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Saniona Investment Highlights

- Expanding pipeline in collaboration with partners Tesofensine targeting market launch in 2024 together with partner, Tesomet (phase 2b), SAN711 (phase 2a) and SAN903 (phase 1) and several pre-clinical assets available for partnering
- Cutting-edge proprietary ion channel drug discovery engine continuous value creation through generation
 of new high potential drug candidates for epilepsy and other CNS indications
- Platform validated by leading pharmaceutical companies SEK +400m received through successful spinouts, partnerships, and licensing agreements with upside potential preserved
- Potential near-term income from partnerships research funding from existing partnerships, potential milestones, royalty income from tesofensine, new partnering opportunities on clinical assets and platform
- Focused epilepsy pipeline addressing indications with significant medical need including SAN711 (phase 2 POC ready) for potential internal development partly financed through partnership income



Successful partnership history – platform validated by several leading pharmaceutical companies

Partnerships and spinouts		Income (SEKm)	Future Upside
2023 AstronauTx	R&D collaboration/license	~4	Milestones + royalties
<u>Cephagenix</u>	Joint Venture	~4	33% ownership
Boehringer Ingelheim	R&D collaboration/license	~20	Milestones + royalties
PROMAGEN	R&D collaboration/license	~20	Regained program
Boehringer Ingelheim	R&D collaboration/license	~111	Regained program
SCANDION ONCOLOGY	Spinout (shareholding sold)	~126	
medix*	License (tesofensine)	~25	Milestones + royalties
THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH	Grants	~8	
Initiator Pharma	Spinout distributed to shareholders		Milestones + royalties
Pfizer	R&D collaboration/license	~16	Regained program
CADENT NOVARTIS	Spinout + R&D collaboration	~53	Earnout + royalties
2012 Janssen	R&D collaboration/license	~17	Regained program
	Total Income (SEKm)	~404	



Expanding pipeline of new drug candidates with solid scientific rationale

Product Candidate	Indication	Research	LOP/CS	Pre- clinical	Phase 1	Phase 2a	Phase 2b	Phase 3	Comment
Tesofensine	Obesity								Potential market launch 2024 – partnership with market leader Medix, representing near-term revenue potential through mid-teens royalties and milestone
Tesomet	HO, PWS								Positioned for partnering following successful phase 2a data (2019)
SAN711	Epilepsy								Positioned for absence seizures following positive phase 1 data (2022). Value-inflection points in 2024/25
SAN903	Fibrotic and inflammatory disorders								Positioned for partnering following successful IND/CTA enabling studies
SAN2219	Epilepsy								Positioned for acute repetitive seizures with multiple expansion opportunities in rare and severe epilepsy
GABA program	Epilepsy								Positioned for rare pediatric epilepsy syndrome with multiple expansion opportunities in rare and severe epilepsy
Kv7 program	Epilepsy								Focal/Generalized Epilepsy Lead optimization
AstronauTx	Alzheimer's								Partnership agreement entitling Saniona to milestone payments of up to USD 177m plus royalties
Boehringer Ingelheim	Schizophrenia								Partnership agreement entitling Saniona to milestone payments of up to EUR 76.5m plus royalties
Cephagenix	Migraine								Joint venture, Saniona owns 33%



Saniona poised for success in epilepsy



Focused epilepsy pipeline addressing indications with significant medical need



Selective ion-channel modulators maximize efficacy and minimize adverse effects



Precision medicines addressing underlying pathology with disease modifying potential



Predictive preclinical models and innovative clinical study design with objective endpoints and on-target biomarkers enhance success rate



Experienced team with deep expertise in CNS and ion-channel drug discovery and development including GABA PAMs and Kv7 activators



Epilepsy – large market driven by new products addressing significant unmet medical need

- >20 approved Anti Seizure Medications (ASM) mostly generics
- Top 10 branded ASM accounted for 80% of sales in 2022¹
- Top branded products and companies expected to change within 5 years¹
- 30% drug resistant >1.5 million patients in 7 Major Markets
- Paediatric Syndromes, often drug resistant to broad spectrum ASM, have devastating life-long consequences for patients and families
- Recently introduced ASMs demonstrate that market remains interesting for products addressing unmet medical needs
 - For adults with generalized/focal onset seizure: Xcopri/Ontozry (SK BIO) and XEN1101 (Xenon) in phase 3 are expected to reach more than USD 1B and USD 750m respectively in 2028
 - For paediatric Orphan Diseases: Epidiolex (Jazz) and Finteplay (UCB) are expected to reach USD 1.2B and USD 800m respectively in 2028

