# Hyangshuk Rhim

List of Publications by Year
in descending order



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|---|---|---|---|
| 56 papers | 1,311 citations | 331670 21 h-index | 377865 34 g-index |
| 56 all docs | 56 docs citations | 56 times ranked | 1881 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SOX4 overexpression regulates the p53-mediated apoptosis in hepatocellular carcinoma: clinical implication and functional analysis in vitro. Carcinogenesis, 2010, 31, 1298-1307. | 2.8 | 103 |
| 2 | Î²-Amyloid Precursor Protein Is a Direct Cleavage Target of HtrA2 Serine Protease. Journal of Biological Chemistry, 2006, 281, 34277-34287. | 3.4 | 88 |
| 3 | Alzheimer's disease-associated amyloid beta interacts with the human serine protease HtrA2/Omi. Neuroscience Letters, 2004, 357, 63-67. | 2.1 | 62 |
| 4 | HtrA2/Omi deficiency causes damage and mutation of mitochondrial DNA. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1866-1875. | 4.1 | 52 |
| 5 | Evidence that Î±-synuclein functions as a negative regulator of Ca++-dependent Î±-granule release from human platelets. Blood, 2002, 100, 2506-2514. | 1.4 | 51 |
| 6 | Stress-Induced Aggregation Profiles of GSTâ^'Î±-Synuclein Fusion Proteins:Â Role of the C-Terminal Acidic Tail of Î±-Synuclein in Protein Thermosolubility and Stabilityâ€. Biochemistry, 2002, 41, 4137-4146. | 2.5 | 50 |
| 7 | Celastrol ameliorates HIV-1 Tat-induced inflammatory responses via NF-kappaB and AP-1 inhibition and heme oxygenase-1 induction in astrocytes. Toxicology and Applied Pharmacology, 2014, 280, 42-52. | 2.8 | 46 |
| 8 | Cold atmospheric plasma (CAP), a novel physicochemical source, induces neural differentiation through cross-talk between the specific RONS cascade and Trk/Ras/ERK signaling pathway. Biomaterials, 2018, 156, 258-273. | 11.4 | 46 |
| 9 | Sox-4 is a positive regulator of Hep3B and HepG2 cells' apoptosis induced by prostaglandin (PG)A2 and Î”12-PGJ2. Experimental and Molecular Medicine, 2002, 34, 243-249. | 7.7 | 44 |
| 10 | Autocatalytic Processing of HtrA2/Omi Is Essential for Induction of Caspase-dependent Cell Death through Antagonizing XIAP. Journal of Biological Chemistry, 2004, 279, 37588-37596. | 3.4 | 43 |
| 11 | Intracellular amyloid beta interacts with SOD1 and impairs the enzymatic activity of SOD1: implications for the pathogenesis of amyotrophic lateral sclerosis. Experimental and Molecular Medicine, 2009, 41, 611. | 7.7 | 42 |
| 12 | Î±-Synuclein has structural and functional similarities to small heat shock proteins. Biochemical and Biophysical Research Communications, 2004, 324, 1352-1359. | 2.1 | 41 |
| 13 | E3 ligase activity of RING finger proteins that interact with Hipâ€2, a human ubiquitinâ€conjugating enzyme. FEBS Letters, 2001, 503, 61-64. | 2.8 | 38 |
| 14 | Functional identification of the pro-apoptotic effector domain in human Sox4. Biochemical and Biophysical Research Communications, 2004, 325, 59-67. | 2.1 | 38 |
| 15 | Identification of cDNAs for Sox-4, an HMG-Box Protein, and a Novel Human Homolog of Yeast Splicing Factor SSF-1 Differentially Regulated during Apoptosis Induced by Prostaglandin A2/Î”12-PGJ2 in Hep3B Cells. Biochemical and Biophysical Research Communications, 1999, 260, 216-221. | 2.1 | 31 |
| 16 | HtrA1 Is a Novel Antagonist Controlling Fibroblast Growth Factor (FGF) Signaling via Cleavage of FGF8. Molecular and Cellular Biology, 2012, 32, 4482-4492. | 2.3 | 29 |
| 17 | HtrA2/Omi influences the stability of LON protease 1 and prohibitin, proteins involved in mitochondrial homeostasis. Experimental Cell Research, 2014, 328, 456-465. | 2.6 | 26 |
| 18 | The serine protease HtrA2/Omi cleaves Parkin and irreversibly inactivates its E3 ubiquitin ligase activity. Biochemical and Biophysical Research Communications, 2009, 387, 537-542. | 2.1 | 25 |

