

Title (en)
DEVICES AND METHODS FOR NUCLEIC ACID PREPARATION AND ANALYSIS

Title (de)
VORRICHTUNGEN UND VERFAHREN ZUR NUKLEINSÄUREHERSTELLUNG UND -ANALYSE

Title (fr)
DISPOSITIFS ET MÉTHODES DE PRÉPARATION ET D'ANALYSE D'ACIDES NUCLÉIQUES

Publication
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Application
EP 13778675 A 20130418

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- US 201261635221 P 20120418
- US 201261625745 P 20120418
- US 201261635263 P 20120418
- US 201361784399 P 20130314
- US 201361783601 P 20130314
- US 201361784061 P 20130314
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Abstract (en)
[origin: WO2013158860A1] The invention provides in part a device for preparing a fluid sample, including but not limited to a sample comprising genomic DNA. The invention also provides in part structures and methods that allow polymers of any length, including nucleic acids, to be stretched into a long, linear conformation for further analysis. The invention also provides in part devices and methods for improving labeling of nucleic acids including intercalation of nucleic acids using for example mono intercalators such as mono cyanine intercalators. The invention also provides in part methods for analyzing populations nucleic acids including nucleic acids from different subjects or different samples such as bacteria in biomes, and for identifying nucleic acids present in such populations. A non-limiting example is an analysis of bacteria in biomes. Another example is an analysis of DNA from different human subjects.

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Citation (search report)

- [I] WO 0009757 A1 20000224 - U S GENOMICS [US], et al
- [I] WO 0113088 A1 20010222 - US GENOMICS INC [US]
- [I] WO 2004091795 A2 20041028 - US GENOMICS INC [US], et al
- [I] CHAN E Y ET AL: "DNA mapping using microfluidic stretching and single-molecule detection of fluorescent site-specific tags", GENOME RESEARCH, COLD SPRING HARBOR LABORATORY PRESS, vol. 14, no. 6, 1 June 2004 (2004-06-01), pages 1137 - 1146, XP002346048, ISSN: 1088-9051, DOI: 10.1101/GR.1635204
- [A] BAKAJIN O B ET AL: "ELECTROHYDRODYNAMIC STRETCHING OF DNA IN CONFINED ENVIRONMENTS", PHYSICAL REVIEW LETTERS, AMERICAN PHYSICAL SOCIETY, US, vol. 80, no. 12, 23 March 1998 (1998-03-23), pages 2737 - 2740, XP000980688, ISSN: 0031-9007, DOI: 10.1103/PHYSREVLETT.80.2737
- See references of WO 2013158860A1

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