Global Epilepsy Market



50 million

People affected by epilepsy worldwide² >9 million people in the US and EU^{3,4}



30%

Resistant to existing therapies⁵



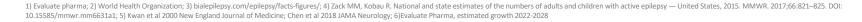
>4%

Annual growth⁶



USD 8 billion market

By 2028⁶





Epilepsy has been subject to several recent deals

Investor	Target	Deal	Year	Transaction size	Comment
LIE	ZOGENIX	Acquisition	2022	USD 1.9 billion	Worldwide rights to fenfluramine (Fintepla®) for the treatment of seizures associated with Dravet syndrome
Jazz Pharmaceuticals.	pharmaceuticals	Acquisition	2021	USD 7.2 billion	Worldwide rights to cannabidiol (Epidiolex®) for the treatment of seizures associated with Lennox-Gastaut Syndrome, Dravet Syndrome and Tuberous Sclerosis Complex
ANGELINI PHARMA	ARVELLE THERAPEUTICS	Acquisition	2021	USD 960 million	EU rights of cenobamate (Ontozry®) for the treatment of drug-resistant focal-onset seizures in adults
Takeda	OV/C THERAPEUTICS	Collaboration	2017	USD 856 million	Total payments of up to USD 856 million incl. USD 196 million upfront and tiered doubledigit Royalties on sales for Soticlestat*



^{*}Soticlestat is a Takeda small molecule in Phase 3 development for Paediatric OD indications – Ovid conducted Phase 2 under a collaboration with Takeda for two orphan diseases (Dravet Syndrome and Lennox-Gastaut)

Subtype selective GABA_A PAMs: maximizing efficacy, minimizing adverse events

GABA_A POSITIVE ALLOSTERIC MODULATORS (PAMs):

- Highly effective anti-epileptics but dose-limited by adverse effects
- Modulates all GABA_A receptors (α 1, α 2, α 3 and α 5) non-selectively
- GABA_A α 1 pharmacology drives major adverse events: sedation, cognitive impairment, abuse liability and tolerance development (reduced effectiveness over time)
- Saniona assets designed to exert highly differentiated pharmacology, specifically tailored to address the unmet needs of specific indications
- Retaining strong seizure control while avoiding the uselimitations associated with non-selective GABA

 A PAMs



Therapeutic effect of "Benzoes"	GABA _A α1	GABA _A α2	GABA _A α3	GABA _A α5
Anti-seizure	++	++	++	
Analgesia		++	++	
Anxiolysis		++	+	
Sedation	++			
Tolerance	++			
Addiction	++	+		
Cognitive impair.	++			+

[&]quot;Benzoes": Benzodiazepines



Saniona GABA_A PAMs: differentiated pharmacology tailored to address unmet need in specific indications

SAN711:

Precision medicine for absence seizures devoid of liability for attentional impairment and birth defects

Therapeutic GABA GABA GABA GABA_△ effect α1 $\alpha 2$ α3 α5 Anti-seizure ++ ++ ++ ++ **Analgesia** ++ **Anxiolysis** ++ Sedation ++ **Tolerance** ++ Addiction ++ Cog. impair ++ **CNS** adverse **Target for** effects

SAN2219:

Strong seizure control devoid of $GABA_A \alpha 1$ use limitations for acute repetitive seizures

GABA _A α1	GABA _A α2	GABA _A α3	GABA _A α5	
++	++	++		
	++	++		
	++	+		
++				
++				
++	+			
++			+	
Target for SAN2219				

AN2668:

Strong seizure control with additional antiseizure efficacy to treat severe pediatric syndrome

1	,				
GABA _A α1	GABA _A α2	GABA _A α3	GABA _A α5		
++	++	++			
	++	++			
	++	+			
++					
++					
++	+				
++			+		
	Target for AN2668				



