

Biotechnology Company Update December 16, 2014 BUY

Kevin DeGeeter; kdegeeter@ladenburg.com 212.409.2027

# IGNYTA, INC.

# Restructures Nerviano Deal to Support Aggressive Entrectinib Plan, Reiterate BUY

RXDX (NASDAQ)

Company & Market Data	
Closing Price (as of 12/15/2014):	\$6.28
Rating:	BUY
Price Target:	\$20.00
52 Week Range:	\$1.00 - \$20.00
Shares Outstanding (MM):	20
Market Capitalization (MM):	\$123
Cash (MM):	\$94.7
Debt (MM):	\$20.3
Fiscal Year End:	Dec

Estimates			
EPS	2013A	2014E	2015E
1Q	_	\$(0.28)A	\$(0.59)
Prior			\$(0.39)
2Q	_	\$(0.28)A	\$(0.62)
Prior			\$(0.40)
3Q	_	\$(0.55)A	\$(0.64)
Prior			\$(0.43)
4Q	_	\$(0.53)	\$(0.68)
Prior		\$(0.38)	\$(0.43)
Full Year	\$(1.94)	\$(1.68)	\$(2.53)
Prior		\$(1.51)	\$(1.65)
Revenue (MM)	\$0.0	\$0.2	\$0.0

Ignyta is developing personalized oncology drugs using diagnostic tests to identify patients most likely to respond to therapy. The company's lead product RXDX-101, is a TrkA/B/C, ROS1, ALK inhibitor in Phase I development for the treatment of solid tumors. Ignyta hopes to move the program into Phase II development in 2015 for multiple indications including NSCLC. The San Diegobased company is also in pre-clinical development of other targeted cancer therapies based on proprietary Oncolome molecular expression database.

On 12/15/14, RXDX disclosed an amendment to its licensing agreement with Nerviano Medical Sciences to restructure the timing of certain milestone payments to support a more aggressive development plan for entrectinib (formerly RXDX-101). RXDX will pay a \$10M milestone in December 2014 instead of upon enrollment of first patient in a Phase IIa study (previously expected around midyear 2015). The second and third milestones will now be pushed out to later in the development of entrectinib. The net effect is to smooth the milestone payments over several years instead of potentially having multiple milestone payments in a narrow window. Importantly, the total milestone payments and amount of each milestone is unchanged. Additionally, the new timeline for milestone payments has been decoupled from operating milestones defined in the original contract (i.e., payment of the first \$10M milestone in December 2014 does not suggest the Phase IIa study will begin enrolling in 4Q14). Management indicated the amendment is due in part to RXDX's more aggressive clinical development plan. As such, we are raising our R&D expense forecast from \$5.0M and \$21.4M to \$8.0M and \$38.5M for 4Q14 and 2015, respectively. Separately, the World Health Organization (WHO) approved "entrectinib" as the international nonproprietary name (INN) for RXDX-101. We continue expect an update on Phase I continuous dosing cohorts of entrectinib in 1H15 to serve as an important catalyst for RXDX shares. Reiterate Buy and \$20.00 PT.

- What's New? RXDX amended its agreement with Nerviano for entrectinib to modify
  the triggers for the initial three milestone payments. Pursuant to terms of the
  amendment, the initial \$10M milestone will be paid to Nerviano by December 31,
  2014. Previously, the milestone was triggered by the first patient enrolled in a
  randomized Phase II study and was expected to be paid in mid 2015. The second
  and third milestone payment amounts are unchanged and will be triggered by
  modified clinical and/or regulatory events related to entrectinib.
- Financial Revisions: We are raising our R&D expense forecast from \$5.0M and \$21.4M to \$8.0M and \$38.5M for 4Q14 and 2015, respectively, to account for the more aggressive R&D plan for entrectinib. Our EPS forecast goes from (\$0.38) and (\$1.65) to (\$0.53) and (\$2.53) for 4Q14 and 2015, respectively. All of our other financial assumptions are unchanged. We estimate RXDX has adequate cash to fund operations into 2016.

# **Financial Model Revisions**

**G&A:** We are leaving our administrative expense assumptions of \$8.1M and \$9.5M for 2014 and 2015, respectively unchanged.

**R&D:** We are increasing our 2014 and 2015 R&D expense assumptions from \$19.4M and \$21.4M to \$22.4M and \$38.5M, respectively. The increase is primarily a result of the company's aggressive clinical development strategy, including the recent in-licensing of RXDX-103 and RXDX-104 and enrollment of additional cohorts in the European ALKA-372-001 study, as well as the amended agreement with Nerviano.

