Mymetics Corporation

Overview

July 2018

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

Why Vaccines?

Prevention better than Treatment: Lower Cost of Health Care

Currently only 26 Diseases are Prevented by Vaccines: Many More to Address

Significant Unmet Needs Remain: 25% of worldwide annual deaths due to infectious disease (15M)[1]
Major targets remain: RSV, CMV, HIV, HSV, ZIKA….

Novel Vaccine Approaches Required

Vaccine Market to grow from $27.6 Billion in 2015 to $45.1 Billion in 2022 (CAGR 7.3%)

Priority Target for Big Pharma: GSK, Merck, Sanofi, Pfizer (80% - 85% of vaccine market)

Growth Driven Mainly by Innovation: Blockbuster premium priced vaccines in 2017 annual sales [2]

Prevnar13®:	$5,600 M
Gardasil® :	$2,300 M
Rotateq® & Rotarix®:	$1,300 M
Zostavax®:	$ 668 M

1 Fauci, et al Emerging Infectious Diseases 11 (4); 2005
2 FiercePharma; Feb, 2017 and GSK annual results 2017

Mymetics Highlights

- Vaccine specialists
- Differentiator: Virosome Platform Technology, applicable to broad range of high-value commercial vaccines
- Third Party Validation: Executed strong License, Collaboration and Funding Agreements 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
- 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 9 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 and infectious diseases.	
Third Party Validation:	License, Collaboration and Funding Agreements with Pharma and Leading Foundations	
Pipeline:	Clinical stage:	Intra-nasal Influenza, HIV and Malaria
	Pre-clinical:	RSV, Allergy indication
	Discovery:	Chikungunya

Revenue Generating since Sep 2013: cumulative more than > €13 million (collaborations and grant funding)

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

Recent Achievements

Oct. 2014 - Start of Gates Foundation $1.8 million funded HIV vaccine study at Texas Biomedical Research Inst.
Apr. 2016 – Result: 87% delay in persistent infection after 7 live virus vaginal challenges in NHPs.
Analytics of mechanisms of action is ongoing.

Nov. 2014 - Start of PATH-MVI funded study for transmission blocking malaria vaccine candidate based on virosome technology and antigens from NIAID (LMIV).
Apr. 2016 – Result: High antibody titers and 95% to 100% inhibition of parasite transmission in high dose formulations.

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.
Project is ongoing interim results expected Q3/Q4 2017.

Sep. 2015 - Start of exploratory study of two new malaria antigens with Swiss Tropical & Public Health Institute and University of Zurich.

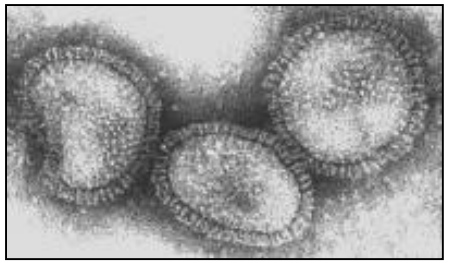
Jan. 2016 - Start of discovery program on Chikungunya and ZIKA virosome based vaccines
Ongoing research on chikungunya vaccine candidate.

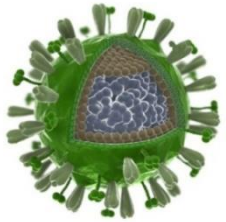
Dec. 2016 - Start of Research Project with Sanofi Pasteur on Influenza virosome vaccines.
Project is ongoing and results expected Q3/Q4 2018.

Apr. 2018 - Start of Collaboration Project with Anergis SA on Birsch Pollen Immunotherapy.

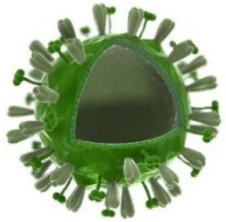
Virosomes

- 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 (membrane fusion elicits CD8+ Tcells)
- Lipid membrane allows optimal presentation and folding of antigens

