

Title (en)
MOLECULAR NETS ON SOLID PHASES

Title (de)
MOLEKULARE NETZE AUF FESTPHASEN

Title (fr)
FILETS MOLÉCULAIRES SUR PHASES SOLIDES

Publication
EP 2972343 A4 20160824 (EN)

Application
EP 14768268 A 20140314

Priority

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Abstract (en)
[origin: WO2014153262A1] Disclosed is a covalently-linked multilayered three-dimensional matrix comprising capture molecules, linkers and spacers (referred to as a Molecular Net) for specific and sensitive analyte capture from a sample. Also disclosed herein is a Molecular Net comprising covalently- linked multilayered three-dimensional matrix comprising more than one type of capture molecule and more than one type of linker and may comprise one or more spacer for specific and sensitive capture of more than one type of analyte from a sample. A Molecular Net may comprise a pseudorandom nature. Use of various capture molecules, linkers and spacers in a Molecular Net may confer unique binding properties to a Molecular Net. Porosity, binding affinity, size exclusion abilities, filtration abilities, concentration abilities and signal amplification abilities of a Molecular Net may be varied and depend on the nature of components used in its fabrication. Uses of a Molecular Net may include analyte capture, analyte enrichment, analyte purification, analyte detection, analyte measurement and analyte delivery. Molecular Nets may be used in liquid phase or on solid phases such as nanomaterials, modified metal surfaces, nanospheres, microspheres, microtiter plates, slides, pipettes, cassettes, cartridges, discs, probes, lateral flow devices, microfluidics devices, microfluidics devices, optical fibers and others.

IPC 8 full level
G01N 33/53 (2006.01); **C12M 1/00** (2006.01); **C12Q 1/00** (2006.01); **G01N 33/543** (2006.01)

CPC (source: EP)
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Citation (search report)

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Designated contracting state (EPC)
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