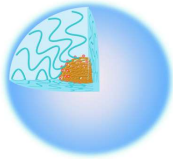
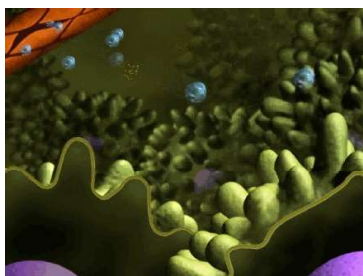


## ■ Micellar Nanoparticles

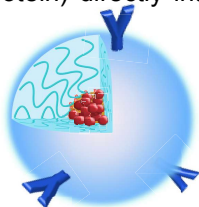


Self-assembled micelle of 20 – 100 nm size consisting of amphiphilic polymers (PEG + polyamino acid)



## ■ Next Generation System

Active targeting:  
Deliver payloads (small molecular weight compounds, nucleic acids, peptides, protein) directly into target cells



The combination of payload in the micelle and sensor on the surface of the micelle enables to develop a new therapeutics for a variety of diseases.

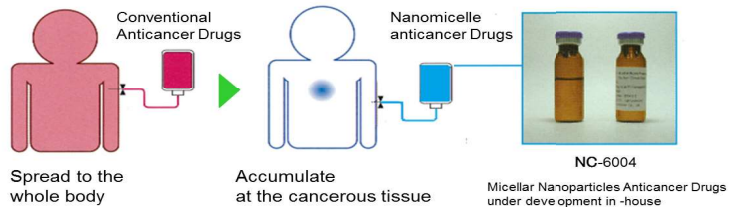
## ■ Health Care

Micellar Nanoparticles + Cosmetic product



eclafutur Depth  
Cosmetic Business

## ■ Merits by NanoCarrier Technology



Disadvantages of conventional anticancer drugs:  
■ Severe side effects  
→ Pre/post medication and Hospitalization are needed\*  
→ Difficult to continue treatment

Advantages of NanoCarrier anticancer drugs:  
■ More effective but less toxic  
→ No hospitalization

\*Hydration or other medication is required before/after the infusion to reduce adverse reactions

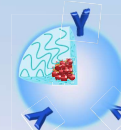
## ■ Pipeline

### ■ Development project

Product	Indication	Stage	Dev. Area	Alliance
NC-6004 Cisplatin Micelle	Pancreatic	Phase III	Japan/Asia	Orient Europharma
	Lung (NSCL) Bladder bile duct	Phase II	USA	
	Head and neck	Phase I	Japan USA ASIA	Orient Europharma
NC-4016 Dach-Platin Micelle	Solid	Phase I	USA	
NC-6300 Epirubicin Micelle	Solid	Phase I	Japan	KOWA
NK105 Paclitaxel Micelle	Breast	Phase III	Japan/Asia	NIPPON KAYAKU
	Gastric	Phase II completed	Japan	

### ■ Research project

Product	Aim of research
Antibody/Drug Conjugated Micelle (ADCM)	Enhance more the selectivity to the target, to further improve the therapeutic window
NanoFect™ (siRNA etc.)	Drug stable and carry to the site of the lesion, to release delivery technology



## ■ Our Challenge in iCONM

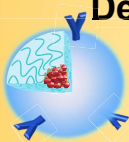
### Project #1

### Nanomachines targeting/eliminating intractable cancer

A next generation of nanomachines will be developed to target intractable cancers, such as brain tumors, metastatic cancers, and cancer stem cells.



### Development of brain delivery technology



Next Generation system : ADCM

+

Optimal sensor for which can efficiently penetrate blood-brain barrier