UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): August 13, 2014

ASSEMBLY BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware 001-35005		20-8729264		
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer ID Number)		
99 Hudson Street, 5 th Floor, New	v York, New York	10013		
(Address of principal exec	cutive offices)	(Zip Code)		
Registrant's telephone number, including area code	(646) 706-5208			
Check the appropriate box below if the Form 8-K filing is i following provisions:	ntended to simultaneously satisfy the filing obl	ligation of the registrant under any of the		
□ Written communications pursuant to Rule 425 under th	ne Securities Act (17 CFR 230.425)			

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 8.01. Other Events.

Attached hereto as Exhibit 99.1 is a company presentation that Assembly Biosciences, Inc. will use for various investor presentations and which is incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d)	Exhib	its
<u>Exhib</u>	<u>it No.</u>	Description
99.1		Company presentation of August 2014.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ASSEMBLY BIOSCIENCES, INC.

Date: August 13, 2014

<u>/s/ David J. Barrett</u> David J. Barrett, Chief Financial Officer





This presentation contains forward-looking statements regarding future events. Forward-looking statements involve known and unknown risks that could cause actual results to differ materially from expected results. These risks and uncertainties include, among others: risks related to the costs, timing, regulatory review and results of our studies and clinical trials; our ability to obtain FDA and other regulatory approval of our product candidates; our anticipated capital expenditures, our estimates regarding our capital requirements, and our need for future capital; the unpredictability of the size of the markets for, and market acceptance of, any of our product candidates; our ability to sell any approved products and the price we are able to realize; our ability to obtain future funding on acceptable terms; our ability to retain and hire necessary employees and to staff our operations appropriately; our ability to compete in our industry and innovation by our competitors; our ability to stay abreast of and comply with new or modified laws and regulations that currently apply or become applicable to our business; and the risks set out in our filings with the SEC.



Infectious Disease Focused > Potential Curative Therapy for Hepatitis B and Clostridium difficile

Two Proprietary Technology Platforms

- Core Protein Allosteric Modifiers (CpAMs) 1st focus, HBV
- Targeted Delivery of Microbiome Therapeutics 1st focus, C. difficile

Pipeline Offers First-in-class and/or Best-in-class Product Opportunities

- HBV: 1st Gen Molecule expected in clinic by early 2016; 2nd Gen following
- CDAD: 1st Gen Microbiome therapeutic expected in clinic by early 2016; pipeline following

Experienced Management and R&D Team

Russell Ellison, MD - CEO, Chair - Pegasys and multiple other drugs on market

Derek A. Small - Pres, COO - Founding CEO of multiple biotechs

David Barrett – CFO – CFO; director at multiple biotechs

Uri Lopatin, MD – CMO, VP R&D - Led HBV programs at leading pharma

Lee Arnold, PhD - CSO - Discoverer of Tarceva® and >7 other candidates while at

Adam Zlotnick, PhD - SAB Chair (HBV) - Science founder, professor at

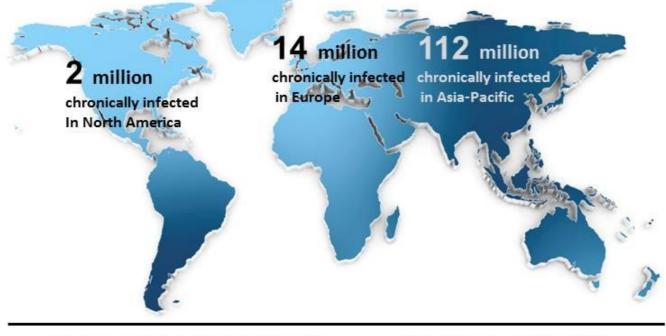








More than 350 million people worldwide have chronic hepatitis B infection (10-30M new patients each year; >600K deaths/year)



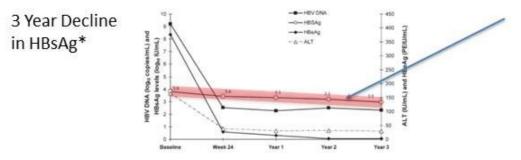
WW sales of \$3.2B in 2012; most patients remain untreated or untreatable

Piper Jaffray est. \$15B/yr. W/W RBC est. \$10B/yr.+ W/W

5



• Current Therapy Suppresses Virus, but Does Not Cure



- Lack of curative therapy contributes to under diagnosis and under treatment**
- Finite therapy should increase treated patient populations
 - · More patients willing/able to be diagnosed
 - · More patients willing/able to be treated
 - · More physicians willing to initiate treatment

Wursthorn, K. et al. Kinetics of hepatitis B surface antigen decline during 3 years of telbivudine treatment in hepatitis B e antigen-positive patients. Hepatology 52, 1611–1620 (2010).
 ** 2012 EASL HBV Management Guidelines.



