

# Mymetics Corporation Overview

September 2015

Mymetics Corporation Information



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### Mymetics' vision is to become leading developer of the new generation of mucosal and virosome based vaccines for infectious diseases



Prevention better than Treatment: Lower Cost of Health Care

Currently only 26 Diseases are Prevented by Vaccines, Mainy More to Address and Significant Unmet Needs Remain

#### Significant Unmet Needs Remain

- 25% of worldwide annual deaths due to infectious disease (15M)<sup>2</sup>
- Major targets remain: RSV, CMV, HIV, HSV

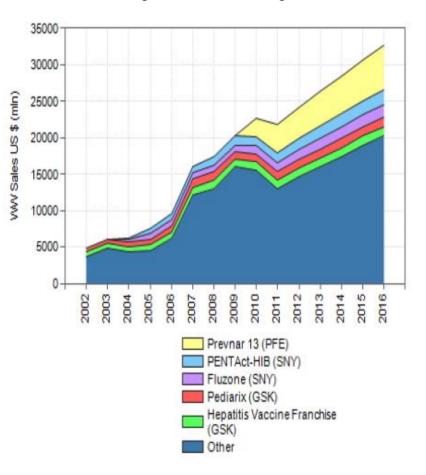
#### Novel Vaccine Approaches Required

#### Market Growth Driven Mainly by Innovation

- Blockbuster premium priced vaccines <sup>1</sup>
  - Prevnar I 3<sup>®</sup>: \$5,200M
  - Gardasil<sup>®</sup> & Cervarix<sup>®</sup>: \$2,300M
  - Rotateq<sup>®</sup> & Rotarix<sup>®</sup>: \$1,900M
  - Zostavax<sup>®</sup>:

#### High Priority Target for Big Pharma

#### Worldwide Vaccine Sales <sup>3</sup> Growing 2-3x Faster than Drug Sales



I Peak annual sales per BioPharm Insight; August 8, 2012 2Fauci, et al Emerging Infectious Diseases I I (4); 2005 3EvaluatePharma database (Defined Health); September 2011 \$ 817M



- High Growth Vaccine market: \$27.3 Billion in 2012, expected to reach \$48 Billion by 2017 (CAGR 12%)
- Differentiator:Virosome Platform Technology, applicable to broad range of high-value commercial vaccines
- Third Party Validation: Already strong License, Collaboration and Funding Agreements in place with major Pharma and Leading Foundations
- Strong Management Team and access to world class Scientific Advisors
- Strong IP protection with issued patents in all major territories
- Low valuation, Revenue generating, significant upside potential

# Mymetics Summary



Mymetics Corporation:	OTCQB MYMX – Venture Stage market Place and current in SEC reporting				
Location / resources:	HQ in Lausanne, Switzerland and R&D in Leiden, the Netherlands, total of 14 FTEs				
Core Competence:	World leading experts and IP in R&D and CMC for virosomes technology, integration and presentation of membrane proteins for innovative vaccine candidates against life threatening infectious diseases.				
Pipeline:	Clinical stage: Pre-clinical:	Intra-nasal Influenza, HIV and Malaria RSV and HSV			
Objective:	Build small / medium size innovative R&D virosome vaccine company with strong partnerships, Phase II – III clinical vaccine pipeline and have optionality for M&A or sale				
Priorities:	Execute, deliver and expand on existing partnerships Expand to new partnerships for i.n. influenza and advance new virosome vaccine candidate				



- Jan. 2014 Out-license and collaboration deal for RSV vaccine funded by Astellas. Up to \$82 million in upfront & milestone payments and double digit royalties.
- Mar. 2014 Strengthened core virosome platform and know-how. Hired Head of Quality and Manufacturing. Former Head of process development and manufacturing of Pevion Biotech with > 10 years virosome CMC experience.
- Oct. 2014 Start of Gates Foundation \$1.8 million funded HIV vaccine study at Texas Biomedical Research Inst.
- Nov. 2014 Start of PATH-MVI funded study for transmission blocking malaria vaccine candidate based on virosome technology and antigens from NIAID (LMIV).
- Apr. 2015 Mymetics leading consortium awarded €8.4 million in grants from EC (Horizon 2020) and Swiss innovation funds to develop thermostable and cold-chain independent virosome vaccines.

