



INNOVONS POUR CONSTRUIRE NOTRE AVENIR

Molecular diagnostic kits and medical devices centre

Pr Abdeladim Moumen

From the bench to the market

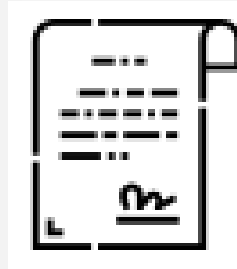
- Promouvoir au Maroc, **des pôles de recherche et de développement technologique**
- Valoriser les résultats de la recherche, à travers le transfert de technologie, la création de spin-off et start-up
- Contribuer à l'émergence au Maroc d'une économie du savoir



2007



+ 650 publications



+ 180
brevets



+ 150
collaborateurs



2 + 5 start-up



+ 100 projets

2021

- ✓ 3 pôles :
Microélectronique
Biotechnologie
Matériaux
- ✓ Plateforme technologique sur
1 750 m²
- ✓ Certifié ISO 9001, OHSAS
18001 et ISO 17025 (En cours)
- ✓ Plusieurs prix et distinctions

The medical biotechnology center of MASciR has been hosting research and development work for ten years now and is organized into two poles :

- **Centre for Diagnostic Kits and Devices:** The development of molecular diagnostic kits for certain infectious and cancerous diseases in Morocco and Africa (Chronic myeloid leukaemia, breast cancer, prostate cancer, hepatitis C, tuberculosis and COVID19)
- **Centre Treatment & Prevention :** The development of a platform dedicated to biosimilar drugs in partnership with a national pharmaceutical manufacturer and a platform for the development of vaccines.

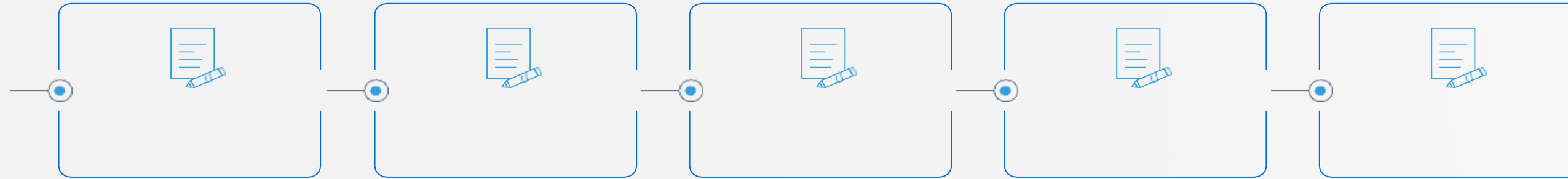




Molecular diagnostic kits and devices

from the bench to the market

centre



Molecular diagnostic tests allow



Identification

Quantification

**Treatment
orientation**

monitoring

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PROBLEM



SOLUTION

All molecular tests are imported



Very expensive

*Development and production of 100 %
made in Morocco tests*

PROBLEM

SOLUTION

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Indeed



We design, develop and clinically validate 100% Moroccan
molecular diagnostic kits

Made in Morocco

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We have



Molecular Diagnostic Development **platform**

Made in Morocco

Molecular diagnostic kits and medical devices

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Our developed, validated and authorised kits

- Chronic Myeloid Leukaemia Diagnostic Kit
- Her2 type breast cancer diagnostic kit
- Hepatitis C diagnostic kit
- Tuberculosis diagnostic kit
- SARS-COV2 Detection Kit V1.0
- SARS-COV2 Detection Kit V2.0



Our kits

Molecular diagnostic kits and medical devices centre

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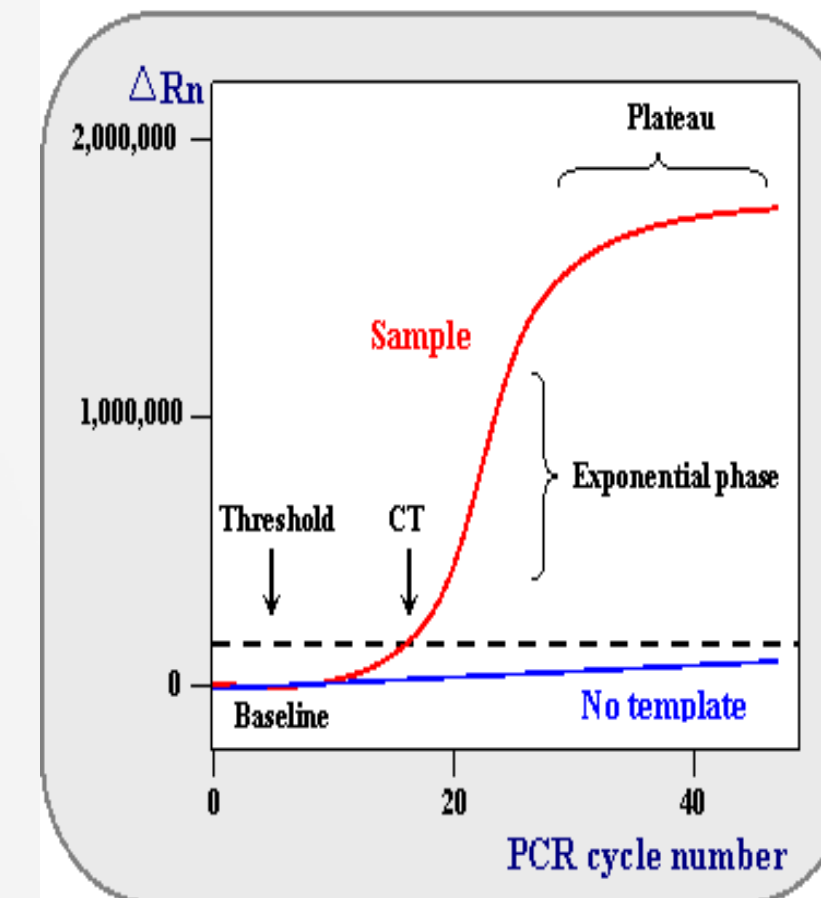
Our main method

