

Zurich, March 2, 2017



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2016 - Year of fundamental progress



Xadago[®] (safinamide):

Launch by Zambon for patients with Parkinson's disease in 10 additional European territories U.S. FDA

- Re-submitted NDA for Xadago® is complete, class 2 response to CRL
- PDUFA date March 21, 2017
 Segirus and Zambon partner for Xadago® in AUS/NZ

Evenamide (NW-3509):

Phase IIa study design presentation at 5th Biennial Schizophrenia International Research Society Conference Encouraging preliminary results of Phase IIa study

Detailed Phase IIa study results: 16th ICOSR. March 24–28

Sarizotan:

IND approval for Sarizotan for treatment of Rett syndrome by FDA STARS trial design presentation at U.S. Rett Syndrome Symposium Initiation of

- international burden of disease study in Rett syndrome
- STARS potentially pivotal study for patients with Rett syndrome

Corporate:

CHF 26.8 million private placement and exercise of 2015 option Dennis Dionne appointed Vice President Commercial Affairs



Investment Highlights



- 1. Diversified Portfolio of Innovative CNS Product Candidates
- 2. Xadago® Commercialized in 11 Countries with Clear Path to US Registration
- 3. Sarizotan for Rett Syndrome in Late Stage Development
- 4. Evenamide a Novel Mechanism to Address Schizophrenia
- 5. Multiple Catalysts on the Horizon
- 6. Management Team with Proven Track Record



Successful Track Record in CNS Product Development

NOVEL CNS PRODUCT CANDIDATES

Xadago®

...(safinamide) commercialized in 11 European markets for Parkinson's disease (PD); in late stage regulatory approval for US market



Newron receives milestone and royalty payments from sales of safinamide in PD

Sarizotan

Developing Sarizotan for Rett syndrome, an orphan disease, in a potentially pivotal trial ongoing



Opportunity to commercialize Sarizotan for Rett syndrome directly

Evenamide

...(NW-3509) Phase IIa trial results met study objectives of good tolerability, safety, and preliminary evidence of efficacy



Ready for Phase IIb / out-licensing for schizophrenia

... INNOVATION in rare diseases



Innovative Clinical Pipeline with Multiple Near Term Catalysts

PRODUCTS Commercial Rights Phase I Phase II Phase III Market Adjunctive therapy in PD Zambon Xadago® Adjunctive therapy in PD **US WorldMeds** (safinamide)1 Meiji Seika Adjunctive therapy in PD Schizophrenia Newron Rett syndrome Sarizotan² Newron (Orphan drug status) Orphan indication in Ralfinamide1 Newron neuropathic pain

>> Expected Milestones

Xadago®:



further EU launches expected; PDUFA date: March 21, 2017



Evenamide:

Full Phase IIa results in March 2017; ready for Phase IIb / out - licensing



Sarizotan:

potentially pivotal study commenced July 2016; results HY1 2018: commercialization 2019



Ongoing search for strategically relevant assets to in-license

- 1 Safinamide, NW-3509 and Ralfinamide all developed from Newron's ion channel based research
- 2 Sarizotan was licensed from Merck KGaA



Newron Leadership Team



- 30 years of experience
- Previously worked at: Lohmann Group, Girindus and Biofrontera



- >30 years of experience
- Previously worked at: Roche (CH), Sandoz (US), Novartis and Organon (NL)



- 20 years of experience
- Previously worked at: Coopers & Lybrand and PricewaterhouseCoopers



- >35 years of experience
- Previously worked at: Schwarz Pharma and Schering-Plough



- >26 years of experience
- Previously worked at: Novartis and Johnson & Johnson

NON-Executive Chairman of the Board of Directors

ULRICH KÖSTLIN:

Former Executive at Bayer Schering Pharma AG



STEPHEN GRAHAM

Executive Director, Clinical Development

- 30 years of experience
- Previously worked at: Boots Pharmaceuticals, Sandoz/ Novartis and Forest Laboratories/ Forest Research Institute



Xadago®: 1st New Chemical Entity Approved in US or Europe in a Decade for Parkinson's Disease



A progressing disorder, no cure available yet

- PD 2nd most common chronic progressive neurodegenerative disorder in the elderly
- Affecting 1-2% of individuals aged ≥ 65 years worldwide



First PD therapy working through dual mechanism

TIENTS — Xadago™ 100 mg Filmtabletten Safinamid Zum Eronhren 30 Fantabletten Zennbon

