Patents by Inventor Edward Lewis Tobinick

Edward Lewis Tobinick has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

- **Methods for treatment of brain injury utilizing biologics**

  **Patent number:** 8900583
  **Abstract:** A method of using biologics to treat chronic brain injury or spasticity due to stroke, trauma and other causes. Preferred embodiments include perispinal, parenteral, transepidermal or intranasal use of TNF antagonists. The TNF antagonists include TNF receptor fusion proteins, TNF monoclonal antibodies (mAbs), humanized TNF mAbs, fully human TNF mAbs, chimeric TNF mAbs, domain TNF antibodies, mAB fragments, anti-TNF nanobodies, dominant negative TNF constructs and TNF inhibitory single chain antibody fragments. One of the preferred embodiments of this invention is the perispinal administration of etanercept for treatment of mammals following stroke. The use of Trendelenburg positioning, catheters, pumps, or depot formulations are included.
  **Type:** Grant
  **Filed:** October 31, 2011
  **Date of Patent:** December 2, 2014
  **Assignee:** TACT IP LLC
  **Inventor:** Edward Lewis Tobinick

- **Methods for treatment of brain injury utilizing biologics**

  **Publication number:** 20130224197
  **Abstract:** A method of using biologics to treat chronic brain injury or spasticity due to stroke, trauma and other causes. Preferred embodiments include perispinal, parenteral, transepidermal or intranasal use of TNF antagonists. The TNF antagonists include TNF receptor fusion proteins, TNF monoclonal antibodies (mAbs), humanized TNF mAbs, fully human TNF mAbs, chimeric TNF mAbs, domain TNF antibodies, mAB fragments, anti-TNF nanobodies, dominant negative TNF constructs and TNF inhibitory single chain antibody fragments. One of the preferred embodiments of this invention is the perispinal administration of etanercept for treatment of mammals following stroke. The use of Trendelenburg positioning, catheters, pumps, or depot formulations are included.
  **Type:** Application
  **Filed:** October 31, 2011
  **Publication date:** August 29, 2013
  **Applicant:** TACT IP LLC
  **Inventor:** Edward Lewis Tobinick

- **METHODS TO FACILITATE TRANSMISSION OF LARGE MOLECULES ACROSS THE BLOOD-BRAIN, BLOOD-EYE, AND BLOOD-NERVE BARRIERS**

  **Publication number:** 20130022540
  **Abstract:** A method for delivering a biologic to a human, comprising administering said biologic parenterally into the perispina! space of said human without direct intrathecal injection and positioning said human in a Trendelenburg position.
  **Type:** Application
  **Filed:** July 23, 2012
  **Publication date:** January 24, 2013
  **Applicant:** TACT IP LLC
  **Inventor:** Edward Lewis Tobinick

- Methods to facilitate transmission of large molecules across the blood-brain, blood-eye, and blood-nerve barriers

  **Patent number:** 8236306
  **Abstract:** A method for delivering a biologic to a human, comprising administering said biologic parenterally into the perispinal space of said human without direct intrathecal injection and positioning said human in a Trendelenburg position.
  **Type:** Grant
  **Filed:** October 19, 2009
  **Date of Patent:** August 7, 2012
  **Inventor:** Edward Lewis Tobinick

- Methods to facilitate transmission of large molecules across the blood-brain, blood-eye, and blood-nerve barriers

  **Publication number:** 20100129359
  **Abstract:** A method for delivering a biologic to a human, comprising administering said biologic parenterally into the perispinal space of said human without direct intrathecal injection and positioning said human in a Trendelenburg position.
  **Type:** Application
  **Filed:** October 19, 2009
  **Publication date:** May 27, 2010
  **Inventor:** Edward Lewis Tobinick

- Methods to facilitate transmission of large molecules across the blood-brain, blood-eye, and blood-nerve barriers

  **Patent number:** 7629311
  **Abstract:** A method for delivering a biologic to a human with Alzheimer's-related dementia, comprising administering the biologic parenterally into the perispinal space of the human without direct intrathecal injection, and thereafter positioning the human's head below the horizontal. The method further includes delivering a TNF antagonist to the brain of a human for treating mild cognitive impairment, Alzheimer's related dementia, or vascular dementia, comprising administering the TNF antagonist golimumab parenterally into the perispinal space of the human without direct intrathecal injection, and thereafter positioning the human in a Trendelenburg position, for delivery of the golimumab to the brain via the human's vertebral venous system.
  **Type:** Grant
  **Filed:** November 17, 2006
  **Date of Patent:** December 8, 2009
  **Inventor:** Edward Lewis Tobinick

