

BIO-DATA

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2. Institution: Department of Biotechnology, Indian Institute of Technology, Roorkee
3. Date of Birth: 01-03-1973
4. Gender (M/F/T): Male
5. Category Gen/SC/ST/OBC: Gen
6. Whether differently abled (Yes/No): No
7. Whether differently abled (Yes/No) : No

8. Academic Qualification (Undergraduate Onwards)

Degree	Year	Subject	University/ Institution	% of marks
B.Sc.	1993	Physics, Chemistry, Maths	Meerut University	First Class
M.Sc.	1995	Physics	C.C.S. Uni. Meerut	First Class
Ph.D.	2001	Biophysics	A.I.I.M.S. Delhi	Best Ph.D. award (Gold medal)

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.
Ph.D thesis Title "Three Dimensional Structure Determination of Lactoferrin"
Guide's Name: Professor T. P. Singh
Institution: (Biophysics): Department of Biophysics, AIIMS, India
Degree awarded in year 2001

10. Work experience (in chronological order).

S.No.	Positions held	Name of Institution	From	To	Pay Scale
1.	Senior Demonstrator	A.I.I.M.S.	Sep 1996	Sep 1999	
2.	Senior Research Fellow (C.S.I.R. SRF)	A.I.I.M.S.	Sep 1999	Dec 2001	
3.	Post-Doc	Purdue University	Dec13, 2001	Nov.30, 2005	
4.	Research Associate	Purdue	Dec1, 2004	Nov. 20, 2005	

		University			
5.	Assistant Professor	Indian Institute of Technology, Roorkee	Nov., 2005	Oct 2012	PB3 (Rs.15,600 - 39,100) Rs. 8,000/- AGP
6.	Associate Professor	Indian Institute of Technology, Roorkee	23 Oct, 2012	Present	PB4 (Rs.37400 - 67000) Rs. 9,500/- AGP

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No.	Name of Award	Awarding Agency	Year
1.	S.V. Talekar Medal for best Post graduate degree	AIIMS	2001
2.	Senior Research Fellowship	CSIR, Govt. of India	1999-2001
3.	Visiting Scientist	Purdue University, USA	2006
4.	BOYSCAST Award	DST, Govt. of India	2008
5.	IUSTF Award		2014
6.	National Biosciences Award	DBT, Govt. of India	2016
7.	ASM Professorship Award	American society of Microbiology and Indo-US forum	2017

12. Publications (List of papers published in SCI Journals, in year wise descending order).

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Pratap S, Dev A, Sharma V, Yadav R, Narwal M, Tomar S, Kumar P	Structure of Chorismate Mutase-like Domain of DAHPS from <i>Bacillus subtilis</i> Complexed with Novel Inhibitor Reveals Conformational Plasticity of Active Site	<i>Scientific Reports</i>	7	6364-78	2017
2.	Kumar P, Kesari P, Dhindwal S, Choudhary A.K., Katiki M, Neetu, Verma A, Ambatipudi K, Tomar S, Sharma A.K., Mishra G, Kumar P	A novel function for globulin in sequestering plant hormone: Crystal structure of <i>Wrightia tinctoria</i> 11S globulin in complex with auxin	<i>Scientific Reports</i>	7	4705-15	2017

