

## **NANOLAB®**

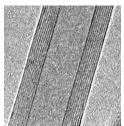
# NanoLab, Inc 55 Chapel Street, Newton, MA 02458 USA

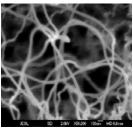
http://www.nano-lab.com

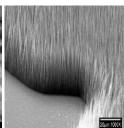
<u>info@nano-lab.com</u> <u>sales@nano-lab.com</u>

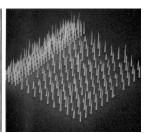
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NanoLab, Inc. products are manufactured in the USA, and distributed world wide.









# Catalog and Price List 2009. 1

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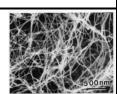


#### **Carbon Nanotubes**

NanoLab offers a wide range of research grade and industrial grade carbon nanotubes. Our nanotubes are designated by their Diameter D, in nm, and Length L range in microns. Please contact us for larger quantity requests.

#### **Single Wall Carbon Nanotubes**

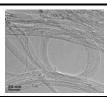
Produced by arc discharge Average diameter: 1-1.5 nm Average length: ~10microns



Catalog No.	Purity (wt%)	Size (gram)	Price (\$)
D1L1-10J	>40	1	225
D1L1-10A	>50	1	1,000
D1L1-10P	>90	1	2,500

#### **Single Wall Carbon Nanotubes**

Produced by CVD methods Average diameter: ~1.5 nm Average length: 1-5 microns



Catalog No.	Purity (wt%)	Size (gram)	Price (\$)
D1.5L1-5-S	>05	1	200
D1.3L1-3-8	793	5	900

#### **Double Wall Carbon Nanotubes**

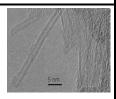
Produced by CVD method

Diameter:4 ±1 nm Length: 1-5 microns or

1. 1-3 illictors o 5-20 microns

5-20 micro





Catalog No.	Length (µm)	Size (gram)	Price (\$)
D4L1-5	1-5	1	350
D4L1-3	1-3	5	1,700
D4I 5 20	5 20	1	320
D4L5-20	5-20	5	1,550

#### Research Grade Multi-wall Carbon Nanotubes Produced by CVD method Purity: > 95% Strict length and diameter control $SSA 200-400 \text{ m}^2/\text{g}$ Catalog No. Size (gram) Price (\$) Hollow structure MWCNT 15 nm in diameter, 1-5 microns long 140 5 650 25 PD15L1-5 2,625 50 4.750 100 7,500 Hollow structure MWCNT 15 nm in diameter, 5-20 microns long 110 5 500 PD15L5-20 25 2,250 4,250 50 100 6.500 Hollow structure MWCNT 30 nm in diameter, 1-5 microns long 140 1 5 650 PD30L1-5 25 2.625 50 4,750 100 7,500 Hollow structure MWCNT 30 nm in diameter, 5-20 microns long 110 5 500 PD30L5-20 25 2,250 50 4,250 100 6,500 Bamboo Structure MWNT 30 nm diameter, 1-5 microns long 150 BPD30L1-5 700 Bamboo Structure MWNT 30 nm in diameter, 5-20 microns long

120

550

1

5

BPD30L5-20



## **COOH** Functionalized Carbon Nanotubes

Produced by CVD method, Purity: > 95% COOH functionalized nanotubes are difficulty to disperse in certain solvents. We recommend you buy COOH functionalized nanotubes in suspensions.

buy COOH functionalized nanotubes in suspensions.				
Supplisions.	Size			
Catalog No.	(gram)	Price (\$)		
COOH functionalized <i>hollow structure</i> MWCNT 15 ± 5 nm in diameter, 1-5 microns long				
15 ± 5 nm m dia		160		
PD15L1-5-COOH	5	750		
COOH functionalize				
PD15L5-20-COOH	1	130		
1D13L3-20-COOII	5	600		
COOH functionalize 30 ± 15 nm in dia				
PD30L1-5-COOH	1	160		
1 D 3 0 E 1 3 C 0 O 11	5	750		
COOH functionalize 30 ± 15 nm in dia				
PD30L5-20-COOH	1	130		
1 D30L3-20-COOII	5	600		
COOH functionalize 30 ± 10 nm diar				
BPD30L1-5-COOH	)L1-5-COOH 1 170			
DI DJULI-J-COOII	5	800		
COOH functionalize				
BPD30L5-20-COOH	1	140		
BrD30L3-20-COOII	5	650		
COOH functionaliz 4 ± 1 nm in dian				
D4L1-5-COOH	1	370		
D IEI 3 COOII	5	1,800		
COOH functionalized <i>double wall</i> nanotubes 4 ± 1 nm in diameter, 5-20 microns long				
D4L5-20-COOH	1	340		
2 120 20 00011	5	1,650		
COOH functionalized single wall nanotubes ~1.5 nm in diameter, 1-5 microns long				
D1.5L1-5-COOH	1	220		
D1.3D1-3-COOH	5	1,000		

