



Annual media & analyst conference

Zurich March 1, 2016

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2015 – a year to be remembered

- EU approval of Xadago®
- CH approval of Xadago®
- Zambon launch of Xadago® (safinamide) in Germany and (post period) in Switzerland, Spain and Italy
- Xadago® late-cycle review meeting completed with FDA
 - PDUFA date 29 March 2016
- Meiji Seika Pharma: initiation of Phase II/III and Phase III long-term trials with safinamide in Japanese patients
- ODD for the treatment of patients with Rett Syndrome for the EU and the US
- Plan for international double-blind, placebo-controlled efficacy study with sarizotan in patients with Rett Syndrome
- Completion of first in man US Phase I study of NW-3509
- U.S. Phase II study initiation with NW-3509 in patients with schizophrenia
- Completion of EUR28.3m Private Placements with leading EU and U.S. investors









About Newron Pharmaceuticals

- CHF300m 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
 - Launched in key EU markets: Germany, Spain, Italy
 - Swissmedic grants Marketing Authorization Nov. 12, 2015
 - Launched in Switzerland: Jan. 2016
 - Accepted for filing by the FDA March 2, 2015
 - PDUFA date: March 29, 2016
- Material revenues from license agreements
- Moving towards a CNS-specialty, commercial orphan company

Licensing Revenues

- Xadago® (safinamide) for PD
- Development-stage assets
- Phase II asset for schizophrenia

Phase II Orphan Drug Portfolio

- Rett syndrome
- 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
•	amide) ¹ mine agonist early-stag opa mid-to late-stage F				Zambon Meiji Seika
Sarizotan ² Rett syndrome					Yes
NW-3509 ¹ Schizophrenia					Yes
Ralfinamide ¹ Orphan indication	in neuropathic pain				Yes



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

² Sarizotan was licensed from Merck Germany



Valuable Assets with Licensing and Commercial Opportunities

Xadago® (safinamide)

- Marketing Authorizations
 - EU: Feb. 24, 2015
 - Switzerland: Nov. 12, 2015
 - US PDUFA: Mar. 29, 2016
- Material revenue generating licenses with:
 - Zambon
 - Meiji Seika in Japan/ Asia
- Licensed worldwide; U.S. sublicense pending
- Peak sales potential: \$450M+ to \$700M+

NW-3509

- Schizophrenia
- World-wide anti-psychotic market: \$23B
- Phase II initiated Dec. 2015

Sarizotan

- Rett syndrome
- Orphan patient population: 35K-40K in U.S. and EU
 - ODD in US and EU
- Initiate Phase II/III potentially pivotal study in Q2/2016

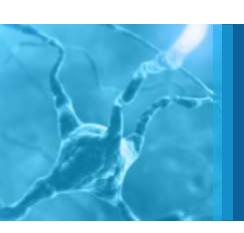
Licensed

Licensing Opportunity

Launch First Orphan Product by 2018







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

Products	Preclinical	Phase I	Phase II	Phase III	Commercial Rights
Safinamide					
Adjunctive to dopa	mine agonist early-stag	je PD			Zambon
Adjunctive to levod	lopa mid-to late-stage F	PD			Meiji Seika

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

Parkinson's

disease affects

7M to 10M

patients worldwide

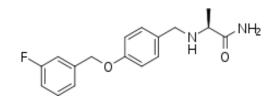
First PD therapy working through dual mechanism



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; 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)





Early PD Patients – add to dopamine agonist

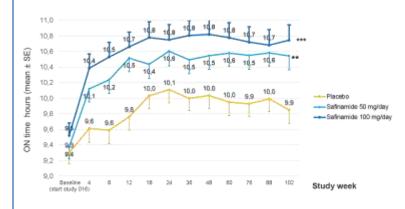
- Significant improvement of
 - UPDRS III motor function, regulatory endpoint (mean change, responder rate)
 - Quality of life (PDQ-39, EQ5D)
- Reduction of number of interventions (first time use of L-dopa)
- Benefits seen after 6 and 18 months
- Delay levodopa

