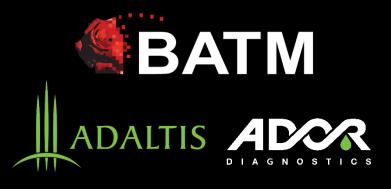
Innovations for Tackling Tuberculosis in the time of COVID-19





Adaltis (formerly Serono Diagnostics) is an IVD international company headquartered in Rome, Italy.

www.adaltis.com

Adaltis is owned fully by BATM -international science and technology group with H.Q in Israel that employs more than 1500 scientists and engineers world wide.

ADALTIS has 35 years of experience in developing and manufacturing in-vitro diagnostic systems and reagents to detect various infections. All our products are IVD-CE marked.

Adaltis is an ISO 9001:2008 and ISO 13485:2004 certified company.





Dr. Zvi Marom
Chairman of Adaltis and Ador,
Founder & CEO
BATM Advanced Communications
Former Chairman Israel High Tech Association

Dr. Zvi Marom founded BATM in 1992. He graduated with excellence in electronics from the Naval Academy and with excellence from the Advanced Naval Command Course. He has a postgraduate degree in medicine from the Sackler-Goldschlager School of Medicine, Israel and an MSc in industrial electronics.

Dr. Marom is on the boards of several national and international academic committees for computing and bio-med, until 2021 served as Chairman of the Board of the Israeli Hi-Tech & Innovation Industries Association and has been awarded Israel's industry award for 2021.



Dr. Eran Zahavy
CTO, BATM
Former Head of Innovation IIBR
(Israel's Institution for Biologic Research)

Dr. Eran Zahavy has nearly 20 years of leading positions in the R&D in Chemistry, Biology, Biophysics and IVD in the government research institutes (IIBR) and industry. Dr. Zahavy had served as the Head of Innovation IIBR for the last 5 years. In this capacity he had participate in leading the COVID-19 vaccine (BriLife) development and its license to NRX. Dr. Zahavy served as CTO at Israel leading clean-tech incubator "Hutchison-Kinorot" and CTO of TACount. Dr. Eran Zahavy holds a PhD in Chemistry & Biophysics from the Hebrew University and a Post Doc from the University of TX, Austin.





RATIONAL & TARGETS OF THE NEW INNOVATION PROPOSED

STEP 1

✓ Enable PCR MDR/XDR testing and execute scanning of large populations using novel Algo- combinatoric system. Can be done together with testing other respiratory conditions like COVID-19

STEP 2

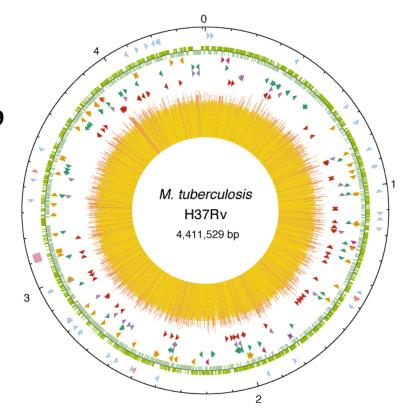
Using Isothermal RCA test on existing equipment gives results in <30m. incl single point mutation, detecting MDR/XDR</p>

STEP 3

✓ Personal \ POC-IsoThermal test enable detect Tb at places where there is no equipment and collect data via mobile

STEP 4

✓ Using Isothermal RCA test NATlab gives a comprehensive sample to answer POC <30 m. and gives regional/country based info