EARLY PD PATIENTS – add-on 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
- Benefits seen after 6 and 18 months
- Delay levodopa

MID- TO LATE-STAGE PD PATIENTS – add-on 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

Sources:

Parkinson's Disease – Global Drug Forecast and Market Analysis – Event-Driven Update -GlobalData, June 2015 Parkinson's Disease Foundation: Statistics on Parkinson's

Treatment of Advanced Parkinson's Disease, Varanese et al., 2010, NCBI



Xadago® (Safinamide) Approved and Launched in Europe for the Treatment of Parkinson's Disease



EU MARKETING AUTHORIZATION (RECEIVED FEBRUARY 2015)

- 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)
- Well tolerated
- No drug interactions; no age, gender or race restrictions
- No dietary restrictions
- No requirement for laboratory tests, ECG, or any other examination





ANTICIPATED PATH TO US APPROVAL

- FDA agrees no additional evaluation of abuse liability or dependence / withdrawal effects in humans is required
- NDA re-submitted Sept 2016:
 Class II re-submission 6 month review
- FDA set PDUFA date: March 21, 2017



Significant Commercial Opportunity in Safinamide (Xadago®)

US Worldmeds:

Re-submitted to US FDA in September 2016; PDUFA date: March 21, 2017 Launched in Germany, UK, Italy, Spain and other EU territories, plus Switzerland

Meiji
Confirmatory Phase II/III and long-term Phase III studies initiated



Milestone and royalty revenues to Newron since 2012

Long period of market exclusivity (patent life: 2029 in EU, 2031 in the US)

Peak sales potential \$450m - \$700m+ (analyst estimates)

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





Rett Syndrome: Severe Neuro-developmental Orphan Disease with No Specific Treatment Options

- 95-97% of patients have spontaneous mutations in the X-linked MeCP2 gene
- Disease manifests almost exclusively in females with one affected X-chromosome
- Normal development until 6-18 months of age, then loss of skills and ability for social interaction
- Respiratory abnormalities, motor and severe intellectual impairment, sleep abnormalities and seizures in most patients (70-90%)
- 25% of sudden deaths in RTT linked to cardiorespiratory abnormalities
- Focus on symptom management
- Estimated 36,000 patients in US and EU combined





Sarizotan: Targeting Respiratory Disturbances in Rett Syndrome Patients

- First RTT drug candidate targeting respiratory disturbances as primary efficacy outcome
- Deficits in serotonergic transmission due to the MeCP2 mutation in the mid-brain nucleus underlie the respiratory abnormalities in MeCP2 deficit mice
- Sarizotan, a full agonist at the serotonergic 5HT1A receptor, has demonstrated dramatic improvement of respiration in genetic (MeCP2) mouse model of RTT
- Development path/regulatory requirements for approval agreed upon with FDA/EMA/HPB; clear commercialization strategy
- Orphan drug designation in EU and US
- Potentially pivotal STARS study initiated July 2016

EFFECTS OF <u>14-DAY</u> TREATMENT WITH SARIZOTAN IN RTT FEMALE MICE (MECP2^{R168X/+})

Apnea in MeCP2deficient mice



Apnea in MeCP2deficient mice treated with Sarizotan 5.0 mg/kg





STARS: First International Phase III Potentially Pivotal Study in RTT



- Randomized, double blind, placebo-controlled, 6 months' treatment study under US IND
- Will enroll minimally 129 RTT patients, 13 years or older who experience at least 10 apnea episodes of >10 sec/ hour as verified by a validated device over at least 3 hours of recording time while patient is awake and at home
- Primary endpoint: percent reduction in number of objectively defined clinically significant (>10 sec) apnea episodes over an extended period of time
- Centres of excellence in the United States, Italy and India
- Study protocol designed in accordance with regulatory authorities in the United States,
 Europe and Canada
- Study enrolling
- Expected completion HY1/2018



Sarizotan Market Opportunity Commercialization by Newron

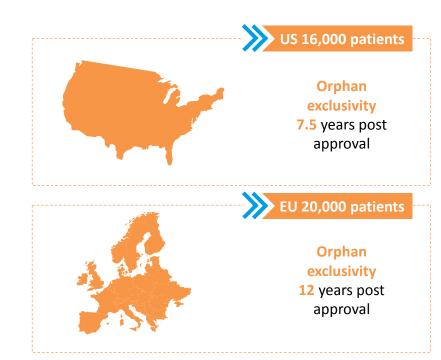
Initiation of a Health Economic Outcome Research Study (HEOR) → "burden of illness"