## **Amide** Functionalized Carbon Nanotubes

Produced by CVD method, Purity: > 95% Amide functionalized nanotubes are difficulty to disperse in certain solvents. We recommend you buy COOH functionalized nanotubes in suspensions.

suspensions.					
Size					
Catalog No.	(gram)	Price (\$)			
Amide functionalized <i>hollow structure</i> MWCNT 15 ± 5 nm in diameter, 1-5 microns long					
PD15L1-5-NH <sub>2</sub>	1 160				
TD13E1 3 TVII2	5	750			
Amide functionalized 15 ± 5 nm in diam					
PD15L5-20-NH <sub>2</sub>	1	130			
1 D13L3-20-11112	5	600			
Amide functionalized 30 ± 15 nm in diar					
PD30L1-5-NH <sub>2</sub>	1	160			
FD30L1-3-N112	5	750			
Amide functionalized 30 ± 15 nm in dian					
PD30L5-20-NH <sub>2</sub>	1	130			
1 D30L3-20-N11 <sub>2</sub>	5	600			
Amide functionalized 30 ± 10 nm diam					
BPD30L1-5-NH <sub>2</sub>	1 170				
DI D30L1-3-1111 <sub>2</sub>	5	800			
Amide functionalized 30 ± 10 nm in dian					
DDD201.5.20 NH.	1	140			
BPD30L5-20-NH <sub>2</sub>	1 5	140 650			
BPD30L5-20-NH <sub>2</sub> Amide functionalize 4 ± 1 nm in diam	ed <i>double wall</i>	650 nanotubes			
Amide functionalize 4 ± 1 nm in diam	ed <i>double wali</i> neter, 1-5 micr	/ nanotubes ons long			
Amide functionalize 4 ± 1 nm in diam  D4L1-5-NH <sub>2</sub>	ed double walk heter, 1-5 micr 1 5	7 nanotubes ons long 370 1,800			
Amide functionalize 4 ± 1 nm in diam	ed double walk neter, 1-5 micr 1 5 ed double walk	7 nanotubes ons long 370 1,800 7 nanotubes			
Amide functionalize  4 ± 1 nm in diam  D4L1-5-NH <sub>2</sub> Amide functionalize  4 ± 1 nm in diame	ed double walk neter, 1-5 micr  1 5 ed double walk eter, 5-20 micr	7 nanotubes ons long 370 1,800 7 nanotubes			
Amide functionalize 4 ± 1 nm in diam  D4L1-5-NH <sub>2</sub> Amide functionalize	ed double walk neter, 1-5 micr 1 5 ed double walk	7 nanotubes ons long 370 1,800 7 nanotubes rons long			
Amide functionalize  4 ± 1 nm in diam  D4L1-5-NH <sub>2</sub> Amide functionalize  4 ± 1 nm in diame	ed double walk neter, 1-5 micr  1 5 ed double walk eter, 5-20 micr  1 5 ed single walk	7 nanotubes ons long  370 1,800 7 nanotubes rons long  340 1,650 nanotubes			
Amide functionalize $4 \pm 1$ nm in diam $D4L1-5-NH_2$ Amide functionalize $4 \pm 1$ nm in diame $D4L5-20-NH_2$ Amide functionalize	ed double walk neter, 1-5 micr  1 5 ed double walk eter, 5-20 micr  1 5 ed single walk	7 nanotubes ons long 370 1,800 7 nanotubes rons long 340 1,650 nanotubes			



#### Industrial Grade Multi-wall Carbon Nanotubes

Produced by CVD method, up to 10 metric tons per year Diameter: 10-30 nm nominal Length: 5-20 microns nominal