RATIONAL & TARGETS OF THE NEW INNOVATION PROPOSED

| # | Method | Readiness | Remarks | |
|------|---|-----------|--|--|
| 1 | PCR Test | Q4/2021 | Yes/No/- Cheap Sub 5 EU | AMPLIIab & Other standard thermocyclers |
| 2 | Combinatoric Algo Scanning | Q4/2021 | Scanning Cost. 1:10-I.e sub 0.5 Eu\Test Tested and approved for COVID-19 | |
| 3 | MDR/XDR PCR | Q2/2022 | Multiplexed PCR on MAX 4 wells , can work with other multiplexed multi Respiratory panels | |
| 4 | IsoThermal personal POC kit | Q2/2022 | High precision, no device needed, tested successfully with COVID-19, incl. computer report | |
| 5 | IsoThermal RCA Test | Q2/2022 | Works on standard Liquid handlers, results including single point mutation < 30 m. | EXTRAlab & Other liquid handlers |
| 6 | POC RCA Test | Q2/2023 | Comprehensive POC sample to answer solution for infectious diseases | NATlab |
| Rema | ark: All systems(including personal and P | | rt to national AI or Databases - | |

Example: RAMZOR in Israel that handles all reporting and vaccination systems developed and implemented by BATM.



THE PCR KITS

✓ TB / NTM detection by rapid PCR kit

✓ Covering all TB and all NTM species by conserved genes

✓ Using automatic RCA / PCR expansion to Isoniazid, Rifampicin and Fluroquinolones

Team lead by:

Prof. Marco Favaro

Dr. Walter Mattina

Dr. Cristiano Padula



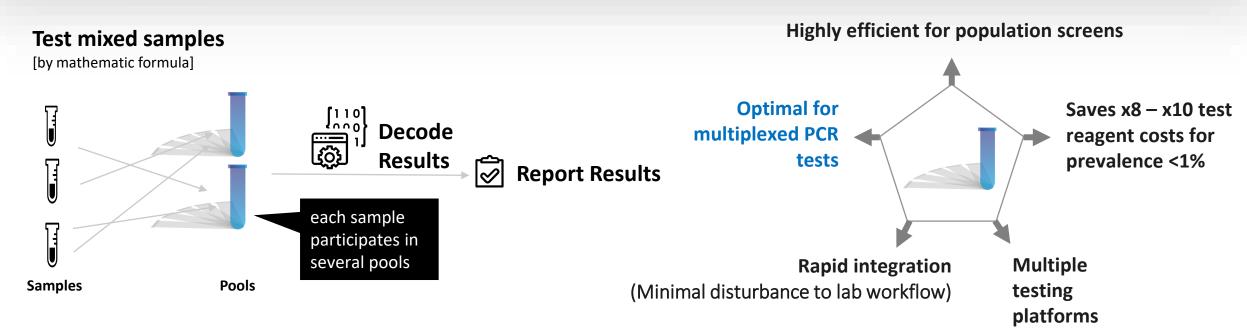


NOVELL COMBINATORIC ALGO UNIQUE VALUE PROPOSITION

Combinatorial pooling (Poold Diagnostics software)

Single-stage Test

Test time: X



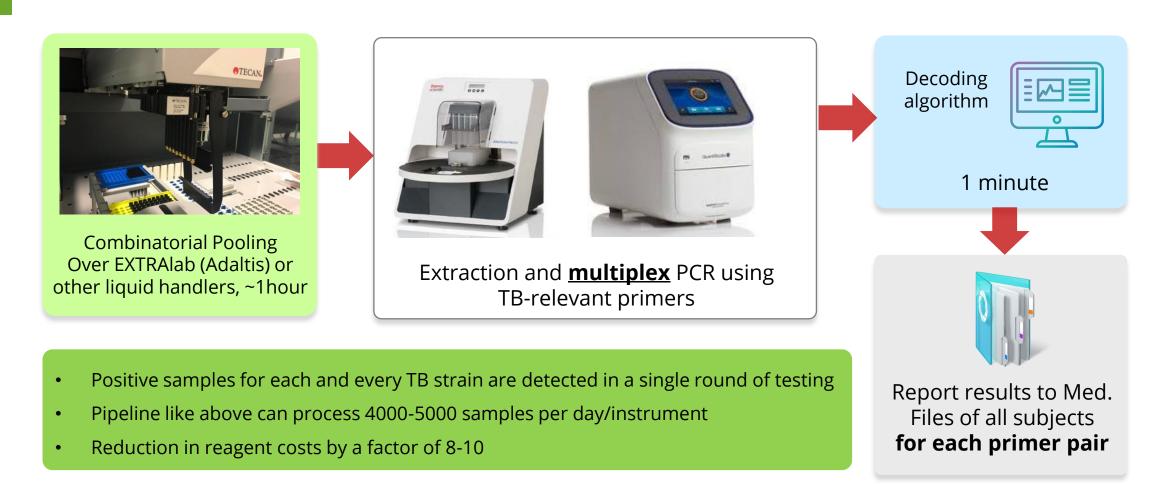
Team Lead by:

Prof. Roy Adar

Prof. Noam Shental



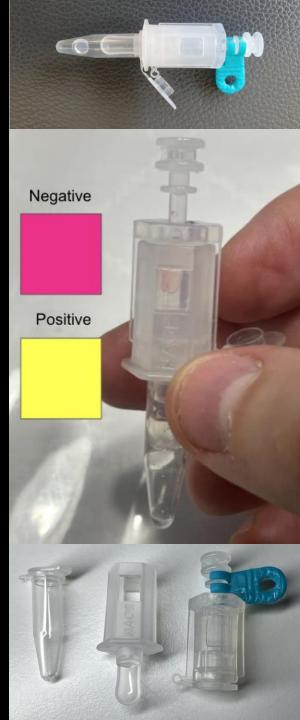
SUGGESTED WORKFLOW





IsoThermal SINGLE TEST

- ✓ Rapid, Easy to use, Saliva-based molecular diagnostic platform for a variety of indications.
- ✓ Disruptive, modular and scalable process for a variety of non-lab settings.
- ✓ Based on a highly enhanced version of RT-LAMP, a well-recognized simplified, RNA extraction-free PCR process.
- ✓ Obtained CE for the COVID-19 indication, with high sensitivity (>90%) at the infectious range, >99% specificity. Easily adapted to new indications and targets.
- ✓ 40 minutes to obtain results of multi-samples, using self-collected samples, plain heaters and low skilled personnel. Color change reflects results, which can be easily viewed by a naked eye or by smartphone.
- ✓ Changing target indications by rapidly altering the primers and the buffer.
- ✓ TB diagnostic using RT-Lamp was already shown to be scientifically sound.
- ✓ Can be ready for large scale deployment within 12-18 months.





MDx Innovative Rapid & Compact Solution



Confidential



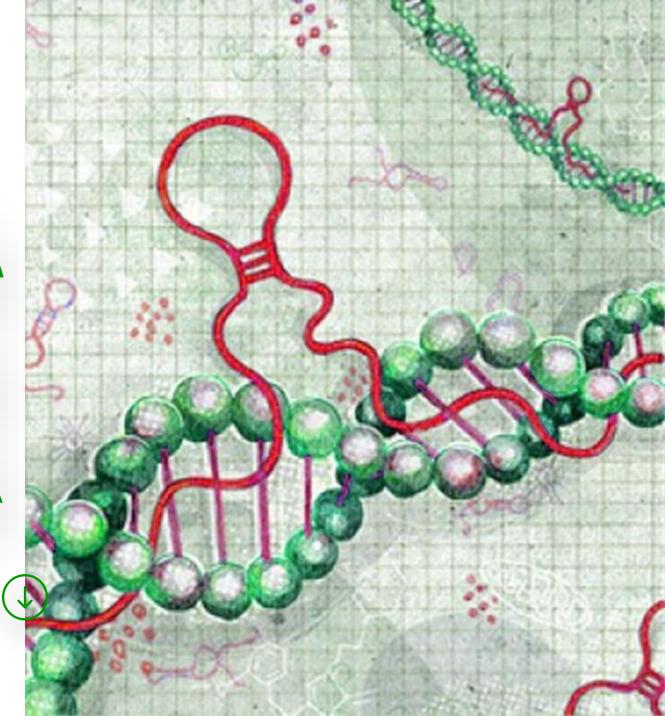
RCA VS PCR

Team lead by:

Dr. Vladimir Hurgin

Dr. Ari Tadmor

Dr. Aya Khwaja



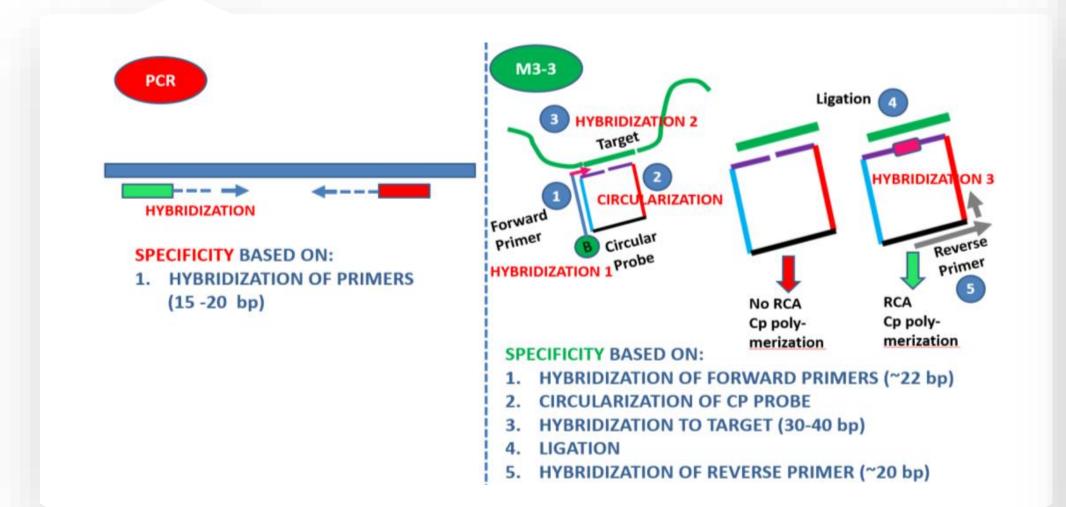


PCR vs RCA

MDx Innovative Rapid & Compact Solution

Confidential







Sample to answer system

15-90 min to result

Hands-on time < 2 min

Up to 100 pathogenic targets

MDx Innovative Rapid & Compact Solution

Confidential





NATIab is unique:

✓ Rapid, fully automated, sample-toanswer, multiplexed analysis of individual samples.

NATlab is a diagnostic (MDx) platform

- ✓ No need for preparation.
- ✓ No nucleic acid extraction for the PCR process.
- ✓ Up to 100 targets in one run.
- ✓ Performs on board data analysis and sends the results to the clinician with optional data sharing with public health services.
- ✓ Combines patented* electronic carbon array technology, innovative chemistry and state of the art micro fluidics, guaranteeing sensitivity and specificity.
- ✓ Ultra short time for panel development.
- ✓ The NATlab can be rapidly upgraded in case of a new pathogen appearance.
- * Patented: Several patents: US, Europe, Japan, Canada.

