

Newron Pharmaceuticals SpA SIX: NWRN

Corporate presentation

March 2015

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About Newron Pharmaceuticals

~\$475M Market Cap listed on SIX Swiss Exchange (NWRN)

 Driven to deliver effective treatments to patients living with debilitating Central Nervous System (CNS) diseases

- Xadago (safinamide) for Parkinson's disease:
 - EU Commission grants Marketing Authorization Feb. 24, 2015
 - Accepted for filing by the FDA March 2,2015
- Material revenues from license agreements
- Moving towards a U.S.-based, CNS-specialty, commercial orphan company

Licensing Revenues

- → Xadago® (safinamide) add-on therapy for Parkinson's disease (PD)
- Multiple development-stage assets
- Phase II-ready asset for schizophrenia

Phase II Orphan Drug Portfolio

- → Rett syndrome
- Treatment resistant PD
- → ALS
- Orphan neuropathic pain





Management Team



Stefan Weber CEO



Ravi Anand CMO



Marco Caremi Executive VP Business Development



Roberto Galli Vice President Finance



Anders Haegerstrand General Manager Newron Sweden































Pipeline Overview

Products	Preclinical	Phase I	Phase II	Phase III	Commercial Rights		
Safinamide ¹					Zambon		
Adjunctive to dop	tive to dopamine agonist early-stage PD						
Adjunctive to levo	odopa mid-to late-stag	e PD			Meiji Seika		
Sarizotan ³					V		
Rett syndrome					Yes		
sNN0031 ²					Vac		
Orphan indication	on in PD			·	Yes		
sNN0029 ²					Yes		
ALS				·			
NW-3509 ¹					Yes		
Schizophrenia							
Ralfinamide ¹					Yes		
Orphan indication	on in neuropathic pai	n					

¹ Safinamide, NW-3509 and Ralfinamide all developed from Newron's ion channel based research



² sNN0031 and sNN0029 acquired by M&A

³ Sarizotan was licensed from Merck Germany



Valuable Assets with Licensing and Commercial Opportunities

Safinamide

- Marketing Authorizations
 - EU: Feb. 24, 2015
 - Switzerland: 2015
 - US Q4: 2015
- Material revenue generating licenses with:
 - Zambon
 - Meiji Seika in Japan/
 Asia
- Licensed worldwide; U.S. sublicenses pending
- Peak sales potential \$540 to \$650M

NW-3509

- Schizophrenia
- World-wide antipsychotic market: \$23B
- Initiate Phase II in Q2:2015

Sarizotan

- Rett syndrome
- Orphan patient population: 35K-40K in U.S. and EU
- Initiate Phase 2 pilot efficacy study in Q3:2015
- Prepare for Phase II/III pivotal trial

sNN0031

- Severe, treatmentresistant PD
- Orphan patient population: 180K in U.S and EU
- Phase II study initiated in Jan. 2015

sNN0029

- Amyotrophic lateral sclerosis (ALS)
- Orphan patient population: 50K in U.S. and EU
- Phase II study initiated Jan. 2015

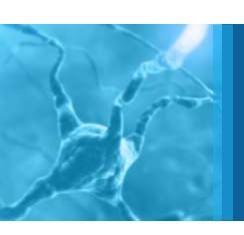
Licensed

Licensing Opportunity

Plan: Launch First Orphan Product by 2017; Licensing potential







Xadago® (safinamide) – Potentially First NCE Approved for PD in a Decade

Products	Preclinical	Phase I	Phase II	Phase III	Commercial Rights
Safinamide					
Adjunctive to dopamine agonist early-stage PD					Zambon
Adjunctive to levodopa mid-to late-stage PD					Meiji Seika

Xadago® (safinamide) – Potentially First NCE Approved for PD in a Decade

Parkinson's

disease affects

7M to 10M

patients worldwide

First PD therapy working through dual mechanism



Azilect (rasagiline) last NCE approved in 2006; No NCE pipeline candidates within 5 years

Xadago® (safinamide) – Once daily oral adjunctive therapy for all stages of PD

- Alpha-amino amide derivative, high solubility and bioavailability with quick onset and long lasting effects (> 2 years)
- First PD therapy working through dual mechanism; potential new ATC, as current PD treatments only enhance dopaminergic function
 - Enhances dopaminergic function
 - Reduces glutamatergic activity

Efficacy and safety demonstrated as add-on to

- dopamine agonists (early PD)
- L-dopa (mid to late stage PD)



