# 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 | Relationship between oxidative stress and lifespan in Daphnia pulex. Scientific Reports, 2022, 12, 2354. | 1.6 | 4 |
| 2 | DYT-PRKRA Mutation P222L Enhances PACTâ€™s Stimulatory Activity on Type I Interferon Induction. Biomolecules, 2022, 12, 713. | 1.8 | 2 |
| 3 | Opposite actions of two dsRNA-binding proteins PACT and TRBP on RIG-I mediated signaling. Biochemical Journal, 2021, 478, 493-510. | 1.7 | 7 |
| 4 | Social inequalities in accelerated aging among southern U.S. women: an analysis of the biosocial and behavioral pathways linking social determinants to telomere length. Biodemography and Social Biology, 2021, 66, 118-131. | 0.4 | 0 |
| 5 | Regulation of PKR activation and apoptosis during oxidative stress by TRBP phosphorylation. International Journal of Biochemistry and Cell Biology, 2021, 137, 106030. | 1.2 | 3 |
| 6 | Dystonia 16 (DYT16) mutations in PACT cause dysregulated PKR activation and eIF2Î± signaling leading to a compromised stress response. Neurobiology of Disease, 2020, 146, 105135. | 2.1 | 18 |
| 7 | A truncated PACT protein resulting from a frameshift mutation reported in movement disorder DYT16 triggers caspase activation and apoptosis. Journal of Cellular Biochemistry, 2019, 120, 19004-19018. | 1.2 | 11 |
| 8 | Stress-induced TRBP phosphorylation enhances its interaction with PKR to regulate cellular survival. Scientific Reports, 2018, 8, 1020. | 1.6 | 31 |
| 9 | Contribution of the two dsRBM motifs to the doubleâ€stranded RNA binding and protein interactions of PACT. Journal of Cellular Biochemistry, 2018, 119, 3598-3607. | 1.2 | 9 |
| 10 | ADAR1 and PACT contribute to efficient translation of transcripts containing HIV-1 trans-activating response (TAR) element. Biochemical Journal, 2017, 474, 1241-1257. | 1.7 | 12 |
| 11 | Inhibition of the inflammatory response to stress by targeting interaction between PKR and its cellular activator PACT. Scientific Reports, 2017, 7, 16129. | 1.6 | 28 |
| 12 | Involvement of Daphnia pulicaria Sir2 in regulating stress response and lifespan. Aging, 2016, 8, 402-417. | 1.4 | 12 |
| 13 | Development of an efficient RNA interference method by feeding for the microcrustacean Daphnia. BMC Biotechnology, 2015, 15, 91. | 1.7 | 28 |
| 14 | 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 |
| 15 | Telomerase Activity and Telomere Length in Daphnia. PLoS ONE, 2015, 10, e0127196. | 1.1 | 30 |
| 16 | Inhibition of PKR protects against tunicamycin-induced apoptosis in neuroblastoma cells. Gene, 2014, 536, 90-96. | 1.0 | 25 |
| 17 | Relationship between heat shock protein 70 expression and life span in Daphnia. Mechanisms of Ageing and Development, 2014, 139, 1-10. | 2.2 | 30 |
| 18 | The PKR activator, PACT, becomes a PKR inhibitor during HIV-1 replication. Retrovirology, 2013, 10, 96. | 0.9 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | HIV-1 replication changes the function of the PKR activator PACT. Retrovirology, 2013, 10, . | 0.9 | 0 |
| 20 | STAT1 requirement for PKR-induced cell cycle arrest in vascular smooth muscle cells in response to heparin. Gene, 2013, 524, 15-21. | 1.0 | 5 |
| 21 | 268. Cytokine, 2013, 63, 306-307. | 1.4 | 1 |
| 22 | 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 |
| 23 | AP-1 Mediated Transcriptional Repression of Matrix Metalloproteinase-9 by Recruitment of Histone Deacetylase 1 in Response to Interferon Î². PLoS ONE, 2012, 7, e42152. | 1.1 | 62 |
| 24 | Stress-Induced Phosphorylation of PACT Reduces Its Interaction with TRBP and Leads to PKR Activation. Biochemistry, 2011, 50, 4550-4560. | 1.2 | 55 |
| 25 | 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 |
| 26 | Essential Role of PACT-Mediated PKR Activation in Tunicamycin-Induced Apoptosis. Journal of Molecular Biology, 2009, 385, 457-468. | 2.0 | 41 |
| 27 | Differential regulation of HOXA9 expression by nuclear factor kappa B (NF-ÎºB) and HOXA9. Gene, 2008, 408, 187-195. | 1.0 | 32 |
| 28 | Interaction of human tRNA-dihydrouridine synthase-2 with interferon-induced protein kinase PKR. Nucleic Acids Research, 2007, 36, 998-1008. | 6.5 | 40 |
| 29 | Expression of PACT is regulated by Sp1 transcription factor. Gene, 2007, 388, 74-82. | 1.0 | 13 |
| 30 | Homeobox gene HOXA9 inhibits nuclear factor-kappa B dependent activation of endothelium. Atherosclerosis, 2007, 195, e50-e60. | 0.4 | 39 |
| 31 | Identification of the heparin-binding domains of the interferon-induced protein kinase, PKR. FEBS Journal, 2005, 272, 1425-1439. | 2.2 | 32 |
| 32 | Regulation of Vascular Smooth Muscle Proliferation by Heparin. Journal of Biological Chemistry, 2005, 280, 15682-15689. | 1.6 | 30 |
| 33 | The carboxy-terminal, M3 motifs of PACT and TRBP have opposite effects on PKR activity. Virology, 2003, 315, 283-291. | 1.1 | 58 |
| 34 | Contribution of Double-Stranded RNA-Activated Protein Kinase Toward Antiproliferative Actions of Heparin on Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1439-1444. | 1.1 | 22 |
| 35 | 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 |
| 36 | Proapoptotic protein PACT is expressed at high levels in colonic epithelial cells in mice. American Journal of Physiology - Renal Physiology, 2002, 283, G801-G808. | 1.6 | 7 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | PACT, a protein activator of the interferon-induced protein kinase, PKR. EMBO Journal, 1998, 17, 4379-4390. | 3.5 | 409 |
| 40 | A mutant cell line defective in response to double-stranded RNA and in regulating basal expression of interferon-stimulated genes. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9442-9447. | 3.3 | 33 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Activation of Interferon-inducible 2â€² â˜’5â€² Oligoadenylate Synthetase by Adenoviral VAI RNA. Journal of Biological Chemistry, 1995, 270, 3454-3461. | 1.6 | 57 |
| 45 | Construction and Expression of an Enzymatically Active Humanâ€“Mouse Chimeric Double-Stranded RNA-Dependent Protein Kinase. Journal of Interferon Research, 1992, 12, 389-393. | 1.2 | 4 |
| 46 | Generation ofMinute phenotypes by a transformed antisense ribosomal protein gene. Genesis, 1992, 13, 256-263. | 3.1 | 21 |
| 47 | Overproduction and translational regulation of rp49 ribosomal protein mRNA in transgenic Drosophila carrying extra copies of the gene. Molecular Genetics and Genomics, 1990, 221, 171-175. | 2.4 | 6 |