SAN711

Epilepsy Pipeline

Product Candidate	Indication	Expansion opportunity	Research	LOP/CS	Pre- clinical	Phase 1	Phase 2	Status
SAN711 GABA α3 PAM	Absence seizures	Generalized idiopathic epilepsy						Positive Phase 1 data reported w/ target engagement imaging biomarker
SAN2219 <i>GABA</i> α2/3/5 <i>PAM</i>	On demand repetitive seizures	Refractory Focal onset epilepsy						Ready for Preclinical Development
AN2668 GABA α1/2/3/5 PAM	Rare pediatric DEE- SWAS syndrome	Rare genetically defined loss of function mutations						Ready for Preclinical Development
Kv7 program Kv7.2/Kv7.3	Refractory Focal onset epilepsy	Rare genetically defined seizures						Lead Optimization / Candidate selection

LOP: Lead Optimization Phase

CS: Candidate selection

DEE-SWAS: Developmental Epileptic Encephalopathy with Spike Wave activation during Slow wave sleep



Portfolio of precision medicines for epilepsy indications with significant unmet medical need and potential to be first approved and/or first-in-class therapies

Pipelin	e asset	SAN711	SAN2219	GABA program	Kv7 program	
	Indication	Absence seizures (CAE + JAE)	Acute on demand seizure control (ARS)	Developmental epileptic encephalopathy with Spike Wave activation during sleep (DEE-SWAS)	Treatment refractory focal onset seizures	
	Prevalent population	CAE, US*: 47-80K (add: 16-26K) JAE, US*: 60-90K (add: 40-60K)	> 300K***	2.4-7K (US)*	FOS, US**: 1.8M (add: 600K)	
	Potential Market position	First-in-class Potential to become first-line based on highly differentiated profile	First-in-class Differentiated profile vs. approved Benzodiazepines	First approved treatment Rare pediatric syndrome with high unmet need	Best-in-class Differentiated profile vs. XEN1101	
8	Key therapeutic value proposition	Precision pharmacology targeting the root cause of the disease pathophysiology without attentional impairment and embryofetal risk	Acute on demand remedy devoid of benzodiazepine use limitations incl. restrictions on treatment frequency	Precision pharmacology targeting the root cause of the seizure physiology with potential to prevent neurodevelopmental disabilities. Devoid of high-dose benzodiazepineand steroid use limitations	Precision pharmacology reestablishing neuronal inhibition with limited CNS adverse effects, urinary retention problems and retinal abnormalities	
Keit	Mechanism	$\mbox{GABA}_{\mbox{\tiny A}}$ $\alpha 3$ PAM targeting SWDs to prevent absence seizures	GABA _A $\alpha 2/\alpha 3/\alpha 5$ PAM reestablishing neuronal inhibition to arrest cluster seizures	GABA _A $\alpha 2/\alpha 3/\alpha 5$ PAM targeting SWDs and reestablishing neuronal inhibition in relevant brain circuits	Kv7.2/Kv7.3 activator selectively dampening neuronal hyperexcitability in relevant circuits	





- ABSENCE SEIZURES short episodes of impairment of consciousness caused by aberrant Spike-Wave-Discharges
- First line therapy impairs cognition and carries risk for women of childbearing potential
- Characteristics of Absence seizures¹
 - Cause short period of "blanking out"/staring into space
 - Person suddenly stops all activity
 - Eyes may turn upwards and eyelids flutter
 - Seizures usually last <10 seconds
 - Majority of absence seizures begin during childhood, most commonly from age 4 – 14



Up to 10%Of all childhood epilepsy²



20% Are drug resistant²



40%Continue to have seizures into adulthood²



33% Have cognitive impairment (attention deficits)²

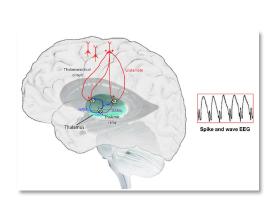




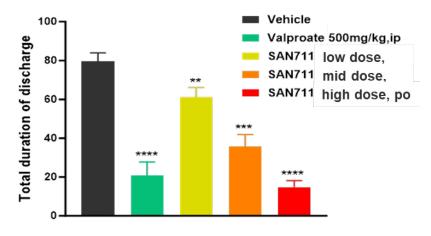
SAN711

Precision medicine by selectively targeting disease pathophysiology Strong effects in a highly predictable rodent model for absence seizures

