



# **At the Edge of Transition into a Product Company**

**2008 Shareholders' Meeting**

Basel, April 21, 2008

# Track Record in 2007

## Santhera Delivered on All Key Milestones (1)



- **Regulatory**

- Filing for marketing authorization of SNT-MC17 in FRDA in EU, Switzerland and Canada

- **Clinical**

- Initiation of Phase III study with SNT-MC17 in FRDA in US; recruiting
- First time clinical relevant efficacy of SNT-MC17 in DMD
- Initiation of Phase IIb study with JP-1730 in DPD in US; recruiting

- **Operational**

- Expansion of partnership with Takeda:  
European marketing rights of SNT-MC17 in DMD licensed to Takeda
- In-licensing of SNT-317 for CMD from Novartis

# **Track Record in 2007**

## **Santhera Delivered on All Key Milestones (2)**



- **Intellectual Property Rights**
  - Orphan drug designation granted in EU and US; now for all 3 indications of SNT-MC17
  - Use patent granted in Canada for SNT-MC17 in FRDA
  - 6 patent families filed for preclinical compounds
- **Financials**
  - Total income of CHF 11.7m
  - Efficient cash management; expenses focused on R&D
  - IPO proceeds untouched at 2007 year-end

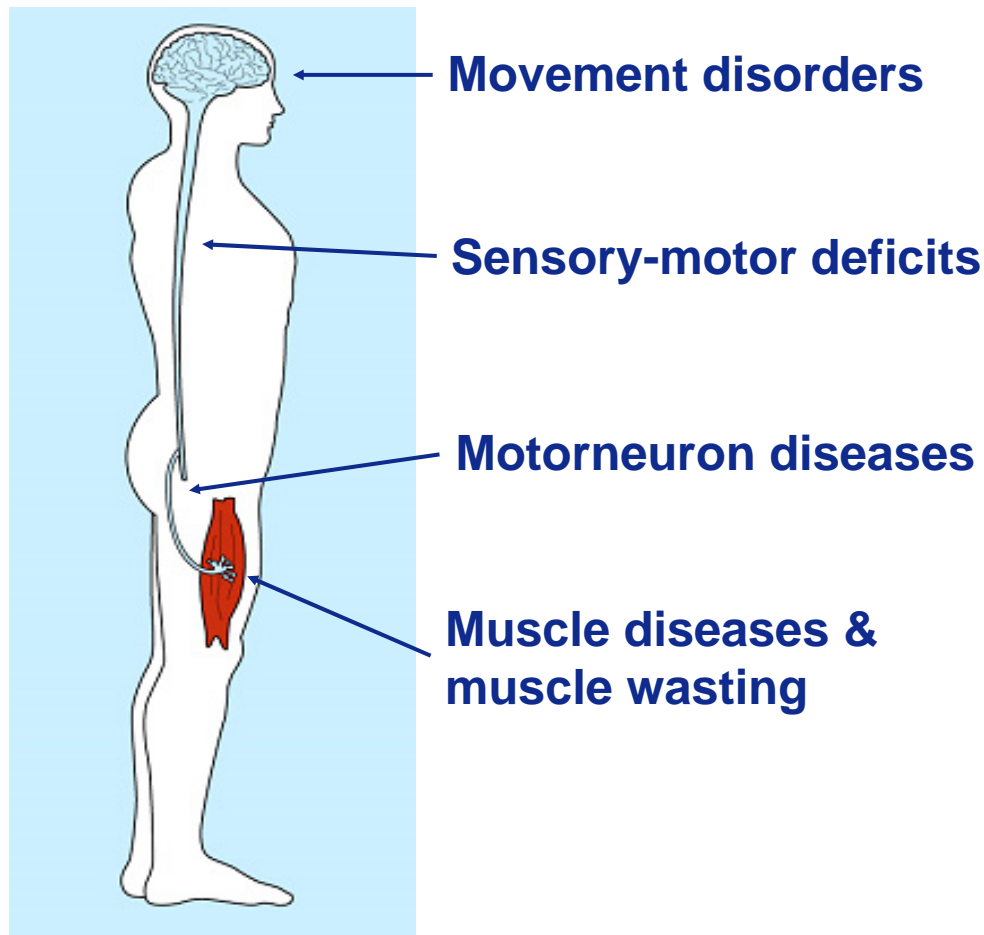
# Taking Advantage of Proven Business Model in Orphan Indications

