



Recent patents in proteomics

Patent #	Subject	Assignee	Author	Priority application date	Publication date
WO 200072004	Determining the three-dimensional structure or conformation of a protein or other macromolecule, determining the structural aspects of other macromolecules (e.g., structural relationships of RNA, DNA, and/or the relationship of interactions of these molecules with proteins), and analyzing the results of genomic and proteomic studies, using an integrated technique of determining physical distance constraints and analysis of constraint information.	University of California (Oakland, CA)	Dollinger G, Gibson BW, Hempel JC, Kuntz ID, Oshiro CM, Tang N, Taylor E	5/26/1999	11/30/2000
WO 200063683	Novel methods for separating and identifying a polypeptide species from a sample solution by electrophoresis and mass spectrographic fragmentation; useful for preparing protein fingerprints.	Target Discovery (San Carlos, CA)	Hall MP, Peterson JN, Petesch R, Schneider LV	2/25/2000	10/26/2000
WO 200045168	A method for identifying or characterizing polypeptides that have been isolated on a gel, involving electroblotting gel-digested fragments onto hydrophobic membranes containing immobilized enzymes; useful in proteomics research.	University of Geneva (Switzerland)	Bienvenut WV, Hochstrasser DF, Sanchez J	4/7/1999	8/3/2000
WO 200043792	Determining the amino acid sequence of a poly-peptide by derivatizing the N terminus of the poly-peptide with acidic moieties, analyzing derivatized products using mass spectrometric techniques, and interpreting the fragmentation pattern. Applications include identification of post-trans-lational modifications in proteins, identification of amino acid modifications in variant proteins used in, for example, commercial laundry and cleansing products, designing oligonucleotide probes for gene cloning, rapid characterization of products formed in directed-evolution studies, combinatorial chemistry and peptide libraries, and proteomics.	Procter & Gamble (Cincinnati, OH)	Keough TW, Youngquist RS	9/29/1999	7/27/2000
WO 200029444	Generating antibodies in an avian species by vaccination with DNA encoding the antigen operably linked to a suitable promoter; provides a fast and economically feasible method for generating antibodies to be used in large-scale proteomics research.	Duan L; Genway Biotech (San Diego, CA)	Duan L	11/16/1998	5/25/2000
WO 200004390	Devices for screening different biological moieties in parallel for the ability to interact with a component of a fluid sample, for detecting ligands or analytes, and for pairing substrates/ligands and proteins; useful for drug development, functional proteomics, clinical diagnostics, and biosensors.	Zyomyx (Hayward, CA)	Ault-Riche D, Itin C, Nock S, Wagner P	7/14/1998	1/27/2000
WO 200004382	Protein arrays used for screening peptides for their ability to interact with a component of a sample; useful in assaying for protein-protein binding interactions or analytes, in drug development, functional proteomics, clinical diagnostics, and biosensors.	Zyomyx (Hayward, CA)	Ault-Riche D, Itin C, Nock S, Wagner P	7/14/1998	1/27/2000
CA 2244947	Electroblotting methods and apparatus for identifying polypeptides separated by gel electrophoresis on the same gel; useful in proteomics research.	University of Geneva (Switzerland)	Bienvenut WV, Hochstrasser DF	6/30/1998	12/30/1999

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