- Robust effects obtained in two independent studies (academia and CRO)
- SAN711 precision pharmacology prevents absence seizures by abolishing SWDs in specific brain networks
- No detrimental effects on cognition is anticipated
- Specific contribution of GABA_A α 3 in SWD prevention established^{1,2}







n = 11 per co	ndition /	#**/**	*/****	p < 0.0	5/0.0	1/0.0	001	as	compared	d to v	ehic	le
(two way RM	ANOVA,	post ho	c Fishe	rs test)								

Treatment

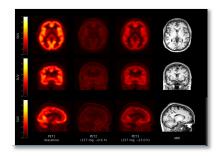
Data averaged between 70 and 190 min after administration and normalized for baseline values.

				3
Therapeutic effect	GABA _A α1	GABA _A α2	GABA _A α3	GABA _A α5
Anti-seizure	++	++	++	
Analgesia		++	++	
Anxiolysis		++	+	
Sedation	++			
Tolerance	++			
Addiction	++	+		
Cog. impair	++			+
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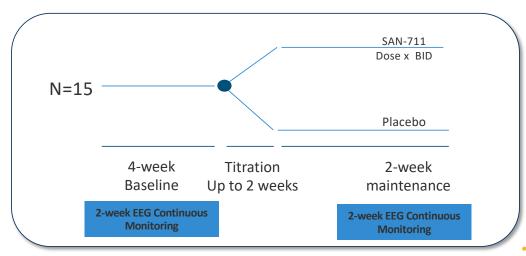
SAN711

Innovative trial design for Proof of Concept Objective Endpoint with Dose Selected based on Target Engagement Biomarker

- PoC- Single Country (BE) multi-centre (Brussels, Leuven, Gent)
 - double-blind, placebo controlled, parallel-group study to assess Effect on EEG and Absence Seizures using a validated device¹
- N=15 patients randomized 2:1
 - Active dose selected based on available PK-RO data (PET Imaging Target Engagement)
 - ~2-week titration + 2-week maintenance period









Saniona Kv7 activators: Unique subtype selective Kv7.2-7.3 activators with potential to be devoid of dose-limiting CNS adverse effects and blue discolorations

AN10255

Kv7 ACTIVATORS:

- Non-selective activators proven effective in treatment refractory focal onset epilepsy (Retigabine, Trobalt®/Ezogabine®)
- Withdrawn in 2017: blue discoloring of skin, retinal abnormalities caused by unstable chemistry, urinary retention, CNS adverse effects
- Saniona's subtype selective assets shows unique differentiated profiles with strong antiseizure control maintained while adverse effect profiles superior to nonselective comparators
- New chemistry avoiding unstable metabolite (blue discolorations)



	Kv7.1	Kv7.2	Kv7.3	Kv7.4	Kv7.5
Regulator of neuronal activity in the brain		++	++		+
Regulator of electrical activity in the heart	++				
Regulator of bladder smooth muscle cell activity				++	+

Unique selective activator of Kv7.2-7.3 subtypes Differentiated pharmacology with strong seizure control and superior adverse effect profile