3.	Singh N, Dalal V, Mahto JK, Kumar P	Biodegradation of phthalic acid esters (PAEs) and in silico structural characterization of mono-2-ethylhexyl phthalate (MEHP) hydrolase on the basis of close structural homolog	<i>J Hazard Mater.</i>	338	11-22	2017
4.	Sharma A, Kumar P, Kesari P, Chaudhary N, Katiki M, Mishra M, Singh PK, Gurjar, BR, Sharma AK, Tomar S, Kumar P	Purification and Characterization of 2S albumin from seeds of <i>Wrightia tinctoria</i> exhibiting Antibacterial and DNase Activity	<i>Protein Pept Lett.</i>	4	368 – 378	2017
5.	Pratap S, Kesari, P, Yadav R, Dev A, Narwal M & Kumar P	Acyl chain preference and inhibitor identification of <i>Moraxella catarrhalis</i> LpxA: Insight through crystal structure and computational studies	<i>Int J Biol Macromol.</i>	96	759-765	2017
6.	Dhindwal S., Kesari P., Singh H., Kumar P. , Tomar S.	Conformer and Pharmacophore Based Identification of Peptidomimetic Inhibitors of Chikungunya Virus nsP2 Protease	<i>J. of Biomol. Stru. & Dyn.</i>	2	1-18	2016
7.	Kesari P, Chaudhary N, Sharma A, Katiki M, Kumar P, Gurjar BR, Tomar S, Sharma AK, Kumar P	Structural, Functional and Evolutionary Aspects of Seed Globulins	<i>Protein Pept Lett.</i>	24 (3)	267-277	2016

8.	Sharma R, Fatma B, Saha A, Bajpai S, Sistla S, Dash PK, Parida M, Kumar P , Tomar S.	Inhibition of chikungunya virus by picolinate that targets viral capsid protein	<i>Virology</i>	498	265-276	2016
9.	Batra M, Sharma R, Malik A, Dhindwal S, Kumar P , Tomar S.	Crystal structure of pentapeptide-independent chemotaxis receptor methyltransferase (CheR) reveals idiosyncratic structural determinants for receptor recognition	<i>J Struct Biol.</i>	196(3)	364-374	2016
10.	Dhindwal S, Gomez-Gil L, Neau DB, Pham TT, Sylvestre M, Eltis LD, Bolin JT, Kumar P .	The structural basis of the enhanced pollutant-degrading capabilities of an engineered biphenyl dioxygenase.	<i>J Bacteriol.</i>	198(10)	1499-512	2016
11.	Mukhi N, Dhindwal S, Uppal S, Kapoor A, Arya R, Kumar P , Kaur J, Kundu S.	Structural and Functional Significance of the N- and C-Terminal Appendages in Arabidopsis Truncated Hemoglobin	<i>Biochemistry</i>	55(12)	1724-40	2016
12.	Tomar JS, Narwal M, Kumar P , Peddinti RK	Characterization of substrate binding and enzymatic removal of a 3-methyladenine lesion from genomic DNA with TAG of MDR A. baumannii	<i>Mol Biosyst.</i>	12(11)	3259-3265	2016

13.	Pratap S, Katiki M, Gill P, Kumar P* , Golemi-Kotra D	Active-Site Plasticity is Essential to Carbapenem Hydrolysis by OXA-58 Class D β -Lactamase of <i>Acinetobacter baumannii</i>	<i>Antimicrob Agents Chemother.</i>	60(1)	75-86	2015
14.	Kesari P, Patil DN, Kumar P, Tomar S, Sharma AK, Kumar P.	Structural and functional evolution of chitinase- like- proteins from plants	<i>Proteomics</i>	15(10)	1693-705	2015
15.	Dhindwal S, Priyadarshini P, Patil DN, Tapas S, Kumar P, Tomar S, Kumar P.	Ligand-bound structures of 3-deoxy-D-manno octulosonate 8-phosphate phosphatase from <i>Moraxella catarrhalis</i> reveal a water channel connecting the active site for the second step of catalysis	<i>Acta Crystallogr D Biol Crystallogr.</i>	71(Pt 2)	239-55	2015
16.	Sharma N, Selvakumar P, Bhose S, Ghosh DK, Kumar P , Sharma AK.	Crystal structure of a periplasmic solute binding protein in metal-free, intermediate and metal-bound states from <i>Candidatus Liberibacter asiaticus</i>	<i>J. Struct Biol.</i>	189(3)	184-94	2015
17.	Aggarwal M, Dhindwal S, Kumar P , Kuhn RJ, Tomar S.	) trans-Protease activity and structural insights into the active form of the alphavirus capsid protease	<i>J Virol.</i>	88(21)	12242-53	2014
18.	Selvakumar P, Sharma N, Tomar PP, Kumar P , Sharma AK.	Structural insights into the aggregation behavior of <i>Murraya koenigii</i> miraculin-like protein below pH 7.5.	<i>Proteins</i>	82(5)	830-40	2013