Real time RT-quantitative PCR



extraction RT qPCR
→ RNA → cDNA →

Model of real time quantitative PCR plot



RT-qPCR

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- Meeting international standards
- Specific
- Sensitive
- Efficient
&
- Very cost-effective



Our kits are



Clinically validated and patented

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Our kits are Also ...



Open system

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from the bench to the market

Therefore



Moldiag

*Making access to diagnostic
easy and cost-effective for
Moroccan*

The spin-off



Moldiag the MASciR Spin-off

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from the bench to the market

The spin-off

*5 millions tests sold in Morocco
and some African countries*



Moldiag the MASciR Spin-off

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Molecular,

- Prostate Cancer.
- Lung cancer
- Hepatitis B
- Covid/influenza
-SO ON

Pipeline



Pipeline

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Also we have



Rapid Tests Development **platform**

Pipeline



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Also we have

Quick Tests (*new platform*)

- COVID19
- Hepatitis C
- Helicobacter pylori (HP)
-SO ON



Pipeline

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Pipeline

Animal
Health

Salmonella

Plant diseases

Tomato brown rugose
fruit virus
(ToBRFV)

Diversification

The team



Pr Abdeladim Moumen
Director

The team, the scientists



Dr Hicham ELhadi



Dr Imane Abdellaoui



Dr Meriem Chadli

The team, Scientists



Dr Mounyr Balouiri

The team, Bioengineers & technical support



Mrs Oumaima Lachiri



Mr Sliman Farid



Mrs Rabab.Lakhmi



Mrs N.OUAHJOUJOU



Mr Ahmed Bagayo

The team, PhD students



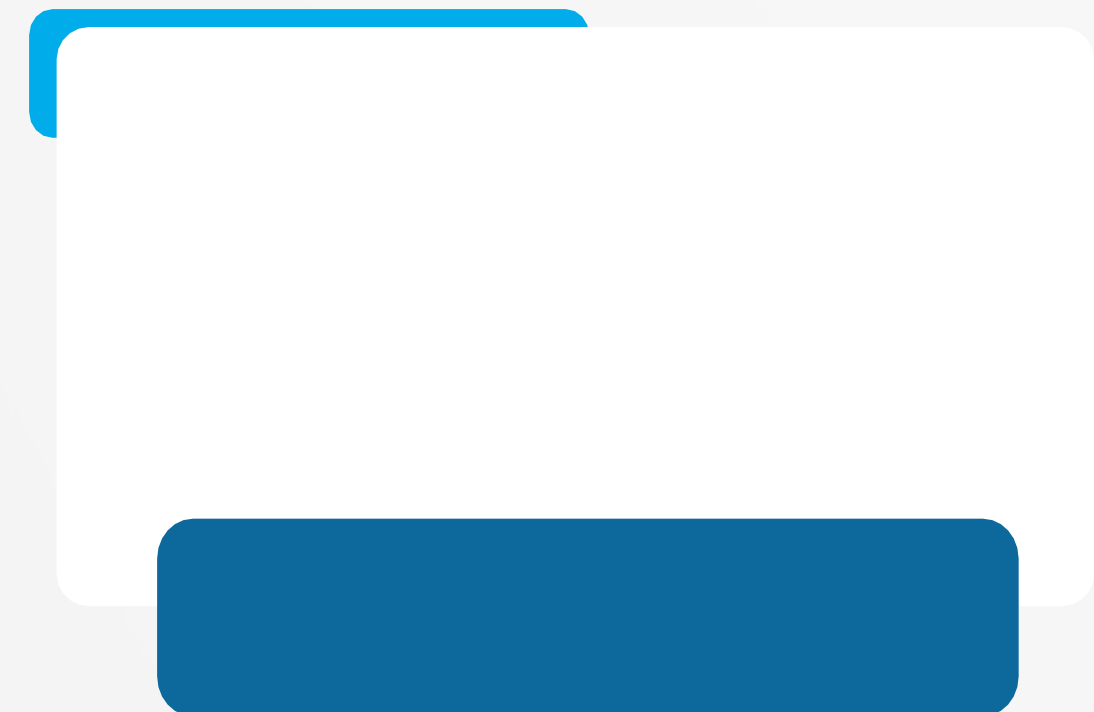
Mrs Basma Elbanyahyati



Mrs Oumaima Mazour



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