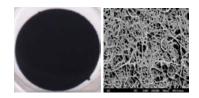
Purity: >85Wt%

Catalog No.	Size (kilogram)	Price (\$)
IG-100g	0.1	800
IG-500g	0.5	3,000
IG-1 kg	1	3,500
IG- 5 kg	5	15,000
IG-10 kg	10	25,000

## **Products Made from Carbon Nanotubes**

## 1. Nanotube Paper – BuckyPaper

BuckyPapers are sheet forms of our carbon nanotubes. BuckyPapers are made from our research grade nanotubes, and can be made from other nanotube types on request. An SEM image of a typical BuckyPaper is shown at below.



Catalog No.	Shape	Size (mm)	Price (\$)
CNP 40	Disc	Diameter40	200
CNP125	Disc	Diameter125	1,000
CNP175X225	rectangle	175x225	1,500

#### 2. Nanotube Monolayer

The monolayer products are made from our research grade MWNT, PD15L1-5 or PD30L1-5. A monolayer of nanotubes is deposited on transparent substrate, such as glass or plastic, so it is compatible with fluorescent microscopy. Other substrates are available upon request,

including silicon and many metals. Below is a price list of monolayer on 25 mm diameter glass substrates without features.

Catalog No.	Qty	<b>Unit Price (\$)</b>
CNT-MNL-D25-Q<10	< 10	\$100 per piece
CNT-MNL-D25-Q>10	> 10	\$90 per piece

#### Features:

We can pattern the monolayers for you, using either our masks or yours. The drawings below are negatives of exemplary patterns. Features larger than  $100~\mu m$  can be patterned in house, smaller features will require custom work. Please call for a quotation.



We can also immobilize various bio-molecules on these carbon nanotubes. Options include DNA, RNA, peptides, antibodies, enzymes, molecular probes, etc.

#### 3. Nink: Printable Nanotube Ink

"Nink" are carbon nanotube inks for direct printing of nanotube electronics and sensors. This ink contains carboxyl (COOH) functionalized carbon nanotubes in an aqueous suspension with the minimum concentration of additives to impart long term stability and printability to the ink.

Multiwall-carbon-nanotube ink cartridge:

Catalog No. Nink-1000-HP45 Price: \$200

Single-wall-carbon-nanotube ink cartridge:

Catalog No. Nink-1100-HP45 Price: \$250



## 4. Nanotube Surfactant-Free Suspensions

We functionalize our research grade carbon nanotubes and suspend them in either water or dimethylformamide (DMF). These suspensions are prepared from our PD15L1-5, or PD30L1-5 products. *Different concentrations, nanotubes or solvents are available upon request.* 

Catalog No.	Concentration (mg/l)	Size (ml)	Price (\$)
		50	100
mwent-diwater	40	100	180
		200	350
bmwcnt-diwater		50	150
	80	100	280
		200	500
mwent-dmf		50	110
	40	100	200
		200	380
		50	160
bmwent-dmf	80	100	300
		200	530

Surfactant-free PECVD carbon nanotube suspensions are also available. Below tables are our standard offer.

Catalog No.	Concentration	Size	Price
	(CNTs / 10ml)	(ml)	(\$)
		5	250
PECVD-diwater	$1x10^{9}$	10	475
	1X10	20	900
		50	2,200
		5	260
PECVD-dmf	$1x10^{9}$	10	495
PEC V D-UIIII	1X10	20	930
		50	2,300
		5	375
PECVD-diwater	4x10 <sup>9</sup>	10	675
r EC v D-uiwatei		20	1,300
		50	3,100
		5	385
PECVD-dmf	$4x10^{9}$	10	695
I EC V D-UIIII	4310	20	1,330
		50	3,200

PECVD Carbon Nanotube Parameter:

PECVD-CNT	1	5	10	15	20
length (microns)					
PECVE diamet	er 30-	30-	100	100-	150-
(nm)	50	50		150	200

## 5. Nanotube-Toughened B<sub>4</sub>C

NanoLab was awarded a Phase II SBIR contract by US Army to develop high toughness boron carbide composites containing carbon nanotubes. NanoLab developed hot pressing and pressure-less sintering protocols for this B<sub>4</sub>C-CNT composite and can now manufacture various shapes using our 50 Ton hot press. Uses include armors and other common uses for B<sub>4</sub>C. *Please contact us regarding this product*.