- Small-molecule drugs
- Rare to very rare (orphan) indications
- Market exclusivity through orphan drug protection
- Well-organized medical communities, patient advocacy groups
- High pricing opportunity, niche markets

## Specific business drivers of Santhera

- Focus on neuromuscular and muscle wasting diseases
- Chronic, mostly life-threatening conditions
- Limited competition, if any
- Own marketing and sales activities in North America, partnerships in other territories

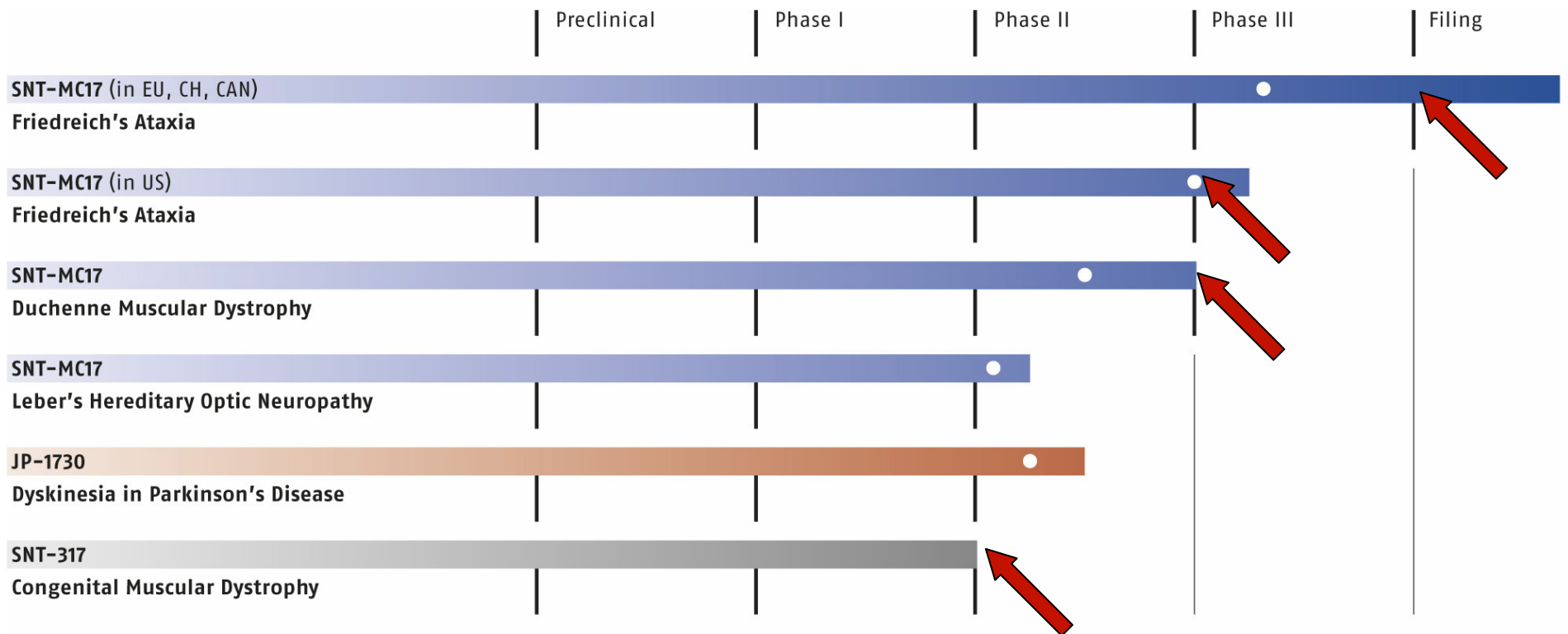
# Over 200 NMDs and Movement Disorders Known, Diagnosed but Mostly Not Treated Today



- **Dyskinesia in Parkinson's Disease**
- Huntington's disease
- Spinocerebellar ataxias
- **Friedreich's Ataxia**
- Spinal cord injury
- Charcot-Marie-Tooth neuropathies
- Amyotrophic lateral sclerosis
- Guillain-Barre syndrome
- Peripheral nerve injuries
- **Duchenne Muscular Dystrophy**
- Cachexia (e.g. **Cancer cachexia**)
- **Congenital Muscular Dystrophy**
- Myopathies
- Myasthenia gravis
- Myotonic syndromes
- Ion channel muscle diseases
- Spinal muscular atrophies