### Management Team



#### • Ronald Kempers, MSc, CEO – Joined in 2009

- Senior business leader & entrepreneur;
- Over 20 years international business management & finance experience with Fortune 100 companies (Hewlett-Packard, Oracle) and healthcare start-ups;
- MSc in Business Administration Erasmus University Rotterdam and IMD, Lausanne.
- Toon Stegmann, Ph.D., CSO Netherlands & Head Virosome R&D Joined in 2009
  - Original inventor & leading virosome expert;
  - Co-Founded Mymetics BV; Dir Vaccine Research Algonomics & Crucell;
  - Prof. Biochemistry & Molecular Biology Univ of Toulouse; Asst. Prof. Biochemistry, Univ of Basel
  - >50 papers; 12 books.

#### Sylvain Fleury, Ph.D., CSO – Joined in 2003

- 20 years in pharmaceutical industry collaborations (Genentech, Roche & Novartis) and public research institutions (Clinical Research Institute of Montreal, Columbia Hospital in NY, NIH in Bethesda, CHUV in Lausanne) in infectious diseases & gene therapy;
- Manager of various pre-clinical & clinical trials with antiviral drugs and virosome-based vaccines;
- Expertise in Immunology, Immunotherapy, antigen & vaccine design. Numerous publications in high impact leading journals.
- Mario Amacker, Ph.D. Head Manufacturing and Quality Joined in 2014
  - Senior CMC virosome vaccine development manager with a track record of successfully driving vaccine development projects through early phases of development (preclinical, clinical phases I-II).
  - More than 10 years of hands-on experience in process development, virosome vaccine manufacturing and quality control, project management and quality assurance.

### Virosomes



- Virosomes are virus-like particles consisting of virus envelopes
- Virosomes lack the genetic material of the native virus: virosomes are non-infectious
- Retain the receptor-binding and membrane fusion properties of the virus
- Lipid membrane allows optimal presentation and folding of antigens



