

Applied Molecular

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Applied Molecular Evolution, Inc. (AME) is a leader in the application of directed molecular evolution to improve healthcare by optimizing and developing human biotherapeutics. AME uses its proprietary AMEsystem™ directed molecular evolution technology platform to optimize genes and therapeutic proteins for specific commercial purposes. AME optimizes the full range of proteins, including antibodies, cytokines, hormones and enzymes to develop improved versions of currently marketed, FDA-approved biotherapeutics as well as novel human biopharmaceuticals.

AME has collaborations with leading developers of biotherapeutics including Centocor, Lilly, Chiron, MedImmune, Bristol-Myers Squibb, Seattle Genetics, Cell Matrix and Biosynexus, whose biopharmaceutical projects may benefit from significant optimization of therapeutic and commercial parameters including:

Improved safety, efficacy and potency

Enhanced convenience

Decreased manufacturing costs

Broadened and lengthened patents

Recent Publications by Applied Molecular:



- [Arginine vasopressin receptor gene-based single-nucleotide polymorphism analysis in attention deficit hyperactivity disorder.](#)

*Sigma(E), encoded by rpoE, causes lysis of viable but nonculturable (VBNC)...*7th November, 2009
Department of Molecular Genetics, Applied Molecular Genomics Group- Psychiatr Genet. 2009
Apr;19(2):102-3. ([DOI Direct Link](#))

- [Phase II Study of Preoperative Gefitinib in Clinical Stage I Non-Small-Cell Lung Cancer.](#)

*PURPOSE: Epidermal growth factor receptor (EGFR) tyrosine kinase...*4th November, 2009
Divisions of Medical Oncology/Hematology, Thoracic Surgery, and Chest- J Clin Oncol. 2009 Nov 2. (

[DOI Direct Link](#))

- [Human papillomavirus 16 load and E2/E6 ratio in HPV16-positive women: biomarkers for cervical intraepithelial neoplasia \$\geq 2\$ in a liquid-based cytology setting?](#)
*This retrospective case-control study assessed human papillomavirus 16...*29th October, 2009
Applied Molecular Biology Research Group, Laboratory for Cell Biology and- Cancer Epidemiol Biomarkers Prev. 2009 Nov;18(11):2992-9. Epub 2009 Oct ([DOI Direct Link](#))
- [Searching genetic risk factors for schizophrenia and bipolar disorder: learn from the past and back to the future.](#)
*For more than 20 years already, researchers from all over the world have...*23rd October, 2009
Applied Molecular Genomics Group, Vlaams Instituut voor Biotechnologie- Hum Mutat. 2009 Aug;30(8):1139-52. ([DOI Direct Link](#))
- [Dissection of sigma\(E\)-dependent cell lysis in Escherichia coli: roles of RpoE regulators RseA, RseB and periplasmic folding catalyst PpiD.](#)
*To understand the mechanism of sigma(E)-dependent cell lysis, we examined...*23rd October, 2009
Applied Molecular Bioscience, Graduate School of Medicine, Yamaguchi- Genes Cells. 2009 Jul;14(7):885-99. Epub 2009 Jun 22. ([DOI Direct Link](#))
- [Endodontic antimicrobial photodynamic therapy: safety assessment in mammalian cell cultures.](#)
*OBJECTIVES: The purpose of this study was to assess the in vitro...*21st October, 2009
Applied Molecular Photomedicine Laboratory, The Forsyth Institute, Boston,- J Endod. 2009 Nov;35(11):1567-72. Epub 2009 Sep 20. ([DOI Direct Link](#))
- [Microscopic imaging of DNA repair foci in irradiated normal tissues.](#)
*PURPOSE: It is now feasible to detect DNA double strand breaks (DSB) in...*16th October, 2009
Applied Molecular Oncology and Radiation Medicine Program, Ontario Cancer- Int J Radiat Biol. 2009 Sep;85(9):732-46. ([DOI Direct Link](#))
- [A high-throughput screening \(HTS\) immunochemical method for the analysis of stanzolol metabolites in cattle urine samples.](#)
*A high-throughput immunosorbent solid-phase extraction (HTS-IS-SPE)...*9th September, 2009
Applied Molecular Receptors Group, IQAC-CSIC, Jordi Girona, 18-26, 08034- J Chromatogr B Analyt Technol Biomed Life Sci. 2009 Aug 24. ([DOI Direct Link](#))
- [Oxidative stress as a trigger for growth phase-specific sigmaE-dependent cell lysis in Escherichia coli.](#)
*Sigma(E), encoded by rpoE, causes lysis of viable but nonculturable (VBNC)...*5th September, 2009
Applied Molecular Bioscience, Graduate School of Medicine, Yamaguchi- J Mol Microbiol Biotechnol. 2009;17(4):177-87. Epub 2009 Sep 2. ([DOI Direct Link](#))
- [Support for NRG1 as a susceptibility factor for schizophrenia in a northern Swedish isolated population.](#)
*CONTEXT: Neuregulin 1 (NRG1), a growth factor involved in...*12th August, 2009
Applied Molecular Genomics Group, Department of Molecular Genetics,- Arch Gen Psychiatry. 2009 Aug;66(8):828-37. ([DOI Direct Link](#))
- [Dynamics of micronuclei in rat skin fibroblasts after X irradiation.](#)
*In a previous study, we demonstrated DNA damage, expressed as micronuclei,...*4th August, 2009
Applied Molecular Oncology, Ontario Cancer Institute/Princess Margaret- Radiat Res. 2009 Jul;172(1):106-13. ([DOI Direct Link](#))
- [Progression and metastasis in a transgenic mouse breast cancer model: effects of exposure to in vivo hypoxia.](#)
*Hypoxia is a predictor of poor patient survival in several cancers,...*1st August, 2009
Applied Molecular Oncology Division, Ontario Cancer Institute/Princess- Cancer Lett. 2009 Sep 8;282(1):98-108. Epub 2009 Apr 7. ([DOI Direct Link](#))
- [The antibacterial effect of photodynamic therapy in dental plaque-derived biofilms.](#)
*BACKGROUND AND OBJECTIVE: Photodynamic therapy has been advocated as an...*16th July, 2009
Applied Molecular Photomedicine Laboratory, The Forsyth Institute, Boston,- J Periodontal Res. 2009 Dec;44(6):751-9. Epub 2009 Jul 8. ([DOI Direct Link](#))
- [Traceability of sulfonamide antibiotic treatment by immunochemical analysis of farm animal hair samples.](#)
*The use of hair to trace use of unauthorized substances, therapeutic...*25th June, 2009

