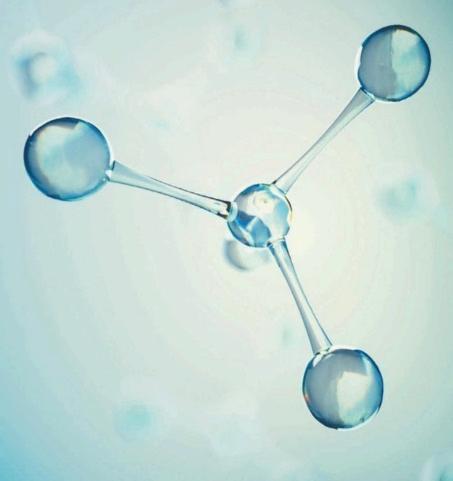
# MODIFIED PHOSPHORAMIDITES



Summit Pharmaceuticals Europe

#### **BUSINESS MODEL AND TRACK RECORDS**

#### COLLABORATIVE ASO DRUG DISCOVERY



And so on...

#### LICENSING OF XNAs TECHNOLOGY



#### OWN DRUG DEVELOPMENT, GO FOR ASSET LICENSE

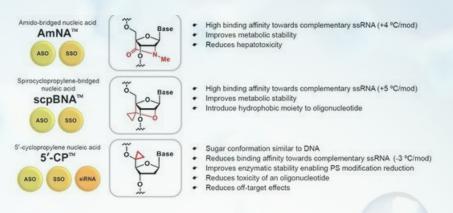
ALS / TRIPLET REPEAT DISEASE SPINAL CORD INJURY OPHTHALMOLOGICAL DISEASE

### **CONTRIBUTION TO YOUR ASO DRUG** DEVELOPMENT

	Licensing of XNAs technology on a gene-by-	gene	basis	
	You have in-house resources for oligonucleotide drug development, but there are issues that you cannot solve on your own	→	Luxna offers XNAs technology out-licensing opportunity, start with an MTA for evaluation or an exclusive technology licensing agreement.	
2.	Collaborative drug discovery			
	You have good candidate antisense but you need better tox and efficacy profile	<b>&gt;</b>	Collaborative research for "Lead Optimization"	
	You have good target gene of genetic disorder or other specific overexpression for treatment	$\Rightarrow$	Collaborative discovery from "Screening"	
3.	In-house drug development -> Asset licensing	ouse drug development -> Asset licensing		
	You are looking for drug candidate	<b>=</b>	Collaborative development or asset licensing of our	

in-house developed pipelines

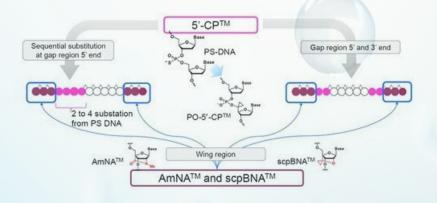
## NEW PHOSPHORAMIDITES FOR OLIGONUCLEOTIDE SYNTHESIS



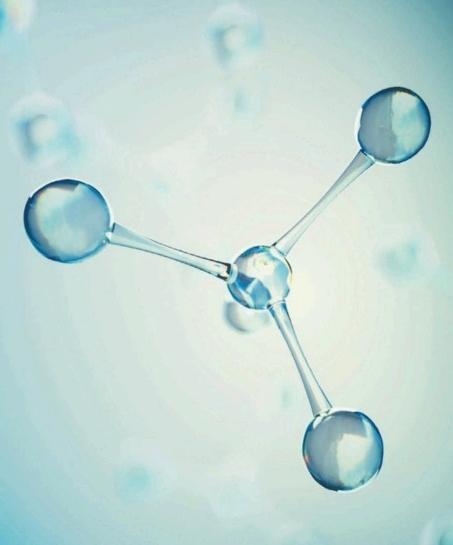
Luxna XNAs are available from its collaboration partner, Summit Pharmaceuticals International Corporation (SPI)



## RECOMMENDED INCORPORATION OF XNAs [GAPMER]



Combined incorporation of Luxna XMAs enables to produce suitable ASO gapmer



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