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

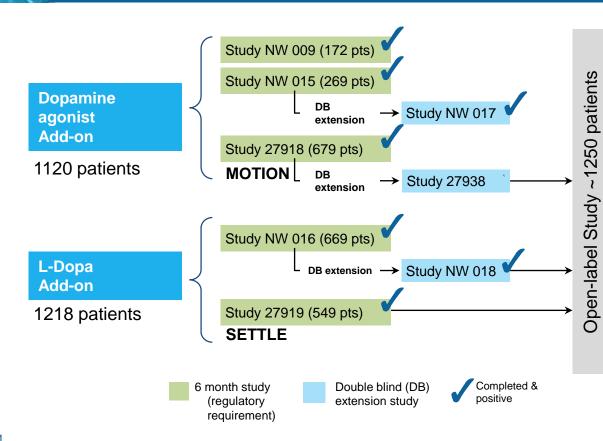
Long-Term Duration of Effect

ON Time (without troublesome dyskinesia) - Change from Baseline





Clinical Trials Support Long-term Patient Benefits







Xadago® (safinamide) – Approved in EU and CH U.S. PDUFA Date March 29, 2016

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
- PDUFA Date: Mar. 29, 2016



EU: Marketing Authorization Feb. 24, 2015 Launches:

D - May 15, 2015

E - Feb. 22, 2016 I - Feb. 29, 2016

Launches further EU territories Q1-2/2016

Switzerland:

Marketing Authorization Nov. 12, 2015 Launch: Jan. 12, 2016

Xadago® (safinamide) – Commercial Opportunity



Milestone and royalty revenues to Newron since 2012

Long lasting market exclusivity (patent life: 2029 in EU, 2030 in the U.S.)







Sarizotan – Targeting respiratory disturbances in Rett syndrome

Products	Preclinical	Phase I	Phase II	Phase III	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

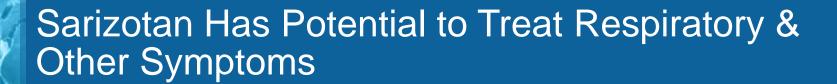
71.5% chance of surviving to age 25 years (vs 99.9%)
60% survival at 37 years (vs. appr. 98%)

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)



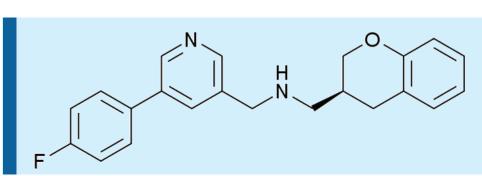


- Aminomethyl chromane derivative; new chemical entity
- Breathing disturbance in Rett syndrome postulated to involve neuronal hyperactivity in the brainstem (Raphe nucleus, Kölliker-Fuse nucleus, Bötzinger complex)
- Dramatic effect demonstrated on respiration in null mutant MeCP2 mouse model of Rett syndrome
- Potential additional benefits in other core features of Rett syndrome

Behavior

Cognition

Neurological deficits



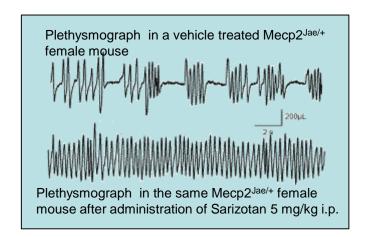




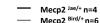
Sarizotan Reduced Respiratory Arrythmia in Pre-Clinical Studies

Effects of single administration of Sarizotan (5 mg/kg ip) in RTT female mice (Mecp2 Jae/+ + Mecp2 Bird/+)

Outcomes definition and units	Mean baseline data in vehicle treated RTT mice	Mean data in sarizotan treated RTT mice	Data from individual mice	Change vs baseline
Apnea Incidence (number apneas per hour)	143 ± 31	20 ± 8	400 - 200 - 100 0	↓ by 86% (p=0.001)
Irregularity score (variance)	0.34 ± 0.07	0.06 ± 0.01	baseline sarizotan	↓ by 82% (p= 0.0001)
Respiratory Frequency (breaths per minute)	153 ± 12	177 ± 10	250 200 150 50 baseline sarizotan	↑ by 16% (p = 0.012)



