

# Initium Bio Analytics

The Future of Pharma Solutions

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Science is the key to better health...  
AI is the key to better science

# A FUTURE OF ASSURED EFFICACY WITH POMI AI™



Initium Bio Analytics has developed a next generation, artificially intelligent platform that solves drug development problems for biomedical professionals, making research and development of innovative medicines faster, more accurate, and effective.

## COMPREHENSIVE ANALYSIS

POMI AI™ performs an ecumenical deep-dive into over 30 million research articles on the effects cannabinoid-based products have on a variety of medical conditions.

## ENHANCED RESEARCH AND DEVELOPMENT

Our team of biomedical scientists and data analysts develop optimal probability of success reports to expedite the R&D process, helping you to take your product to market faster, smarter, and with confidence.

## VALIDATED SUCCESS

Companies such as Teva Pharmaceutical, Johnson & Johnson, Gamida Cell, and more have trusted our technology. Identifying a need for better research in cannabinoid-based products, Initium Bio adapted POMI AI™ to help drive this industry forward.

We're excited to be at the forefront of a global market set to change the landscape of medical science.

# THE CHALLENGE

**Proving the effectiveness of cannabinoid-based medical applications can be complicated, time-consuming, and expensive.**

The first challenge is understanding how cannabinoids work in the body and if or how they affect specific conditions both physical and mental. Identifying effective formulations, side effects, or contra-indications is equally difficult to ascertain. The industry is in its infancy and at every step, researchers and scientists are hampered by the following obstacles:



1

## DATA

Current clinical data is sparse, of poor quality and low consistency. Identifying 'good' data and creating a database of relevant interactions takes thousands of hours of man and machine power.

2

## TIME

Establishing and analyzing a refined database of relevant, accurate data, developing formulations, testing high scoring combinations, identifying contra-indications and interactions can take years.

3

## COMPLEXITY

Developing effective formulations based on multiple cannabinoid combinations and understanding the Mechanism of Action presents a new level of complexity to drug development.

4

## COST

The cost of developing effective medicines is extremely high. After insurmountable use of resources and time, an efficacious formulation is not guaranteed so there is significant risk to investment.

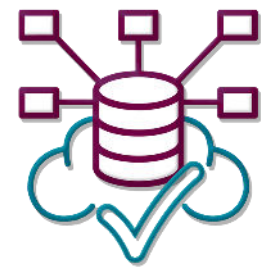
# THE SOLUTION

Imagine a technology that could enhance the understanding of the 'mechanism of action' of cannabinoids and terpenes on biological systems quickly, effectively, and more accurately.



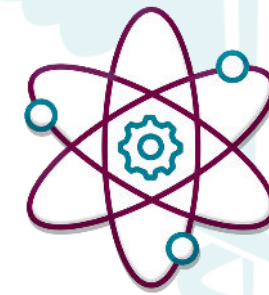
## Research analysis at lightning speed

Rapidly analyzing and extracting relevant, high quality data from over 30 million articles across global databases delivers quality contextual results in unprecedented time.



## Diversely complex data made reliable

The decoding of complex biological systems and clinical data provides accurate modelling that helps enhance and recommend alternative effective formulations.



## Science + technology working together

A Human-Machine Partnership of expert scientists, data analysts and AI models work together to develop detailed MoA's for cannabinoid based treatments.



## Acceleration of Development

With results predicting the highest probability of success, the lifecycle of cannabinoid-based clinical trials and product development can be significantly accelerated.

# THE TECHNOLOGY - INITIUM BIO'S POMI AI™

**Intuitive. Reliable. Precise.**

**Given a directive, POMI AI™ searches over 30 million articles and global databases for evidence of the effects cannabinoids have on an indicated medical condition.**

Our team of expert molecular biologists, data scientists, and biological data analysts work with POMI AI™ to further refine the data using our advanced algorithms until the data is sufficiently optimized and we have a database of evidence-based predictions of interactions and MoA.

We use this optimized data to suggest improved formulations, recommend alternative combinations, identify population targets, highlight clinical trial variables and the potential for new treatments, all while helping you achieve your goal at an unprecedented rate.