## NanoSperse Dispersant

## 1. NanoSperse AQ Dispersant

This product is specially formulated for creating **aqueous** dispersions of our multi-walled carbon nanotubes. For every 0.1 gram of our multi-walled carbon nanotubes, we recommend that you use ~4 drops of the dispersant. Ultrasonication is required.

**Catalog No.** Nanosperse AQ **Price:** \$15.00 per 10ml vial



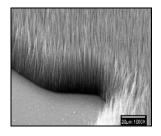
#### 2. NanoSperse AC Dispersant

This product is a specially formulated surfactant for the creation of stable dispersions of carbon nanotubes in **non-aqueous** solvents. It may also be used to make nanotube-based inks, coatings, and screen printing formulations. It has proven effective in making dispersions in acetone, MEK, DMF, and other organic solvents.

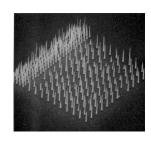
**Catalog No.** Nanosperse AC **Price:** \$15.00 per 10ml vial



## **Vertically Aligned Carbon Nanotube Arrays**



We offer vertically aligned carbon nanotube arrays on many different substrates. SEM image (left) shows the appearance of nanotubes vertically aligned on a substrate. The lists below are our standard offerings. Carbon nanotube site density:  $1\sim2x10^9$ nanotubes/cm<sup>2</sup>.



Please contact us for all other requests: unlisted substrates, complex patterning and low site densities by using micro-scale and nanoscale lithography. Image (right) is an example of patterned nanotube array.

#### Code Explanation:

SM	- SL	X	SW	X	ST	/	L-L

| Range of nanotube length (microns) (1-5, 5-10,10-15, 15-20) allow +/-15% variation on length | Substrate length (L) (mm) x width (W) (mm) x thickness (T) (mm) | Substrate Material: below is a list of substrates.

#### **Substrate Material Codes**

Cu: Copper (#4 polished)

GC: Glassy Carbon GF: Graphite Foil

Mo: Molybdenum (99.95% metal basis)

Pt: Platinum (99.99% metal basis)

SS: Stainless Steel (type 304, #3 finished)

Ti: Titanium (99.95% metal basis)

QZ: Quartz Si: Silicon

#### Copper (#4 polished):

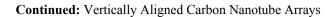
Size 1 Arrays:	Size 2 Arrays:
Price: \$750 per piece	Price: \$1,500 per piece
Catalog No.	Catalog No.
Cu-12.5x12.5x0.9 /1-5	Cu-25x25x0.9 /1-5
Cu-12.5x12.5x0.9 /5-10	Cu-25x25x0.9 /5-10
Cu-12.5x12.5x0.9 /10-15	Cu-25x25x0.9 /10-15
Cu-12.5x12.5x0.9 /15-20	Cu-25x25x0.9 /15-20

#### Glassy Carbon: Substrate Thickness (ST) options: 1.0 mm, 2.0 mm

Size 1 Arrays: Price: \$7	750 per piece	Size 2 Arrays: Price: \$1,50	0 per piece
Catalog No.	Catalog No.	Catalog No.	Catalog No.
GC-5x5x <b>ST</b> /1-5	GC-10x10x ST /1-5	GC-20x20x ST /1-5	GC-25x25x <b>ST</b> /1-5
GC-5x5x <b>ST</b> /5-10	GC-10x10x ST /5-10	GC-20x20x ST /5-10	GC-25x25x <b>ST</b> /5-10
GC-5x5x <b>ST</b> /10-15	GC-10x10x ST /10-15	GC-20x20x ST /10-15	GC-25x25x <b>ST</b> /10-15
GC-5x5x <b>ST</b> /15-20	GC-10x10x ST /15-20	GC-20x20x ST /15-20	GC-25x25x <b>ST</b> /15-20

