (2016) Pcal_1127, a highly stable and efficient ribose-5-phosphate pyrophosphokinase from <i>Pyrobaculum calidifontis</i> Extremophiles <b>20</b> : 821–830. DOI:10.1007/s00792-016-0869-z	8	3.035	92	X (Clay)
80	Sumaira Mehboob, Nasir Ahmad, <b>Naeem Rashid*</b> , Tadayuki Imanaka, Muhammad Akhtar (2016) Pcal_0768, a hyperactive 4- $\alpha$ -glucanotransferase from <i>Pyrobaculum calidifontis</i> . Extremophiles <b>20</b> : 559–566. doi: 10.1007/s00792-016-0850-x	7	3.035	92	X (Clay)
79	Shahzada Nadeem Abbas, Kenneth Hun Mok, <b>Naeem Rashid</b> , Yongjing Xie, Manuel Ruether, John O 'Brien, and Muhammad Akhtar* (2016) NMR studies on mechanism of isomerisation of fructose 6-phosphate to glucose 6-phosphate catalysed by phosphoglucose isomerase from <i>Thermococcus kodakarensis</i> . Bioorganic Chemistry. <b>66</b> : 41–45. doi:10.1016/j.bioorg.2016.03.004	6	5.307	75	W (Bronze)
78	Ayesha Mazhar, Farrukh Jamil, Qamar Bashir, Munawar Saleem Ahmad, Misbah Masood, Imrana Tanvir, <b>Naeem Rashid</b> , Abdul Waheed, Muhammad Naveed Afzal, Muhammad Akram Tariq* (2016) Genetic variants in FGFR2 and TNRC9 genes are associated with breast cancer risk in Pakistani women. Mol. Med. Rep. <b>14</b> : 3443–3451. DOI: 10.3892/mmr.2016.5633	11	3.423	77	X (Clay)

77	Ghazaleh Gharib, <b>Naeem Rashid*</b> , Qamar Bashir Qurra-tul-Ann Afza Gardner, Muhammad Akhtar and Tadayuki Imanaka (2016) Pcal_1699, an extremely thermostable malate dehydrogenase from hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> . <i>Extremophiles</i> . <b>20</b> : 57–67. <a href="https://doi.org/10.1007/s00792-015-0797-3">10.1007/s00792-015-0797-3</a> .	20	3.035	92	X (Clay)
76	Amina Arif, <b>Naeem Rashid*</b> , Farheen Aslam, Nasir Mahmood and Muhammad Akhtar (2016) Biased expression, under the control of single promoter, of human interferon $\alpha$ -2b and <i>Escherichia coli</i> methionine amino peptidase genes in <i>E. coli</i> irrespective of their distance from the promoter. <i>Pak. J. Pharm. Sci.</i> <b>29</b> : 375–379.	2	0.863	45	Y (Null)
75	Amina Arif, Qura-tul-Ann Afza Gardner, <b>Naeem Rashid*</b> and Muhammad Akhtar (2015) Production of human interferon alpha-2b in <i>Escherichia coli</i> and removal of N-terminal methionine utilizing archaeal methionine aminopeptidase. <i>Biologia</i> <b>70</b> : 982–987. <a href="https://doi.org/10.1515/biolog-2015-0113">https://doi.org/10.1515/biolog-2015-0113</a>	8	1.653	45	X (Clay)
74	Nasir Ahmad, Sumaira Mehboob and <b>Naeem Rashid*</b> (2015) Starch-processing enzymes - emphasis on thermostable 4- $\alpha$ -glucanotransferases. <i>Biologia</i> <b>70</b> : 709–725. <a href="https://doi.org/10.1515/biolog-2015-0087">https://doi.org/10.1515/biolog-2015-0087</a>	15	1.653	45	X (Clay)
73	Muhammad Tayyab, <b>Naeem Rashid*</b> , Clement Angkawidjaja, Shigenori Kanaya, Muhammad Wasim, Ali Raza Awan, Sehrish Firyal, Tahir Yaqub and Masood Ahmed Siddiqui (2015) Hydrophobic interactions induced activation of a thermoalkalophilic lipase from <i>Geobacillus</i> SBS-4S by molecular dynamics simulations. <i>J. Chem. Soc. Pak.</i> <b>37</b> : 1030–1032.	0	0.698	26	Y (Null)
72	Masood Ahmed Siddiqui*, Habib-ur-Rehman and <b>Naeem Rashid</b> (2014) Gene Cloning and Characterization of a Type II pullulanase hydrolase from a hyperthermophilic archaeon, <i>Pyrobaculum calidifontis</i> . <i>Pak. J. Zool.</i> <b>46</b> :1077–1084.	9	0.687	29	X (Null)