Immunomodulatory (Gilead, Gilead/Globimmune)

- Mechanism: Adaptive and innate immune stimulation
 - Immune mediated suppression or clearance of infected cells, and/or
 - Non-specific, poorly understood mechanism of host mediated cccDNA clearance/suppression
- Risk: Potency (at immune activation) will directly correlate with magnitude and number of adverse events
- siRNA / Antisense (Arrrowhead, Alnylam, Tekmira, ISIS)
 - Mechanism: DICER/Argonaut degradation of viral RNA, reducing RNA-to-protein translation
 - Result: Reduction in viral antigens and viral load, but no effect on established cccDNA

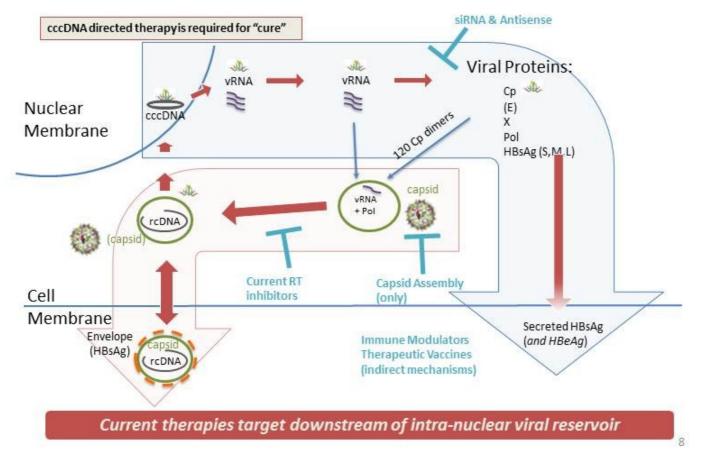
• Capsid Assembly Agonists (Novira, J&J, Roche, Hecpharm-China)

- Mechanism: Inappropriate enhancement of capsid assembly
- · Result: Potent non-nuc inhibitor of replication

Therapies in clinical trials are showing interesting advances, but are not targeting the viral reservoir directly

HBV Life Cycle & Current Approaches





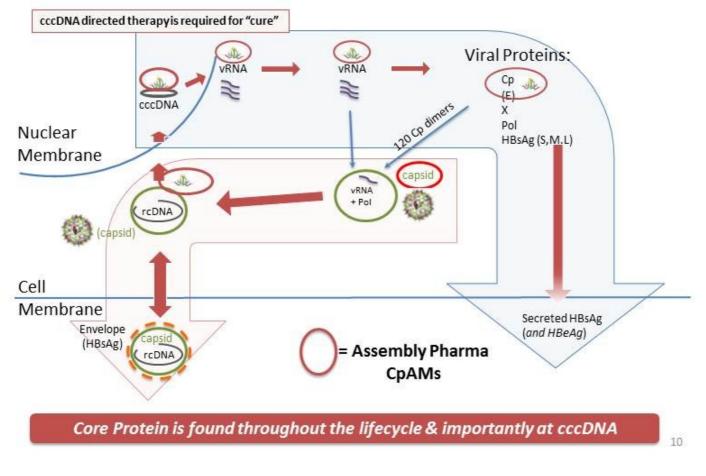
Why Core Protein?





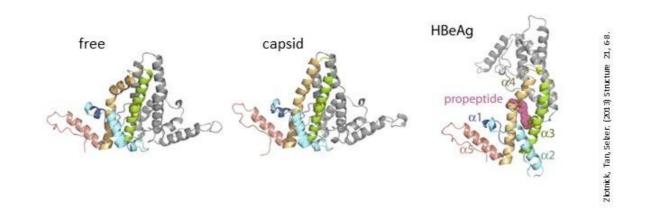
HBV Life Cycle – Assembly's CpAM Approach







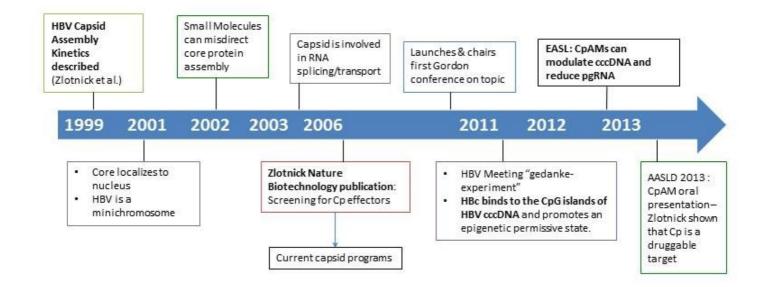
HBV core protein is pleiotropic - it has multiple functions in the HBV lifecycle



