

Patent title:	Sensor for the detection of biomolecules in a biological fluid by chemiluminescence reaction (Sensore per la rivelazione di biomolecole in un fluido biologico tramite reazione di chemiluminescenza)
FBK center:	CMM
Inventor(s):	Potrich Cristina (Fondazione Bruno Kessler), Pederzolli Cecilia (Fondazione Bruno Kessler), Lunelli Lorenzo (Fondazione Bruno Kessler), Boscardin Maurizio (Fondazione Bruno Kessler), Pancheri Lucio (Università di Trento), Pasquardini Laura (Indivenire srl)
Application number(s):	IT Patent Application No. 102018000008541 — priority date 2018-09-12; International Patent Application No. PCT/IB2019/057489 — filing date 2019-09-05
Bibliographic data:	—
Proprietor(s):	Fondazione Bruno Kessler (Bruno Kessler Foundation)
IP status:	Patent pending. Available for license or assignment
Patent family:	—
Application(s):	Medical diagnostics
Keyword(s):	Quantitative detection of biomolecules, Chemiluminescence
Abstract:	The present invention relates to sensors for the quantitative detection of biomolecules (for example, markers of a certain pathology) in biological fluids. Specific biomolecules are recognized by molecular elements immobilized on a functionalized nanostructured surface of a reaction chamber, and an optical sensor facing the reaction chamber detects the electromagnetic radiation generated by a chemiluminescence reaction.