Applied Molecular Receptors Group (AMRg), IQAC-CSIC, Networking Research- Anal Bioanal Chem. 2009 Oct;395(4):1009-16. Epub 2009 Jun 24. ([DOI Direct Link](#))

- [Development of an enzyme-linked immunosorbent assay for determination of the miticide bromopropylate.](#)

This paper reports for the first time the development of an immunoassay... 14th February, 2009
Applied Molecular Receptors Group, CIBER of Bioengineering, Biomaterials- J Agric Food Chem. 2009 Jan 28;57(2):375-84. ([DOI Direct Link](#))

Press Releases on Applied Molecular:

Heska Announces Supply Agreement With Roche Diagnostics	25th November, 2009	Heska Corporation	LOVELAND, Colo., Nov. 25 /PRNewswire-FirstCall/ -- Heska Corporation (Nasdaq: HSKA); ("Heska"), a leading provider of advanced diagnostic and specialty products to the veterinary industry, NEW YORK, Nov. 25 /PRNewswire/ -- Reportlinker.com announces that a new market research report is available in its catalogue: Wound Care Products - A World Market Analysis http://www.reportlinker.com
Reportlinker Adds Wound Care Products - A World Market Analysis	25th November, 2009	Reportlinker	NEW YORK, Nov. 25 /PRNewswire/ -- Reportlinker.com announces that a new market research report is available in its catalogue: Cholesterol and Other Cardiovascular Testing - Trends & Opportunities Worldwide
Reportlinker Adds Cholesterol and Other Cardiovascular Testing - Trends & Opportunities Worldwide	25th November, 2009	Reportlinker	MISSISSAUGA, ON, Nov. 23 /PRNewswire-FirstCall/ - YM BioSciences Inc. (NYSE Amex: YMI; TSX: YM), a life sciences product development company that identifies and advances a diverse portfolio of
YM BIOSCIENCES REPORTS FIRST PATIENT IN PHASE I/II TRIAL OF JAK1/JAK2 INHIBITOR, CYT387 ENROLLED BY CYTOPIA	23rd November, 2009	YM BioSciences Inc.	MOUNTAIN VIEW, Calif., Nov. 23 /PRNewswire/ -- Frost & Sullivan, the Growth Partnership Company, honored healthcare companies for demonstrating leadership and innovation Thursday, November 19,
Excellence in Healthcare Innovation Recognized by Frost & Sullivan	23rd November, 2009	Frost & Sullivan	