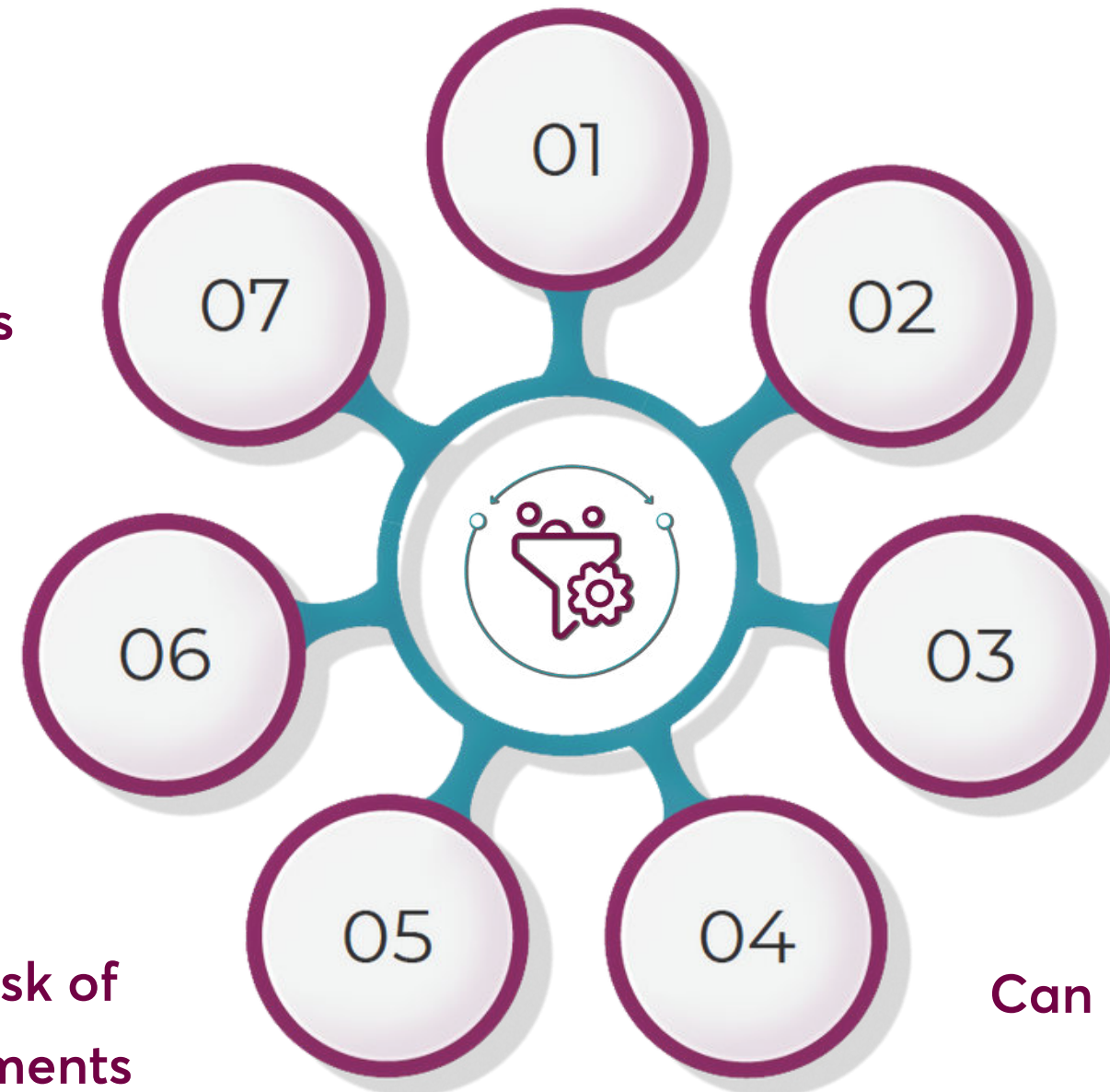
# POMI AI™

Saves valuable time and money

Explores new combinations  
and conditions

Predicts effective  
product combinations

Reduces risk of  
ineffective treatments

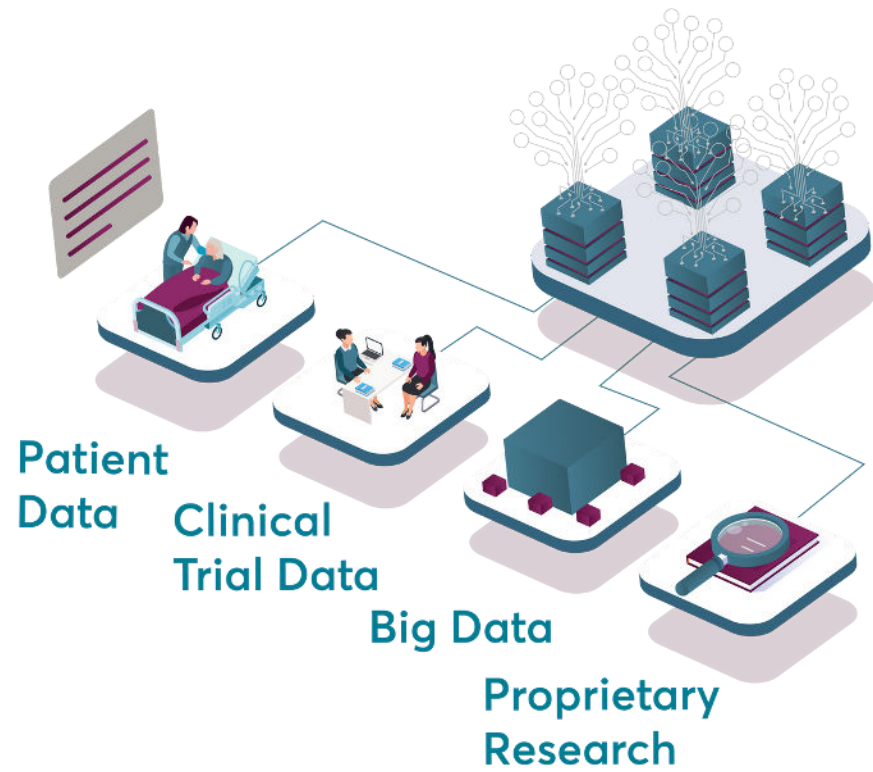


Provides extensive data from high  
quality sources

Provides detailed scientific results

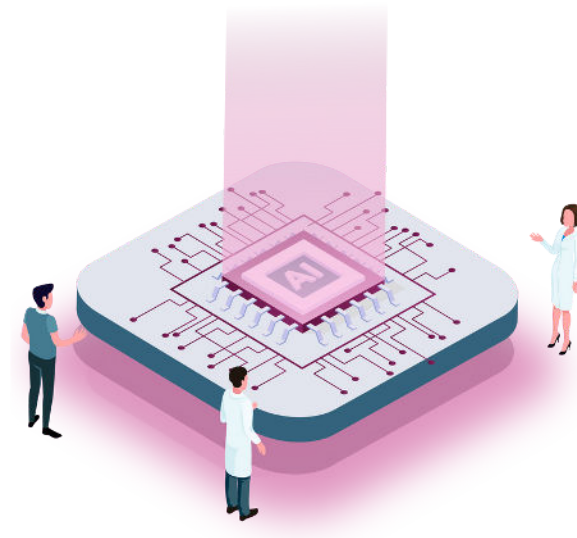
Can reduce clinical trial failure

# OUR PROCESS



## PHASE 1: DATA

30 million+ articles  
30 Biological databases  
