

# Rekha C Patel

## List of Publications by Year in descending order

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47  
papers

2,144  
citations

218381

26  
h-index

233125

45  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1927  
citing authors

#	ARTICLE	IF	CITATIONS
1	PACT, a protein activator of the interferon-induced protein kinase, PKR. EMBO Journal, 1998, 17, 4379-4390.	3.5	409
2	PACT, a Stress-modulated Cellular Activator of Interferon-induced Double-stranded RNA-activated Protein Kinase, PKR. Journal of Biological Chemistry, 2000, 275, 37993-37998.	1.6	209
3	The interferon-inducible double-stranded RNA-activated protein kinase self-associates in vitro and in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8283-8287.	3.3	151
4	TRBP Control of PACT-Induced Phosphorylation of Protein Kinase R Is Reversed by Stress. Molecular and Cellular Biology, 2009, 29, 254-265.	1.1	120
5	DRBP76, a Double-stranded RNA-binding Nuclear Protein, Is Phosphorylated by the Interferon-induced Protein Kinase, PKR. Journal of Biological Chemistry, 1999, 274, 20432-20437.	1.6	116
6	Specific Mutations Near the Amino Terminus of Double-stranded RNA-dependent Protein Kinase (PKR) Differentially Affect Its Double-stranded RNA Binding and Dimerization Properties. Journal of Biological Chemistry, 1996, 271, 25657-25663.	1.6	77
7	The C-terminal, third conserved motif of the protein activator PACT plays an essential role in the activation of double-stranded-RNA-dependent protein kinase (PKR). Biochemical Journal, 2002, 366, 175-186.	1.7	63
8	AP-1 Mediated Transcriptional Repression of Matrix Metalloproteinase-9 by Recruitment of Histone Deacetylase 1 in Response to Interferon $\beta$ . PLoS ONE, 2012, 7, e42152.	1.1	62
9	The carboxy-terminal, M3 motifs of PACT and TRBP have opposite effects on PKR activity. Virology, 2003, 315, 283-291.	1.1	58
10	Activation of Interferon-inducible 2'5' Oligoadenylate Synthetase by Adenoviral VAI RNA. Journal of Biological Chemistry, 1995, 270, 3454-3461.	1.6	57
11	The PKR activator, PACT, becomes a PKR inhibitor during HIV-1 replication. Retrovirology, 2013, 10, 96.	0.9	56
12	Stress-Induced Phosphorylation of PACT Reduces Its Interaction with TRBP and Leads to PKR Activation. Biochemistry, 2011, 50, 4550-4560.	1.2	55
13	Requirement of PKR Dimerization Mediated by Specific Hydrophobic Residues for Its Activation by Double-Stranded RNA and Its Antigrowth Effects in Yeast. Molecular and Cellular Biology, 1998, 18, 7009-7019.	1.1	51
14	Increased interaction between PACT molecules in response to stress signals is required for PKR activation. Journal of Cellular Biochemistry, 2012, 113, 2754-2764.	1.2	42
15	Altered Activation of Protein Kinase PKR and Enhanced Apoptosis in Dystonia Cells Carrying a Mutation in PKR Activator Protein PACT. Journal of Biological Chemistry, 2015, 290, 22543-22557.	1.6	42
16	Essential Role of PACT-Mediated PKR Activation in Tunicamycin-Induced Apoptosis. Journal of Molecular Biology, 2009, 385, 457-468.	2.0	41
17	Interaction of human tRNA-dihydrouridine synthase-2 with interferon-induced protein kinase PKR. Nucleic Acids Research, 2007, 36, 998-1008.	6.5	40
18	Homeobox gene HOXA9 inhibits nuclear factor-kappa B dependent activation of endothelium. Atherosclerosis, 2007, 195, e50-e60.	0.4	39