- Fostering partnership and collaborations with Rett advocacy, thought leaders & governing payers
- Global survey to quantify the ways in which patient "respiratory breathing abnormalities" affect daily life
- Meets Health Technology Assessment (HTA) requirements, including European Network of countries requiring information for treatment access

Goals

- Identify gaps & unmet need for improving disease management
- Align economic & clinical outcomes
- Create awareness to breathing abnormality burden
- Optimize market uptake, access, reimbursement
- Build Newron leadership

Rare pediatric disease voucher possibility





RettSyndrome.org Foundation

National Institute of Health – NINDS

US Census Bureau, 2012

No Effective Treatment that Reduces Burden of Schizophrenia in Last 20 Years

- Onset of disease occurs in early adulthood affecting 1% of the population worldwide
 - Need for life-long treatment
- Disease characterized by either positive or negative symptoms or both:
 - Hallucinations, delusions, paranoia and disorganized speech (positive)
 - Progressive deterioration of cognition and behavior
 & presence of negative symptoms
 - High rates of suicide, multiple physical illnesses and lower life expectancy

- Efficacy of current treatment options insufficient
 - Typicals (e.g. haloperidol) worsen negative symptoms and cause neurological side effects
 - Efficacy limited and wanes over 18 months; 60-70% of patients switch but without additional benefit
 - No effect on suicidality

VAST MARKET OPPORTUNITY

(anti-psychotics market >\$23bn)

Source: FiercePharma, 2011



Evenamide (NW-3509): Novel MOA to Benefit Poorly Responding Schizophrenia Patients

- First-in-class voltage-gated sodium channel (VGSC) blocker for add-on treatment in schizophrenia, schizo-affective and bipolar disorders
 - Small molecule, orally available, rapid onset of action, high availability in the brain
- Unique mechanism of action (MoA):
 - Selectively blocks VGSCs in a voltage- and use-dependent manner – no effect on dopaminergic, serotonergic, histaminergic neurotransmission
 - Modulates sustained repetitive firing without impairment of normal neuronal excitability
 - Reduces stimulated glutamate release
- Benefit shown in models of positive symptoms, aggression, cognition (schizophrenia), negative symptoms, mania, depression, obsessive behavior

- IND approval from FDA as FIRST ADD-ON TO ANTIPSYCHOTICS for patients with positive symptoms schizophrenia
 - Improvement of symptoms in patients no longer responding to current treatments
- Well-tolerated in Phase I study
 - Exposure increased with dose; exposure achieved overlaps with plasma levels in animals at doses proven to be efficacious
- Encouraging preliminary phase IIa data in early 2017:
 - Good tolerability, safety and preliminary evidence of efficacy
- Composition of matter USPTO, 2013 patent life 2028 plus extension



Unique MOA Demonstrated

NW-3509, a selective Voltage-Gated Sodium Channel (VGSC) Blocker

Selectively blocks VGSCs in a voltage-and use-dependent manner

Modulates sustained repetitive firing without inducing impairment of the normal neuronal excitability

Inhibits Glutamate Release

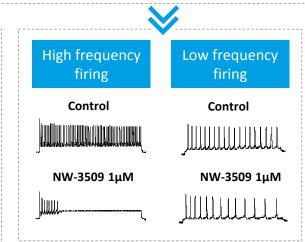


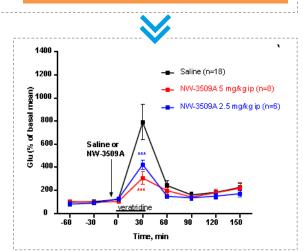
K_{rest} (μΜ)

25

K_{inact} (μM)

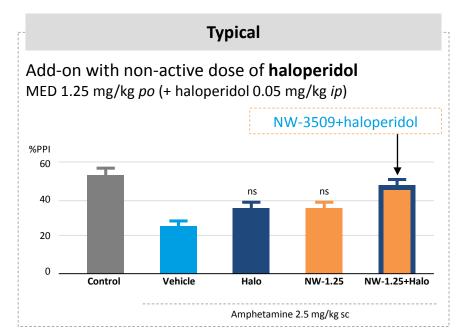
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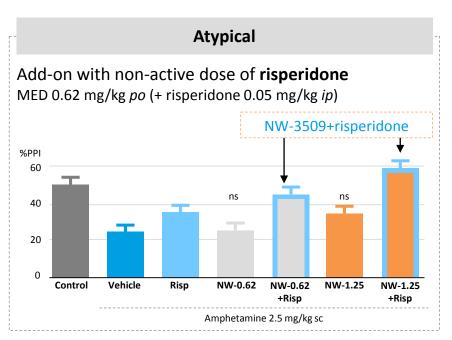






