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The promise of precision medicine is to give the right treatment, at the right time, always, to the right person.

"Precision Medicine uses information about genes, proteins and other characteristics of a person's pathology to determine the diagnosis or treatment of the disease."
What is Cienciamed?

Company that offers health services internationally, specializes in integrating genetic, scientific and clinical information to improve the diagnosis and treatment of people with complex diseases.

MENDELEX

It is the Clinical - Genetic integration study that specializes in Mental and Emotional Health care.

Example: Anxiety, Depression, Bipolarity, Schizophrenia, Autism, etc.

JELLINEX

It is the diagnostic opinion that specializes in describing two or more diseases that occur in the same person, drug use and mental and emotional illnesses.

Both products provide pharmacogenetics information to improve patient care.
## Molecular Pathology Laboratory for the Diagnosis of Genetic Diseases

### 2017 Diseases / disorders

<table>
<thead>
<tr>
<th>Disease Type</th>
<th>SNV* associated</th>
<th>SNV* Pharmacogenetics</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychiatry, Neurology and Addictions</td>
<td>47</td>
<td>684</td>
<td>269</td>
</tr>
<tr>
<td>Immunology</td>
<td>23</td>
<td>134</td>
<td>4</td>
</tr>
<tr>
<td>Metabolic</td>
<td>14</td>
<td>79</td>
<td>9</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>24</td>
<td>67</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>108</strong></td>
<td><strong>1,264</strong></td>
<td></td>
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</tbody>
</table>

*SNV: Single nucleotide variants

### DNA Sequencing Technology:

Ion S5 NGS System for Targeted Sequencing

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The College of American Pathologists certifies that the laboratory named below:

Christus Muguerza Altos Especializados
Central Laboratory
Monterrey, N.L., Mexico
Jorge A. Vera Delgado, MD
CAP Number: 77951
Accredited: 12/2014

has met all applicable standards for accreditation and is hence accredited by the College of American Pathologists Laboratory Accreditation Program. Reaccreditation should recur prior to Feb 14, 2019 to maintain accreditation.

Accreditation does not automatically ensure a change in patient outcome; it is intended to ensure that all requirements are met.

[Signature]

Chair, Committee on Laboratory Accreditation
The College of American Pathologists
## Business Model

### Products

**Mendelex**

### Clients / Customers

- Customer

**Physicians:**
- General
- Pediatrician
- Gynecologist
- Psychiatrist

- Clinics and hospitals

### Market Connections

- Internet (web)
- Phone
- Information modules
- Internal communication with institutions: Schools, Private Companies.

- Visit offices
- Private events

- Institutional agreements

- Direct purchase or membership with monthly payment.
- Credit option with SOFOM (Alivio Capital) [www.aliviocapital.com](http://www.aliviocapital.com)
1. Start
   - Purchase
2. Simultaneous Process
   - DNA sampling
3. External Certificate
   - Laboratory
4. Cienciamed Development
   - Data processing
5. End
   - Digital delivery

Clinical Questionnaire
Clinical-genetic integration with A.I.
Report generation
Enriched Diagnostic Opinion
Cienciamed develops and maintains as Intellectual Property:

- Risk calculation algorithm (odds ratio)
- Genetic laboratory rawdata interpretation algorithm
- A.I. algorithm
- Database (SNV’s, studies, clinical questionnaires, risks, pharma, data users)
- Platform Software (Cienciamed.net)
- Cienciamed Chip for NGS targeted sequencing
- Certification process of scientific information with medical correlates
Efficient Medical Care

- Predisposition
- Screening
- Diagnosis / Prognosis
- Monitoring
- "Right" Drug
- Old Paradigm
Market opportunities

+450 million people suffer from a mental or behavioral disorder

300 million people is affected by depression throughout the world

60 million people worldwide are affected by bipolar affective disorder

47.5 million people in the world are suffering from dementia

90 million suffer from disorders caused by the use of alcohol and drugs

21 million people worldwide are affected by schizophrenia

1 million people commit suicide every year.

Source: WHO / OMS
**Team**

**Dr. David Saucedo**  
Psychiatrist  
Doctorate in Medicine, Autonomous University of Nuevo León.  
Master’s Degree in Medical Sciences with Field of Application in Psychiatry, National Institute of Psychiatry Ramón de la Fuente of the UNAM.  
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**LCC Victor Tirado**  
Sales & Marketing  
Graduated with a degree in Communication Sciences, he has worked in audiovisual production of digital content, retail sales and marketing in direct consumer products.  
More than 20 years of experience.  
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**PhD Pedro Mayorga**  
Mathematician  
Engineering in computer systems by the Technological Institute of Tuxtla Gutiérrez.  
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**PhD Rafael Chacolla**  
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Bachelor of Medical Technology with specialty in Clinical Laboratory and Pathological Anatomy from the National University Federico Villarreal, Lima, Peru.  
Master of Science in Biotechnology, School of Medicine of the ITESM  
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**Dr. Magdaleno Pérez**  
Investigator developer  
Specialist in Psychiatry, Department of Psychiatry, University Hospital “Dr. José Eleuterio González” UANL. Physician Surgeon of the UANL.  
15 years of experience in Psychopharmacological Research.  
21 years of experience in private clinical care in psychiatry.  
magdaleno.perez@cienciamed.com
Cienciamed in 2018

Technology:

**Psychiatry, neurology and addictions**
Cognitive impairment, autism and substance abuse

**Inmunology**
Autoimmune disorders, their comorbidity with mental and emotional health conditions.

**Metabolic**
Increase of SNV's included in our First NGS

**Cardiovascular**
Increase of SNV's included in our First NGS

Currently NGS sequencing is performed with the Ion S5 Technology; In 2018 we will also process with Illumina HiSeq 2000 / Hiseq 21500 / Miseq

Team:

**PhD Mercedes Alejandra Vázquez Cantú will be integrated.**

Master in Biotechnology, specialty in Synthetic Biology / ETH Zurich, Basel. Switzerland. iPSC (induced Pluripotent Stem Cell)

**Additional value:**
- Etiological and Pathophysiological model of the patient’s disease.
- We will locate biological pathways, specific cells and affected anatomical regions.
- Pharmacological screening can be done on the cells, avoiding the use of unnecessary drugs in the patient.