19.	Dev, A., Bodra, N. Kumar, P., Pratap, S, Kumar, P.	Homology modeling and functional characterization of three-dimensional structure of DAHP Synthase from <i>Brachypodium distachyon</i>	<i>J. Proteins Proteom</i>	4(1)		2013
20.	Patil DN, Datta M, Dev A, Dhindwal S, Singh N, Dasauni P, Kundu S, Sharma AK, Tomar S, Kumar P.	Structural Investigation of a Novel N-Acetyl Glucosamine Binding Chi-Lectin Which Reveals Evolutionary Relationship with Class III Chitinases	<i>PLoS One</i>	8(5)	e63779	2013
21.	Mukhi N, Dhindwal S, Uppal S, Kumar P , Kaur J, Kundu S.	X-Ray crystallographic structural characteristics of Arabidopsis hemoglobin I and their functional implications	<i>Biochim Biophys Acta.</i>	1834(9)	1944-56	2013
22.	Preeti, Tapas S, Kumar P , Madhubala R, Tomar S.	Structural insight into DFMO resistant ornithine decarboxylase from <i>Entamoeba histolytica</i> : an inkling to adaptive evolution	<i>PLoS One</i>	8 (1)	e53397	2013
23.	Colbert CL ¹ , Agar NY ¹ , Kumar P¹ , Chakko MN, Sinha SC, Powlowski JB, Eltis LD, Bolin JT	Structural characterization of Pandoraea pnomenusa B-356 biphenyl dioxygenase reveals features of potent polychlorinated biphenyl-degrading enzymes	<i>PLoS One</i>	8(1)	e52550	2013

24.	Aggarwal M, Tapas S, Preeti, Siwach A, Kumar P , Kuhn RJ, Tomar S.	Crystal structure of aura virus capsid protease and its complex with dioxane: new insights into capsid-glycoprotein molecular contacts.	<i>PLoS One</i>	7(12)	e51288	2012
25.	Patil, D.N., Chaudhry, A., Sharma, A.K., Tomar, S., Kumar, P.	Structural basis for dual inhibitory role of tamarind Kunitz inhibitor (TKI) against factor Xa and trypsin.	<i>FEBS J</i>	279(24)	4547-64	2012
26.	Kumar, P., Patil, D.N., Chaudhary, A., Tomar, S., Yernool, D., Singh, N., Dasauni, P., Kundu, S., & Kumar, P.	Purification and biophysical characterization of 11S globulin from <i>Wrightia tinctoria</i> exhibiting hemagglutinating activity	<i>Protein & peptide letters</i>	20(5)	499-509	2012
27.	Kumar P , Mohammadi M, Dhindwal S., Bolin JT & Sylvestre M.	Structural insights into the metabolism of 2-chlorodibenzofuran by an evolved biphenyl dioxygenase	<i>BBRC</i>	421(4)	757-62	2012
28.	Pratap S, Narwal M, Dev A, Dhindwal S, Tomar S, Kumar P	Crimean- Congo hemorrhagic fever virus: Strategies to combat with an emerging threat to human	<i>Current Bioinformatics</i>	7 (4)	466-477	2012
29.	Kumar, P. , Mohammadi, M., Viger, J.F., Barriault, D., Gomez-Gil, L., Eltis, L.D., Bolin J.T. & Sylvestre M	Structural Insight into the Expanded PCB-Degrading Abilities of a Biphenyl Dioxygenase Obtained by Directed Evolution	<i>J Mol Biol.</i>	405(2)	531-47	2011
30.	Dev, A., Tapas, S., Pratap, S., Kumar, P.	Structure and Function of Enzymes of Shikimate Pathway	<i>Current Bioinformatics</i>	7 (4)	374-391	2012