Incidence of apnea and irregularity were significantly reduced by sarizotan at 20 mins compared to vehicle

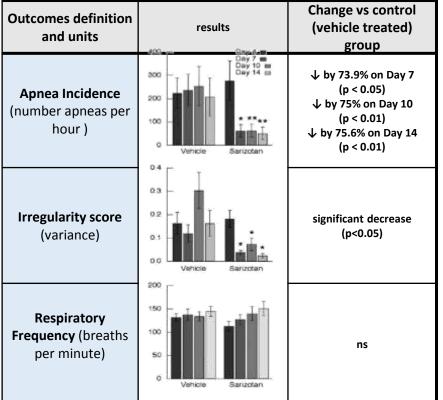






Sarizotan Reduced Respiratory Arrythmia in Pre-Clinical Studies

Effects of 14-day treatment with Sarizotan in RTT female mice (Mecp2R168X/+)



14-day treatment with Sarizotan (13.8 ± 1.9 mg/kg per day) was effective in improving respiration in Mecp2^{R168X/+} female mice

A crossover design was used so that half of the Mecp $2^{R168X/+}$ female mice (n=4) received vehicle (1.25% DMSO + 0.1% saccharin) in their drinking water and half (n=4) received sarizotan (0.0625 mg/ml). At the end of 14 days, the treatment was reversed

30 min monitoring of respiratory pattern with plethysmography performed on the 4th, 7th, 10th and 14th day of vehicle or sarizotan. *p=<0.05, **p=<0.01 vs corresponding day receiving vehicle



Sarizotan has Clear Clinical Development, Regulatory and Commercialization Path

- EU (Germany, Spain, UK) Health Authorities accepted proposed CMC/preclinical/clinical safety data package, agreed to single pivotal study: Q2/2015
- Similar agreements with Canadian (TPD) and US (FDA): Q2-3/2015
- Orphan Drug Designations obtained in EU and US: July 2015
- Interaction with Pediatric Development Committee (EMA) to extend age range to younger patients: Q3/2015
- Advocacy relationships being developed; Rett foundations for potential funding/co-sponsorship of activities
- 'Rare Pediatric Disease' voucher possibility

US 16,000 patients

Orphan exclusivity
7.5 years post
approval

EU 20,000 patients

Orphan exclusivity

12 years post approval

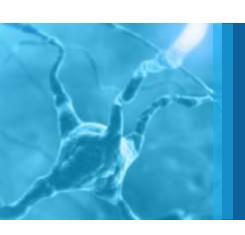


2016 Major Sarizotan Inititiatives

- Launch of first ever Phase 3 pivotal study in Rett syndrome under a US IND
 - Double-blind, randomized placebo-controlled, 28 week, multi-center design in min. 90 patients
 - Primary endpoint: Reduction in number of objectively defined apnea episodes
- Initiation of Global Caregiver Outreach Program
 - In partnership with Rett foundations
 - Collecting and distributing data on impact of respiratory abnormalities:
 - ER visits, hospitalizations, effect on development, lost school days, feeding problems, staring episodes, worsening of cardiac functioning including QTc abnormalities, cost of treatment
- Development of Caregiver Satisfaction Assessment Instrument
 - together with Rett foundations
- Discussions with Pharmacy Benefit Managers/Pricing and re-imbursement representatives of EU needs for Rett treatments
- Establishing Step guidelines for Rett Syndrome with Rett experts