11 Entity types  
HM + Interactions

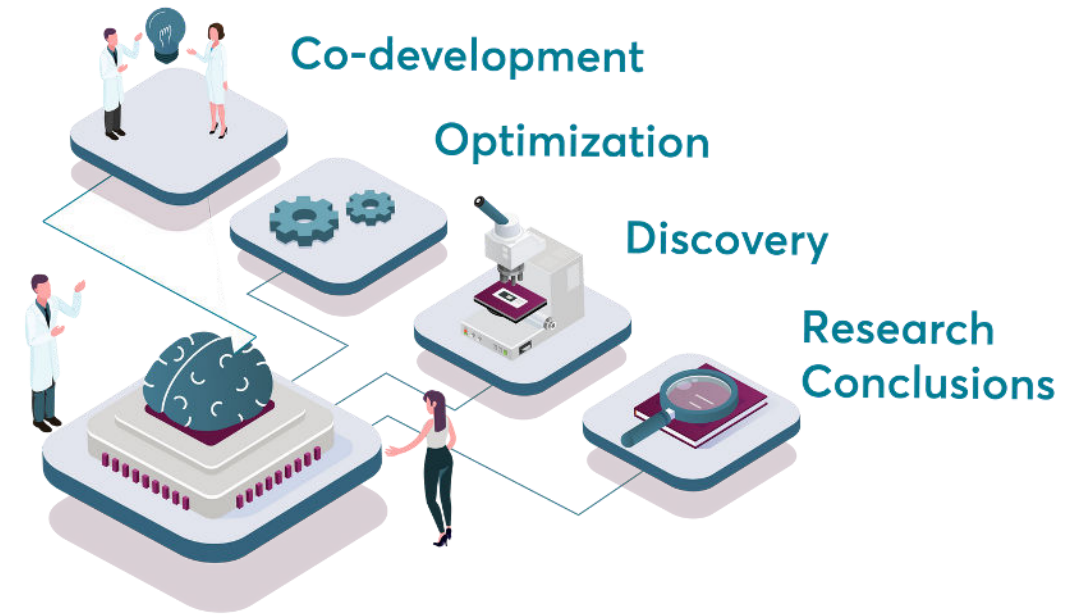


## PHASE 2: POMI AI™



## PHASE 3: INITIUM BIO TEAM

Expert development of  
MoA models, drug interaction  
models and drug efficacy  
prediction models



## PHASE 4: RESULTS

Drug development  
Academic Research



# OUR DELIVERABLES

We deliver a range of services based on the extensive capabilities of POMI AI™. We are excited about the limitless potential for increasing our offering to support innovative advancement in the industry.

