Effective and Sustainable Crop Protection

Company introduction

Mar 2019
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VISION
To design effective and sustainable crop protection products by leveraging predictive biology
Large and growing market

Crop protection is critically important

50% of key crops’ yields would be lost without Crop Protection

Based on publicly available info

Crop protection – a critical and growing market

$56B in 2017/8, predicted $70B by 2022
Dire need for effective and sustainable innovative products

**Increasing resistance**
Number of plant species resistant to specific herbicide classes

**Increasing regulatory requirements**
Awareness to environment tox. effects and toxicity to beneficials

**Decline in products with new MoA**
No new herbicide with new MoA (Mode of Action) launched for 30 years

A new approach is needed for crop protection innovation
Disruptive technology to deliver novel crop protection products

Sequential lead generation pipeline

100K’s compounds

AgPlenus’ disruptive lead generation technology

>400 Million compounds

- Leads working on new mode of action
- Higher probability to reach a product
- Improved pipeline efficiency
AgPlenus’ business strategy

Strategy - high value revenue sharing deals based on Internal pipeline of Leads and Optimized Leads

**Product focus**

- Focus on Herbicides and Insecticides
- **Product types:**
  1. Novel MoA/SoA
  2. AI optimization
  3. Active ingredient mixes

**Business model**

- High value revenue sharing deals based on internal pipeline
- We estimate the market value of lead candidates at $50M’s-$100M’s
- Early collaborations: mitigate risk and build relationships

**Partners & markets**

- Partnering with current market incumbents (mainly US, EU) and new major players (emphasis on far east markets)
- Tailored product offering to different Ag-players/markets
AgPlenus’ business strategy – 5 year milestones plan

- New collaborations – 1-2 collaborations with current incumbents and future key players
- Optimized lead licensing deal / sale
- Lead licensing deal
  - Expansion of existing collaboration
  - Broad collaboration in a new area
- Lead/s
- Hits
- Herbicides
- Insecticides
- Fungicides
- Comp. strategy

2019 | 2021 | 2023
AgPlenus’ product pipeline and collaborations

**Internal pipeline**

- **Herbicides**
  - Novel model of action (non-selective/selective)
  - Leading pipeline candidates to deliver Leads by 2021
  - 10

- **Insecticides**
  - Novel site of action broad spectrum
  - 4

- **Fungicides**
  - Existing mode of action optimization
  - 3

**Ongoing collaborations – vote of confidence from leading Ag players**

- **Novel herbicides - new mode of action (2016)**
- **Novel insecticides - new site of action (2018)**
- **Novel crop enhancers development (2017)**

**Final product**

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New MoA Herbicides pipeline – AG14503

In-planta results

HTP Agar – Dicot
Arabidopsis thaliana

HTP Agar – Monocot
Doctyloctenium egyptium

HTP Soli – Dicot & Monocot
Arabidopsis & E. tef

HTPS – Dicot post
Observed phenotypes – Bleaching, Disturbed apical bud, Inhibited growth

<table>
<thead>
<tr>
<th>Treatment</th>
<th>ED50 (g/ha)</th>
<th>Max inh. (%)</th>
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<td>0.23</td>
<td>100</td>
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<td>AG14504</td>
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HTPS – Dicot & Monocot pre
Observed phenotypes – Bleaching, Disturbed apical bud, Inhibited growth, Disturbed emergence

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<tr>
<th>Treatment</th>
<th>ED50 (g/ha)</th>
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<td>AG14504</td>
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<td>AG14503</td>
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LTP – post emergence, weeds

<table>
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<th>Treatment</th>
<th>Effects</th>
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<tr>
<td>Solvent</td>
<td>No effect</td>
</tr>
<tr>
<td>Amitrol 2 Kg/ha</td>
<td>Young leaves bleaching</td>
</tr>
<tr>
<td>AG14503 2 Kg/ha</td>
<td>Young leaves damage</td>
</tr>
</tbody>
</table>
Innovative & experienced management team

Eran Kosover
CEO
Experienced technological leader
Evogene EVP & GM Crop Protection, Evogene VP of collaborations, Atera Networks, POC Hi-Tech, consulting
MA Economics

Ofir Hazut
BD and Strategy
Vast start-up experience
MEway Pharma, DiagnosticAid Medical, PeriTech Pharma
MSc Neuroscience, MBA

Boaz Inbal
R&D
Extensive development background
Epix pharmaceuticals, Insilicore, Promining therapeutics
PhD Molecular biology, biochemistry & bioinformatics

Mirit Ram
Director of PM
Focused technological development
Evogene, FMC, HP
MSc chemical engineering
Board of Directors

Ofer Haviv  
Chairman of the board  
*Evogene, CEO*

Adrian Percy  
Bayer crop science:  
Ag Technology Ambassador  
Head of Research & Development  
Head of Global Regulatory Affairs  
VP, Development North America

Robert A. Woods  
Marrone Bio Innovations, Chairman  
Gowan LLC, Director  
Bioenterprise capital private equity, Syngenta,  
President Crop Protection

Eli Assraf  
Galam Ltd, Director  
Makhteshim Agan (Adama), CFO  
Strauss Group, CFO
AgPlenus highlights

Company

- Addressing the large and growing crop protection market – strong need for innovation
- Leveraging computational predictive biology to design next generation crop protection products
- Promising pipeline - Herbicidal ‘Hits’ and Insecticidal novel targets
- Ongoing collaborations: BASF (Herbicides 2016 and Insecticides 2018) and ICL (2017)
- Exclusive license for Evogene’s technologies for the field of Ag-chemistry (which represent $10M’s of investments)
- Leading management and scientific team
- Highly experienced BoD & scientific advisory

Internal pipeline highlights

First Lead compound expected in 2 years (2021):
- Type: new mode of action Herbicide
- We estimate the market value of a lead compound: $50Ms - $100Ms
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