31.	Preeti, Tapas S, Kumar P , Madhubala R, Tomar S.	Biochemical, Mutational and In Silico Structural Evidence for Functional Dimeric Form of the Ornithine Decarboxylase from <i>Entamoeba histolytica</i>	<i>PLoS Negl Trop Dis.</i>	6(2)	e1559	2012
32.	Narayanan A, Paul LN, Tomar S, Patil DN, Kumar P , Yernool DA.	Structure-function studies of DNA binding domain of response regulator KdpE reveals equal affinity interactions at DNA half-sites	<i>PLoS One</i>	7(1)	e30102	2012
33.	Aggarwal, M., Dhindwal, S., Pratap, S., Kuhn, R.J., Kumar P. , & Tomar, S.	Crystallization, high- resolution data collection and preliminary crystallographic analysis of Aura virus capsid protease and its complex with dioxane	<i>Acta Cryst. F</i>	67	1394-1398	2011
34.	Bhattacharya, S., & Kumar, P.	An insilico approach to structural elucidation of 3-deoxy-d arabino-heptulosonate 7-phosphate synthase from <i>Arabidopsis thaliana</i> : Hints for herbicide design	<i>Phytochemistry</i>	73(1)	7-14	2011
35.	Dhindwal, S., Patil, D.N., Mohammadi, M., Sylvestre, M., Tomar, S., Kumar, P.	Biochemical studies and ligand bound structures of biphenyl dehydrogenase from <i>Pandoraea pnomenusa</i> strain B-356 reveal a basis for broad specificity of the enzyme	<i>J Biol Chem.</i>	286(42)	37011-22	2011

36.	Tapas, S., Kumar, A., Dhindwal, S., Preeti, Kumar, P.	Structural analysis of chorismate synthase from Plasmodium falciparum: A novel target for antimalaria drug discovery	<i>Int J Biol Macromol.</i>	49(4)	767-77	2011
37.	Mohammadi, M.†, Viger, J.F.,†, Kumar, P. ,†, Barriault, D., Bolin, J.T., & Sylvestre, M.	Fine tuning Rieske - type oxygenases reactive atoms to expand their substrate range.	<i>J. Biol. Chem.</i>	286(31)	27612-21	2011
38.	Kumar, P. , Mohammadi, M., Viger, J.F., Barriault, D., Gomez-Gil, L., Eltis, L.D., Bolin J.T. & Sylvestre M	Structural Insight into the Expanded PCB-Degrading Abilities of a Biphenyl Dioxygenase Obtained by Directed Evolution	<i>J Mol Biol.</i>	405(2)	531-47	2011
39.	Kumar, P. , Gómez-Gil, L., Mohammadi, M., Sylvestre, M., Eltis, L.D. & Bolin, J.T.	Anaerobic crystallization and initial X-ray diffraction data of biphenyl 2,3-dioxygenase from Burkholderia xenovorans LB400: addition of agarose improved the quality of the crystals	<i>Acta Crystallogr Sect F</i>	67	59-62	2011
40.	Sakshi, Patil, D.N., Tomar, S., Sylvestre, M., & Kumar, P.	Expression, purification, crystallization and preliminary crystallographic studies of cis-biphenyl-2,3-dihydrodiol-2,3-dehydrogenase from Pandoraea pnomenusa B-356	<i>Acta Crystallogr Sect F</i>	66	1517-20	2010
41.	Gahloth, D., Selvakumar, P., Shee, C., Kumar, P* , Sharma., A.K.	Cloning, sequence analysis and crystal structure determination of a miraculin-like protein from <i>Murraya koenigii</i>	<i>Arch Biochem Biophys.</i>	494(1)	15-22	2010

