

## Enzyme Multiplied Immunoassay Technique

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The Enzyme Multiplied Immunoassay Technique, or EMIT, is a common method for screening urine and blood for drugs, whether legal or illicit. It is part of the homogeneous immunoassay. The technique is relatively nonspecific compared to some other analysis methods, such as mass spectrometry, but has the advantage of being fast and inexpensive. It has, however, been shown in some cases to be somewhat inaccurate in its findings. The patent for EMIT technology is owned by the Syva Corporation of Palo Alto, CA. In March of 2005, the patent for EMIT technology was sold for an undisclosed price to the ORAK Corp, which is based in San Francisco. ([From the Wikipedia article Enzyme Multiplied Immunoassay Technique](#).)

### Recent Publications on Enzyme Multiplied Immunoassay Technique:



- [Monitoring of c0 and c2 blood concentrations of cyclosporine on the roche hitachi 902 analyzer.](#)  
*This work provided parameters to perform the widely used enzyme multiplied...*18th November, 2009  
Biochemistry Central Laboratory, Mustapha Hospital, Algiers, Algeria.- Transplant Proc. 2009 Nov;41(9):3713-9. ([DOI Direct Link](#))
- [Immunoassay detection in a perfluorocarbon emulsion oxygen therapeutic.](#)  
*The effect of a perfluorocarbon emulsion oxygen therapeutic (PEOT) on...*17th November, 2009  
Department of Chemistry, University of Cincinnati, Cincinnati, OH,- Anal Bioanal Chem. 2009 Nov 13. ([DOI Direct Link](#))
- [Sensitization of ventral tegmental area dopamine neurons to the stimulating effects of ethanol.](#)  
*BACKGROUND: Previous studies indicated that chronic alcohol drinking...*17th November, 2009  
Department of Psychiatry, Institute of Psychiatric Research, Indiana- Alcohol Clin Exp Res. 2009 Sep;33(9):1571-81. Epub 2009 May 26. ([DOI Direct Link](#))
- [Cocaine and opiates use in pregnancy: detection of drugs in neonatal meconium and urine.](#)  
*In this study, the case of a newborn with symptoms of hyperexcitability...*29th October, 2009  
Institute of Legal Medicine, Forensic Toxicology Service, Faculty of- J Anal Toxicol. 2009 Sep;33(7):351-5.
- [Falsely elevated whole-blood tacrolimus concentrations in a kidney-transplant patient: potential hazards.](#)  
*Summary Tacrolimus-based immunosuppression is the most frequently...*19th September, 2009  
Department of Nephrology, Dialysis and Organ Transplantation, CHU- Transpl Int. 2009 Sep 15. ([DOI Direct Link](#))
- [Longitudinal evaluation of mycophenolic acid pharmacokinetics in pediatric kidney transplant recipients. The role of post-transplant clinical and therapeutic variables.](#)  
*This longitudinal study assessed the influence of post-transplant clinical...*31st July, 2009  
Pediatric Nephrology Unit, Maggiore Policlinico Hospital, Mangiagalli and- Clin Transplant. 2009

- Mar;23(2):264-70. Epub 2009 Dec 18. ([DOI Direct Link](#))
- [Calcineurin Inhibitor Determination in Whole Blood With the RXL Dimension Analyzer: A Useful Tool for Immunosuppressive Drug Monitoring.](#)  
*Routine monitoring of cyclosporine and tacrolimus levels is necessary to...*30th July, 2009  
Biochemistry Laboratory, Lapeyronie Hospital, Montpellier, France.- *Transplant Proc.* 2009 Mar;41(2):707-9. ([DOI Direct Link](#))
  - [Comparison of drugs of abuse detection in meconium by EMIT II and ELISA.](#)  
*The results of meconium specimens and fortified samples screened for drugs...*23rd June, 2009  
ARUP Institute for Clinical and Experimental Pathology, Salt Lake City,- *J Anal Toxicol.* 2009 Apr;33(3):148-54.
  - [Falsely elevated whole blood tacrolimus concentrations due to interference in an affinity column-mediated immunoassay method on Xpand dimension.](#)  
*The whole blood concentration of tacrolimus is required for therapeutic...*30th April, 2009  
Department of Clinical Pharmacy, Bicetre Hospital, APHP, 78 rue du General- *Ther Drug Monit.* 2009 Apr;31(2):267-8. ([DOI Direct Link](#))
  - [Models for the prediction of mycophenolic acid area under the curve using a limited-sampling strategy and an enzyme multiplied immunoassay technique in Chinese patients undergoing liver transplantation.](#)  
*BACKGROUND: An enzyme multiplied immunoassay technique (EMIT) provides...*20th March, 2009  
Center of Organ Transplantation, Ruijin Hospital, Shanghai Jiaotong- *Clin Ther.* 2008 Dec;30(12):2387-401. ([DOI Direct Link](#))
  - [Caffeine citrate treatment for extremely premature infants with apnea: population pharmacokinetics, absolute bioavailability, and implications for therapeutic drug monitoring.](#)  
*The objective of this study was to develop a population model of the...*4th March, 2009  
School of Pharmacy, The University of Queensland, St Lucia, Queensland,- *Ther Drug Monit.* 2008 Dec;30(6):709-16. ([DOI Direct Link](#))
  - [\[The EMIT Tacrolimus assay: development of application protocol for Roche Hitachi 902 analyzer\]](#)  
*Tacrolimus (FK506, Prograf) is a potent macrolide immunosuppressant used...*21st February, 2009  
Universite d'Alger Benyoucef Benkhedda, Faculte de medecine, Laboratoire- *Ann Biol Clin (Paris).* 2008 Nov-Dec;66(6):657-64. ([DOI Direct Link](#))
  - [Comparison of a new enzymatic assay with a high-performance liquid chromatography/ ultraviolet detection method for therapeutic drug monitoring of mycophenolic acid in adult liver transplant recipients.](#)  
*Mycophenolic acid (MPA) is used to prevent graft rejection. The methods...*16th January, 2009  
Laboratoire de Pharmacologie-Toxicologie, Service de Pharmacie, GH- *Liver Transpl.* 2008 Dec;14(12):1745-51. ([DOI Direct Link](#))
  - [Cross-reactivity of nefopam and its metabolites with benzodiazepine EMIT immunoassay.](#)  
*Mycophenolic acid (MPA) is used to prevent graft rejection. The methods...*7th January, 2009  
- *J Anal Toxicol.* 2008 Nov-Dec;39(9):790-2.
  - [Comparison of high-performance liquid chromatography and enzyme-multiplied immunoassay technique to monitor mycophenolic acid in paediatric renal recipients.](#)  
*Therapeutic drug monitoring (TDM) of mycophenolate mofetil (MMF) is...*19th November, 2008  
Department of Paediatric Pharmacology and Pharmacogenetics, Hopital Robert- *Pediatr Nephrol.* 2008 Oct;23(10):1859-65. Epub 2008 Jul 2. ([DOI Direct Link](#))