Selected examples, areas highlighted in red reflect Santhera's current areas of focus

# Clinical Pipeline Reflects Significant Progress in 2007



○ Status January 1, 2007

# SNT-MC17 in FRDA: Potentially First Approved Product to Help Patients



SNT-MC17 has shown to improve

- life-threatening heart condition
- neurological functions
- fine motor skills
- quality of life

of patient suffering from Friedreich's Ataxia



# **SNT-MC17 in FRDA: Santhera's First Key Value Driver**



- **Product file submitted for marketing authorization in EU, Switzerland and Canada**
- **Joint pre-launch activities on-going with Takeda, marketing partner in Europe**
- **Pivotal Phase III trial in the US initiated, patient recruitment ongoing in both centers**
- **Market potential for SNT-MC17 in FRDA estimated to be EUR 300m for Europe and US together<sup>1</sup>**
- **Product already accepted by medical community**
- **European marketing approval would trigger milestone payment from Takeda**

<sup>1</sup> **Company estimate**



# SNT-MC17 in DMD: First Ever Demonstration of Clinical Efficacy

Data obtained in a small double-blind, placebo-controlled trial shows potential of SNT-MC17 to improve life-threatening

- respiratory functions
- heart parameters

of patients suffering from Duchenne Muscular Dystrophy



# **SNT-MC17 in DMD: Potential Second Indication for Santhera's Lead Product**



- **First time demonstration of potential efficacy in a clinical trial in DMD**
- **Study participants offered a two-year open-label extension study**
- **Meetings pending with European and US health authorities to discuss Phase III program**
- **Begin of Phase III clinical trials would trigger milestone payment from partner Takeda**

# **SNT-317 in CMD: Novel Molecule in Core Area In-licensed from Novartis**



- **A group of severe muscle weaknesses at birth (“floppy infant syndrome”) or early childhood**
- **Prevalence estimated to be 1 in 20,000 to 50,000 newborn<sup>1</sup>**
- **No approved pharmaceutical treatment available or in advanced clinical development**
- **Research at Santhera in animal model shows potential of SNT-317 to**
  - **improve muscle strength**
  - **ameliorate skeletal deformation**
  - **reduce early mortality**
- **Exclusive license to develop and market SNT-317 for the treatment of CMD (and other neuromuscular diseases) obtained in July 2007**

<sup>1</sup> British Muscular Dystrophy Campaign

# Key Talent Added - Company Still Lean



- **Full time staff of 54 employees in Liestal**
  - 27 in Preclinical Development
  - 14 in Clinical Development
  - 2 in Business Development
  - 2 in Marketing & Sales
  - 10 in General & Administration
- **Two employees in North America (February and April 2008)**
- **44 academics**
- **Average age of 41 years**
- **Additional 17 part-timers, mostly academics in Research & Development and Business Development**

# Key Financials 2007



	2007	2006
<b>Cash and cash equivalents</b>	<b>106,618</b>	125,662
<b>Net cash burn (excl. capital increases)</b>	<b>– 19,100</b>	– 27,501
<b>Gross operating and investing cash flow</b>	<b>– 29,646</b>	– 26,534
<b>Revenue / Other operating income</b>	<b>11,665</b>	1,418
<b>Total operating expenses</b>	<b>– 42,792</b>	– 30,057
- whereof R&D expenses	– 23,335	– 17,985
- whereof noncash-relevant share-based payments	– 10,154	– 2,566
<b>Net loss</b>	<b>– 27,871</b>	– 28,258

- **Total income of CHF 11.7m in 2007 (2006: CHF 1.4m)**
- **Monthly net cash-burn in 2007 CHF 1.6m compared to CHF 2.3m in 2006**

# Condensed Balance Sheet



IFRS, consolidated, in CHF thousands,  
as of December 31

**2007**      **2006**

<b>Cash and cash equivalents</b>	<b>106,618</b>	125,662
<b>Other current assets</b>	<b>2,969</b>	2,472
<b>Noncurrent assets</b>	<b>34,588</b>	34,260
<b>Total assets</b>	<b>144,175</b>	162,394