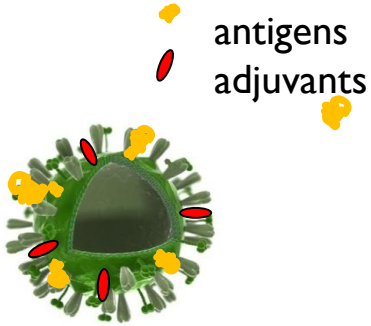




virus

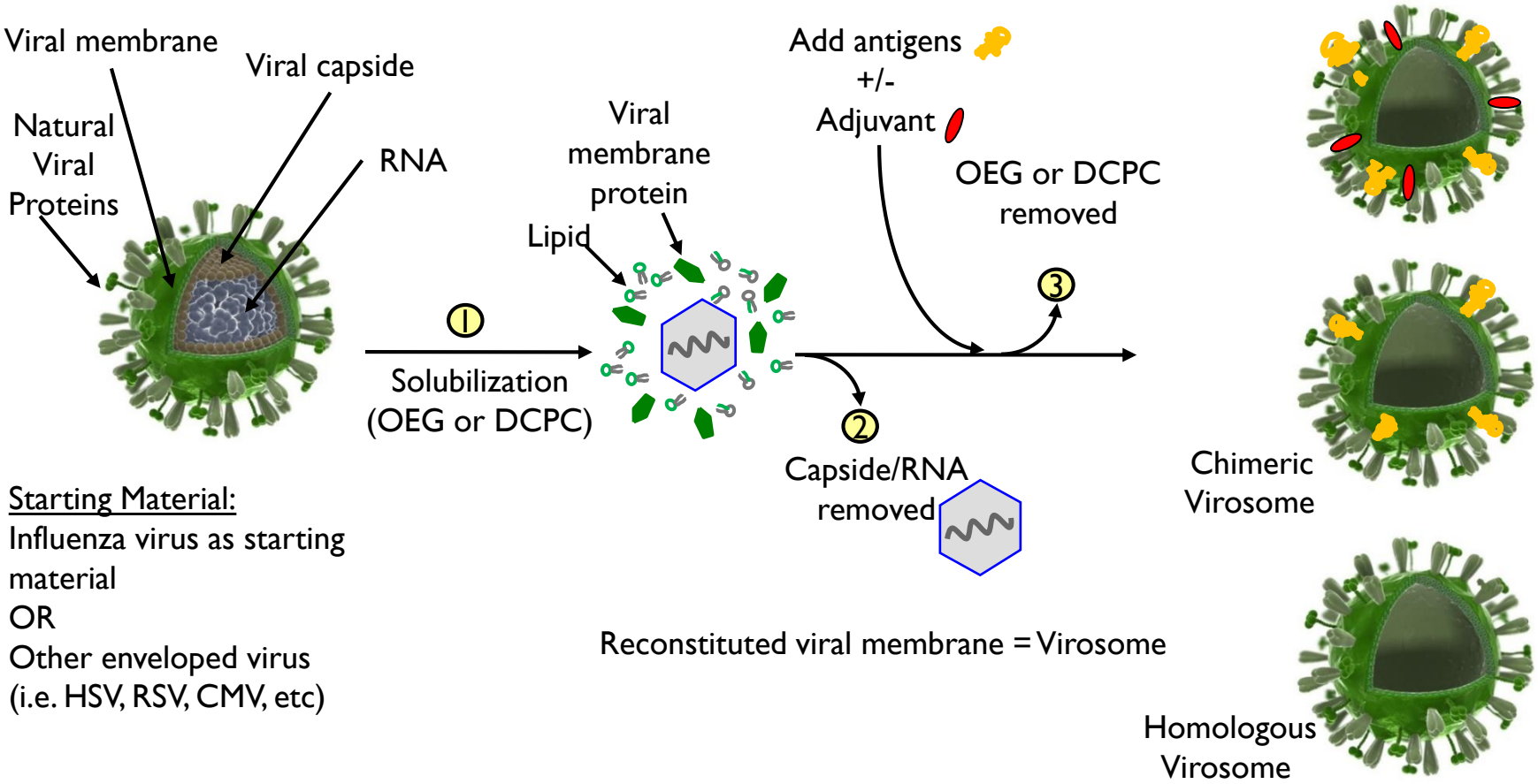


virosome vaccine



virosome as carrier platform for vaccines

Creating Virosomes



Starting Material:
Influenza virus as starting material
OR
Other enveloped virus (i.e. HSV, RSV, CMV, etc)

Reconstituted viral membrane = Virosome

Advantages Virosome Platform

SAFETY:	No Genetic Material – Non Infectious Safety in different populations: children, immune compromised, elderly
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 (CD4+ and CD8+ Tcell induction) Strong Induction of Systemic (blood) & Mucosal Immunity
BROADLY APPLICABLE:	For any Enveloped Virus and as Antigen Carrier 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 Vaccine

Product Pipeline

Product	Discovery	Pre-Clinical	Phase I	Phase II	Phase III	Virosome basis	Partners
RSV Prophylactic	Completed					RSV virus	On hold for now
HSV 1 + 2	Completed					HSV virus	On hold for now
Influenza Intra-nasal application Prophylactic	Completed					Influenza virus	Sanofi Pasteur
HIV-1 Prophylactic	Completed					Influenza virus + HIV antigens	Bill & Melinda Gates foundation Texas Biomedical Research Institute
Malaria: ***Blood & Liver stage*** ***Transm. blocking***	Completed Completed					Influenza virus + malaria antigens	Swiss TPH Swiss Tropical and Public Health Institute mvi PATH Malaria Vaccine Initiative
Allergy Immunotherapy Birch pollen							Anergis
New Virosome Vaccine Candidates Chikungunya							Own Program

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
Jan. 2016: Announced ending of Collaboration in July 2016 – Mymetics retaining all rights

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.
Dec. 2016: Start Research Project with Sanofi Pasteur

HIV vaccine: 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 Non Human Primates study with Texas Biomed.*
Apr. 2016 Result: *87% delay in persistent infection after 7 live virus vaginal challenges in NHPs*

Malaria vaccine: Finished successfully Phase Ib on children in Tanzania (semi immune people). Strong safety and tolerance profile. - Antibody presence up to 360 days & 50% lower attack rate.
Publications: Plos One, 6: e22273, 2011
Nov. 2014: *Start of PATH MVI funded study for transmission blocking virosome vaccine candidates with LMIV (NIAID)*
April 2016 Result: *high antibody titers and 95% to 100% inhibition of parasite transmission in high dose formulations.*

Virosome Improvements:
Cold Chain Independent Vaccines Project

Horizon 2020 – EU and Swiss funded project

Project to develop thermostable virosome based vaccines that are independent of a cold chain.

Partners:	Mymetics (leader)
	Upperton and Catalent-Pharma (spray and freeze drying specialist CMOs)
	Bachem and Chimera (for antigen supply and analytical methods, respectively)
Budget:	€8.4 Million
Timeline:	42 months (started May 2015)
Expected Outcome:	Manufacturing Process compatible with current and future virosome-based vaccines.

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: 0.04 to 0.06 USD per share with 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

Revenue in 2014:	US$ 2.5 Million	EBITDA: US$ 700k loss
Revenue in 2015:	US$ 3.3 Million	EBITDA: US$ 410k loss
Revenue in 2016:	US$ 1.3 Million	EBITDA: US$ 3,550 loss
Revenue in 2017:	US$ 1.5 Million	EBITDA: US$ 1,550 loss

Summary

- 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, PATH MVI and EU Horizon 2020 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