42.	Tomar, S., Patil, D.N., Datta, M., Tapas, S., Preeti, Chaudhary, A., Sharma, A.K., Tomar, S., Kumar, P.	Crystallization and preliminary X-ray diffraction analysis of the complex of Kunitz-type tamarind trypsin inhibitor and porcine pancreatic trypsin	<i>Acta Crystallogr Sect F Struct Biol Cryst Commun</i>	65(Pt 11)	1179-81	2009
43.	Patil, D.N., Datta, M., Chaudhary, A., Tomar, S., Sharma, A.K. & Kumar, P.	Isolation, purification, crystallization and preliminary crystallographic studies of chitinase from tamarind (<i>Tamarindus indica</i>) seeds	<i>. Acta Crystallogr Sect F Struct Biol Cryst Commun</i>	65(Pt 4)	343-5	2009
44.	Patil, D.N., Preeti, Chaudhry, A., Sharma, A.K., Tomar, S., Kumar, P.	Purification, crystallization and preliminary crystallographic studies of a Kunitz-type proteinase inhibitor from tamarind (<i>Tamarindus indica</i>) seeds.	<i>Acta Crystallogr Sect F Struct Biol Cryst Commun</i>	65(Pt 7)	736-8	2009
45.	Nath, M., Kumar, P. , & Sulaxna.	Structural Investigation of (5-Amino-1,3,4-thiadiazolyl-2-thionato)trimethyl tin(IV): 1D Chains Generated by Hydrogen Bonding.	<i>SPECTROSCOPY LETTERS</i>	42	268-273	2009
46.	Nath, M., Singh, H., Kumar, P. , Kumar, A., Song, X. and Eng, G.	Organotin(IV) tryptophanylglycinate: potential non-steroidal antiinflammatory agents; crystal structure of dibutyltin(IV) tryptophanylglycinate	<i>Applied Organometallic Chemistry</i>	23	347-358	2009

47.	Chaudhary, N.S., Shee, C., Islam, A., Ahmad, F., Yernool, D., Kumar, P. & Sharma, A.K.	Purification and characterizati on of a trypsin inhibitor from Putranjiva roxburghii seeds	<i>Phytochemistry</i>	69(11)	2120-6	2008
48.	Shee, C., Singh, T.P., Kumar, P. & Sharma, A.K.	Crystallization and preliminary X-ray diffraction studies of <i>Murraya</i> <i>koenigii</i> trypsin inhibitor	<i>Acta Crystallogr</i> <i>Sect F Struct</i> <i>Biol Cryst</i> <i>Commun</i>	63(Pt 4)	3-918	2007
49.	Horsman, G.P., Bhowmik, S., Seah, S.Y., Kumar, P. , Bolin, J.T. & Eltis, L.D.	The tautomeric half-reaction of BphD, a C-C bond hydrolase. Kinetic and structural evidence supporti ng a key role for histidine 265 of the catalytic triad	<i>J Biol Chem</i>	282(27)	19894-904	2007
50.	Gomez-Gil L., Kumar, P. , Barriault, D., Bolin, J.T., Sylvestre, M. & Eltis, L.D.	Characterization of biphenyl dioxygen ase of <i>Pandoraea</i> <i>pnomenusa</i> B-356 as a potentpolychlorin ated biphenyl- degrading enzyme	<i>J Bacteriol.</i>	189(15)	5705-15	2007
51.	Dey, S., Vijayaraghavan, R., Goel, V.K., Kumar, S., Kumar, P. & Singh, T.P.	Design of a model peptide with a, b- dehydro-residues: Synthesis of Boc- Ile- DAla- OCH ₃ and its crystal structures obtained from two different solvents	<i>J. Mol. Struct.</i>	737	27-3	2004
52.	Vijayaraghavan, R., Makker, J., Kumar, P. , Dey, S., Singh, T. P.	Crystal structure of Boc-Trp (CHO) - ΔPhe-Ile-ΔPhe- Leu-OCH ₃ , C ₄₈ H ₅₉ N ₆ O ₁₀	<i>Zeitschrift fuer</i> <i>Kristallographie</i> - New Crystal Structures	218(1)	52-54	2003
53.	Makker, J., Dey, S., Kumar, P. , Singh, T. P.	Crystal structure of Boc-Ile-ΔPhe- Ile- OCH ₃ , C ₂₇ H ₄₃ N 3O ₇	<i>Zeitschrift fuer</i> <i>Kristallographie</i> - New Crystal Structures	218	179-180	2003