71	Amina Arif, <b>Naeem Rashid*</b> , Nasir Mahmood and Muhammad Akhtar (2014) Expression of human interferon $\alpha$ -2b and <i>Escherichia coli</i> methionine aminopeptidase genes in a single host using two incompatible plasmids. Pak. J. Zool. <b>46</b> : 983–987.	0	0.687	29	X (Null)
70	Nakhshab Choudhry*, Sadia Mahmood, Muhammad Fahim ul Haq, Shama Akram, Sana Sarmad, Riffat Mehboob, <b>Naeem Rashid</b> (2014) Association of angiotensin-I converting enzyme with angiotensin-I converting enzyme gene insertion/deletion polymorphism in type 2 diabetic patients of Pakistan. HealthMED 8:1248-1253.				
69	Masood Ahmed Siddiqui, <b>Naeem Rashid</b> , Saravanaraj Ayyampalayam, and William Whitman (2014) Draft genome sequence of <i>Geobacillus thermopakistanensis</i> strain MAS1. Genome Announc <b>2</b> (3): e00559-14. pii:e00559-14 doi:10.1128/genomeA.00559-14.	17	1.4	0.3	Y (Null)
68	Fatima Ahsan, Amina Arif, Nasir Mahmood, Qurraatul Ann Afza Gardner, <b>Naeem Rashid</b> and Muhammad Akhtar* (2014) Characterization and bioassay of post-translationally modified interferon $\alpha$ -2b expressed in <i>Escherichia coli</i> . J. Biotechnol <b>184</b> : 11–16 <a href="https://doi.org/10.1016/j.jbiotec.2014.05.001">https://doi.org/10.1016/j.jbiotec.2014.05.001</a>	15	3.595	171	W (Bronze)
67	Anmbreen Jamroze, Giuseppe Perugini, Anna Valenti, <b>Naeem Rashid</b> , Mosè Rossi, Muhammad Akhtar and Maria Ciaramella* (2014) The reverse gyrase form <i>Pyrobaculum calidifontis</i> , a novel extremely thermophilic DNA topoisomerase endowed with DNA unwinding and annealing activities. J. Biol. Chem. <b>289</b> : 3231–3243. doi:10.1074/jbc.M113.517649.	21	5.486	544	W (Gold)
66	Shahzada Nadeem Abbas, <b>Naeem Rashid*</b> , Iran Aziz and Muhammad Akhtar (2013) Molecular cloning and characterization of TK1111, a cupin type phosphoglucose isomerase from <i>Thermococcus kodakarensis</i> . Turk. J. Biochem. <b>38</b>	1	0.401	19	Y (Null)