▪ IPO proceeds still available

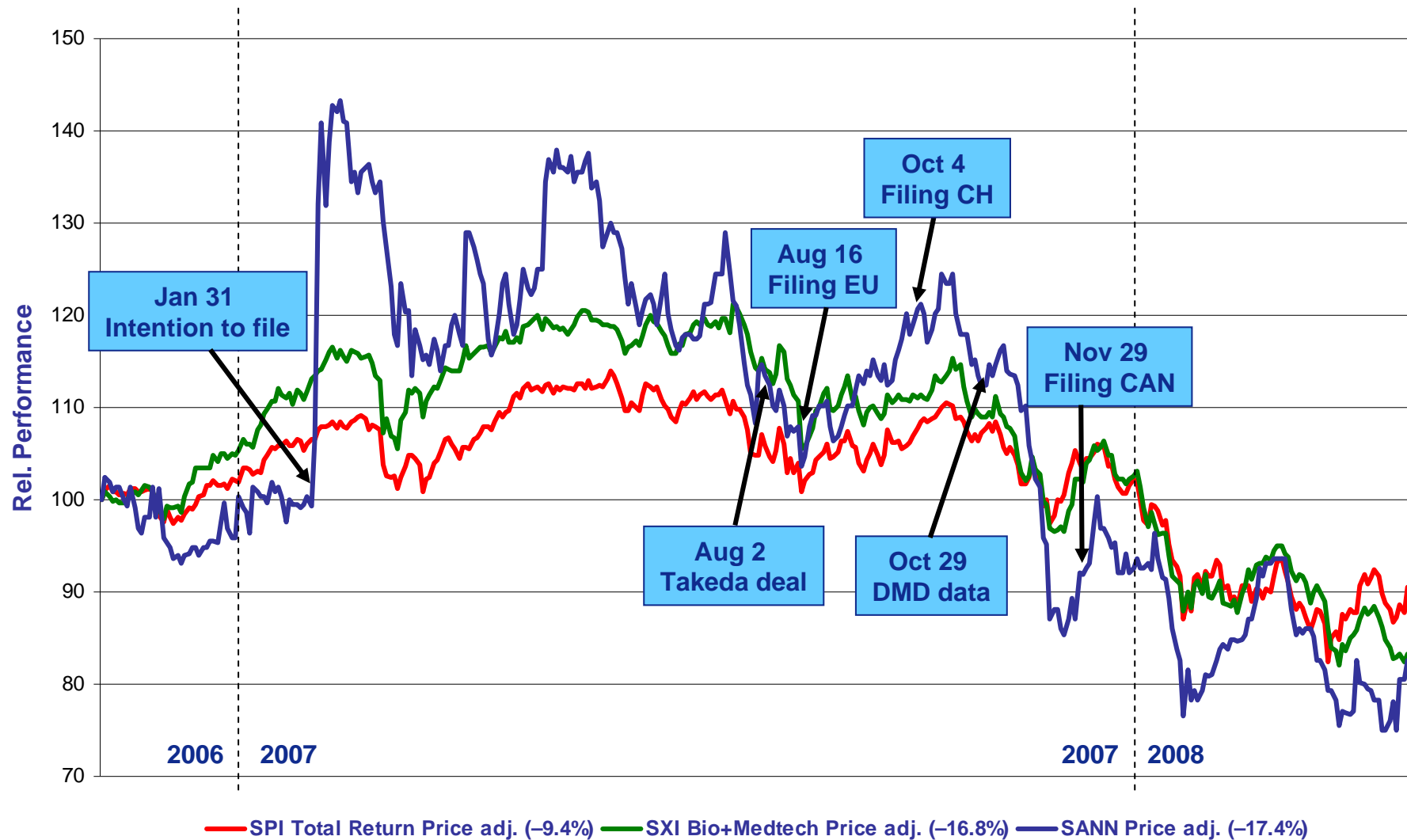
<b>Equity</b>	<b>135,514</b>	152,048
<b>Noncurrent liabilities</b>	<b>272</b>	1,758
<b>Current liabilities</b>	<b>8,389</b>	8,588
<b>Total equity and liabilities</b>	<b>144,175</b>	162,394

▪ Remaining outstanding loans  
(CHF 1.4m) from tbg fully  
repaid

▪ Fully equity financed

<b>Cash per Share (in CHF)</b>	<b>34.20</b>	40.55
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# Share Performance since IPO





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