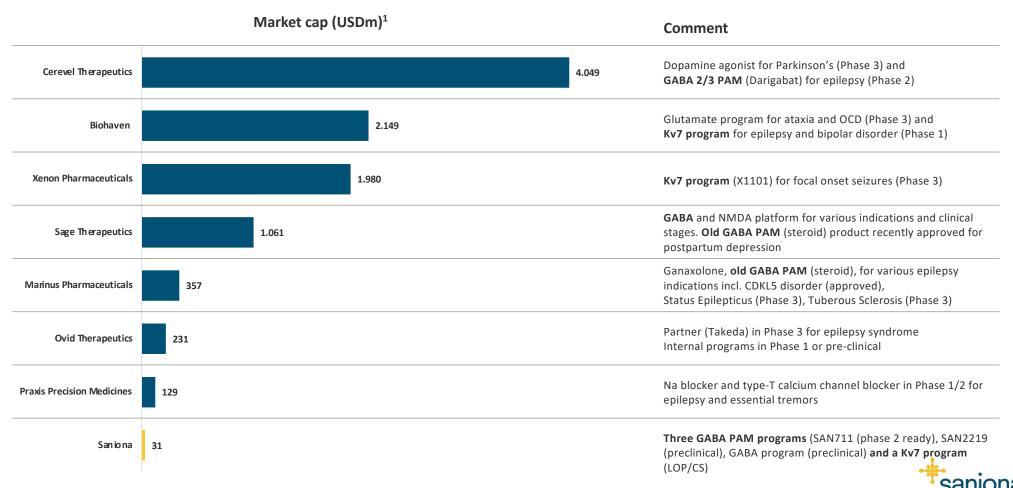
- DRUG REFRACTORY FOCAL ONSET EPILEPSY evades standard antiseizure medication
- 30 % unable to achieve seizure freedom
- Severely increases the disease burden:
 - increased premature mortality, increased morbidity, lower quality of life than controlled epilepsy
- AN10255 unique selectivity profile retaining strong anti-seizure activity while avoiding CNS- urinary retention adverse effects and adverse events caused by metabolic instability (retinal- and skin discoloration)

Rodent model	Seizure type	Activity
6 Hz	Focal seizures	~
MEST test	Generalized Tonic Clonic seizures	✓
Asset	Fold difference between effect and CNS AEs*	
XEN1101	approx. 2-4	*Fold difference in free plasma concentration between efficacious
AN10255	Approx. 25	doses and doses causing CNS adverse effects

	Kv7.1	Kv7.2	Kv7.3	Kv7.4	Kv7.5
Regulator of neuronal activity in the brain		++	++		+
Regulator of electrical activity in the heart	++				
Regulator of bladder smooth muscle cell activity				++	+
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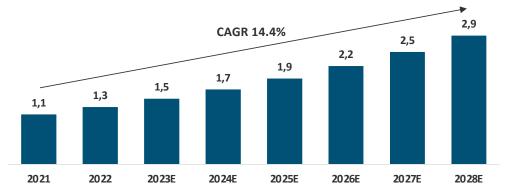
Advancing current epilepsy pipeline – potential to close valuation gap to peers



GABA and Kv7 ion channel compounds expected to outgrow the Epilepsy market

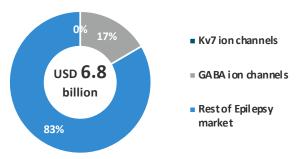
- Saniona's GABA-program and Kv7-program have potential to provide significant value
- Development of GABA and Kv7-program prioritized by Saniona
- Current Kv7-programs highly valued
 - Xenon's Phase 3 Kv7-program XEN1101 NPV of USD 2 billion¹
 - Biohaven's Phase 1 Kv7-program NPV of USD 795 million²

GABA & Kv7 ion channel compounds combined market size³ (USD billion)

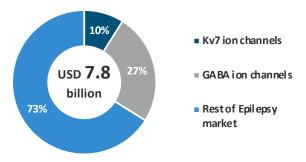


1) Evaluate Pharma, Company | Xenon Pharmaceuticals | Report, 2023-10-17; 2) Evaluate Pharma, Company | Biohaven | Report, 2023-10-17; 3) Evaluate Pharma, Market Value by MoA, 2023-10-17

Epilepsy market 2021



Epilepsy market 2028





Eating disorders candidates - targeting market launch and partnering

- **Tesofensine** targeting market launch 2024
 - Q1 2023 Mexican regulatory authority expressed favorable opinion¹ for treatment of obesity
 - Partnership market leader Medix



- Near-term revenue potential in 2024
- Initially targeting obesity market in Mexico with potential to expand into other territories
 - Mexican obesity market
 - 75% of Mexican people are obese or overweight²
 - → Huge unmet need
 - USD 190m by 2023³
 - 16% CAGR³

- **Tesomet** positioned for partnering following successful phase 2a data (2019)
- Orphan designated drug targeting two rare diseases
 - Hypothalamic obesity (HO)
 - Impacts up to 65,000 people in the US and EU^{4,5,6}
 - Prader-Willi syndrome (PWS)
 - Impacts up to 84,000 people in the US and EU^{7,8}





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