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): October 10, 2007

MEDICINOVA, INC.

(Exact name of registrant as specified in its charter)

Delaware	**001-33185**	**33-0927979**
(State or other jurisdiction of incorporation)	**(Commission File Number)**	**(IRS Employer Identification No.)**

4350 La Jolla Village Drive, Suite 950
San Diego, CA 92122
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (858) 373-1500

Not Applicable
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

☐ Written communications pursuant to Rule 425 under the 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 7.01 Regulation FD Disclosure.

Representatives of MediciNova, Inc. (the "Registrant") are scheduled to make a presentation at the 2007 BIO InvestorForum on October 10, 2007 at 11:15 a.m. Pacific time. A copy of the slide presentation to be used by the Registrant at this conference is attached hereto as Exhibit 99.1.

The information in this Current Report, including Exhibit 99.1 furnished herewith, is being furnished and shall not be deemed "filed" for any purpose, including for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section. The information in this Current Report shall not be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit	Description
99.1	Slide presentation of the Registrant

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.

MEDICINOVA, INC.

Dated: October 10, 2007

By: /s/ Shintaro Asako
Shintaro Asako
Vice President and Chief Financial Officer

EXHIBIT INDEX

Exhibit	Description
99.1	Slide presentation of the Registrant

Exhibit 99.1

Accelerating the global development and commercialization of innovative pharmaceuticals

October 2007

Safe Harbor Statement

This presentation contains forward-looking statements that involve risks and uncertainties. These forward-looking statements include, but are not limited to, statements regarding our strategies and objectives, our plans for the development and commercialization of our product candidates, including development programs and clinical trials, our industry, our financial condition, liquidity and capital resources, the efficacy and potential benefits of our product candidates and other statements that are not historical facts. These forward-looking statements may be preceded by, followed by or otherwise include the words "believes," "expects," "anticipates," "intends," "estimates," "projects," "can," "could," "may," "will," "would" or similar expressions. Actual results or events may differ materially from those expressed or implied in any forward-looking statements due to various factors, including, without limitation, the risks and uncertainties inherent in clinical trials and product development and commercialization, such as the uncertainty in results of clinical trials for our product candidates, the uncertainty of whether the results of clinical trials will be predictive of results in later stages of product development, the risk of delays or failure to obtain or maintain regulatory approvals, our reliance on third parties and the timing, cost and design of future clinical trials and research activities, the timing of our expected filings with the FDA, the failure to execute strategic plans or strategies successfully, our collaborations with third parties, intellectual property and contract rights, and the other risks and uncertainties described in our filings with the Securities and Exchange Commission, including our annual report for the year ended December 31, 2006 and our subsequent periodic reports on Forms 10-Q and 8-K. You should not rely unduly on these forward-looking statements, which speak only as of the date hereof. We undertake no obligation to update publicly or revise any forward-looking statements discussed in this presentation.

MEDICINOVA

Corporate Overview: MediciNova, Inc.

US-Based Pharmaceutical Development Company:

- Unique access to differentiated, high-value assets primarily from Japanese alliances

New Approaches to Treat Serious Medical Conditions:

- Easy intravenous formulation to treat Status Asthmaticus patients
- Safe and potential disease modifying (neuroprotection) therapy for Multiple Sclerosis

Diverse Pipeline:

- Additional upside with six more compounds in development for various indications

MediciNova Headquarters: San Diego, CA

Business Model: Return On Investment

In-License:

- Product candidates ready to enter clinical or preclinical development

Proof-of-Concept Trials:

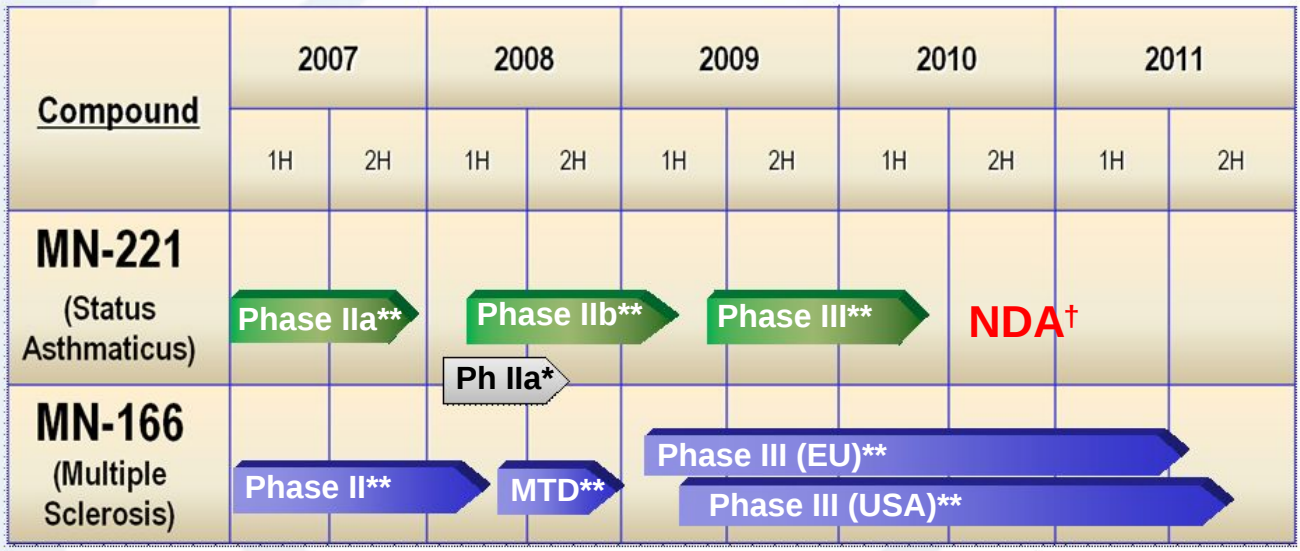
- Conduct Phase I and Phase II trials to prove safety and efficacy of compound

Two Pathways Towards ROI

After Phase II:

- Continue internal development of compound towards commercialization
- Seek partnership for compound

A Focused Development Plan



** Extended Dosing (4 Hour Infusion)*

*** Anticipated commencement and completion dates based on current projections*

† Filing as early as 2H'10

MEDICINOVA

MN-221: A New Approach to Treating Status Asthmaticus

Definition:

Long-lasting and severe asthma episode that is not responsive to initial bronchodilator or corticosteroid therapy

Market Opportunity:

- ~1.9 million emergency room visits in the U.S. each year*
- ~500,000 hospitalizations & ~4,000 deaths annually in the U.S.*

Current Standard of Care:

- Beta agonists, inhaled or nebulized (all patients)
- Corticosteroids, IV or oral (66 – 77% of pts)

Phase IIa Study; Positive Results October 2007

Source: National Center for Health Statistics/CDC

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Competitive Advantages of MN-221

1. ***Proven mechanism of action (β_2-adrenergic agonist)***
2. ***Rapid, reliable IV delivery (vs. inhaled/nebulized)***
3. ***Safer (greater selectivity = fewer cardiovascular SE)***

Human β–Adrenergic Receptor Selectivity			
Drug	Adrenoceptor (IC_{50}, μM)		β_2-Adrenoceptor Selectivity
	β_1	β_2	(IC_{50} for β_1/IC_{50} for β_2)
MN-221	1.39	0.0224	62.1
Albuterol (Salbutamol)	5.63	1.56	3.61

Displacement of [^{3}H]-cyanopindolol or [^{3}H]-CGP 12177 binding in membrane preparations expressing human cloned β_1- and β_2-adrenoceptors, respectively