**EPS:** On net, our EPS forecast goes from (\$1.51) to (\$1.68) and from (\$1.65) to (\$2.53) for 2014 and 2015, respectively.

Table 1.

Ignyta Income Statement											
(in \$ millions)	2013A	1Q14A	2Q14A	3Q14A	4Q14E	2014E	1Q15E	2Q15E	3Q15E	4Q15E	2015E
Total product revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Revenue	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Total Revenue	\$0.0	\$0.0	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
cogs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross profit	\$0.0	\$0.0	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
G&A Research & development	3.7	1.8	2.0	2.2	2.1 8.0	8.1 22.4	2.1 9.0	2.2 9.5	2.6 9.5	2.5 10.5	9.5
Operating profit (loss)	(\$6.9)	(3.9)	(5.5)	(10.8)	(10.1)	(\$30.4)	(11.1)	(11.7)	(12.1)	(13.0)	(\$48.0)
Interest income Interest expense Other	0.0 (0.2) (0.1)	0.0 (0.1) (0.0)	0.1 0.0 (0.0)	0.1 0.0 0.0	0.1 (0.4) 0.0	0.3 (0.5) (0.0)	0.1 (0.4) 0.0	0.0 (0.4) 0.0	0.0 (0.4) 0.0	0.0 (0.4) 0.0	0.2 (1.6) 0.0
Taxes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit (loss)	(7.2)	(4.1)	(5.4)	(10.7)	(10.4)	(30.7)	(11.5)	(12.1)	(12.5)	(13.4)	(49.5)
Earnings (loss) per share from continuing ops	(\$1.94)	(\$0.28)	(\$0.28)	(\$0.55)	(\$0.53)	(\$1.68)	(\$0.59)	(\$0.62)	(\$0.64)	(\$0.68)	(\$2.53)
One-time gains (expenses)	(\$0.57)	\$0.00	\$0.00	\$0.00	(\$0.51)	(\$0.51)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Net income (loss) as reported	(14.2)	(4.1)	(5.4)	(10.7)	(20.4)	(40.7)	(11.5)	(12.1)	(12.5)	(13.4)	(49.5)
Earnings (loss) per share as reported	(\$3.83)	(\$0.28)	(\$0.28)	(\$0.55)	(\$1.04)	(\$2.22)	(\$0.59)	(\$0.62)	(\$0.64)	(\$0.68)	(\$2.53)
Weighted average common shares	3.7	14.5	19.6	19.6	19.6	18.3	19.6	19.6	19.6	19.6	19.6

Source: Company reports and Ladenburg Thalmann estimates



# **Company and Industry-Specific Risks**

We think the primary risks of an investment in RXDX shares include, but are not limited to:

Clinical: While efficacy and safety of other ALK inhibitors for NSCLC has been well characterized in both clinical trials and commercial experience, there can be no assurance RXDX-101 will demonstrate clinically meaningful activity in NSCLC and other solid tumors. Additionally, RXDX-101 also inhibits ROS1 and TrkA/B/C. While there is a theoretical connection between inhibition of these tyrosine kinases and anti-tumor activity for a range of solid tumors including NSCLC, colon and glioblastoma, among others, there can be no assurances that future studies can be designed to evaluate the potential efficacy of coinhibition of these tyrosine kinases or will confirm a positive impact on disease progression or survival, if a study is conducted. In the absence of clinical outcomes data, there can be no assurance that clinicians will accept or recognize the benefit of RXDX-101 over existing ALK inhibitors such as crizotinib. Additionally, the company is developing additional targeted cancer therapies based on its proprietary Oncolome database and acquired drug candidates including RXDX-103 and RXDX-104. There can be no assurance any future studies of pipeline programs will be adequate to support regulatory approval, reimbursement or commercial acceptance of pipeline programs. Lastly, RXDX relies on a virtual clinical development business model based on a small in-house management group and third party contractors. Loss of one or more executives could have an adverse impact of future clinical trials management.

**Regulatory:** RXDX is subject to oversight by multiple groups at the U.S. FDA including the Oncologic Drugs Advisory Committee for oncology drug development and Office of In Vitro Diagnostic Device Evaluation and Safety for companion diagnostics. There can be no assurance registration studies will be adequate to support regulatory filing with ODAC for RXDX-101 or any other pipeline product. Additionally, we expect the companion to diagnostic for RXDX-101 and other pipeline programs to be commercialized through diagnostic partners. There can be no assurance RXDX or its diagnostic partners will win timely PMA clearance for companion to RXDX-101 or any other pipeline product.