#### Graphite Foil: Substrate Thickness (ST) options: 0.5 mm, 1.0 mm

Size 1 Arrays: Price \$750	per piece	Size 2 Arrays: Price \$1,500	per piece
Catalog No.	Catalog No.	Catalog No.	Catalog No.
GF-5x5x <b>ST</b> /1-5	GF-10x10x ST /1-5	GF-20x20x ST /1-5	GF-25x25x <b>ST</b> /1-5
GF-5x5x <b>ST</b> /5-10	GF-10x10x ST /5-10	GF-20x20x ST /5-10	GF-25x25x <b>ST</b> /5-10
GF-5x5x <b>ST</b> /10-15	GF-10x10x ST /10-15	GF-20x20x ST /10-15	GF-25x25x <b>ST</b> /10-15
GF-5x5x <b>ST</b> /15-20	GF-10x10x ST /15-20	GF-20x20x ST /15-20	GF-25x25x <b>ST</b> /15-20





## Molybdenum (99.95% metal basis): Substrate Thickness (ST) options: 0.1 mm, 0.25 mm, 0.5 mm, 1.0 mm

Size 1 Arrays: Price \$75	50 per piece	Size 2 Arrays: Price \$1,500	) per piece
Catalog No.	Catalog No.	Catalog No.	Catalog No.
Mo-5x5x <b>ST</b> /1-5	Mo-10x10x <b>ST</b> /1-5	Mo-20x20x ST /1-5	Mo-25x25x <b>ST</b> /1-5
Mo-5x5x <b>ST</b> /5-10	Mo-10x10x <b>ST</b> /5-10	Mo-20x20x ST /5-10	Mo-25x25x <b>ST</b> /5-10
Mo-5x5x <b>ST</b> /10-15	Mo-10x10x <b>ST</b> /10-15	Mo-20x20x ST /10-15	Mo-25x25x ST /10-15
Mo-5x5x <b>ST</b> /15-20	Mo-10x10x ST /15-20	Mo-20x20x ST /15-20	Mo-25x25x ST /15-20

#### Platinum (99.99% metal basis): Substrate Thickness (ST) options: 0.127 mm, 0.25 mm

Size 1 Arrays: Price	\$750 per piece	Size 2 Arrays: Price \$1,5	500 per piece
Catalog No.	Catalog No.	Catalog No.	Catalog No.
Pt-5x5x <b>ST</b> /1-5	Pt-10x10x <b>ST</b> /1-5	Pt-20x20x ST /1-5	Pt-25x25x <b>ST</b> /1-5
Pt-5x5x <b>ST</b> /5-10	Pt-10x10x ST /5-10	Pt-20x20x ST /5-10	Pt-25x25x <b>ST</b> /5-10
Pt-5x5x ST /10-15	Pt-10x10x ST /10-15	Pt-20x20x ST /10-15	Pt-25x25x <b>ST</b> /10-15
Pt-5x5x ST /15-20	Pt-10x10x ST /15-20	Pt-20x20x ST /15-20	Pt-25x25x <b>ST</b> /15-20

#### Stainless Steel (type 304, #3 finished): Substrate Thickness (ST) options: 0.25 mm, 0.5 mm

Size 1 Arrays: Price \$750 per piece		Size 2 Arrays: Price \$1,500 per piece		
Catalog No.	Catalog No.	Catalog No.	Catalog No.	
SS-5x5x <b>ST</b> /1-5	SS-10x10x <b>ST</b> /1-5	SS-20x20x ST /1-5	SS-25x25x <b>ST</b> /1-5	
SS-5x5x <b>ST</b> /5-10	SS-10x10x <b>ST</b> /5-10	SS-20x20x ST /5-10	SS-25x25x <b>ST</b> /5-10	
SS-5x5x <b>ST</b> /10-15	SS-10x10x <b>ST</b> /10-15	SS-20x20x ST /10-15	SS-25x25x <b>ST</b> /10-15	
SS-5x5x ST /15-20	SS-10x10x ST /15-20	SS-20x20x ST /15-20	SS-25x25x <b>ST</b> /15-20	

#### Titanium (99.95% metal basis): Substrate Thickness (ST) options: 0.74 mm, 2.0 mm

Size 1 Arrays: Price \$7	50 per piece	Size 2 Arrays: Price \$1,50	0 per piece
Catalog No.	Catalog No.	Catalog No.	Catalog No.
Ti-5x5x <b>ST</b> /1-5	Ti-10x10x <b>ST</b> /1-5	Ti-20x20x ST /1-5	Ti -25x25x <b>ST</b> /1-5
Ti-5x5x <b>ST</b> /5-10	Ti-10x10x <b>ST</b> /5-10	Ti-20x20x ST /5-10	Ti -25x25x <b>ST</b> /5-10
Ti-5x5x <b>ST</b> /10-15	Ti-10x10x <b>ST</b> /10-15	Ti-20x20x ST /10-15	Ti -25x25x <b>ST</b> /10-15
Ti-5x5x <b>ST</b> /15-20	Ti-10x10x <b>ST</b> /15-20	Ti-20x20x ST /15-20	Ti -25x25x <b>ST</b> /15-20

