Needs & wants List (Nucleic acid drugs)

Diseases	Diseases amenable to treatment by nucleic acid drugs
Object	• Targets
	• Concepts
	Technologies that can be used in drug discovery
Targets	Targets amenable to nucleic acid drugs
Concepts	RNAi, exon skipping, aptamers, cleavage by nuclease(Gapmer) and/or new concepts that follow on from
	the foregoing
Related technologies	Technologies to deliver nucleic acid drugs
	➤ Improve pharmacokinetic parameters such as blood retention, tissue specificity/directivity and
	intracellular migration
	Technologies to modify nucleic acid drug
	> Technologies for new modifications and new skeleton of oligonucleic acid (those can improve
	efficacy, toxicity and kinetics)
	> Technology to enable oral administration of nucleic acid
	Technology for expression-enhancing nucleic acids
	> Unpublished targets are desirable

Needs & wants List (Gene therapy)

Diseases	Diseases amenable to treatment by in vivo gene therapy (excluding cancer viral therapy)
Object	• Targets
	• Concepts
	Technologies that can be used in drug discovery
Targets	Targets amenable to gene therapy
Concepts	Gene replenishment for defective genes and/or new concepts that follow on from the foregoing
Related technologies	Technologies related to AAV
	> Tissue/cell-directed modified capsid, technology to carry giant genes, etc.
	Technologies other than AAV
	Viral or non-viral vectors that can be applied to gene therapy
	Technology to regulate expression levels
	Modified promoters, etc.
	having advantages over other technologies are desirable