- Methods of perispinal extrathecal administration of large molecules for diagnostic use in mammals

  **Publication number:** 20090130019
  **Abstract:** This application concerns novel methods which enable or improve the ability of molecules, particularly large molecules, to cross the blood-brain barrier, the blood-eye barrier, and/or the blood-nerve barrier and therefore be of improved diagnostic and/or therapeutic use in humans and other mammals. These methods involve perispinal administration of imaging agents without direct intrathecal injection. Perispinal administration is defined as administration of the molecule into the anatomic area within 10 cm of the spine. Perispinal administration results in absorption of the imaging agent into the vertebral venous system.
  **Type:** Application
  **Filed:** November 21, 2007
  **Publication date:** May 21, 2009
  **Applicant:** TACT IP, LLC
  **Inventor:** Edward Lewis Tobinick

- Use and methods of use of etanercept and other TNF binding biologics to improve human cognitive function

  **Publication number:** 20060009450
  **Abstract:** The present invention provides specific methods of using and administering etanercept to improve cognitive function in a human, for both the treatment and prevention of cognitive impairment, or, alternatively, to enhance cognitive function in three different broad categories of conditions: 4. Cognitive impairment which is characteristic of certain neurological disorders (for example Alzheimer's Disease, Idiopathic Dementia, and Traumatic Brain Injury); 5. Cognitive impairment which accompanies certain systemic or localized non-neurological conditions which are known or suspected to be associated with increased TNF (for example rheumatoid arthritis, psoriasis, and cancer cachexia); and 6. To enhance cognitive function in individuals in whom there is either no brain pathology or in whom the existence of brain pathology is either unknown or undefined, including a human without known disease.
  **Type:** Application
  **Filed:** December 18, 2004
  **Publication date:** January 12, 2006
  **Inventor:** Edward Lewis Tobinick

- Cytokine antagonists for neurological and neuropsychiatric disorders

  **Patent number:** 6982089
  **Abstract:** Methods for treating neurological or neuropsychiatric diseases or disorders in humans by administering to the human a therapeutically effective dose of specific biologics are presented. The biologics of consideration include antagonists of tumor necrosis factor or of interleukin-1. The administration of these biologics is performed by specific methods, most, but not all of which fall into the category of anatomically localized administration designed for perispinal use. Anatomically localized administration involving perispinal use includes, but is not limited to the subcutaneous, intramuscular, interspinous, epidural, peridural, parenteral or intrathecal routes. Additonally, intranasal administration is discussed as a method to provide therapeutic benefit.
  **Type:** Grant
  **Filed:** October 9, 2002
  **Date of Patent:** January 3, 2006
  **Assignee:** TACT IP, LLC
  **Inventor:** Edward Lewis Tobinick

- TNF inhibition for the treatment of pre-menstrual syndrome and primary dysmenorrhea

  **Publication number:** 20030113318
  **Abstract:** Methods for treating pre-menstrual syndrome and primary dysmenorrhea in humans by administering to the human a therapeutically effective dose of specific biologics are presented. The biologics of consideration include antagonists of tumor necrosis factor alpha. The administration of these biologics is performed by specific methods, including parenteral, intranasal, or anatomically localized administration designed for perispinal use. Anatomically localized administration involving perispinal use includes, but is not limited to the subcutaneous, intramuscular, interspinous, epidural, peridural, parenteral or intrathecal routes.
  **Type:** Application
  **Filed:** January 13, 2003
  **Publication date:** June 19, 2003
  **Inventor:** Edward Lewis Tobinick

- Cytokine antagonists for neurological and neuropsychiatric disorders

  **Publication number:** 20030049256
  **Abstract:** Methods for treating neurological or neuropsychiatric diseases or disorders in humans by administering to the human a therapeutically effective dose of specific biologics are presented. The biologics of consideration include antagonists of tumor necrosis factor or of interleukin-1. The administration of these biologics is performed by specific methods, most, but not all of which fall into the category of anatomically localized administration designed for perispinal use. Anatomically localized administration involving perispinal use includes, but is not limited to the subcutaneous, intramuscular, interspinous, epidural, peridural, parenteral or intrathecal routes. Additonally, intranasal administration is discussed as a method to provide therapeutic benefit.
  **Type:** Application
  **Filed:** October 9, 2002
  **Publication date:** March 13, 2003
  **Inventor:** Edward Lewis Tobinick

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