NW-3509 - Schizophrenia

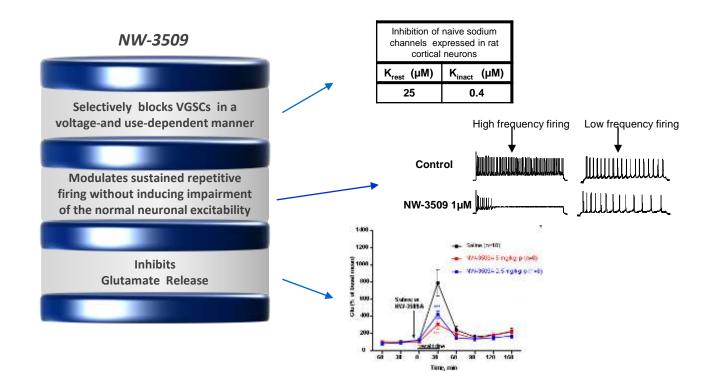
Products	Preclinical	Phase I	Phase II	Phase III	Commercial Rights
NW-3509					
Schizophrenia					

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), negative symptoms, 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 placebo-controlled study started
- Large market opportunity (anti-psychotic market >\$23bn)
- Composition of matter USPTO, 2013 Patent life 2028 plus extension



Unique MOA: selective Voltage-Gated Sodium Channel (VGSC) Blocker





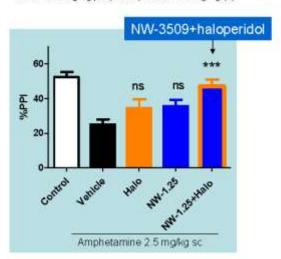


Add-On: Amphetamine-induced PPI Deficit Model

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

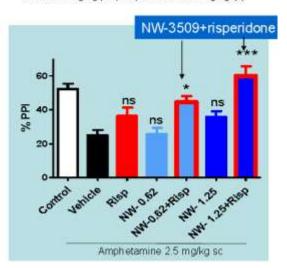
Add-on with non-active dose of haloperidol

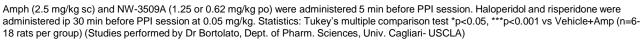
MED 1.25 mg/kg po (+haloperidol 0.05mg/kg p)



Add-on with non-active dose of risperidone

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







Preliminary Validation of a novel treatment concept

Phase II MTD study with NW-3509 as add-on in positive symptoms of schizophrenia

- NW-3509 as add-on treatment to patients with stable and adequate dose of standard therapy, experiencing break-through symptoms
- Double blind, placebo controlled, randomized, 4-week in/outpatient study in 2 US sites in minimally 60 patients receiving NW-3509 15-25 mg/daily (given BID) or placebo
- Selection Criteria:
 - Current diagnosis of schizophrenia in accordance with DSM-5
 - PANSS (Total) < 80; CGI-S rating of mildly, moderately, or moderately severely ill
 - Excludes patients with hallucinatory behavior, excitement, delusions, suspiciousness/persecution and hostility
 - Endpoints: Symptoms of schizophrenia, as assessed by
 - Positive and Negative Syndrome Scale (PANSS),
 - Clinical Global Impression Change from baseline (CGI-C) and CGI Severity of illness (CGI-S)
- Enrollment started: Jan 2016
- Results expected by end 2016



Milestones/News Flow

2 0 1 6 / 2 0 1 7

Safinamide in PD

- Market approval/launch
 - EU next launches: Q1,2/2016
 - US PDUFA date: March 2016Launch Q2/2016
- US sublicense by Zambon: 2016

NW-3509 in Schizophrenia

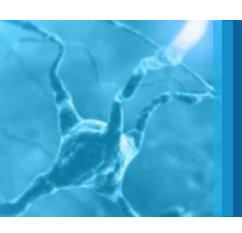
- Phase II results **Q4/2016**
- License transaction

Sarizotan in Rett syndrome

- Phase II/III pot. Pivotal efficacy study initiate: Q1/2016
- Results from Phase II/III pot. pivotal study: 2017
- Commercialization by Newron: 2018





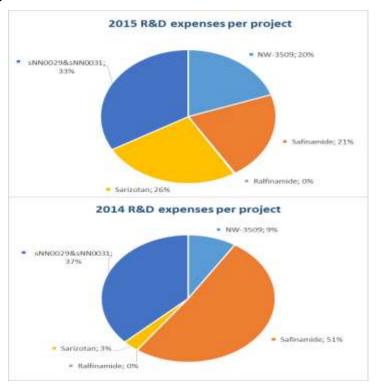


Group Consolidated Financials 2015 (IFRS)