Xadago® (safinamide) Shows Potential to Benefit Parkinson's Patients at All Stages

Current PD Paradigm

Early stage (mild)

Mid to late stage

Dopamine agonist

 First-line treatment in early patients, efficacy decreases over time, significant side-effects

Levodopa + adjunct

 Associated with dyskinesia, ON/OFF periods and other major side effects

Safinamide Enhances Existing Treatment Paradigm

Early stage (mild)

Mid to late stage

Dopamine agonist

Dopamine agonist + safinamide Levodopa + (adjunct +) safinamide

- Enhances dopamine agonist effects
- Delays levodopa use

Delay the use of levodopa as long as possible: once you use levodopa, dose as low as possible

7 to 10 million world wide

20 to 30 percent in early stage

70 to 80 percent in mid to late stage

>\$4 Billion worldwide market





Xadago® (safinamide) Offers Multiple Benefits to PD Patients w/ Duration of Effect

Early PD Patients – add to dopamine agonist

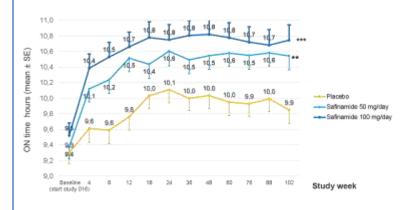
- Significant improvement of
 - UPDRS III motor function, regulatory endpoint (mean change, responder rate)
 - Quality of life (PDQ-39, EQ5D)
- Reduction of number of interventions (first time use of L-dopa)
- Benefits seen after 6 and 18 months
- Delay levodopa

Mid- to late-stage PD Patients

- add to dopamine replacement
- Significant improvement of
 - ON Time/OFF Time regulatory endpoint
 - UPDRS II activities of daily living
 - UPDRS III motor function
 - UPDRS IV treatment complications
 - CGI (clinical global impression)
 severity and improvement
 - GRID HAMD (depression)
- Additional ON Time Without Any Increase In Any Dyskinesia
- Dyskinesia significantly improved
- Benefits seen after 6 and 24 months

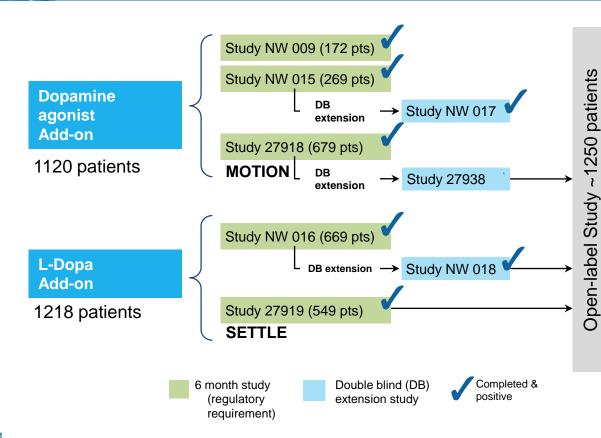
Long-Term Duration of Effect

ON Time (without troublesome dyskinesia) - Change from Baseline





Clinical Trials Support Long-term Patient Benefits







Xadago® (safinamide) – Approved in EU U.S. Approval Expected End 2015

EU Marketing Authorization:

- Both dopaminergic and non-dopaminergic mechanisms
- Sustained efficacy for 2 years for ON Time, OFF Time and UPDRS III
- "very much/much improved" in Clinical Global Impression
- Significant improvement in activities of daily living (UPDRS III)
- Extremely well tolerated
- No drug interactions; no age, gender or race restrictions
- No dietary restrictions
- No requirement for laboratory tests, ECG, or any other examination
- Significant effects in early-stage PD patients



 Accepted for filing by the FDA

 Approval expected Q4:2015 for both early and mid- to late-stage add on for PD EU: Marketing Authorization Feb. 24, 2015

Switzerland:

Approval expected 2015



Xadago® (safinamide) - Commercial Opportunity

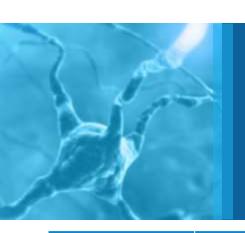


Milestone and royalty revenues to Newron since 2012

Long lasting market exclusivity (patent life: 2029 in both EU and U.S.)