Amphetamine-Induced Prepulse Inhibition (PPI) Deficit Model NW-3509 Augments the Effect of Typical and Atypical Antipsychotics





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)



Phase IIa Study: Preliminary Validation of a Novel Treatment Concept



- Evenamide as add-on treatment in positive symptoms of schizophrenia
 - Patients with stable and adequate dose of standard therapy, experiencing break-through symptoms
- Double-blind, placebo-controlled, randomized,
 4-week in/outpatient study in US and India in 89 patients receiving Evenamide 15-25 mg/twice daily or placebo, in addition to their current antipsychotic
- Endpoints: Symptoms of schizophrenia, as assessed by
 - Positive and Negative Syndrome Scale (PANSS),
 - Strauss-Carpenter Level of Functioning scale,
 - Clinical Global Impression Change from baseline (CGI-C) and CGI - Severity of illness (CGI-S)

- Evenamide met study objectives of good tolerability, safety and showed preliminary evidence of efficacy
 - No side-effects which are associated with dopamine-blocking antipsychotics
 - Consistent pattern of benefit on all efficacy measures assessed
 - Preliminary results warrant further investigation in larger and longer trials
- Detailed results at 16th International Congress on Schizophrenia Research - March 2017
- Ready for Phase IIb / out-licensing



Investment Highlights



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Group Consolidated Financials (IFRS) 2016 – Income statement

€/000	2016	2015
Licence income	3,039	1,800
Royalties	1,698	475
Other income	1,989	105
Research and development expenses	(12,398)	(18,449)
Marketing and advertising expenses	(513)	(53)
General and administrative expenses	(9,140)	(8,278)
Operating loss	(15,325)	(24,400)
Financial result, net	121	(583)
Income tax	(33)	2,167
Net loss	(15,237)	(22,816)
Net loss per share - EUR	(1.04)	(1.66)



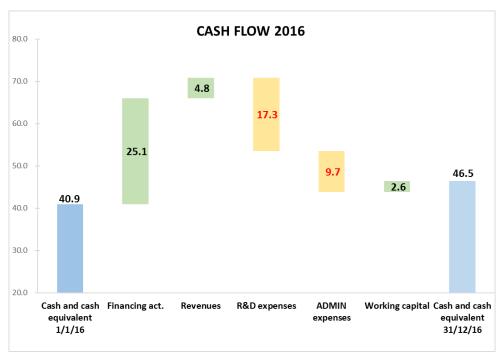
- Royalties are ramping up despite AIFA (Italian authority) imposing a ceiling for 2016 and 2017 sales (currently under negotiation) – in white the 2Q 2016 impact
- Gross R&D expenses are increasing (sarizotan and evenamide clinical studies and related activities)
 - 2016 amount reduced by R&D tax credit income (4.9m€); 2015 amount included 6.7m€ write-off



Group Consolidated Financials (IFRS) 2016 Balance sheet and Cash flow statements

€/000	2016	2015
Non-current assets	451	406
Current assets	9,672	3,043
Cash and cash equivalent	46,468	40,931
Total shareholders' equity	49,747	37,112
Non current liabilities	199	755
Current liabilities	6,645	6,513

- Current assets include 6.9m€ of R&D tax credit
 - ✓ To be offset during the following years with against certain contributions and taxes (also income taxes)
 - ✓ Companies can accrue R&D tax credit on qualifying R&D expenses until 2020





AGM March 28, 2017 – 10.30am CET – Newron's premises



AGENDA

Approval of the financial statements as at December 31st, 2016. Related and consequent resolutions;

Appointment of the Board of Directors for the financial years 2017, 2018 and 2019 and, therefore, until the approval of the financial statements as of December 31st, 2019, as follows:

- Ulrich Köstlin in quality of Chairman of the Board and non-executive director
- Stefan Weber, in quality of executive director
- Patrick Langlois in quality of non-executive director
- Bo Jesper Hansen in quality of non-executive director
- Robert Leslie Holland in quality of non-executive director
- Luca Benatti in quality of non-executive director and,
- Donald deBethizy in quality of non-executive director.

Determination of the remuneration of the Board of Directors. Related and consequent resolutions

Shareholders will be called to express their vote on each individual candidate

Please check Newron's web-site for additional info regarding the shareholders' meeting



Q&A