#### **Ouartz**

Size 1 Arrays:	Size 2 Arrays:
Price: \$750 per piece	Price: \$1,500 per piece
Catalog No.	Catalog No.
QZ-12.7x12.7x1.58 /1-5	QZ-25x25x1.58 /1-5
QZ-12.7x12.7x1.58 /5-10	QZ-25x25x1.58 / 5-10
QZ-12.7x12.7x1.58 /10-15	QZ-25x25x1.58 / 10-15
QZ-12.7x12.7x1.58 /15-20	QZ-25x25x1.58 /15-20

#### **Silicon**

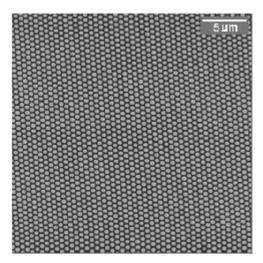
**Silicon** is by far our most popular substrate for aligned arrays. Please tell us your requested size, thickness, orientation, etc. Alternatively you may supply your own wafer for CVD growth.



## **Polystyrene Sphere Arrays**

Our polystyrene sphere arrays are monolayer of mono-disperse polystyrene spheres on various substrates. These highly perfect crystals are useful as sputtering masks, and have optical properties similar to that of opal. We have successfully deposited polystyrene sphere arrays on 3" silicon wafers.

Below is a partial list of substrate materials and polystyrene sphere sizes.



Please add a sphere size to the item number.

Catalog No.	Substrate Material	Sphere Size D (microns)	Price (\$)
Su	bstrate Size; 5mm	x5 mm	
PSA-GL-5x5D	Glass	0.5, 1.0, 2.0	100
PSA-GR-5x5D	Graphite	0.5, 1.0, 2.0	100
PSA-Si-5x5D	Silicon	0.5, 1.0, 2.0	100
PSA-SS-5x5D	Stainless Steel	0.5, 1.0, 2.0	100
Sub	strate Size: 10mm	x 10mm	
PSA-GL-10x10D	Glass	0.5, 1.0, 2.0	200
PSA-GR-10x10D	Graphite	0.5, 1.0, 2.0	200
PSA-Si-10x10D	Silicon	0.5, 1.0, 2.0	200
PSA-SS-10x10D	Stainless Steel	0.5, 1.0, 2.0	200

#### 1. Cobalt Nanoparticles

Highly Monodisperse Cobalt Colloids in Hexane or Toluene have a concentration of 0.01 Molar. Available Cobalt particle sizes include: 8nm, 10nm, or 12nm (Actual size may vary depending on supplies) Sold in 5 ml vial,

Price: \$1000 per vial

Catalog No.	Solvent	Co Size
Co8H	Hexane	8 nm
Co8T	Toluene	8 nm
Co10H	Hexane	10 nm
Co10T	Toluene	10 nm
Co12H	Hexane	12 nm
Co12T	Toluene	12 nm

## 2. Nickel Nanoparticles

Our **nickel** nanoparticles are a 99+% nickel nanopowder with a size range between 50 and 120nm. This material has a specific surface area of  $\sim$ 5 m<sup>2</sup>/g, and is shipped as a dry powder. The Nickel powder can also be formulated as a paste, ink or suspension

Catalog No.	Unit Price	Price /package (\$)
Ni -5g	\$4.0/g	20
Ni -50g	\$2.0/g	100
Ni -250g	\$1.2/g	300
Ni -500g	\$1.1/g	550
Ni -1000g	\$0.95/g	950

## Special Capabilities

NanoLab maintains facilities for the prototyping and production of various nanomaterials, nanocomposites, and nanoscale devices. We team with companies and universities to develop technologies and bring new products to market. Contact David Carnahan, dcarnahan@nanolab.com for partnering information.