	438–444. doi: 10.5505/tjb.2013.41275				
65	Nasir Ahmad, <b>Naeem Rashid*</b> , Saleem Haider, Mehwish Akram and Muhammad Akhtar (2014) A novel maltotriose hydrolyzing thermo-acidophilic pullulan hydrolase type III from <i>Thermococcus kodakarensis</i> . <i>Appl. Environ. Microbiol.</i> 80 1108-1115. doi: 10.1128/AEM.03139-13	41	5.005	355	W (Silver)
64	Farheen Aslam, Qurra-tul Ann Afza Gardner, Hina Zain, Muhammad Shahid Nadeem, Muhammad Ali <b>Naeem Rashid</b> and Muhammad Akhtar* (2013) Studies on the expression and processing of human proinsulin derivatives encoded by different DNA constructs. <i>Biochim. Biophys. Acta</i> <b>1834</b> : 2116-2123. <a href="https://doi.org/10.1016/j.bbapap.2013.07.002">https://doi.org/10.1016/j.bbapap.2013.07.002</a>	11	3.036	182	W (Bronze)
63	Faisal Bashir, Saleem Haider, <b>Naeem Rashid</b> and Saba Riaz* (2013) Association of biochemical markers, hepatitis C virus and diabetes mellitus in Pakistani males. <i>Trop. J. Pharm. Res.</i> <b>12</b> : 845-850	11	0.533	44	Y (Null)
62	Faisal Bashir, Saleem Haider, <b>Naeem Rashid</b> and Saba Riaz* (2013) Core gene expression and association of genotypes with viral load in HCV infected patients of Punjab Pakistan. <i>Trop. J. Pharm. Res.</i> <b>12</b> : 335-341.	5	0.533	44	Y (Null)
61	Nouman Rasool, <b>Naeem Rashid*</b> , Qamar Bashir and Masood Ahmed Siddiqui (2013) Proteolytic inventory of <i>Thermococcus kodakaraensis</i> . <i>Afr. J. Microbiol. Res.</i> <b>7</b> : 3139-3150. <a href="https://doi.org/10.5897/AJMRx12.007">https://doi.org/10.5897/AJMRx12.007</a>	2	0.533	8	
60	Barizah Malik, <b>Naeem Rashid*</b> , Nasir Ahmad and Muhammad Akhtar (2013) <i>Escherichia coli</i> signal peptidase recognizes and cleaves the signal sequence of $\alpha$ -amylase originated from <i>Bacillus licheniformis</i> . <i>Biochemistry (Moscow)</i> <b>78</b> : 958-962 doi: 10.1134/S0006297913080142	8	2.824	89	X (Clay)
59	Masood Ahmed Siddiqui*, <b>Naeem Rashid</b> and Habib-ur-Rehman (2013) Truncated Type I	0	0.684	45	Y (Null)

	isopentenyl diphosphate isomerase from hyperthermophilic Archaeon <i>Thermococcus kodakaraensis</i> implicates the necessity of its N terminal amino acid residues in protein thermostability. Pak. J. Pharm. Sci. <b>26</b> : 733-740.				
58	Shahid Mahmood Chohan and <b>Naeem Rashid</b> (2013) TK1656, a thermostable L-asparaginase from <i>Thermococcus kodakaraensis</i> , exhibiting highest ever reported enzyme activity. <i>J. Biosci. Bioeng.</i> <b>116</b> : 438-443. DOI: 10.1016/j.jbiosc.2013.04.005	67	3.185	121	X (Clay)
57	Muhammad Tayyab, <b>Naeem Rashid*</b> , Clement Angkawidjaja, Shigenori Kanaya and Muhammad Akhtar (2013) Crystallization and X-ray diffraction analysis of thermo-alkalophilic lipase from <i>Geobacillus</i> SBS-4S. <i>Acta Cryst.</i> <b>F69</b> : 355-357. doi: 10.1107/S1744309113004910	1	1.056	148	X (Null)
56	M. Atif Nisar, <b>Naeem Rashid*</b> , Qamar Bashir, Qurat-ul-Ann Afza Gardner, M. Hassan Shafiq, and Muhammad Akhtar (2013) TK1299, a highly thermostable NAD(P)H oxidase from <i>Thermococcus kodakaraensis</i> exhibiting highest enzymatic activity with NADPH. <i>J. Biosci. Bioeng.</i> <b>116</b> : 39-44. doi: 10.1016/j.jbiosc.2013.01.020	1	3.185	121	X (Clay)
55	Ikram Ul Haq*, Mahmood Ali Khan, Bushra Muneer, Zahid Hussain, Sumra Afzal, Sana Majeed, <b>Naeem Rashid</b> , M. Mohsin Javed and Ishtiaq Ahmad (2012) Cloning, characterization and molecular docking of a highly thermostable $\beta$ -1,4-glucosidase from <i>Thermotoga petrophila</i> . <i>Biotechnol. Lett.</i> <b>34</b> : 1703-1709. doi: 10.1007/s10529-012-0953-0	26	2.461	114	X (Clay)
54	Kausar Malik*, Khalid Pervaiz Lone, Amjad Farooq, Asmat Ullah, Shagufta Andleeb, Muhammad Ali Talpur, <b>Naeem Rashid</b> , Nakhshab Choudhary and Khadija Awan (2012) Rapeseed meal feeding effects on total proteins and lipids of Japanese	2	0.533	8	