## Provide MoA Models

We can generate multiple MoA models thousands of times faster than a human alone



## Predict Drug Efficacy

In an unregulated industry POMI AI™ delivers detailed reporting of effectiveness



## Generate Drug Targets

Based on the data, we can generate concepts for new drugs and potential indications for them



## Predict Drug Interactions

With advanced AI models we can predict drug combinations that might cause side effects not yet reported or never tested



## CONTACT US

For partnerships, collaborations, and investor information, please contact us today for more information.



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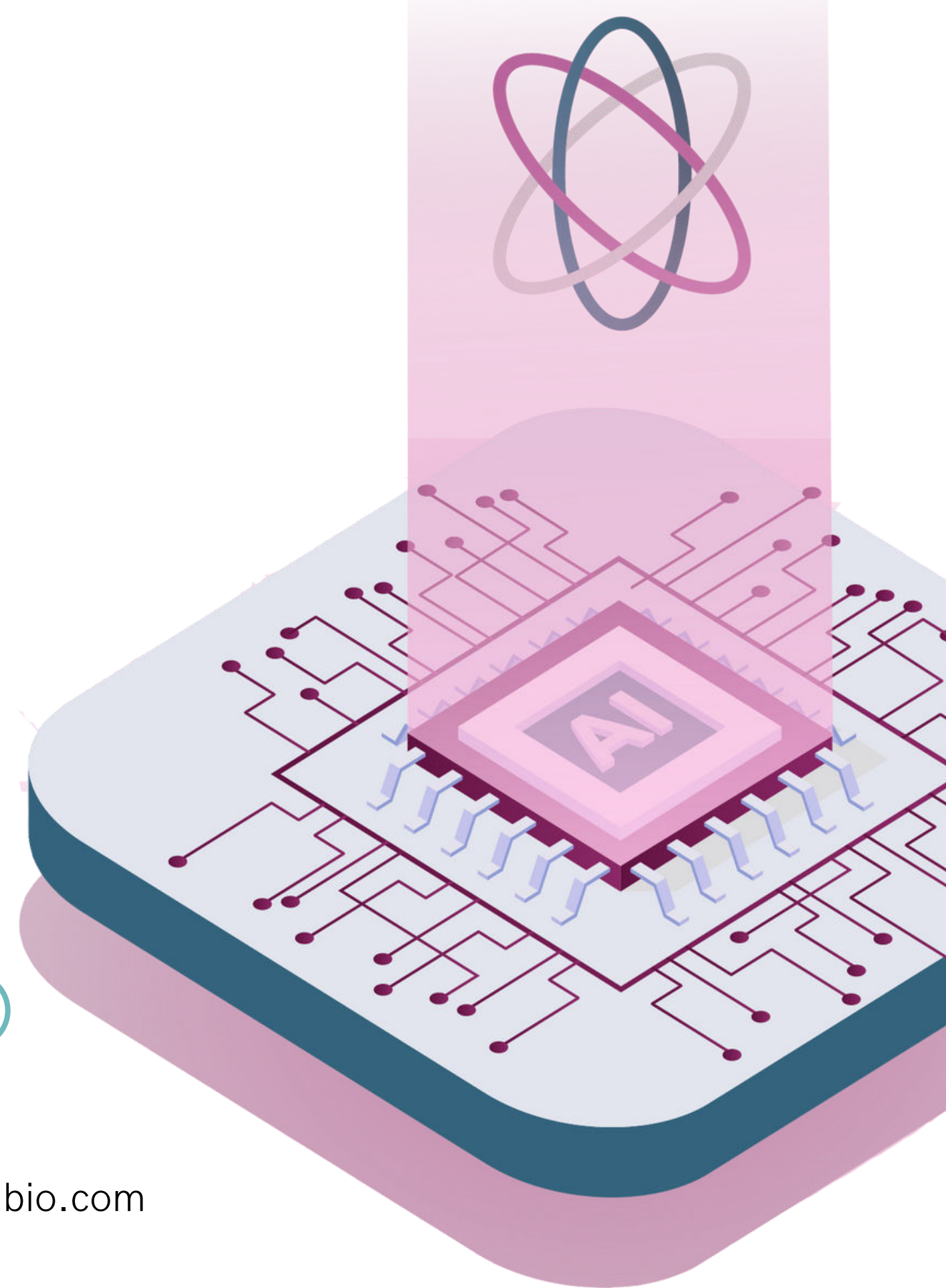
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**Initialium**  
BIO ANALYTICS

**Thank you**