54.	Vijayaraghavan R., Makker, J., Kumar, P. , Dey S., Singh T.P.	Design of peptides with a, b - dehydro-residues: syntheses, crystal structures and molecular conformations of two Δ Phe-Trp containing peptides	<i>Journal of Molecular Structure</i>	654(1-3)	103-110	2003
55.	Makker, J., Dey, S., Mukherjee, S., Vijayaraghavan, R., Kumar, P. , Singh, T. P.	Design of peptides with a, b - dehydro-residues: synthesis, crystal structure and molecular conformation of a tetrapeptide Z- Δ Val-Val- Δ Phe-Ile-Ome	<i>Journal of Molecular Structure</i>	654(1-3)	119-124	2003
56.	Vijayaraghavan R., Kumar P. , Dey S., Singh T.P.	Design of peptides with branched beta-carbon dehydro- residues: syntheses, crystal structures and molecular conformations of two peptides, (I) N-Carbobenzoxymethyl-DeltaVal-Ala-Leu-OCH ₃ and (II) N-Carbobenzoxymethyl-Deltalle-Ala-Leu-OCH ₃	<i>J. Pept. Res</i>	62(2)	63-9	2003
57.	Mohanty A.K., Singh G., Paramasivam M., Saravanan K., Jabeen T., Sharma S., Yadav S., Kaur P., Kumar P. , Srinivasan A, Singh T.P	Crystal structure of a novel regulatory 40-kDa mammary gland protein (MGP-40) secreted during involution	<i>J. Biol. Chem.</i>	278(16)	14451-60	2003
58.	Makker, J., Dey, S., Mukherjee, S., Kumar, P. , Singh, T. P.	Crystal structure of Boc-Leu- Δ Phe- Δ Phe-Ile-OCH ₃ , C ₃₆ H ₄₈ N ₄ O ₇	<i>Zeitschrift fuer Kristallographie -New Crystal Structures</i>	217(3)	372-374	2002

59.	Makkar, J., Dey, S., Kumar, P. , Singh, T.P.	Crystal structure of Boc-Leu- Δ Phe-Ile- Δ Phe-Ile-OCH ₃ , C ₄₂ H ₅₉ N ₅ O ₈	<i>Zeitschrift fuer Kristallographie - New Crystal Structures</i>	217(3)	369-371	2002
60.	Kumar, P. , Yadav, S. & Singh, T.P. (2002)	Crystallization and structure determination of goat lactoferrin at 4.0 Å resolution: A new form of packing in lactoferrins with a high solvent in crystals	<i>Ind. J. Biochem. Biophys.</i>	39(1)	16-21	2002
61.	Makkar, J., Dey, S., Kumar, P. , Singh, T.P.	Design of peptides with alpha, beta-dehydro residues: pseudo-tripeptide N-benzyloxycarbonyl-DeltaLeu-L-Ala-L-Leu-OCH ₃	<i>Acta Crystallogr</i>	C58	212-4	2002
62.	Kumar, P. , Khan, J.A., Yadav, S. & Singh, T.P.	Crystal structure of equine apolactoferrin at 303 K providing further evidence of closed conformations of N and C lobes	<i>Acta Crystallogr</i>	D 58	225-32	2002
63.	Singh, J.D., Milton, M.D., Bhalla, G. Khandelwal, B. L., Kumar, P. , Singh, T. P., Butcher, R. J.	Design, synthesis and structural aspects of acyclic N ₃ E ₂ (E = Se or Te) type donors and its complexes with Group 12 metals	<i>Phosphorus, Sulfur and Silicon and the Related Elements</i>	(171-172)	477-484	2001
64.	Milton, M.D., Singh, J. D., Khandelwal, B. L.; Kumar, P. , Singh, T. P., Butcher, R. J.	Design, synthesis and structural aspects of terdentate (N,O,Se/Te) donors and their competitive coordination behavior towards Pt(II)	<i>Phosphorus, Sulfur and Silicon and the Related Elements</i>	(171-172)	485-492	2001