	Quail. <i>Afr. J. Microbiol. Res.</i> <b>6</b> : 5582-5586				
53	Muhammad Faisal Bashir, Muhammad Saleem Haider, <b>Naeem Rashid</b> and Saba Riaz* (2012) Distribution of hepatitis C virus (HCV) genotypes in different remote cities of Pakistan. <i>Afr. J. Microbiol. Res.</i> <b>6</b> : 4747-4751.	9	0.533	8	
52	Khalid Mahmood, Mateen Izhar, Nakhshab Choudhry, Ghulam Mujtaba and <b>Naeem Rashid</b> (2012) Emergence of Extended-spectrum $\beta$ lactamase producing <i>Salmonella typhi</i> in Pakistan. <i>Afr. J. Microbiol. Res.</i> <b>6</b> : 793-797.	9	0.533	8	
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50	<b>Naeem Rashid</b> *, Saira Hameed, Masood Ahmed Siddiqui and Ikram-ul-Haq (2011) Gene cloning and characterization of NADH oxidase from <i>Thermococcus kodakarensis</i> . <i>Afr. J. Biotech.</i> <b>10</b> : 17916-17924.	4	0.573	?	
49	Muhammad Shahid Nadeem, <b>Naeem Rashid</b> * Muzaffar Iqbal, Qurra-tul-Ann Afza Gardner and Muhammad Akhtar (2011) First cloning and characterization of aspartate aminotransferase from river buffalo ( <i>Bubalus bubalis</i> ). <i>Biologia</i> <b>66</b> : 1202-1210. <a href="https://doi.org/10.2478/s11756-011-0125-z">https://doi.org/10.2478/s11756-011-0125-z</a>	5	1.653	45	X (Clay)
48	Syed Farhat Ali, <b>Naeem Rashid</b> *, Tadayuki Imanaka and Mohammad Akhtar (2011) Family B DNA polymerase from a hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> : cloning, characterization and PCR application. <i>J. Biosci. Bioeng.</i> <b>112</b> : 118-123. doi:10.1016/j.jbiosc.2011.03.018	9	3.185	121	X (Clay)

47	<b>Naeem Rashid*</b> , Saira Akmal, and Muhammad Akhtar (2011) Gene Cloning and Characterization of TK1392, an NADH oxidase from <i>Thermococcus kodakaraensis</i> with a distinct C-terminal domain. <i>Turk. J. Biochem.</i> <b>36</b> : 107-115. DOI: 10.5897/AJB11.989	3	0.274	19	Y (Null)
46	Nouman Rasool, <b>Naeem Rashid*</b> , Muhammad Arshad Javed and M. Saleem Haider (2011) Requirement of pro-peptide in proper folding of subtilisin-like serine protease TK0076. <i>Pak. J. Bot.</i> <b>43</b> : 2059-2065.	2	0.972	67	X (Clay)
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43	Muhammad Tayyab, <b>Naeem Rashid*</b> , Clement Angkawidjaja, Shigenori Kanaya and Muhammad Akhtar (2011) Highly active metallopeptidase from newly isolated <i>Geobacillus</i> strain SBS-4S: cloning and characterization. <i>J. Biosci. Bioeng.</i> <b>111</b> : 259-265. doi: 10.1016/j.jbiosc.2010.11.002	10	3.185	121	X (Clay)
42	Amir Jalal, <b>Naeem Rashid*</b> , Nasir Ahmed, Saima Iftikhar and Muhammad Akhtar (2011) <i>Escherichia coli</i> signal peptidase recognizes and cleaves the signal sequence of xylanase from a newly isolated <i>Bacillus subtilis</i> strain R5. <i>Biochemistry (Moscow)</i> <b>76</b> : 347-349. doi: 10.1134/s0006297911030084	10	2.824	89	X (Clay)