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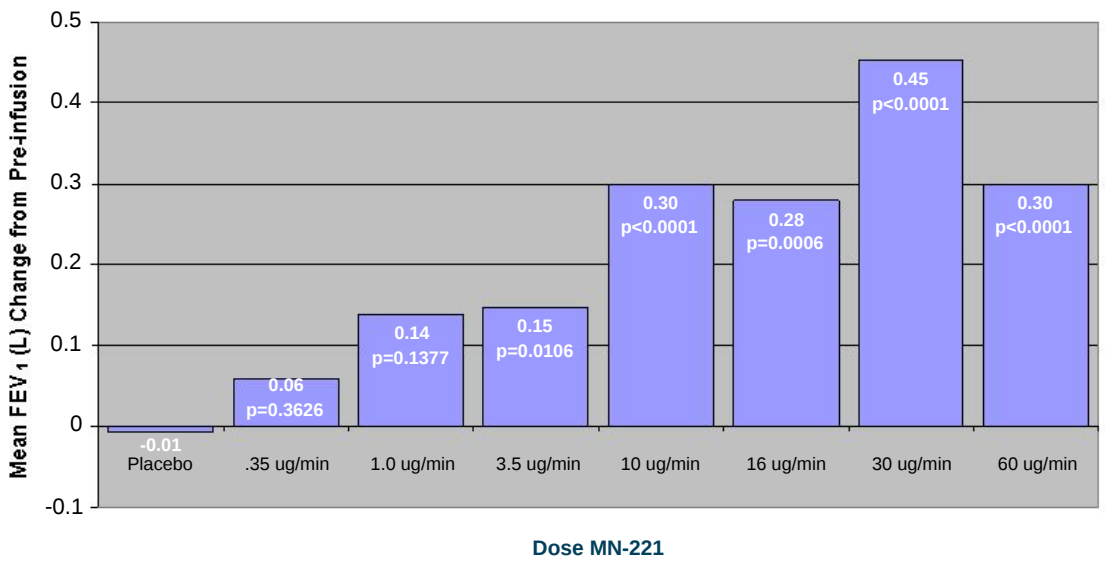
Efficacy in Asthma Demonstrated: Effects on FEV1



Dose-Response p-value < 0.0001

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Safety Profile for MN-221

- In the Phase 1 study there were no clinically significant cardiovascular, electrocardiogram (ECG), or vital sign changes, nor were there any other safety concerns observed at any dose tested
- MN-221 has been tested in over 300 subjects in the US and Europe to date
- Subjects have had infusions of 16 micrograms/minute of up to 4-hours with MN-221 with no clinically significant adverse events reported
  - Subjects have had infusions at lower doses of up to 24-hours with no clinically significant adverse events reported
- MN-221 is a partial agonist for the $ß_1$ receptor in the heart and a full agonist for the $ß_2$ receptor in the lungs, which in addition to its high selectivity may explain why no clinically significant cardiac events are seen with this drug

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MN-221: Next Steps

- Announced positive Phase IIa results in October 2007
- Commence Phase IIb study to test efficacy of MN-221 in Status Asthmaticus patients in the emergency room
  - Anticipated commencement date: Q2'08
  - Results expected as early as Q2'09

- Commence second Phase IIa study for Extended Dosing (4 Hour Infusion)
  - Anticipated commencement date: Q1'08
  - Results expected as early as Q3'08

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MN-166 is a Next Generation Treatment for Multiple Sclerosis

In an oral delivery form, MN-166 provides a high degree of safety with a broader (neuroprotective + anti-inflammatory) efficacy profile than interferons.

Based on clinical and radiological findings, MN-166 has the potential to modify disease progression by mitigating neuronal damage and to meet the need for a new MS therapy sought by the MS scientific community.