**Competition:** We are not aware of any other company developing a pan-inhibitor of ALK, ROS1 and TrkA/B/C. Additionally, there are currently no ROS1 or TrkA/B/C inhibitors approved for treatment of solid tumors in the U.S. or Europe. However, several companies have disclosed plans to develop therapies targeting TrkA/B/C. We believe RXDX-101 is currently the most advanced TrkA/B/C program in clinical development. There can be no assurance RXDX will be successful in maintaining its current leadership for timely commercialization of a TrkA/B/C inhibitor. Finally, several companies are developing second-generation ALK inhibitors with better blood-brain barrier than crizotinib. Some of these programs are more advanced than RGDX-101.

*Financing:* The company believes its financial resources will fund operations into at least 2017. However, depending on the pace of business development, RXDX may need additional capital to fund operations through Phase II proof-of-concept studies of RXDX-101. If Phase II studies are successful, RXDX may need access to additional capital through either internal sources or partnerships to fund registration studies and to fund commercialization. There can be no assurance RXDX will have access to capital in the future on adequate terms, or at all.

**Partnership:** RXDX will rely on partnerships with CROs, diagnostic product companies and other service providers to support clinical development and U.S. regulatory filings for RXDX-101 and its other pipeline programs. Additionally, we expect the company to seek commercial partners for RXDX-101 and its other pipeline programs in geographies outside the United States including Europe and Asia. There can be no assurance the partners will be successful in maintaining a steady supply of drug product, provide adequate support for clinical trials enrollment, optimize appropriate companion diagnostics or offer appropriate commercialization support in Europe, Asia and other regions outside the U.S. Lastly, the company licensed rights to RXDX-101 and RXDX-102 from Nerviano Medical Sciences. While Nerviano is not responsible for conducting any future clinical development, the two companies have signed a service agreement for additional



manufacturing and clinical support services through 2014. There can be no assurance Nerviano will provide adequate support for timely future development of RXDX-101.

**Product Liability:** Pharmaceutical companies may face potential product liability lawsuits associated with adverse events – both currently identified and identified through future clinical trials and commercial experience. Product liability claims may result in limiting future product promotion, removal of one or more products from the market and potential for financial penalties and fines that may adversely impact RXDX's cash flow and financial position, including cash balance and ability to meet various debt covenants.

Limited Operating History: While the company was formed in 2012, RXDX had limited operations as a drug development company prior to May 2013. This limited operating history may restrict the scope of information available for investors to form an investment opinion. RXDX is classified as an emerging growth company and is entitles to more limited disclosure requirements, which may make shares of RXDX less attractive to investors. The company went public in November 2013 through a reverse merger and trading volume in shares of RXDX has limited due in part to the small number of registered shares. There can be no assurance that there will be a liquid and orderly market for trading of RXDX shares in the near term, or ever. Additionally, if one or more holders of common stock covered by an effective registration statement seeks to sell stock, the share price may be adversely impacted.

**Debt Repayment:** The company has a \$10M debt facility with Silicon Valley Bank Corp. that matures in December 2017. There can be no assurance RXDX will have adequate funds to repay the loan facility or that alternative debt financing will be available on acceptable terms, if at all.



# **APPENDIX A: IMPORTANT RESEARCH DISCLOSURES**

#### **ANALYST CERTIFICATION**

I, Kevin DeGeeter, attest that the views expressed in this research report accurately reflect my personal views about the subject security and issuer. Furthermore, no part of my compensation was, is, or will be directly or indirectly related to the specific recommendation or views expressed in this research report, provided, however, that:

The research analyst primarily responsible for the preparation of this research report has or will receive compensation based upon various factors, including the volume of trading at the firm in the subject security, as well as the firm's total revenues, a portion of which is generated by investment banking activities.

Additional information regarding the contents of this publication will be furnished upon request. Please contact Ladenburg Thalmann, Compliance Department, 570 Lexington Avenue, 11th floor, New York, New York 10022 (or call 212-409-2000) for any information regarding current disclosures, and where applicable, relevant price charts, in regard to companies that are the subject of this research report.