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|---|---|---|---|
| 19 | ALS-Related Mutant SOD1 Aggregates Interfere with Mitophagy by Sequestering the Autophagy Receptor Optineurin. International Journal of Molecular Sciences, 2020, 21, 7525. | 4.1 | 24 |
| 20 | The role of c-Myc and heat shock protein 70 in human hepatocarcinoma Hep3B cells during apoptosis induced by prostaglandin A2/Î”12-prostaglandin J2. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1448, 115-125. | 4.1 | 22 |
| 21 | Rapid purification and analysis of Î±-synuclein proteins: C-terminal truncation promotes the conversion of Î±-synuclein into a protease-sensitive form in Escherichia coli. Biotechnology and Applied Biochemistry, 2002, 36, 33. | 3.1 | 22 |
| 22 | PHB2 interacts with RNF2 and represses CP2c-stimulated transcription. Molecular and Cellular Biochemistry, 2008, 319, 69-77. | 3.1 | 22 |
| 23 | HtrA2 suppresses autoimmune arthritis and regulates activation of STAT3. Scientific Reports, 2016, 6, 39393. | 3.3 | 22 |
| 24 | Functional Significance of the Dinucleotide Bulge in Stem-Loop1 and Stem-Loop2 of HIV-2 TAR RNA. Virology, 1994, 202, 202-211. | 2.4 | 21 |
| 25 | E3 ubiquitin ligase RNF2 interacts with the S6â€² proteasomal ATPase subunit and increases the ATP hydrolysis activity of S6â€². Biochemical Journal, 2005, 389, 457-463. | 3.7 | 20 |
| 26 | Improved recovery of active GST-fusion proteins from insoluble aggregates: solubilization and purification conditions using PKM2 and HtrA2 as model proteins. BMB Reports, 2011, 44, 279-284. | 2.4 | 20 |
| 27 | Intracellular AÎ² and C99 aggregates induce mitochondria-dependent cell death in human neuroglioma H4 cells through recruitment of the 20S proteasome subunits. Brain Research, 2009, 1273, 1-8. | 2.2 | 19 |
| 28 | The homotrimeric structure of HtrA2 is indispensable for executing its serine protease activity. Experimental and Molecular Medicine, 2006, 38, 36-43. | 7.7 | 18 |
| 29 | Amyotrophic lateral sclerosis-related mutant superoxide dismutase 1 aggregates inhibit 14-3-3-mediated cell survival by sequestration into the JUNQ compartment. Human Molecular Genetics, 2017, 26, 3615-3629. | 2.9 | 18 |
| 30 | N-terminal truncation circumvents proteolytic degradation of the human HtrA2/Omi serine protease in Escherichia coli: rapid purification of a proteolytically active HtrA2/Omi. Protein Expression and Purification, 2004, 33, 200-208. | 1.3 | 16 |
| 31 | Serine Protease HtrA2/Omi Deficiency Impairs Mitochondrial Homeostasis and Promotes Hepatic Fibrogenesis via Activation of Hepatic Stellate Cells. Cells, 2019, 8, 1119. | 4.1 | 16 |
| 32 | Matrix metalloproteinase-3 is activated by HtrA2/Omi in dopaminergic cells: Relevance to Parkinsonâ€™s disease. Neurochemistry International, 2012, 60, 249-256. | 3.8 | 15 |
| 33 | Induction of apoptosis dependent on caspase activities and growth arrest in HL-60 cells by PGA2. Prostaglandins and Other Lipid Mediators, 2002, 70, 169-183. | 1.9 | 14 |
| 34 | Hip2 interacts with cyclin B1 and promotes its degradation through the ubiquitin proteasome pathway. FEBS Letters, 2010, 584, 4505-4510. | 2.8 | 14 |
| 35 | Hip2 ubiquitin-conjugating enzyme overcomes radiation-induced G2/M arrest. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2911-2921. | 4.1 | 14 |
| 36 | Hip2 ubiquitin-conjugating enzyme has a role in UV-induced G1/S arrest and re-entry. Genes and Genomics, 2019, 41, 159-166. | 1.4 | 14 |