BioNews Results for Applied Molecular



- [Beyond Genomics, Biologists And Engineers Decode The Next Frontier](#)
MediLexicon: Nov 21 2009 1:45PM Matching: applied molecular
- [Beyond Genomics, Biologists And Engineers Decode The Next Frontier](#)
Medical News Today: Nov 21 2009 9:06AM Matching: applied molecular
- [Beyond genomics, biologists and engineers decode the next frontier](#)
Science Daily: Nov 19 2009 1:43AM Matching: applied molecular
- [Beyond genomics, biologists and engineers decode the next frontier](#)
EurekAlert!: Nov 19 2009 3:21PM Matching: applied molecular
- [Pancreatic Endocrine Tumors: Expression Profiling Evidences a Role for AKT-mTOR Pathway \[Gastrointestinal Canc](#)
Journal of Clinical Oncology: Nov 19 2009 6:30AM Matching: applied molecular
- [Asuragen Signs Development and Worldwide Distribution Agreement with Life Technologies](#)
PharmiWeb: Nov 19 2009 1:43AM Matching: applied molecular
- [Asuragen and Life Technologies Pool Resources to Develop CML Diagnostic](#)
Genetic Engineering News: Nov 18 2009 6:41PM Matching: applied molecular
- [Asuragen enters into an exclusive agreement with Life Technologies](#)
News-Medical.Net: Nov 18 2009 12:06PM Matching: applied molecular
- [Asuragen Signs Development and Worldwide Distribution Agreement with Life Technologies](#)
Genetic Engineering News: Nov 18 2009 9:23AM Matching: applied molecular
- [Asuragen Signs Development and Worldwide Distribution Agreement with Life Technologies](#)
NewsBlaze: Nov 18 2009 8:46AM Matching: applied molecular
- [BioTrove poised for acquisition, new spin-out](#)
Mass High Tech: Nov 11 2009 2:35PM Matching: applied molecular
- [IDBS Expands in Asia Pacific](#)
Business Computing World: Nov 10 2009 9:48PM Matching: applied molecular
- [Eli Lilly Units Pumping Up Drug Pipeline](#)
San Diego Business Journal: Nov 9 2009 5:50PM Matching: applied molecular
- [Biotech Blooms at Eli Lilly](#)
Cafepharma: Nov 9 2009 4:56PM Matching: applied molecular
- [Biotech Blooms at Eli Lilly](#)
Seeking Alpha: Nov 8 2009 4:44PM Matching: applied molecular

Applied Molecular Clinical Trials:



- [A Phase 1 Safety Study of LY2127399 in Combination With Bortezomib in Patients With Relapsed or Refractory Multiple Myeloma](#)



Applied Molecular Patents:

- 7575747- [A.beta. binding molecules](#)
- 6787638- [Tumor specific human monoclonal antibodies and methods of use](#)
- 6893845- [Surface expression libraries of heteromeric receptors](#)
- 7049121- [Butyrylcholinesterase variant polypeptides with increased catalytic efficiency and methods of use](#)
- 7070973- [Butyrylcholinesterase variants and methods of use](#)
- 7101978- [TNF-.alpha. binding molecules](#)
- 7175996- [Methods of optimizing antibody variable region binding affinity](#)
- 7371382- [Methods of inhibiting .alpha..sub.v.beta..sub.3-mediated binding with .alpha..sub.v.beta..sub.3-specific antibodies](#)
- 7422744- [Methods of treating cancer with alphavbeta3-specific antibodies](#)
- 7422745- [Methods of treating cancer with .sub.v.alpha..beta..sub.3-specific antibodies](#)
- 7435799- [TNF-.alpha. binding molecules](#)
- 7541033- [Humanized anti-IL-1.beta. antibodies](#)
- 7560112- [Anti-il-6 antibodies, compositions, methods and uses](#)
- 6656467- [Ultra high affinity neutralizing antibodies](#)

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