### **COMPANY BACKGROUND**

Ignyta is developing personalized oncology drugs using diagnostic tests to identify patients most likely to respond to therapy. The company's lead product RXDX-101, is a TrkA/B/C, ROS1, ALK inhibitor in Phase I development for the treatment of solid tumors. Ignyta hopes to move the program into Phase II development in 2015 for multiple indications including NSCLC. The San Diego-based company is also in pre-clinical development of other targeted cancer therapies based on proprietary Oncolome molecular expression database.

## **VALUATION METHODOLOGY**

Our \$20.00 price target is based on a DCF analysis assuming 25% discount rate, 21.5 million shares on a fully diluted basis, terminal year (2022) FCF of \$168M and 15% long-term growth rate.

#### **RISKS**

These risk factors (clinical, regulatory, competition, financing, partnership, product liability, limited operating history, and debt repayment) do not constitute all the potential risks of investing in the subject company's shares. Investors should refer to the company's SEC filings including the most recent forms 10-K and 10-Q for further details on the risks associated with an investment in the subject company's shares.

## STOCK RATING DEFINITIONS

Buy: The stock's return is expected to exceed 12.5% over the next twelve months.

Neutral: The stock's return is expected to be plus or minus 12.5% over the next twelve months.

Sell: The stock's return is expected to be negative 12.5% or more over the next twelve months.

Investment Ratings are determined by the ranges described above at the time of initiation of coverage, a change in risk, or a change in target price. At other times, the expected returns may fall outside of these ranges because of price movement and/or volatility. Such interim deviations from specified ranges will be permitted but will become subject to review.

# RATINGS DISPERSION AND BANKING RELATIONSHIPS AS OF (December 16, 2014)

Rating	%	IB %
BUY	75.0	57.9
NEUTRAL	25.0	42.1
SELL	0.0	0.0

## **COMPANIES UNDER KEVIN'S COVERAGE**

ADMA Biologics, Inc. (ADMA) Mesoblast Ltd. (MBLTY) Opko Health, Inc. (OPK) Ignyta, Inc. (RXDX) Aeolus Pharmaceuticals Inc. (AOLS) Novavax, Inc. (NVAX)

Parnell Pharmaceuticals Holdings LTD (PARN)

Vericel Corporation (VCEL)



Kevin DeGeeter 212.409.2027

#### **COMPANY SPECIFIC DISCLOSURES**

Ladenburg Thalmann & Co. Inc. makes a market in Ignyta, Inc..

Ladenburg Thalmann & Co. Inc. has managed or co-managed a public offering for Ignyta, Inc. within the past 12 months.

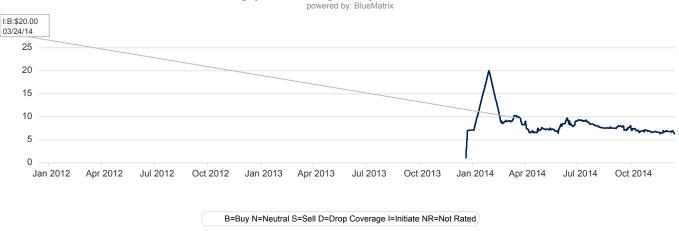
Ladenburg Thalmann & Co. Inc. intends to seek compensation for investment banking and/or advisory services from Ignyta, Inc. within the next 3 months.

Ladenburg Thalmann & Co. Inc received compensation for investment banking services from Ignyta, Inc. within the past 12 months.

Ladenburg Thalmann & Co. Inc had an investment banking relationship with the Ignyta, Inc. within the last 12 months.

#### INVESTMENT RATING AND PRICE TARGET HISTORY

## Ignyta, Inc. Rating History as of 12/15/2014



# **GENERAL DISCLAIMERS**

Information and opinions presented in this report have been obtained or derived from sources believed by Ladenburg Thalmann & Co. Inc. to be reliable. The opinions, estimates and projections contained in this report are those of Ladenburg Thalmann as of the date of this report and are subject to change without notice.

Ladenburg Thalmann & Co. Inc. accepts no liability for loss arising from the use of the material presented in this report, except that this exclusion of liability does not apply to the extent that such liability arises under specific statutes or regulations applicable to Ladenburg Thalmann & Co. Inc. This report is not to be relied upon in substitution for the exercise of independent judgment. Ladenburg Thalmann & Co. Inc. may have issued, and may in the future issue, other reports that are inconsistent with, and reach different conclusions from, the information presented in this report. Those reports reflect the different assumptions, views and analytical methods of the analysts who prepared them and Ladenburg Thalmann & Co. Inc. is under no obligation to ensure that such other reports are brought to the attention of any recipient of this report. Investors should consider this report as only a single factor in making their investment decisions.