Sarizotan – Targeting respiratory disturbances in Rett syndrome

Phase II Phase III **Products Preclinical** Phase I **Commercial Rights**

Sarizotan

Rett syndrome

Rett Syndrome Causes Severe Disability, Reduces Life Expectancy in Girls

Rett Syndrome, or cerebroatrophic hyperammonemia

- Severe neurodevelopmental disorder primarily affecting females (1:10,000)
- Mutations in X-linked methyl CpG-binding protein 2 in majority of patients
- Normal development until 6-18 months of age, then lose fine motor skills, ability for social interaction, encounter cardiorespiratory dysregulation

Life Expectancy

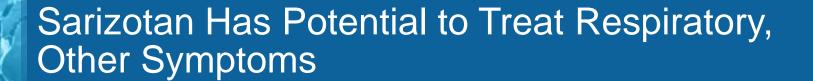
71.5% chance of surviving to age 25 years (vs 99.9%)
60% survival at 37 years (vs. appr. 98%)

25% of sudden deaths in Rett linked to cardiorespiratory abnormalities

Unmet Need:

- No specific cure
- Focus on symptom management
- Medication needed for breathing irregularities, motor difficulties, seizures' control (anti-convulsant)



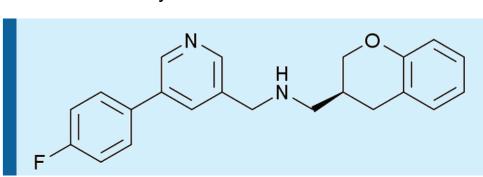


- New chemical entity from the group of aminomethyl chromanes
- Breathing disturbance in Rett syndrome postulated to involve hyperexcited expiratory neurons in brain stem (Kölliker-Fuse nucleus)
- Full agonist at 5HT_{1A} receptors, partial agonist / antagonist at D₂ receptors
- Dramatic effect demonstrated in null mutant MeCP2 mouse model of Rett syndrome
- Potential additional benefit in other core features of Rett syndrome

Behavior

Cognition

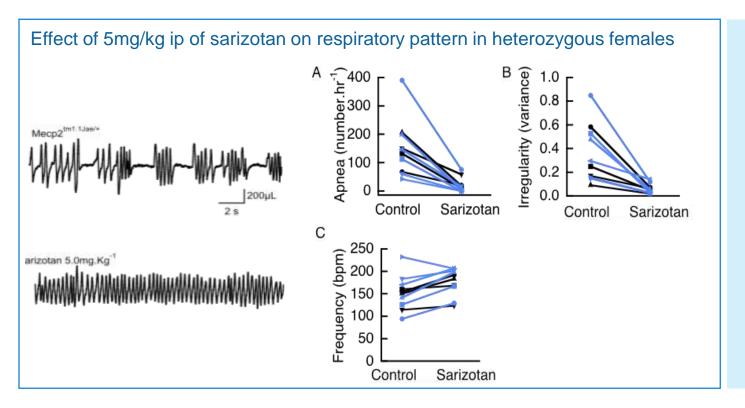
Neurological deficits







Sarizotan Reduced Respiratory Arrythmia in Pre-Clinical Studies



Reduced the incidence of apnea in MeCP2 deficient mice of ~85% of their pretreatment levels. In addition, the irregular breathing pattern, characteristic of RTT subjects and mouse models was corrected to that of wild type (WT) littermates



Sarizotan has Clear Clinical Development, Commercialization Path

- Gain regulatory acceptance of CMC/preclinical/clinical safety data package and agreement to accept single positive study for approval Q2:2015
- Advocacy relationships being developed; Rett Foundation for potential funding/co-sponsorship of trials
- Double blind, placebo-controlled pilot study evaluating respiratory symptoms (EU/U.S. centers) Q3:2015
- Phase II/III single potentially pivotal study
 - Double blind, placebo-controlled, multi-center, randomized
 - Total duration 24 weeks, approx. 60 patients
 - Start 2015, reporting 2016

US 16,000 patients

Orphan exclusivity
7 years post approval

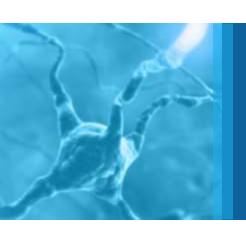


Orphan exclusivity

10 years post approval







NW-3509 – Schizophrenia

Products	Preclinical	Phase I	Phase II	Phase III	Commercial Rights
NW-3509					
Schizophrenia					