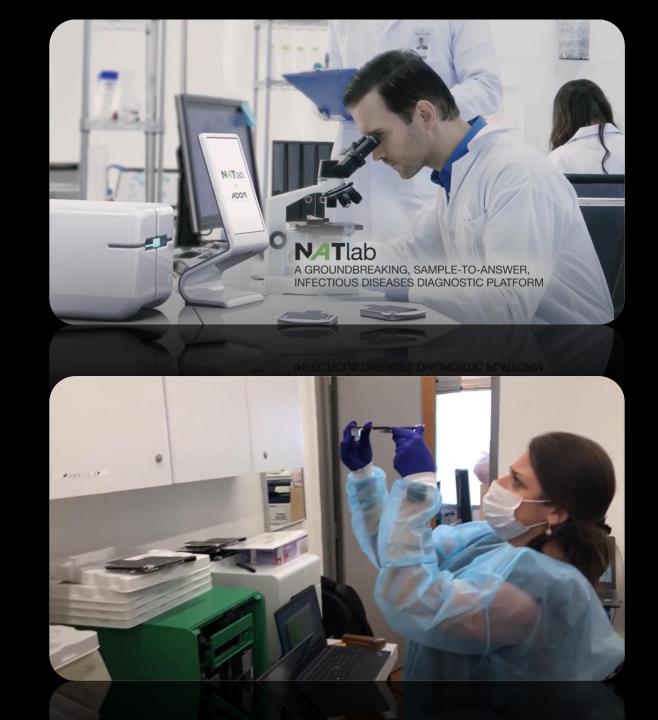


NATIab Introduction Movie

https://youtu.be/hywM-8x7uXM

Rambam Hospital Clinical Testing

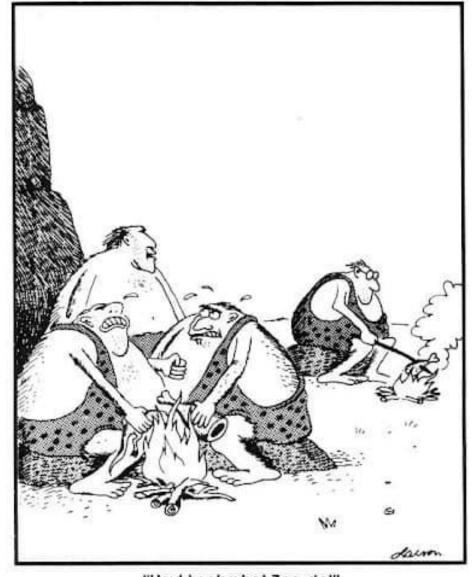
https://youtu.be/RcEfgbpcTr4





SUMMARY

- 1. Approach TB from Innovation and not disease point of view.
- 2. Use PCR / IsoThermal + Algorithmic approach to scan populations and enable immediate start of suitable antibiotic treatment.
- 3. Lower cost in order of magnitude by taking that new approach.
- 4. Possibly "ride" on other respiratory illness, for example, COVID-19.
- 5. Use either standard of the shelf lab equipment or enable rigorous POC's with NATlab sample to answer solution.



"Hey! Look what Zog do!"

Important Notice and Disclaimer

The information contained in this document and the accompanying form of presentation has not been independently verified and no representation or warranty, express or implied, is made as to, and no reliance should be placed on, the fairness, accuracy, completeness or correctness of the information or opinions contained herein. None of the Company, its advisers or representatives shall have any liability whatsoever (in negligence or otherwise) for any loss howsoever arising from any use of this document or its contents or otherwise arising in connection with this document. Unless otherwise stated, all financial information contained herein is stated in accordance with International Financial Reporting Standards (IFRSs) at the date hereof. The financial information appearing in this presentation has been extracted from the Company's audited annual results (except for year 2021 financial figures which are fair estimates).

This document and the accompanying presentation may contain certain "forward-looking" statements. By their nature, forward-looking statements involve risk and uncertainty because they are based on current expectations and assumptions in relation to future events and circumstances. Actual results and outcomes may differ materially from any outcomes or results expressed or implied by such forward-looking statements. Any forward-looking statements made by or on behalf of the Company speak only as of the date they are made and no representation or warranty is given in relation to them, including as to their completeness or accuracy or the basis on which they were prepared. Accordingly, persons receiving this announcement should not place undue reliance on forward-looking statements. Unless otherwise required by applicable law, regulation or accounting standard, the Company does not undertake to update or revise any forward-looking statements, whether as a result of new information, future developments or otherwise.

This presentation is published solely for information purposes.

This presentation does not constitute a Memorandum and/or offer for sale of securities of any kind of the Company.

The distribution of this presentation in certain jurisdictions may be restricted by law and persons should inform themselves about, and observe, any applicable requirements.

All opinions expressed in this presentation are subject to change without notice and may differ from opinions expressed elsewhere.





www.adaltis.net