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MN-166 Targets Chronic and Acute Aspects of Multiple Sclerosis

CHRONIC: **(Current and Developing Treatments Are Not Neuroprotective)**

- **Neuroprotection Outcome:**
  - Attenuated % brain volume loss (- 0.79% vs. -1.2%)
  - ***P-Value 0.0352***
- **Potentially Slows Disease Progression via Neuroprotection**
  - Stimulates Th2 cytokine production (IL-4, IL-10)
  - Stimulates neurotrophic factor release (NGF, GDNF, NT-4)
  - Cerebrovasodilation (via PGI_2 and/or adenosine receptors)

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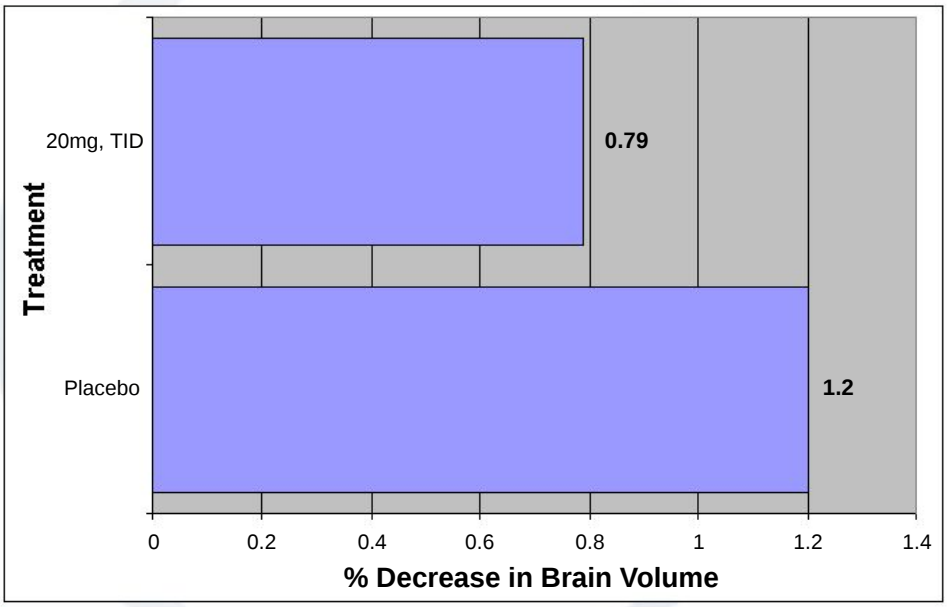
Chronic Efficacy Demonstrated: Effects on Brain Volume



Brain volume changes are linked to axonal loss

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MN-166 Targets Both Chronic and Acute Aspects of Multiple Sclerosis

ACUTE: **(MN-166 Similar Acute Efficacy to Current and Developing Treatments)**

- **Anti-inflammatory Outcomes:**
  - Pilot studies found reduced relapse rate and Th2 cytokine shift
  - Prolong time to relapse (>1yr.) ***P-Value 0.0438***
  - Increased % relapse-free (52%) ***P-Value 0.033***
  - Decreased T1-Gd lesion volume
- **Reduces Relapses via Inhibiting Inflammation**
  - Phosphodiesterase IV and Leukotriene inhibitor
  - Inhibits nitric oxide and reactive oxygen species production
  - Inhibits Th1 cytokine production (IFN-g, TNF-a, IL-1b, IL-6)

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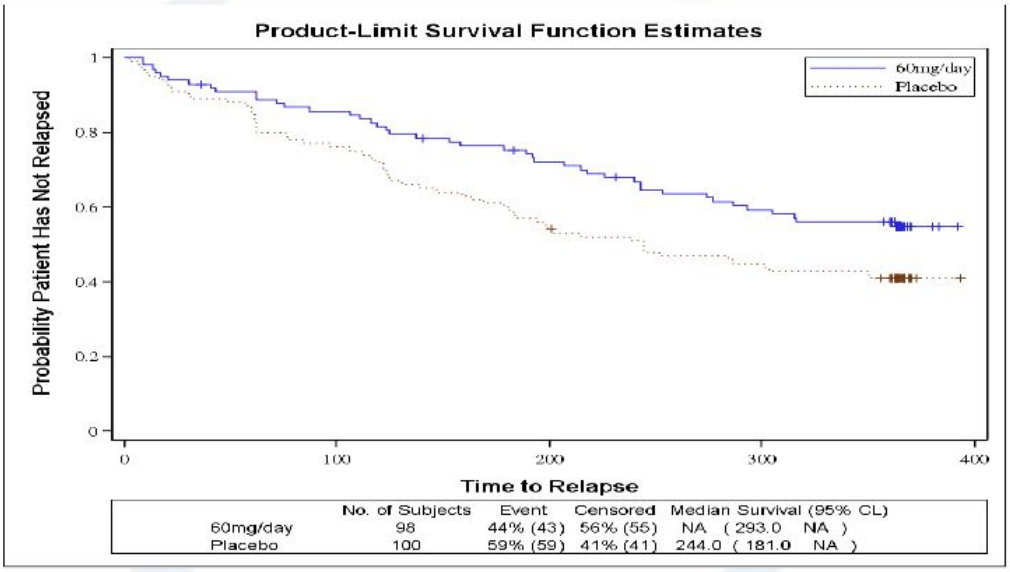
Acute Efficacy Demonstrated: Time to First Relapse