Some companies that Ladenburg Thalmann & Co. Inc. follows are emerging growth companies whose securities typically involve a higher degree of risk and more volatility than the securities of more established companies. The securities discussed in Ladenburg Thalmann & Co. Inc. research reports may not be suitable for some investors. Investors must make their own determination as to the appropriateness of an investment in any securities referred to herein, based on their specific investment objectives, financial status and risk tolerance.

Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. The price, value of and income from any of the securities mentioned in this report can fall as well as rise. The value of securities is subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities. Investors in securities such as ADRs, the values of which are influenced by currency volatility, effectively assume this risk. Securities recommended, offered or sold by Ladenburg Thalmann & Co. Inc. (1) are not insured by the Federal Deposit Insurance Company; (2) are not deposits or other obligations of any insured depository institution; and (3) are subject to investment risks, including the possible loss of some or all of principal invested. Indeed, in the case of some investments, the potential losses may exceed the amount of initial investment and, in such circumstances; you may be required to pay more money to support these losses.

The information and material presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or the solicitation of an offer to sell or to buy any securities mentioned herein. This publication is confidential for the information of the addressee only and may not be reproduced in whole or in part, copies circulated, or disclosed to another party, without the prior written consent of Ladenburg Thalmann & Co. Inc.



Member: NYSE, NYSE MKT, FINRA, all other principal exchanges and SIPC Additional Information Available Upon Request

©2014 - Ladenburg Thalmann & Co. Inc. All Rights Reserved.





\_\_\_\_\_

## **EQUITY RESEARCH**

	TRUCTURE

**Power & Electric Utilities** 

Brian J. Russo, CFA (646) 432-6312 brusso@ladenburg.com Vinod Srinivasaraghavan (212) 409-2085 brusso@ladenburg.com

**Energy Exploration & Production, Master Limited Partnerships, Upstream** 

Noel A. Parks (212) 409-2023 nparks@ladenburg.com Michael Schmitz, CFA (212) 409-2028 mschmitz@ladenburg.com

Master Limited Partnerships, Midstream

Eduardo Seda (212) 409-2034 eseda@ladenburg.com

Master Limited Partnerships, Downstream & Others

Richard A. Verdi (212) 409-2060 rverdi@ladenburg.com

**Closed-End MLP Funds** 

Eduardo Seda (212) 409-2034 eseda@ladenburg.com

Water & Sustainable Infrastructure

Richard A. Verdi (212) 409-2060 rverdi@ladenburg.com

## **HEALTHCARE**

Biotechnology

Matthew L. Kaplan (212) 891-5247 mkaplan@ladenburg.com

**Biotechnology (BioPharmaceuticals)** 

Robert (Bert) C. Hazlett, III (212) 409-2062 rhazlett@ladenburg.com

**Biotechnology (Personalized Medicine)** 

Kevin DeGeeter (212) 409-2027 kdegeeter@ladenburg.com

**Healthcare Equipment & Medical Technologies** 

Jeffrey S. Cohen (305) 572-4110 jcohen@ladenburg.com

# FINANCIAL INSTITUTIONS

Financial Services – Business Development Cos. & Specialty Finance

Mickey M. Schleien, CFA (305) 572-4131 mschleien@ladenburg.com

Financial Services - Equity REITs

Daniel P. Donlan (212) 409-2056 ddonlan@ladenburg.com John J. Massocca (212) 409-2543 jmassocca@ladenburg.com

**Financial Services – Mortgage REITs** 

David Walrod, CFA (212) 409-2031 dwalrod@ladenburg.com

# **TECHNOLOGY**

**Internet & Software Services** 

Jon R. Hickman (510) 918-4045 jhickman@ladenburg.com

**Hardware** 

Daniel L. Amir (415) 726-5900 damir@ladenburg.com

Software and Services

Glenn G. Mattson (212) 409-2073 gmattson@ladenburg.com

# TECHNICAL ANALYSIS

Adolfo R. Rueda, CMT (212) 409-2039 arueda@ladenburg.com

## ADDITIONAL CONTACTS

Kenneth Brush, Head of Trading (212) 409-2011 kbrush@ladenburg.com
Eric Novotny (212) 409-2011 enovotny@ladenburg.com

570 Lexington Avenue 11<sup>th</sup> Floor New York, NY 10022 (212) 409-2000

NEW YORK, NY MELVILLE, NY BOSTON, MA MIAMI, FL NAPLES, FL BOCA RATON, FL HOUSTON, TX