

Recent patent applications in proteomics

| Patent # | Subject | Assignee | Inventor(s) | Priority application date | Publication date |
|----------------|---|--|---|---------------------------|------------------|
| JP 2004361086 | A biomolecule analysis apparatus comprising an acquisition unit to acquire the 3D image corresponding to an observation region of a biological sample and a setting unit to set an arbitrary measuring point on the acquired image; useful for analyzing dynamic behavior of a biomolecule during pharmaceutical, genome and proteome analysis. | Olympus Optical Co. (Tokyo) | – | 5/30/2003 | 12/24/2004 |
| WO 2004111636 | A method for identifying a peptide combination corresponding to a family of proteins, comprising generating peptides by applying a digest on a family of proteins; useful for diagnosing a variety of diseases, drug development or in agriculture. | University of Gent (Belgium); VIB (Gent, Belgium) | Kas K, Krols L, Vandekerckhove J | 6/17/2003 | 12/23/2004 |
| WO 2004111260 | A method for affixing microparticles to a substrate surface; used in the production of microbead-based microarrays for use in genomics and proteomics. | BioArray Solutions (Warren, NJ, USA) | Banerjee S, Huang H | 6/12/2003 | 12/23/2004 |
| US 20040259221 | A method for recovering and separating nuclear proteins from a cellular sample, involving separating cell nuclei from cytoplasmic proteins, recovering the cell nuclei, and extracting and separating nuclear proteins from the cell nuclei without the need for a dialysis step in between. The method is suitable for high-throughput proteomic research applications. | Large Scale Biology Corp. (Vacaville, CA, USA) | Zhao M | 5/21/2003 | 12/23/2004 |
| US 20040248108 | A porous polymeric article comprising a polymeric substrate having a first surface with several pores and a nonvolatile coating of diamond-like glass over at least a portion of the pores; useful for receiving analytes and their subsequent desorption, and for hold samples during mass spectrometry analysis in proteomics applications. | 3M Innovative Properties (St. Paul, MN, USA) | Lakshmi BB, Chong Conklin BE | 6/9/2003 | 12/9/2004 |
| WO 2004106891 | A sensor for the simultaneous detection of multiple analytes in a sample, comprising a receptor for the analyte of interest bound to the active region of a field effect transistor; used in medical diagnostics, proteomics, genomics and other applications. | Holm-Kennedy JW; University of Hawaii (Honolulu, HI, USA) | Holm-Kennedy JW | 10/31/2003 | 12/9/2004 |
| US 20040241880 | A method for determining the presence of fluorescently labeled analytes in samples; useful in various ligand array-based applications including genomic and proteomic applications. | Ke WW; LeProust EM; Peck BJ; Roitman DB; Agilent Technologies (Palo Alto, CA, USA) | Ke WW, LeProust EM, Peck BJ, Roitman DB | 5/30/2003 | 12/2/2004 |
| WO 2004103512 | A method for separating a mixture of molecular species into single-molecular-species solutions, comprising introducing a matrix into a separation channel with a non-convex cross section, introducing the mixture of molecular species at one end of the separation channel, and applying a force to the separation channel to induce migration of the molecular species along the length of the separation channel; useful for the separation and purification of molecules including biopolymers such as proteins, glycoproteins, polysaccharides and other cellular components. | Chiu DT; Kou JS; Lim DSW; University of Washington (Seattle, WA, USA) | Chiu DT, Kou JS, Lim DSW | 5/15/2003 | 12/2/2004 |
| US 20040222382 | An ion and electron generating system used for mass spectrometers, ion mobility spectrometers, quadrupole mass spectrometers, magnetic sector mass spectrometers and valance spectrometers to characterize genetic material and proteins for use in fields such as proteomics, drug discovery and diagnostics. | Ionfinity (Altadena, CA, USA) | Hartley FT | 2/26/2004 | 11/11/2004 |

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