



## Literature References citing the use of Milenia® HybriDetect

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The Milenia HybriDetect is a universal lateral flow platform that allows researchers all over the world an individual *simple rapid test development*. Today Milenia HybriDetect is frequently cited in more than 300 peer reviewed publications, including high impact journals such as Nature or Science.

*Total number of peer reviewed publications citing Milenia HybriDetect: 329*

Our universal lateral flow strips have developed into a valuable development tool, which is perfectly compatible with DNA amplification methods, especially, but not only, isothermal DNA amplification. The robust and easy-to-handle dipsticks are an interesting alternative for the detection of amplification products in low resource settings. Therefore, many researchers use Milenia HybriDetect to underline the Point-of-Care compatibility of their unique assay. Nucleic acid amplification techniques can be multiplexed, highly specific and extremely sensitive. The combination of DNA amplification and lateral flow is a rapidly evolving field.

*More than 90% of all papers citing Milenia HybriDetect use isothermal DNA amplification!*

So far Milenia® HybriDetect has been successfully combined with the polymerase chain reaction (PCR), isothermal amplification methods like the loop mediated isothermal amplification (LAMP) or recombinase polymerase amplification (RPA). The 2020 pandemic, caused by SARS-CoV-2, brought molecular Point-of-Care compatible diagnostic into public and scientific focus.

Since CRISPR/Cas is getting more and more common for scientists, the combination with lateral flow was just a question of time. The application of CRISPR/Cas in combination with isothermal amplification like RPA or LAMP is rising continuously.

*In 2022, 40 % of publications describe the usage of CRISPR/Cas-based nucleic acid detection*

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## 1. Polymerase Chain Reaction (PCR)

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#### 4. CRISPR/Cas-based Nucleic Acid Detection

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## 5. Special Applications

### 5.1. Rolling Circle Amplification and Lateral Flow

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### 5.2. Aptamers and Lateral Flow

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### 5.3. XNA-based Nucleic Acid Detection

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### 5.4. Thermophilic helicase dependent isothermal Amplification (tHDA)

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### 5.5. Cross Priming Amplification (CPA)

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### 5.6. Recombinase-aided Amplification (RAA)

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### **5.7. EXPONENTIAL AMPLIFICATION REACTION (EXPAR)**

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