Deep understanding of core protein is a differentiating advantage for Assembly

Assembly Leadership on Cp is Based on Seminal Research and Current Scientific Leadership of Founder Zlotnick







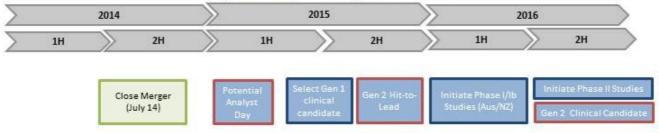
- Convenience: Oral
- Single Agent or Combination Opportunity:
 - Potential to be combined with other classes of compounds
- Immunology:
 - CpAMs are not dependent on immune response, but patients can expect the same benefits as immune modulating approaches if reducing viral antigen and pgRNA supports anti-HBV immunity
- Efficacy: Assembly could target CpAMs to multiple aspects of viral lifecycle, resulting in:
 - Reducing viral load
 - Reducing viral pgRNA
 - Reducing viral antigens (HBeAg & HBsAg)
- Safety: Direct anti-viral, modulator of a foreign protein

HBV Pipeline & Expected Upcoming Milestones



				Stage of Development				
Product	Disease Area	Discovery	Hits	Lead ID	IND Dev.	Ph I	Ph II	Ph IIII
CpAM Gen 1	HBV			Over Next ~18 Months				
CpAM Gen 2	HBV		Over Next	-18 Months	1			

Expected Upcoming Milestones





The patent applications fall broadly into two categories:

1. Platform patent applications

- Multiple platform patent applications filed, with others in process
- Patent applications cover novel mechanism of action, methods of treatment, novel assays, and others

2. Composition of matter patent applications

· Several compound, structure, and composition of matter applications pending

We are currently in the process of preparing multiple additional filings
 Our patent portfolio is intended to cover significant geography in HBV

Microbiome Program: C. difficile









- We have in-licensed technology for targeted delivery of complex agents to select regions of the GI tract
- Our delivery technology exploits specific pH gradients in the gut and new coating technologies in conjunction with state of the art encapsulation technology
 - This is designed to deliver complex agents to the proximal colon and/or terminal ileum
- Precedent C. difficile infection provides an excellent path for potentially curative therapy using microbiome approach
 - · Major health problem and increasing in incidence
 - Stunning success of FMT
 - Durable cure within 24hrs
 - · Success reported with at least 2 different mixtures of bacterial strains
- By providing the benefits found in current FMT, using selected strains in an oral-capsule based therapy we aim to increase clinical adoption with a simple path for re-imbursement by payers



Research Plan:

- Identification of lead candidates from successful FMT patients (Brown, RI) by MIT, Roswell Park, Buffalo U.
- Parallel completion of CMC development to be ready for IND, and then commercial supply for PH IIb/III

Expected Milestones

- Proof of Principle for coating fastidious anaerobe Q3-4 2014
- Strain leads identified mid 2015
- IND end 2015; clinical data 3Q 2016

Patents:

- Multiple novel delivery patents filed in 2013
- Other microbiome specific applications in process



ASMB Combined HBV & Microbiome Pipeline



				Current & Planned Stage of Development				
Product	Disease Area	Discovery	Hits	Lead ID	IND Dev.	Ph I	Ph II	Ph IIII
CpAM Gen 1	HBV			Over	Next ~18 Months			
CpAM Gen 2	HBV		Over Nex	t ~18 Months				
MB Gen 1	C. difficile			Over Next ~18 Months				
CpAM Other	Other Virus (TBD)	TBD		I	Rich science Micro		Core Prote nerapeutic	
MB Other	Other Indication (TBD)	TBD			vides basis ultiple pro	for futu	re develoj	pment of



- Nasdaq: ASMB
- ~\$20 mm on balance sheet (6/30/2014)
- Cash runway enables multiple milestones into Q4-2015 under current development plan
 - Current S-3 filing provides flexibility to opportunistically access the capital markets
- Approximately 8.6 mm shares outstanding
- Fully diluted 11.8 mm shares



Two Proprietary Technology Platforms

Infectious Disease Focused
Potential Curative Therapy for Hepatitis B
and Clostridium difficile

Pipeline Offers First-in-class and Best-in-class Product Opportunities

Experienced Management and R&D Team

Cash Allows Achievement of Valuable Milestones

Flexibility to Opportunistically Access Capital Markets