NW-3509 Brings New Mechanism to Schizophrenia Treatment

- First in class voltage-gated sodium channel (VGSC) blocker for add-on treatment in schizophrenia, schizo-affective and bipolar disorders
- Novel small molecule, oral available, rapid onset of action, high availability in the brain
- Potential to address poorly responding patients with schizophrenia/mania
- Benefit shown in models of positive symptoms, aggression, cognition (schizophrenia) mania, depression, obsessive behavior
- IND approval from FDA as add-on to antipsychotics for patients with psychosis
- Phase I study completed
 - Drug was well tolerated
 - Exposure increased with dose
 - Exposure overlaps with exposure in animals at doses proven to be efficacious
- Phase II to start first half 2015
- Large market opportunity (anti-psychotic market >\$23bn)
- Composition of matter USPTO, 2013 Patent life 2028 plus extension



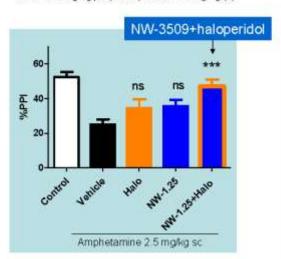


Add-On: Amphetamine-induced PPI Deficit Model

NW-3509 augments the effect of typical and atypical antipsychotics in amphetamine-induced PPI deficit

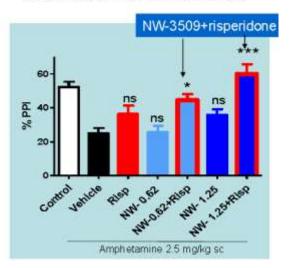
Add-on with non-active dose of haloperidol

MED 1.25 mg/kg po (+haloperidol 0.05mg/kg p)



Add-on with non-active dose of risperidone

MED 0.62 mg/kg pa (+risperidone 0.05 mg/kg ip)



Amph (2.5 mg/kg sc) and NW-3509A (1.25 or 0.62 mg/kg po) were administered 5 min before PPI session. Haloperidol and risperidone were administered ip 30 min before PPI session at 0.05 mg/kg. Statistics: Tukey's multiple comparison test *p<0.05, ***p<0.001 vs Vehicle+Amp (n=6-18 rats per group) (Studies performed by Dr Bortolato, Dept. of Pharm. Sciences, Univ. Cagliari- USCLA)



Additional Orphan Pipeline Programs

Products	Preclinical	Phase I	Phase II	Phase III	Commercial Rights
sNN0031					
Orphan indication	n in PD				
sNN0029					
ALS					
Ralfinamide					
Orphan indication	n in neuropathic pain				

- sNN0031 severe, treatment resistant Parkinson's disease (orphan)
- sNN0029 Amyotrophic lateral sclerosis (ALS) (orphan)
- Ralfinamide Neuropathic pain (orphan)





Business Development: Outlicensing Assets, In-licensing CNS Orphan Assets

- Driven to deliver effective treatments to patients living with debilitating neurodegenerative diseases
- Funded through material licensing revenues and milestone payments
- Building commercial biopharmaceutical company and launching at least one orphan CNS drug in U.S.

Licensing Revenues

- → Xadago^R (safinamide) add-on therapy for Parkinson's disease (PD)
- → Multiple development-stage assets
- Phase II-ready asset for schizophrenia

Phase II Orphan Drug Portfolio

- → Rett syndrome
- Treatment resistant PD
- → ALS
- Orphan neuropathic pain



Milestones/News Flow

2 0 1 5 / 2 0 1 6

Safinamide in PD

- Market approval/launch
 - EU launch Q1: 2015
 - CH 2015
 - US approval Q4: 2015;
 Launch Q1: 2016
- US sublicense by Zambon: 2015

NW-3509 in Schizophrenia

- Phase II initiate Q2:2015
- Phase II results 1H:2016
- License transaction

sNN0029 in ALS

- Initiated in Jan. 2015
- Results from Phase II safety and exploratory efficacy study at higher dose 2016

sNN0031 in PD

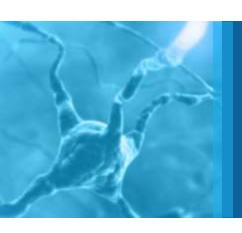
- Initiated in Jan. 2015
- Results from Phase II safety and exploratory efficacy study 2016

Sarizotan in Rett syndrome

- Results from Phase II pilot efficacy study Q1: 2016
- Start of Phase II/III potentially pivotal study Q4: 2015