65.	. Tomar, S., Yadav, S., Chandra, V., Kumar, P. , Singh, T.P.	Purification, crystallization and preliminary X-ray diffraction studies of disintegrin (schistatin) from saw-scaled viper (<i>Echis carinatus</i>)	<i>Acta Crystallogr</i>	D57	1669-70	2001
66.	Vijayaraghavan, R., Kumar, P. , Dey, S., Singh, T.P.	Design of peptides with alpha, beta-dehydro residues: a dipeptide with a branched beta-carbon dehydro residue at the (i+1) position, methyl N - (benzyloxycarbonyl) - alpha, beta - didehydrovalyl - L - tryptophanate	<i>Acta Crystallogr</i>	C57	1220-1	2001
67.	Khan, J.A., Kumar, P. , Sharma, S., Mohanty, A.K., Jabeen, T., Paramasivam, M., Yadav, S., Srinivasan, A. & Singh, T.P.	Mechanism of iron-uptake and iron-release in lactoferrins	<i>Proc. Ind. Nat. Sc. Acad.</i>	B67	1-17	2001
68.	Kumar, P. , Yadav, S., Srinivasan, A., Bhatia, K.L. & Singh, T.P.	A novel 40 kDa protein from goat mammary secretions: purification, crystallization and preliminary X-ray diffraction studies	<i>Acta Crystallogr</i>	D57	1332-3	2001
69.	Sharma, S., Kumar, P. , Betzel, C., Singh, T.P.	Structure and function of proteins involved in milk allergies	<i>J Chromatogr B Biomed Sci Appl</i>	756(1-2)	183-7	2001
70.	Khan, J.A., Kumar, P. , Paramasivam, M., Yadav, R.S., Sahni, M.S., Sharma, S., Srinivasan, A. & Singh, T.P. (2001)	Structure of camel apolactoferrin at 2.6Å resolution and structural basis of its dual role as a transferrin-cum-lactoferrin	<i>J. Mol. Biol.</i>	309(3)	751-61	2001

71.	Khan J.A., Kumar, P. , Srinivasan, A., Singh, T.P.	Protein intermediate trapped by the simultaneous crystallization process. Crystal structure of an iron-saturated intermediate in the Fe ³⁺ binding pathway of camel lactoferrin at 2.7 Å resolution	<i>J.Biol. Chem</i>	276(39)	36817-23	2001
72.	Betzel, C., Gourinath, S., Kumar, P. , Kaur, P., Perbandt, M., Eschenburg, S. & Singh, T.P.	Structure of a serine protease proteinase K from <i>Tritirachium album Limber</i> at 0.98 Å resolution	<i>Biochemistry</i>	40(10)	3080-8	2001
73.	Bhatia, S., Kumar, P. , Kaur, P., & Singh, T.P.	Design of peptides with α,β -dehydro-residues: synthesis, and crystal and molecular structure of a 310-helical tetrapeptide Boc-L-Val-D Phe-D Phe-L-Ile-OCH ₃	<i>J. Pept. Res.</i>	54	249-256	1999
74.	Vijayaraghavan, R., Kumar, P. , Dey, S. & Singh, T.P.	Design of Peptides with α, β -Dehydro-residues: Synthesis, Crystal and Molecular Conformation of N-Boc-L-Ile-D Phe-L-Trp-OCH ₃	<i>J. Pept Res.</i>	52	89-96	1998