41	Farrukh Jamil, <b>Naeem Rashid*</b> , Qurra-tul-Ann Afza Gardner and Muhammad Akhtar (2011) Gene cloning and characterization of glycine oxidase from newly isolated <i>Bacillus subtilis</i> strain R5. <i>Biologia</i> <b>66</b> :1-7. <a href="https://doi.org/10.2478/s11756-010-0141-4">https://doi.org/10.2478/s11756-010-0141-4</a>	1	1.653	45	X (Clay)
40	Hooria Younas, Qurra-tul-Ann Afza Gardner <b>Naeem Rashid</b> , J. Neville Wright and Muhammad Akhtar* (2011) Conformational transmission in proinsulin and its derivatives: A study using H/D exchange. <i>Int. J. Mass Spectrom.</i> <b>302</b> : 36-43 <a href="https://doi.org/10.1016/j.ijms.2010.07.020">https://doi.org/10.1016/j.ijms.2010.07.020</a>	2	1.986	120	X (Clay)
39	Farrukh Jamil, Qurra-tul-Ann Afza Gardner, Qama Bashir, <b>Naeem Rashid</b> and Muhammad Akhtar (2010) Mechanistic and stereochemical studies of glycine oxidase from <i>Bacillus subtilis</i> strain R5. <i>Biochemistry</i> <b>49</b> : 7377-7383. doi: 10.1021/bi100553n	10	3.162	269	W (Bronze)
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36	<b>Naeem Rashid*</b> , Nasir Ahmed, M. Saleem Haider and Ikram ul Haque (2010) Effective solubilization and single-step purification of <i>Bacillus licheniformis</i> $\alpha$ -amylase from insoluble aggregates. <i>Folia Microbiologica</i> <b>55</b> : 133-136. doi: 10.1007/s12223-010-0020-y.	6	2.629	56	X (honorable Mention)
35	A. Bowyer, H. Mikolajek, J.W. Stuart, S.P. Wood, Farrukh Jamil, <b>Naeem Rashid</b> , Muhammad Akhtar	31	3.324	156	W (Bronze)