Phase III endpoint for certain FDA-approved MS products

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MN-166: Next Steps

- Complete Formulation Work on Once-Daily Dosing
  - Anticipated completion date: November 2007
- Commence Relative Bioavailability Study (Ex-US)
  - Anticipated commencement date: Q1’08
- Announce Two-Year Phase II Results
  - Results expected: March 2008
- Submit US IND
  - Submission anticipated as early as March 2008
- Commence MTD Study
  - Anticipated commencement date: Q2’08
  - Results expected as early as Q4’08

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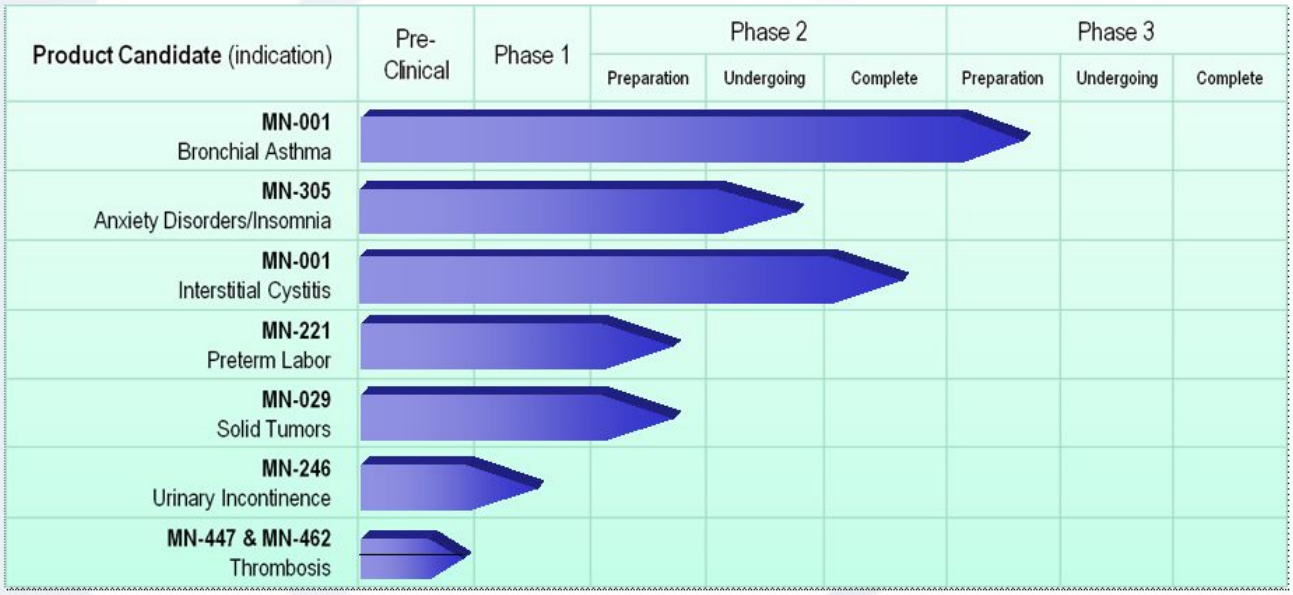
Commercially-Attractive Diversified Portfolio