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19	A mutant cell line defective in response to double-stranded RNA and in regulating basal expression of interferon-stimulated genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9442-9447.	3.3	33
20	Identification of the heparin-binding domains of the interferon-induced protein kinase, PKR. <i>FEBS Journal</i> , 2005, 272, 1425-1439.	2.2	32
21	Differential regulation of HOXA9 expression by nuclear factor kappa B (NF- $\kappa$ B) and HOXA9. <i>Gene</i> , 2008, 408, 187-195.	1.0	32
22	Stress-induced TRBP phosphorylation enhances its interaction with PKR to regulate cellular survival. <i>Scientific Reports</i> , 2018, 8, 1020.	1.6	31
23	Regulation of Vascular Smooth Muscle Proliferation by Heparin. <i>Journal of Biological Chemistry</i> , 2005, 280, 15682-15689.	1.6	30
24	Relationship between heat shock protein 70 expression and life span in <i>Daphnia</i> . <i>Mechanisms of Ageing and Development</i> , 2014, 139, 1-10.	2.2	30
25	Telomerase Activity and Telomere Length in <i>Daphnia</i> . <i>PLoS ONE</i> , 2015, 10, e0127196.	1.1	30
26	Development of an efficient RNA interference method by feeding for the microcrustacean <i>Daphnia</i> . <i>BMC Biotechnology</i> , 2015, 15, 91.	1.7	28
27	Inhibition of the inflammatory response to stress by targeting interaction between PKR and its cellular activator PACT. <i>Scientific Reports</i> , 2017, 7, 16129.	1.6	28
28	Inhibition of PKR protects against tunicamycin-induced apoptosis in neuroblastoma cells. <i>Gene</i> , 2014, 536, 90-96.	1.0	25
29	Contribution of Double-Stranded RNA-Activated Protein Kinase Toward Antiproliferative Actions of Heparin on Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 1439-1444.	1.1	22
30	Generation of Minute phenotypes by a transformed antisense ribosomal protein gene. <i>Genesis</i> , 1992, 13, 256-263.	3.1	21
31	Dystonia 16 (DYT16) mutations in PACT cause dysregulated PKR activation and eIF2 $\gamma$ signaling leading to a compromised stress response. <i>Neurobiology of Disease</i> , 2020, 146, 105135.	2.1	18
32	Expression of PACT is regulated by Sp1 transcription factor. <i>Gene</i> , 2007, 388, 74-82.	1.0	13
33	Involvement of <i>Daphnia pulex</i> Sir2 in regulating stress response and lifespan. <i>Aging</i> , 2016, 8, 402-417.	1.4	12
34	ADAR1 and PACT contribute to efficient translation of transcripts containing HIV-1 trans-activating response (TAR) element. <i>Biochemical Journal</i> , 2017, 474, 1241-1257.	1.7	12
35	A truncated PACT protein resulting from a frameshift mutation reported in movement disorder DYT16 triggers caspase activation and apoptosis. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 19004-19018.	1.2	11
36	Contribution of the two dsRBM motifs to the double-stranded RNA binding and protein interactions of PACT. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 3598-3607.	1.2	9

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37	Proapoptotic protein PACT is expressed at high levels in colonic epithelial cells in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G801-G808.	1.6	7
38	Opposite actions of two dsRNA-binding proteins PACT and TRBP on RIG-I mediated signaling. <i>Biochemical Journal</i> , 2021, 478, 493-510.	1.7	7
39	Overproduction and translational regulation of rp49 ribosomal protein mRNA in transgenic <i>Drosophila</i> carrying extra copies of the gene. <i>Molecular Genetics and Genomics</i> , 1990, 221, 171-175.	2.4	6
40	STAT1 requirement for PKR-induced cell cycle arrest in vascular smooth muscle cells in response to heparin. <i>Gene</i> , 2013, 524, 15-21.	1.0	5
41	Construction and Expression of an Enzymatically Active Human-Mouse Chimeric Double-Stranded RNA-Dependent Protein Kinase. <i>Journal of Interferon Research</i> , 1992, 12, 389-393.	1.2	4
42	Relationship between oxidative stress and lifespan in <i>Daphnia pulex</i> . <i>Scientific Reports</i> , 2022, 12, 2354.	1.6	4
43	Regulation of PKR activation and apoptosis during oxidative stress by TRBP phosphorylation. <i>International Journal of Biochemistry and Cell Biology</i> , 2021, 137, 106030.	1.2	3
44	DYT-PRKRA Mutation P222L Enhances PACT's Stimulatory Activity on Type I Interferon Induction. <i>Biomolecules</i> , 2022, 12, 713.	1.8	2
45	268. <i>Cytokine</i> , 2013, 63, 306-307.	1.4	1
46	HIV-1 replication changes the function of the PKR activator PACT. <i>Retrovirology</i> , 2013, 10, .	0.9	0
47	Social inequalities in accelerated aging among southern U.S. women: an analysis of the biosocial and behavioral pathways linking social determinants to telomere length. <i>Biodemography and Social Biology</i> , 2021, 66, 118-131.	0.4	0