	and J.B. Cooper* (2009) Structure and function of the L-threonine dehydrogenase (TkTDH) from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . <i>J. Struct. Biol.</i> <b>168</b> : 294-304. doi: 10.1016/j.jsb.2009.07.011.				
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33	Qamar Bashir, <b>Naeem Rashid*</b> , Farrukh Jamil, Tadayuki Imanaka and Muhammad Akhtar (2009) Highly thermostable L-threonine dehydrogenase from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . <i>J. Biochem.</i> <b>146</b> : 95-102. doi: 10.1093/jb/mvp051	24	3.241	124	X (Clay)
32	Qurra-tul-Ann Afza Gardner, Hooria Younas, <b>Naeem Rashid</b> , J. Neville Wright and Muhammad Akhtar* (2009) Inventory of 'slow exchanging' hydrogen atoms in human proinsulin and its derivatives: observations on the mass spectrometric analysis of deuterio-proteins in D <sub>2</sub> O. <i>Biochim. Biophys. Acta</i> <b>1794</b> : 1224-1233. doi: 10.1016/j.bbapap.2009.03.007	5	4.125	182	W (Bronze)
31	Azad Hussain Shah*, <b>Naeem Rashid</b> , Muhammad Saleem Haider, Faiza Saleem, Muhammad Tahira and Javed Iqbal (2009) An efficient, short and cost-effective regeneration system for transformation studies of sugar cane ( <i>Saccharum officinarum</i> L). <i>Pak. J. Bot.</i> <b>41</b> : 609-614.	23	1.101	67	X (Clay)
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29	M. Saleem Haider*, Muhammad Tahir, Ahlam Saeed, Shakeel Ahmed, Rashida Parveen and <b>Naeem Rashid</b> (2008) First report of a begomovirus infecting the ornamental plant <i>Vincetoxicum minor</i> L. <i>Australas. Plant Dis. Notes</i> <b>3</b> : 150–151.	7	0.3	17	X (Null)
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27	A. Bowyer, H. Mikolajek, J. N. Wright, A. Coker, P. T. Erskine, Jhon B. Cooper*, Qamar Bashir, <b>Naeem Rashid</b> , Farrukh Jamil and Muhammad Akhtar (2008) Crystallization and preliminary X-ray diffraction analysis of L-threonine dehydrogenase (TDH) from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . <i>Acta Cryst.</i> <b>F64</b> : 828-830. doi: 10.1107/S1744309108025384	4	1.073	142	X (Null)
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25	Qamar Bashir, <b>Naeem Rashid</b> and Muhammad Akhtar* (2006) Mechanism and substrate stereochemistry of 2-amino-3-oxobutyrate CoA ligase: implications for 5-aminolevulinate synthase and related enzymes. <i>Chem. Commun.</i> <b>48</b> : 5065-5067. doi: 10.1039/b609925d	9	6.065	348	W (Silver)
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21	Shahid Afghan*, Muhammad Saleem Haider, Azad Hussain Shah, <b>Naeem Rashid</b> , Javed Iqbal, Muhammad Tahir and Muhammad Akhtar. (2005) Detection of genetic diversity among sugarcane ( <i>Saccharum</i> sp.) genotypes using Random Amplified Polymorphic DNA markers. <i>Sugar Cane Int.</i> <b>23</b> : 17-21.	19		21	
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15	<b>Naeem Rashid</b> , Joel Cornista, Satoshi Ezaki, Toshiaki Fukui, Haruyuki Atomi and Tadayuki Imanaka* (2002) Characterization of an archaeal cyclodextrin glucanotransferase with a novel C-terminal domain. <i>J. Bacteriol.</i> <b>184</b> :777-784. doi: 10.1128/JB.184.3.777-784.2002.	78	3.476	265	W (Bronze)
14	<b>Naeem Rashid</b> , Yuji Shimada, Satoshi Ezaki, Haruyuki Atomi and Tadayuki Imanaka* (2001) Low-temperature lipase from a psychrotrophic <i>Pseudomonas</i> sp. strain KB700A. <i>Appl. Environ. Microbiol.</i> <b>67</b> : 4064-4069. doi: 10.1128/AEM.67.9.4064-4069.2001	310	5.005	355	W (Silver)
13	<b>Naeem Rashid</b> , Masaaki Morikawa, Shigenori Kanaya, Haruyuki Atomi, and Tadayuki Imanaka (2001) RecA/Rad51 homologue from <i>Thermococcus kodakaraensis</i> KOD1. <i>Methods Enzymol.</i> <b>334</b> : 261-270. doi: 10.1016/s0076-6879(01)34474-9	27	1.682	177	Y (Null)
12	Kazuaki Harata, Noriyuki Ishii, <b>Naeem Rashid</b> , Masaaki Morikawa, and Tadayuki Imanaka* (2000) Crystallization and preliminary X-Ray study of Pk REC from hyperthermophilic archaeon, <i>Pyrococcus kodakaraensis</i> KOD1. <i>Acta Cryst.</i> <b>D56</b> :648-649. doi: 10.1107/s0907444900002821	4	5.699	142	W (Silver)

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9	Fouad Al-Momani*, <b>Naeem Rashid</b> and Sheikh Riazuddin (1998) Occurrence and distribution of crown gall disease in some plants of Pakistan. <i>Bangl. J. Bot.</i> <b>27</b> : 47-50.	1	0.339	20	Y (Null)
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7	<b>Naeem Rashid</b> , Masaaki Morikawa, Keisuke Nagahisa, Shigenori Kanaya, and Tadayuki Imanaka* (1997) Characterization of a RecA/RAD51 homologue from the hyperthermophilic archaeon <i>Pyrococcus</i> sp. KOD1. <i>Nucleic Acids Res.</i> <b>25</b> : 719-726. doi: 10.1093/nar/25.4.719	34	19.16	607	W (Platinum)
6	<b>Naeem Rashid</b> (1997) A hyperthermophilic archaeon speaks. <i>Tanpakushitsu Kakusan Koso. Protein, Nucleic Acid and Enzyme</i> <b>42</b> : 1903-1907.	0	0.14	214	
5	<b>Naeem Rashid</b> , Masaaki Morikawa, and Tadayuki Imanaka* (1996) A RecA/RAD51 homologue from a hyperthermophilic archaeon retains the major RecA domain only. <i>Mol. Genet. Genomics</i> <b>253</b> : 397-400	44	2.98	129	X (Clay)