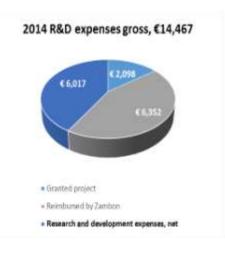


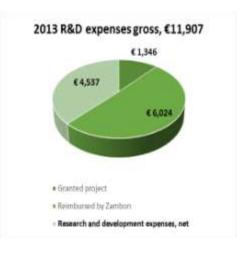
Group Consolidated Financials 2014 (IFRS)

Financial Highlights 2014 – Income statement

- License income EUR1.3m (2013: EUR3.2m) milestone received from Zambon SpA upon filing of a the NDA for safinamide (May 2014) and down-payment under Zambon 2012 license/collaboration agreement (final tranche)
- Income tax is a consequence of Hunter Fleming HF0220 write-off

€/000	2014	2013
Licence income	1,300	3,213
Other income	257	326
Research and development expenses	(6,017)	(4,537)
Marketing and advertising expenses	(53)	(15)
General and administrative expenses	(6,702)	(6,763)
Operating loss	(11,215)	(7,776)
Financial result net	492	63
Income tax	628	615
Net loss	(10,095)	(7,098)
Loss per share	(0.80)	(0.62)

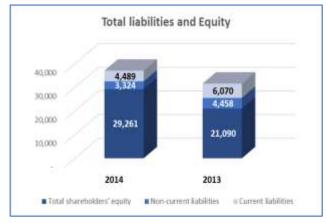






Financial Highlights 2014 Balance Sheet and Cash flow statements





- Total funds available: €27,7m
 - Cash position at year end 2014: €18.8m
 - Available for sale financial asset current: €6.9m
 - Commitments by third parties at Dec 31, 2014: €2.0m
- Cash reach: 2Q 2016, beyond key value inflexion points

	2014	2013
Net cash (used in) operating activities	(9,998)	(10,686)
Net cash flows from/(used in) investing activities	(6,860)	226
Net cash flows from/(used in) financing activities	17,188	(357)
Net increase/(decrease) in cash and cash equivalents	330	(10,817)



Financial Snapshot

Shares Outstanding 13,092,850

Market Cap

456.9 Million CHF

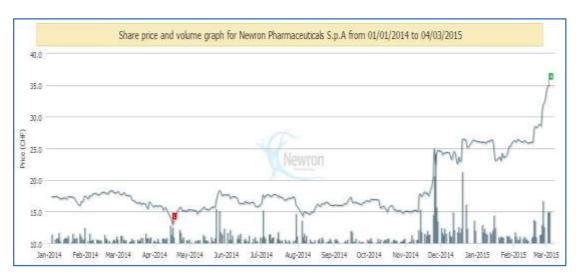
476.1 Million USD

52-week

High: 34.90 CHF (\$36.37)

Low: 12.65 CHF (\$13.33)

Liquidity of Stock 67,500/day average trading volume





Main shareholders and analysts

Shareholder	%
Investor AB	12,72%
Zambon	11,34%
Aviva	7,98%
JP Morgan	4,67%
Omega	2,58%
Abingworth	1,67%
TVM	1,46%
Polar	1,06%
SWISSCANTO	0,99%
Trowe	0,75%
GWEISS	0,57%
Deka	0,49%
TAVAU	0,38%

Analyst Coverage

- Bruno Bulic, Bank Vontobel AG
- Bob Pooler, Valuation Lab
- Samir Devani, Rx Securities
- Philippa Gardner, Edison Investment Research



AGM March 24, 2015

24 March 2015

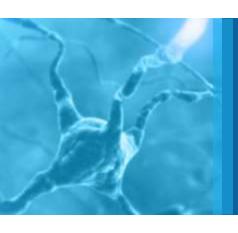


AGENDA

- Approval of the financial statements as at December 31st, 2014
- ➤ Share capital increase for payment, severable, with exclusion of the option right, for maximum nominal Euro 260,850, and therefore, for maximum n. 1,304,250 Newron Pharmaceuticals S.p.A. ordinary shares and, in any event, within the limits of the 10% of the share capital in accordance with article 2441, paragraph fourth, second part, of the Italian Civil Code and with article 6 of Company's By-Laws. Amendment of the article 6 of Company's By-Laws.
- ➤ Share capital increase for payment, severable, with exclusion of the option right, in accordance with article 2441, paragraphs 5 and 8, of the Italian Civil Code, for maximum nominal Euro 80,000, and therefore, for maximum n. 400,000 Newron Pharmaceuticals S.p.A. ordinary shares, nominal value Euro 0.20 each, to serve one or more stock incentive plans.







Q&A



