

FP:(BIOCHROM LIMITED)

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1. [WO/2013/079916](#) DEVICE FOR RECEIVING SMALL VOLUME LIQUID SAMPLES

WO - 06.06.2013

Int.Class [G01N 21/03](#) Appl.No PCT/GB2012/052778 Applicant BIOCHROM LIMITED Inventor GIFFORD, Graham Eric

Title: Improvements in and relating to devices for receiving liquid samples A device for receiving a liquid sample may form part of a micro sampling head for an instrument such as a spectrophotometer. The device receives a liquid sample to be analysed by a process involving the passing of electromagnetic radiation through the sample, and comprises a light inlet guide [20] for directing electromagnetic radiation into the sample, a light receiving element [23] situated in an opposed relationship to the guide and spaced from the guide by a fixed distance to define a fixed path length gap [21], which is, in use, filled with the sample. In use, radiation is passed from the light inlet guide to the light receiving element [23], and the path length of radiation through the sample is defined by the gap [23]. The device is open or openable to allow a droplet of sample to be deposited directly in the gap.

2. [WO/2000/075632](#) DISPOSABLE SAMPLE HOLDER

WO - 14.12.2000

Int.Class [G01J 3/42](#) Appl.No PCT/GB2000/002154 Applicant BIOCHROM LIMITED Inventor HUMAN, Michael

Disclosed is disposable sample holder suitable for use in ultra violet (UV) spectrophotometry, the sample holder comprising a body portion which is substantially opaque to UV radiation, and a window portion which is substantially transmissive of UV radiation, the window portion being positioned so as to be aligned with UV radiation incident upon the sample holder when the sample holder is placed in a spectrophotometer.

3. [WO/2013/027037](#) CUVETTE

WO - 28.02.2013

Int.Class [G01N 21/03](#) Appl.No PCT/GB2012/052024 Applicant BIOCHROM LIMITED Inventor GIFFORD, Graham Eric

A cuvette for releasably retaining a liquid sample in position in analytical apparatus, such as a spectrophotometer, has a body which is elongate and which has first and second parts [8, 10]. The body contains a chamber [40, 50, 52] for holding the sample and the chamber has an internal surface respective parts of which are carried on the two body portions. Either portion is moveable away from the other to open the chamber so as to allow access to the latter at a position spaced from the ends of the body.

4. WO/2007/144583 ANALYTICAL APPARATUS

WO - 21.12.2007

Int.Class G01N 21/25 Appl.No PCT/GB2007/002129 Applicant BIOCHROM LIMITED Inventor LARGE, Timothy, Andrew

Apparatus for analysing a liquid sample [194] comprises beam generating means [1] for generating electromagnetic radiation, detector means [8] for detecting electromagnetic radiation from the beam generating means after the radiation has interacted with the sample, and sample retaining means [10] for releasably retaining sample in the path of the beam. The sample retaining means comprises a hydrophobic surface [for example, a coating on a plate 118] on which the sample is, in use, supported. There is also disclosed a method of performing photometric or spectrophotometric analysis of a liquid sample by sandwiching samples between two opposed hydrophobic support surfaces, passing a beam of electromagnetic radiation through one of the surfaces and then through the sample, and analysing the beam after it has passed through the sample.

5. WO/1986/003494 METHOD FOR A SOLID PHASE SYNTHESIS OF A LINEAR COMBINATION OF AMINO ACID RESIDUES WO - 19.06.1986

Int.Class C07K 1/08 Appl.No PCT/GB1985/000573 Applicant LKB BIOCHROM LIMITED Inventor SHEPPARD, Robert

Method for a solid phase synthesis of a linear combination of amino acid residues, linked via peptide bonds, starting with an amino acid residue covalently linked to a support and protected by an N-alpha-amino protecting group, comprising the following steps: [a] removing the N-alpha-amino protecting group to obtain an N-alpha-amino group, [b] adding an amino acid residue protected by an N-alpha-amino protecting group, via a peptide bond, to the N-alpha-amino group obtained in step [a] by use of a reactive protected amino acid derivative and, where necessary, a catalyst, [c] repeating steps [a] and [b] until the said linear combination has been obtained. According to the invention the said reactive protected amino acid derivative has the acyl group used to form the peptide bond activated as a pentafluorophenyl ester.