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|---|---|---|---|
| 37 | Pathogenic Role of Serine Protease HtrA2/Omi in Neurodegenerative Diseases. Current Protein and Peptide Science, 2017, 18, 746-757. | 1.4 | 14 |
| 38 | Plasma protein adsorption to anion substituted poly(vinyl alcohol) membranes. Macromolecular Research, 2003, 11, 451-457. | 2.4 | 10 |
| 39 | The serine protease HtrA2 cleaves UCH-L1 and inhibits its hydrolase activity: Implication in the UCH-L1-mediated cell death. Biochemical and Biophysical Research Communications, 2011, 415, 24-29. | 2.1 | 10 |
| 40 | A novel link between the conformations, exposure of specific epitopes, and subcellular localization of Î±-synuclein. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 2497-2505. | 2.4 | 10 |
| 41 | Hip2 interacts with and destabilizes Smac/DIABLO. Biochemical and Biophysical Research Communications, 2010, 397, 718-723. | 2.1 | 9 |
| 42 | A new idea for simple and rapid monitoring of gene expression: requirement of nucleotide sequences encoding an N-terminal HA tag in the T7 promoter-driven expression in E. coli. Biotechnology Letters, 2012, 34, 1841-1846. | 2.2 | 9 |
| 43 | Characterization and Hsp104-induced artificial clearance of familial ALS-related SOD1 aggregates. Biochemical and Biophysical Research Communications, 2013, 434, 521-526. | 2.1 | 9 |
| 44 | ALS-linked mutant SOD1 proteins promote AÎ² aggregates in ALS through direct interaction with AÎ². Biochemical and Biophysical Research Communications, 2017, 493, 697-707. | 2.1 | 9 |
| 45 | RNAs selected in vitro by the HIV-2 tat protein. Journal of Biomedical Science, 1997, 4, 28-34. | 7.0 | 7 |
| 46 | Harmless effects of argon plasma on caudal fin regeneration and embryogenesis of zebrafish: novel biological approaches for safe medical applications of bioplasma. Experimental and Molecular Medicine, 2017, 49, e355-e355. | 7.7 | 7 |
| 47 | Antigenicity of the region encoded by exon8 of the human serine protease, HtrA2/Omi, is associated with its protein solubility. Biotechnology Letters, 2003, 25, 1597-1603. | 2.2 | 6 |
| 48 | Fine epitope mapping of monoclonal antibodies specific to human Î±-synuclein. Neuroscience Letters, 2006, 397, 53-58. | 2.1 | 5 |
| 49 | Quantitative biochemical characterization and biotechnological production of caspase modulator, XIAP: Therapeutic implications for apoptosis-associated diseases. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1602-1611. | 2.4 | 5 |
| 50 | The sCMV IE enhancer/promoter system for high-level expression and efficient functional studies of target genes in mammalian cells and zebrafish. Biotechnology Letters, 2011, 33, 1319-1326. | 2.2 | 4 |
| 51 | Anti-complement effects of anion-substituted poly(vinyl alcohol) membranes. Macromolecular Research, 2004, 12, 46-52. | 2.4 | 3 |
| 52 | NABi, a novel Î²-sheet breaker, inhibits AÎ² aggregation and neuronal toxicity: Therapeutic implications for Alzheimer's disease. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 71-80. | 2.4 | 3 |
| 53 | A Simple and Accurate Genotype Analysis of the motor neuron degeneration 2 (mnd2) Mice: an Easy-to-Follow Guideline and Standard Protocol Applicable to Mutant Mouse Models.. Interdisciplinary Bio Central, 2012, 4, 1-7. | 0.1 | 2 |
| 54 | Effects of Argon-plasma Jet on the Cytoskeleton of Fibroblasts: Implications of a New Approach for Cancer Therapy. KSBB Journal, 2012, 27, 308-312. | 0.2 | 2 |

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|---|---|---|---|
| 55 | A simple and rapid strategy for the molecular cloning and monitoring of mouse HtrA2 serine protease. Biotechnology Letters, 2008, 30, 397-403. | 2.2 | 1 |
| 56 | The novel human HtrA2 ortholog in zebrafish: New molecular insight and challenges into the imbalance of homeostasis. Gene, 2022, 819, 146263. | 2.2 | 0 |