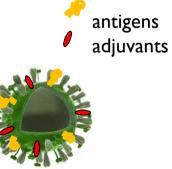


virus



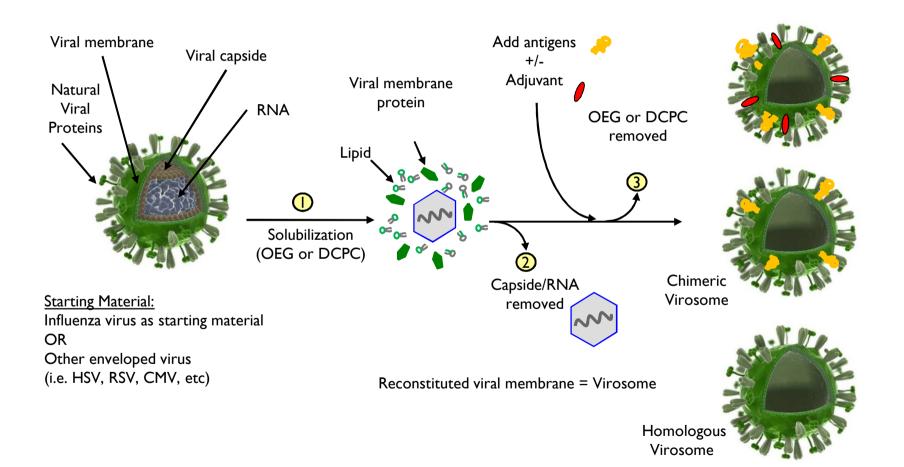


virosome vaccine



virosome as carrier platform for vaccines





## Advantages Virosome Platform



SAFETY:	No Genetic Material – Non Infectious
IMMUNOGENICITY:	Stay close to Nature by Reconstituting the Natural Viral Membrane Includes Natural Proteins of Virus Possibility to include Antigens and Adjuvants in Membrane Optimal Presentation to Immune System Strong Induction of Systemic (blood) & Mucosal Immunity
BROADLY APPLICABLE:	For any Enveloped Virus and as Antigen Delivery System
SCALABLE & COST:	Large Scale and GMP enabled and low COGS
ALREADY PROVEN:	Epaxal® (Hep A) & Inflexal® (flu) – JNJ; Invivac® - Abbott (flu)

Virosome Vaccines: The Safety of Killed Virus with the Immune Response of a Live Virus



# **Product Pipeline**

Product	Discovery	Pre- Clinical	Phase I	Phase II	Phase III	Virosome basis	Partners
<b>RSV</b> Prophylactic	Comț	bleted	•			RSV virus adjuvant	Astellas / ClearPath
HSV I + 2	Comple	ted				HSV virus adjuvant	
<b>Intranasal Influenza</b> Prophylactic		Completed				Influenza virus	
<b>HIV-I</b> Prophylactic		Completed	$\Rightarrow$			Influenza virus + HIV antigens	B & M Gates Foundation
<b>Malaria</b> Prophylactic		Completed	$\Rightarrow$			Influenza virus + malaria antigens	PATH-MVI

### Summary of Pipeline results



#### RSV vaccine:

- Strong RSV pre-clinical results: protection & absence of enhanced disease in cotton rats and mice.
- Publications: Vaccine, Jun. 2010.; PlosOne, May 2012; Vaccine, Feb. 2013
  Jan. 2014: License and Collaboration Agreement w. Astellas Pharma ClearPath

Intranasal Flu vaccine: Solvay / Abbott finished successfully a Phase I clinical trial with 100 people meeting / exceeding all EU (CHMP) criteria for injected influenza vaccines.

- <u>HIV vaccine:</u> offering both blood and mucosal antibodies for optimal prevention of HIV-1 mucosal transmission
- 100% protection in macaque monkeys against multiple heterologous virus challenges
- HIV Phase I proof-of-concept: strong safety and tolerance profile and presence of antibodies in mucosal secretions;
- Publications: Immunity, Feb. 2011; PlosOne, Feb.2013.
  Oct. 2014: Start of Bill & Melinda Gates Foundation NHP study with Texas Biomed.

<u>Malaria vaccine:</u> Finished successfully Phase Ib on children in Tanzania (semi immune people). Strong safety and tolerance profile. Antibody presence upto 360 days & 50% lower attack rate. Nov. 2014: Start of PATH MVI funded study for transmission blocking virosome vaccine candidates with LMIV (NIAID)

HSV vaccine: Preclinical data, i.n. and i.m. vaccination of mice: neutralizing antibodies

### **Financial Summary**



- OTC QB: MYMX current in SEC reporting and filings but not leveraged public listing until now
- 300 million shares outstanding, public float around 25%
- Recent stock price: 0.02 to 0.05 USD per share with very limited liquidity
- Capital Raised last 6 years: \$25 million in equity; \$35 million in convertible debt through private funding
- 55% of Company held by executives / board members
- Since September 2013 revenue generating and low cash burn



- Unique vaccine technology, know-how and IP: virosome as antigen carrier
- World leading virosome and membrane protein expertise and know-how
- Attractive and diverse pipeline with excellent results to date
- Out-licensing and collaboration agreement with leading Pharma for block buster RSV vaccine candidate
- Obtained non-dilutive funding from Gates Foundation and PATH MVI for HIV and malaria vaccine development
- Revenue generating since Sep 2013
- Strong Management and Scientific Advisory Board
- Provides access to rapidly growing, high margin vaccine sector