

Ubiquitin-Activating Enzymes

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Recent Publications on Ubiquitin-Activating Enzymes:



- [The basis for selective E1-E2 interactions in the ISG15 conjugation system.](#)
*E1 and E2 enzymes coordinate the first steps in conjugation of ubiquitin...*4th October, 2008
Institute for Cellular and Molecular Biology, Section of Molecular- J Biol Chem. 2008 Aug 29;283(35):23895-902. Epub 2008 Jun 26. ([DOI Direct Link](#))
- [Proteomic identification of novel proteins associated with Lewy bodies.](#)
*The manifestation of Lewy bodies (LB) in the brain is a hallmark of...*20th September, 2008
Department of Human Genetics, the Center for Neurodegenerative Diseases,- Front Biosci. 2008 May 1;13:3850-6.
- [Autophagosome supports coxsackievirus B3 replication in host cells.](#)
*Recent studies suggest a possible takeover of host antimicrobial autophagy...*19th September, 2008
The James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research,- J Virol. 2008 Sep;82(18):9143-53. Epub 2008 Jul 2. ([DOI Direct Link](#))
- [E1 ubiquitin-activating enzyme UBA-1 plays multiple roles throughout C. elegans development.](#)
*Poly-ubiquitination of target proteins typically marks them for...*16th September, 2008
Department of Cell Biology and Molecular Genetics, University of Maryland,- PLoS Genet. 2008 Jul 18;4(7):e1000131. ([DOI Direct Link](#))
- [Structural dissection of a gating mechanism preventing misactivation of ubiquitin by NEDD8's E1.](#)
*Post-translational covalent modification by ubiquitin and ubiquitin-like...*10th September, 2008
Department of Structural Biology, St. Jude Children's Research Hospital,- Biochemistry. 2008 Aug 26;47(34):8961-9. Epub 2008 Jul 25. ([DOI Direct Link](#))
- [Protein ubiquitination is modulated by O-GlcNAc glycosylation.](#)
*During the past two decades, O-GlcNAc modification of cytosolic and...*4th September, 2008
UMR USTL/CNRS 8576, Laboratoire de Glycobiologie Structurale et- FASEB J. 2008 Aug;22(8):2901-11. Epub 2008 Apr 23. ([DOI Direct Link](#))
- [Activating the ubiquitin family: UBA6 challenges the field.](#)
*Since its discovery in 1981, ubiquitin-activating enzyme 1 was thought to...*3rd September, 2008
Division of Immunology, Department of Biology, University of Constance,- Trends Biochem Sci. 2008 May;33(5):230-7. Epub 2008 Mar 18. ([DOI Direct Link](#))
- [Proteasome inhibition attenuates coxsackievirus-induced myocardial damage in mice.](#)
*Coxsackievirus B3 (CVB3) is one of the most prevalent pathogens of viral...*22nd August, 2008
Department of Pathology and Laboratory Medicine, Univ. of British- Am J Physiol Heart Circ Physiol. 2008 Jul;295(1):H401-8. Epub 2008 May 30. ([DOI Direct Link](#))
- [Structural insights into E1-catalyzed ubiquitin activation and transfer to conjugating enzymes.](#)

Ubiquitin (Ub) and ubiquitin-like proteins (Ubls) are conjugated to their... 7th August, 2008
Department of Biochemistry and Cell Biology, Stony Brook University, Stony Brook, NY. 2008 Jul 25;134(2):268-78. ([DOI Direct Link](#))

- [UBE1L represses PML/RAR{alpha} by targeting the PML domain for ISG15ylation.](#)
Acute promyelocytic leukemia (APL) is characterized by expression of... 19th July, 2008
Department of Pharmacology and Toxicology, Dartmouth Medical School, 7650- Mol Cancer Ther. 2008 Apr;7(4):905-14. ([DOI Direct Link](#))
- [Protein interactions in the sumoylation cascade: lessons from X-ray structures.](#)
Sumoylation is a multi-step protein modification reaction in which SUMO... 11th July, 2008
Department of Neurochemistry, Max-Planck-Institute for Brain Research, FEBS J. 2008 Jun;275(12):3003-15. Epub 2008 May 17. ([DOI Direct Link](#))
- [Different roles for two ubiquitin-like domains of ISG15 in protein modification.](#)
ISG15 (interferon-stimulated gene 15) is a novel ubiquitin-like (Ubl)... 18th June, 2008
Institute of Biochemistry and Cell Biology, Shanghai Institutes for- J Biol Chem. 2008 May 9;283(19):13370-7. Epub 2008 Mar 20. ([DOI Direct Link](#))
- [Substrate properties of ubiquitin carboxyl-terminally derived peptide probes for protein ubiquitination.](#)
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- [Synthesis of bisphosphonate derivatives of ATP by T4 DNA ligase, ubiquitin activating enzyme \(E1\) and other ligases.](#)
T4 DNA ligase and the ubiquitin activating enzyme (E1), catalyze the... 17th May, 2008
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- [Redox-mediated modification of PLZF by SUMO-1 and ubiquitin.](#)
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Laboratory of Cellular and Molecular Biochemistry, School of Life Sciences- Biochem Biophys Res Commun. 2008 May 16;369(4):1209-14. Epub 2008 Mar 17. ([DOI Direct Link](#))

Ubiquitin-Activating Enzymes Patents:



- 7420048- [Human skeletal muscle-specific ubiquitin-conjugating enzyme](#)
- 5763225- [Synthesis of peptides as cloned ubiquitin extensions](#)
- 5831058- [Human GDP dissociation stimulating protein gene](#)
- 5908973- [DNA encoding fruit-ripening-related proteins, DNA constructs, cells and plants derived therefrom](#)
- 6005088- [Human NPIK gene](#)
- 6166190- [Isolated nucleic acid molecule encoding human skeletal muscle-specific ubiquitin-conjugating enzyme](#)
- 6333404- [Human nucleosome assembly protein gene](#)
- 6376189- [Method for detecting expression of human skeletal muscle-specific ubiquitin-conjugated enzyme](#)
- 6562947- [Human skeletal muscle-specific ubiquitin-conjugating enzyme](#)
- 6610526- [Human E1-like protein](#)

- 6617171- [Methods for diagnosing and treating autoimmune disease](#)
- 6773705- [Methods for diagnosing and treating autoimmune disease](#)
- 7041298- [Proteolysis targeting chimeric pharmaceutical](#)
- 7083927- [Gene BN01 mapping to chromosome 16q24.3](#)
- 7208157- [Proteolysis targeting chimeric pharmaceutical](#)
- 7223556- [Targeted proteolysis by recruitment to ubiquitin protein ligases](#)
- 5620923- [Synthesis of peptides as cloned ubiquitin extensions](#)

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