Financial Highlights 2015 – Income statement

- First time ever, Newron P/L shows royalties (German sales from May 15, 2015 on)
- Substantial increase in R&D investments

€/000	2015	2014
Licence income	1,800	1,300
Royalties	475	0
Other income	105	257
Research and development	(40.440)	(0.047)
expenses	(18,449)	(6,017)
Marketing and advertising expenses	(53)	(53)
General and administrative expenses	(8,278)	(6,702)
Operating loss	(24,400)	(11,215)
Financial result, net	(583)	492
Income tax	2,167	628
Net loss	(22,816)	(10,095)
Loss per share	(1.66)	(0.80)







	2015	2014
Net cash used in operating activities	(12,862)	(9,998)
Net cash flows from/(used in) investing activities	2,085	(6,860)
Net cash flows from/(used in) financing activities	28,032	17,188
Net increase/(decrease) in cash and cash equivalents	17,255	330

	2015	2014
Non-current assets	406	7,686
Current assets	43,974	29,388
Total shareholders' equity	37,112	29,261
Non-current liabilities	755	3,324
Current liabilities	6,513	4,489

- Cash used in operating activities below 2015 losses
- Total funds available: €41m (beyond key value inflexion points)
- Current assets increased because of capital increases (newly issued shares and options' exercise)



AGM/EGM March 22, 2016

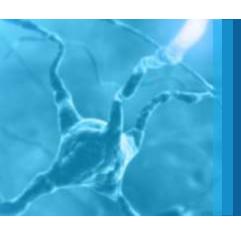


AGENDA

- Approval of the balance sheet as at 31 December 2015
- Appointment of the statutory auditors for the three year time 2016-2018
- Appointment of the auditing company for the period 2016-2018
- Share capital increase pursuant to article 2443 of the Civil Code, in one or more time, severally (in via scindibile), even with the exclusion of the option right pursuant to article 2441, parts 4, first section, 5, 6 and/or 8 of the Civil Code, provided that in the whole the increases in the share capital can be executed for a maximum par value not higher than Euro 711.177,20 and therefore for a maximum of n. 3.555.886 ordinary shares
- Share capital increase pursuant to article 2420-ter of the Civil Code, to issue convertible bonds in one or more time, severally (*in via scindibile*), even with the exclusion of the option right pursuant to article 2441, part 5 and 6 of the Civil Code, provided that in the whole the increases in the share capital can be executed for a maximum par value not higher than Euro 711.177,20 and therefore for a maximum of n. 3.555.886 ordinary shares
- Increase in the share capital, severally (*in via scindibile*), for payment, with the exclusion of the option right, within the limit of 10% of the share capital pursuant to article 2441, part 4, second section, of the Civil Code, provided that in the whole the increases in the share capital can be executed for a maximum par value not higher than Euro 711.177,20 and therefore for a maximum of n. 3.555.886 ordinary shares
- Subject to approval and execution, even partial, of resolutions under points 4, 5 and 6 above, revocation:
 - of the resolution adopted on 27 March 2014, drafted by Notary Public Filippo Zabban of Milan, rep. 66.143/11.351 granting to the Board of Directors, pursuant to article 2443 of the Civil Code, the power, within 27 March 2019, to increase the share capital for payment, severally (in via scindibile), in one or more time, up to a maximum par value of Euro 375,844.00 and therefore up to maximum no. 1,879,220 Newron Pharmaceuticals S.p.A. ordinary shares having the same characteristics of the already issued ones, with exclusion of the option right pursuant to Article 2441, part 5, of the Civil Code:
 - of the resolution adopted on 2 April 2010, minuted by Notary Public Stefano Rampolla of Milan, rep. 34893/8887, upon the several (in via scindibile) share capital increase in option up to a maximum par value of Euro 375,844.00 through the issuance of maximum no. 1,879,220 ordinary Newron Pharmaceuticals S.p.A. shares







Q&A