6. 2286733 MICROSTEPPING DRIVE FOR A SPECTROPHOTOMETER

GB - 25.05.1994

Int.Class G01J 3/06 Appl.No 9406295 Applicant PHARMACIA LKB BIOCHROM LIMITED Inventor GIFFORD GRAHAM ERIC

The diffraction device, such as a diffraction grating, of a spectrophotometer, is rotated by a stepper motor in which the two windings are supplied in quadrature. The stepper motor may be a vernier motor with an unequal number of poles on the stator and rotor, and preferably has about 200 steps per revolution. The grating may be attached directly to the motor shaft without a gearbox.

7. WO/2009/023961 PTHRP, ITS ISOFORMS AND ANTAGONIST THERETO IN THE DIAGNOSIS AND TREATMENT OF DISEASE

WO - 26.02.2009

Int.Class C12N 15/11 Appl.No PCT/CA2008/001478 Applicant BIOCHROM PHARMA INC. Inventor KREMER, Richard



The present invention is directed to the diagnosis and treatment of diseases, preferably the inhibition of tumor growth and its progression to metastatic sites, through the inhibition of the action or production of PTHrP, its isoforms or PTHrP signalling. An aspect of the present invention is also directed to methods of inhibiting the PTHrP1-173 isoform through antagonists thereof, including monoclonal antibodies and siRNA directed there against. The invention may be applicable to many disease states, including but not limited to several types of cancer (including epithelial cancers such as breast, lung, colon, pancreatic, ovarian, prostate and squamous as well as melanoma) expressing PTHrP and its isoforms, alone or in combination with other therapeutic agents.

8. 20140356234 DEVICE FOR RECEIVING SMALL VOLUME LIQUID SAMPLES

US - 04.12.2014

Int.Class G01N 21/01 Appl.No 14362206 Applicant Biochrom Limited Inventor Graham Eric Gifford

Improvements in and relating to devices for receiving liquid samples A device for receiving a liquid sample may form part of a micro sampling head for an instrument such as a spectrophotometer. The device receives a liquid sample to be analyzed by a process involving the passing of electromagnetic radiation through the sample, and comprises a light inlet guide [20] for directing electromagnetic radiation into the sample, a light receiving element [23] situated in an opposed relationship to the guide and spaced from the guide by a fixed distance to define a fixed path length gap [21], which is, in use, filled with the sample. In use, radiation is passed from the light inlet guide to the light receiving element [23], and the path length of radiation through the sample is defined by the gap [23]. The device is open or openable to allow a droplet of sample to be deposited directly in the gap.

9. 20100060879 ANALYTICAL APPARATUS

US - 11.03.2010

Int.Class G01J 3/00 Appl.No 12304225 Applicant Biochrom Limited Inventor Large Timothy Andrew

Apparatus for analysing a liquid sample [194] comprises beam generating means [1] for generating electromagnetic radiation, detector means [8] for detecting electromagnetic radiation from the beam generating means after the radiation has interacted with the sample, and sample retaining means [10] for releasably retaining sample in the path of the beam. The sample retaining means comprises a hydrophobic surface [for example, a coating on a plate 118] on which the sample is, in use, supported. There is also disclosed a method of performing photometric or spectrophotometric analysis of a liquid sample by sandwiching samples between two opposed hydrophobic support surfaces, passing a beam of electromagnetic radiation through one of the surfaces and then through the sample, and analysing the beam after it has passed through the sample.

10. 5031/KOLNP/2008 ANALYTICAL APPARATUS

IN - 27.03.2009

Int.Class G01N 21/25 Appl.No 5031/KOLNP/2008 Applicant BIOCHROM LIMITED Inventor LARGE, TIMOTHY, ANDREW

Apparatus for analysing a liquid sample [194] comprises beam generating means [1] for generating electromagnetic radiation, detector means [8] for detecting electromagnetic radiation from the beam generating means after the radiation has interacted with the sample, and sample retaining means [10] for releasably retaining sample in the path of the beam. The sample retaining means comprises a hydrophobic surface [for example, a coating on a plate 118] on which the sample is, in use, supported. There is also disclosed a method of performing photometric or spectrophotometric analysis of a liquid sample by sandwiching samples between two opposed hydrophobic support surfaces, passing a beam of electromagnetic radiation through one of the surfaces and then through the sample, and analysing the beam after it has passed through the sample.