## Enzyme Multiplied Immunoassay Technique Patents:



- 7063841- [Mammalian cell surface antigens; related reagents](#)
- 7205381- [Mammalian cytokines; related reagents and methods](#)
- 7241438- [AK155 polypeptides](#)
- 7270816- [IL-1-like cytokine antibodies](#)
- 7271248- [Human receptor proteins; related reagents and methods](#)
- 7276238- [Methods for using chemokine teck](#)
- 7279460- [Chemokine TECK polypeptides](#)
- 7303922- [Reagentless analysis of biological samples by applying mathematical algorithms to smoothed spectra](#)
- 7307146- [DNAXCCR10](#)
- 7319140- [Binding compounds to DAP12 proteins](#)
- 7320796- [Isolation, identification and characterization of tmst2, a novel member of the TNF-receptor supergene family](#)
- 7205162- [Artificial antibodies, method of producing the same and use thereof](#)
- 7183382- [Mammalian genes; related reagents and methods](#)
- 7179467- [DCMP2 polypeptide](#)
- 7071308- [Cytokine receptor](#)
- 7090847- [Mammalian cytokines; related reagents and methods](#)
- 7101987- [CCL27 polypeptides](#)
- 7108850- [Polypeptides of an IL-1-like cytokine](#)
- 7115379- [Anti-mammalian CX3C cytokine antibodies](#)
- 7118863- [Methods for detecting NTR3 nucleic acids by hybridization](#)
- 7132508- [Mammalian chemokine reagents](#)
- 7148330- [Binding compounds for IL-27](#)
- 7157551- [Compositions and methods for the detection and treatment of methylthioadenosine phosphorylase deficient cancers](#)
- 7166283- [Methods of treating an inflammatory disorder and prohibiting proliferation, cytokine production, and signal transduction with antibody against costimulatory signal transduction molecule AILIM](#)
- 7332574- [MDL-1 polypeptides](#)
- 7342103- [DIRS1 antibodies](#)
- 7538252- [Drug design for tubulin inhibitors, compositions, and methods of treatment thereof](#)
- 7541438- [Monoclonal antibody against connective tissue growth factor and medicinal uses thereof](#)
- 7544519- [Fhm a novel member of the TNF ligand supergene family: materials and methods for interaction modulators](#)
- 7560239- [Homogeneous enzyme immunoassay for simultaneous detection of multiple analytes](#)
- 7560533- [Binding compounds specific for cysteine-rich soluble protein C23](#)
- 7569224- [Mammalian cytokines; receptors; related reagents and methods](#)
- 7579440- [Mammalian cytokines; related reagents](#)
- 7585502- [Mammalian CX.sub.3C chemokine antibodies](#)
- 7588895- [Biomarkers for oral tongue cancer metastasis and extracapsular spread \(ECS\)](#)
- 7601815- [Anti-CCL27 antibodies](#)
- 7537932- [Antibodies that bind purified mammalian FLT3 ligands](#)
- 7534867- [Purified mammalian Flt3 ligands; agonists; antagonists](#)
- 7510853- [Nucleic acids encoding DCRS5](#)
- 7390481- [Mammalian cytokine complexes](#)
- 7393530- [IL-1-like cytokine antibodies](#)
- 7411041- [DCRS5 polypeptides](#)
- 7422743- [Mammalian receptor protein DCRS5;methods of treatment](#)
- 7427668- [Antibodies binding the TNF related protein, TNF-Y](#)
- 7431924- [Methods of treating inflammation using mammalian CX.sub.3C chemokine antibodies](#)
- 7452968- [Secreted protein factor and cell membrane-bound splice variant](#)
- 7468187- [Canine influenza virus and related compositions and methods of use](#)

- 7482426- [C23 Polypeptides](#)
- 7491500- [Mammalian cytokine; related reagents](#)
- 7608690- [IL-B30 antibodies](#)

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