	doi: 10.1007/s004380050337				
4	<b>Naeem Rashid</b> , Masaaki Morikawa, and Tadayuk Imanaka* (1995) An abnormally acidic TATA binding protein from a hyperthermophilic archaeon <i>Gene</i> <b>166</b> : 139-143. doi: 10.1016/0378-1119(95)00603-2	34	3.688	188	W (Honorable Mention)
3	Masaaki Morikawa, Yoshifumi Izawa, <b>Naeem Rashid</b> , Toshihiro Hoaki, and Tadayuki Imanaka (1994) Purification and characterization of a thermostable thiol protease from a newly isolated hyperthermophilic <i>Pyrococcus</i> sp. <i>Appl. Environ. Microbiol.</i> <b>60</b> : 4559-4566. doi: 10.1128/aem.60.12.4559-4566.1994	324	5.005	355	W (Silver)
2	<b>Naeem Rashid*</b> , Masaaki Morikawa, and Tadayuk Imanaka (1994) Cloning and analysis of 16S-rRNA gene and transcription factor (TF) IID gene from a hyperthermophilic archaeon strain KOD1. <i>Annu. Rep. ICBiotech.</i> <b>17</b> : 255-270.	0	0		
1	<b>Naeem Rashid</b> , Fouad al-Momani* and Sheikh Riazuddin (1994) Isolation and characterization of <i>Agrobacterium</i> isolates from plant tumors collected from different regions of Pakistan. <i>Pak. J. Agr. Res.</i> <b>15</b> : 266-271.	0	0.609	7	Y (Null)

**Total Citations:** 3125  
**Total Impact Factor:** 557.378  
**First/Corresponding author Publications:** 104

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 Thermophiles and thermost...

**Cited by**

	All	Since 2020
Citations	3125	1362
h-index	27	17
i10-index	79	41

**Publications:**

TITLE	CITED BY	YEAR
Purification and characterization of a thermostable thiol protease from a newly isolated hyperthermophilic <i>Pyrococcus</i> sp	332	1994
Low-Temperature Lipase from Psychrotrophic <i>Pseudomonas</i> sp. Strain KB700A	313	2001
Genetic Evidence Identifying the True Gluconogenic Fructose-1,6-Bisphosphatase in	118	2004

**Bar Chart Data (Citations per Year):**

Year	Citations
2018	~140
2019	~140
2020	~280
2021	~210
2022	~210
2023	~210
2024	~210
2025	~140

## **Publications in Proceedings:**

- 1)** Muhammad Saleem Haider, Muhammad Tahir, Ahlam Saeed, Azad Hussain Shah, Naeem Rashid, Muhammad Arshad Javed and Javed Iqbal. Vinca minor: another host of a tomato infecting begomovirus in Pakistan. African Crop Science Conference Proceedings, **8**: 905-907 (2007).
- 2)** Haruyuki Atomi, Takaaki Sato, Hiroyuki Imanaka, Wakao Fukuda, **Naeem Rashid**, Toshiaki Fukui and Tadayuki Imanaka. Biochemical and genetic analyses on enzymes involved in central carbon metabolism in the hyperthermophilic archaeon, *Thermococcus kodakaraensis*. Proceedings of the International Symposium on Extremophiles and Their Applications. Tokyo University, Tokyo, Japan. November-December 2005.
- 3)** Toshiaki Fukui, **Naeem Rashid**, Hiroyuki Imanaka, Tamotsu Kanai, Haruyuki Atomi, and Tadayuki Imanaka. Genome analysis of *Thermococcus kodakaraensis* KOD1 and isolation of novel fructose 1,6-bisphosphatase. Proceedings of the 15<sup>th</sup> Annual Meeting of Japan Society of Archaea, Hamamatsu, Shizuoka, Japan. July 2002.
- 4)** **Naeem Rashid**, Haruyuki Atomi and Tadayuki Imanaka. (2000) Subterranean environment: a promising source for the isolation of psychrotrophs. Proceedings of the Fifth International Symposium on Environmental Biotechnology, Kyoto, Japan. July 9-13, 2000.