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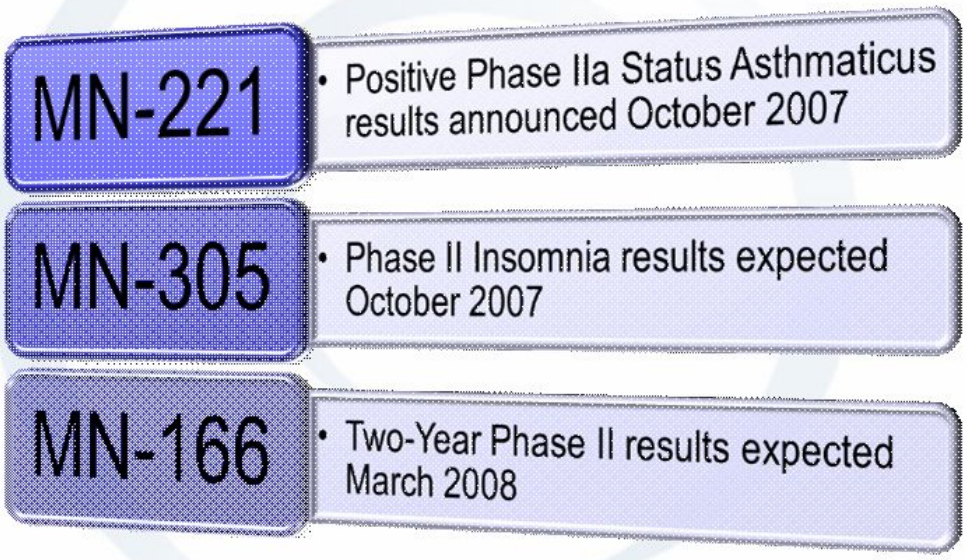
Near-Term Clinical Milestones



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Near-Term Licensing Opportunities

- **MN-305: For Insomnia**
  - Phase II results expected October 2007
- **MN-166: For Multiple Sclerosis**
  - Positive one-year Phase II results announced March 2007
- **MN-001: For Asthma**
  - Once-daily formulation work ongoing; completion of new formulation expected as early as Q2’08
  - New composition of matter patent granted; patent protection through 2023

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Financials

- **Dual Listing:**
  - MNOV (NasdaqGM), December 2006
  - 4875 (Osaka (Hercules), February 2005
- **Cash: $85.9M as of 6/30/07**
- **Expected Cash Balance: ~$65M as of 12/31/07**
- **Market cap as of 10/09/07: ~$101.27M**
- **Shares outstanding: 11.9M**

Management Team with Global Experience





Leadership	Years Experience	Background
Yuichi Iwaki, MD, PhD CEO & President	32	Prof. USC, Pitt; Advisor to JAFCO, Tanabe Director, Avigen, Inc.
Richard Gammans, PhD, MBA Chief Development Officer	30	Incara, Indevus, BMS
Kenneth W. Locke, PhD Chief Scientific Officer	23	Tanabe Research Laboratories USA, Indevus, Hoechst
Shintaro Asako, CPA Chief Financial Officer	9	KPMG USA (Audit), Arthur Andersen USA
Masatsune Okajima, CMA VP, Head of Japanese Office	16	Daiwa Securities SMBC, Sumitomo Capital Securities, Sumitomo Bank

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Investment Highlights

- **Unique In-Licensing Approach**
  - Access to Differentiated, High-Value, Assets from Primarily Japanese Alliances
- **Focused Internal Development Plan**
  - **MN-221: IV Formulation for Status Asthmaticus**
  - **MN-166: Neuroprotective Treatment for Multiple Sclerosis**
- **Broad Pipeline**
  - Multiple Opportunities for Value Creation through Establishment of Partnerships

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