

## PATENTS

## Recent patents in high-throughput screening

Patent #	Subject	Assignee	Author	Date	Status
WO 200016231	Iteratively screening a compound library, useful in drug development, based on the selection of compounds with the required in vivo absorption profile. The method is adaptable for high-throughput screening, and the initial selection stage reduces the primary library to manageable size.	Navicyte (San Diego, CA)	Grass GM, Leesman GD, Norris DA, Sinko PJ, Wehrli JE	3/23/2000	A1
WO 200014540	Rapid screening of large numbers of analytes, e.g., liquid chemical compounds applied onto a solid support that is contacted with targets; used especially in the screening of compounds for use as potential drugs.	Tibotec (Anvers, Belgium)	Pauwels RWJ, Roelant CHS, van Acker KLA	3/16/2000	A1
DE 19840545	Identifying protease substrates and inhibitors that are potentially useful for treating tumor invasion; the HTS method comprises reacting test samples with immobilized substrate containing a fluorescent donor-acceptor pair.	Jerini Biotools (Berlin, Germany)	Germeroth L, Reineke U, Schneider- Mergener J	3/9/2000	A1
WO 200012755	Screening for antitumor and antimicrobial agents by testing the ability of compounds to inhibit choline kinase. The method allows high-throughput screening of natural or synthetic compounds, and by using CK of various origins, very specific inhibitors may be identified.	Higher Council for Scientific Research (Madrid, Spain)	Lacal San Juan JC	3/9/2000	A1
WO 200012705	G protein-coupled receptors with a mutation in an intracellular domain, enabling improved agonist-stimulated growth and/or functioning of GPCRs which fail to function in their wild-type forms; useful for high-throughput screening assays for, e.g., drugs, insecticides, or nematocides.	Pausch MH; Wess J	Pausch MH, Wess J	3/9/2000	A2
WO 200011216	Drug screening using transformed cells selected for a specific phenotype. The method provides a fast, high-throughput screen for targets where nucleic acid or protein sequence data are not available.	Bristol-Myers Squibb (Princeton, NJ)	Robinson GW, Verdoorn TA, Weaver CD	3/2/2000	A1
US 6027873	A multi-hole testing plate for high-throughput screening; the plate has a number of holes passing through it from one side to another (rather than wells), and is partially immersed in the solution to be tested. The samples of solution are retained in the holes by surface tension.	Genencor Intl. (Rochester, NY)	Lui AD, Schellen- berger V	2/22/2000	A
DE 19835071	A transport system for handling microtiter plates that overcomes performance limitations of conventional systems associated with the time needed to move the robot arm and the need to maintain fixed time intervals between process steps, useful for high-throughput screening, diagnostics, and combinatorial chemistry.	Carl Zeiss (Jena, Germany); F. Hoffmann- La Roche (Basel, Switzerland)	Ameling R, Enderle T, Fattinger C, Gluch M, Tschirky H	2/10/2000	A1
WO 200003805	A microtiter reaction system for high-throughput screening and combinatorial chemistry comprising a reaction-well support rack, over which is a gas-permeable layer. Cross-contamination, spillage, and evaporation from individual reaction wells are eliminated, and a sealed environment ensures that the contents of the wells are not exposed to the external environment.	CombiChem (San Diego, CA)	Cohen J, Gubernator KM, Zambias RA	1/27/2000	A1
WO 200002899	An improved peptide nucleic acid universal library comprising at least one universal nucleotide base located internally in each oligomer species within the library; useful in HTS for identifying novel regulators acting by specific modulation of the selected gene involved in diseased conditions, thereby predicting the most appropriate therapeutic and/or diagnostic candidates.	Biocept (Carlsbad, CA)	Fagnani R, Hahn S, Patron A	1/20/2000	A1
WO 200002045	A high-throughput screening method for diagnosing and/or dosing agonists and/or antagonists or any other modulators for calcium-coupled receptor or calcium-coupled channel or other calcium-coupled protein.	Euroscreen (Brussels, Belgium)	Detheux M, Dupriez V, Parmentier M	1/13/2000	A2
US 6007690	Integrated microfluidic devices for use in electrophoretic applications, including clinical assays, high-throughput screening for genomics and pharmaceutical applications, point-of-care in vitro diagnostics, cell separations, and bioresearch.	Aclara Biosciences (Mountain View, CA)	Hauser AK, Hooper HH, Nelson RJ, Sassi AP	12/28/1999	A

Source: Derwent Information, Alexandria, VA. \*The patents in the table are pending. The status of each application is slightly different from country to country. For further details, contact Derwent Information, 1725 Duke St., Suite 250, Alexandria, VA 22314. Tel: 1 (800) DERWENT (info@derwent.com).