The logo for Nervous System is composed of two lines of text. The first line reads "nervous" and the second line reads "system". Both words are rendered in a black, pixelated, geometric font where each letter is constructed from a grid of small triangles and squares, giving it a digital or crystalline appearance. The background of the entire page is a light-colored, textured surface with a pattern of irregular, organic shapes that resemble biological cells or coral structures.

# nervous system

Nervous System is an experimental design studio that uses new technologies to reinterpret natural phenomena.

Instead of designing individual objects, we write computer programs that detail a design process which generates a myriad of designs. Our studio is a place where necklaces aggregate like corals, rings structure themselves like radiolarians, and furniture grows, branches and blooms like plants.

New manufacturing techniques like rapid prototyping allow for the creation of series where each piece is unique and the production of three dimensional forms that would be impossible to make traditionally.

These interdisciplinary experiments borrow from our studies of architecture, biology, math, and computer science to produce works whose beauty and complexity is rooted in a deep understanding of natural systems.

Nervous System is based in Boston, MA and composed of Jessica Rosenkrantz and Jesse Louis-Rosenberg. They met at MIT in 2004 where she studied architecture and biology and he studied math and computer science.

# Cell Cycle

Rings and bracelets in nylon and sterling silver

Inspired by the complex forms of radiolarians, where intricate pattern is integral to structure, these shapes derive from a simulation of spring meshes which form mirrored catenoid surfaces. Surfaces based on catenary curves have long been used by architects like Gaudi to create forms of pure compression. Combining the strategy of the radiolarian with that of a catenary surface makes strong, yet visually delicate volumes with minimal material use.

We created interactive software to morph, twist, and subdivide each design, transforming a simple mesh to a complex patterned structure. The bracelets are composed of a bilayer structure that juxtaposes two patterns while creating a rigid frame.

The final designs are built layer by layer in durable nylon plastic using Selective Laser Sintering, a kind of 3d printing. These forms would be impossible to create by traditional manufacturing methods.

*design generated by software created by Nervous System  
manufacture 3d printed using Selective Laser Sintering in the Netherlands*



Cell  
Cycle  
bracelets

3d printed nylon bangles  
in 8 variations and three  
sizes. Each explores different  
aspects of cellular growth and  
structure.

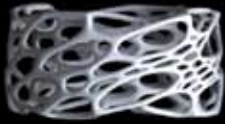
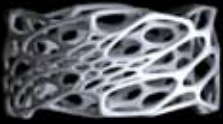
small	7.2in / 18.2cm circumference
medium	7,8in / 20cm circumference, fits most
large	8.5in / 21.5cm circumference

available in white and black

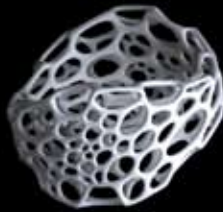
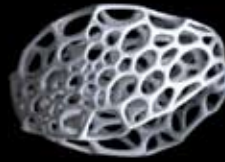
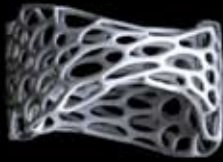


*from the bottom* | cc06 porous, cc07 diagrid, and cc08 morphed

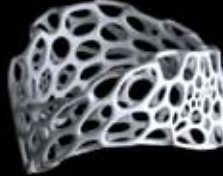
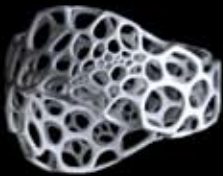




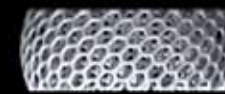
cc01 interstice  
90mm x 42mm



cc02 pinch  
86mm x 51mm



cc03 wave  
83mm x 51mm



cc04 regular  
87mm x 33mm



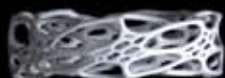
cc05 subdivision  
82mm x 36mm



cc06 porous  
85mm x 27mm



cc07 diagrid  
81mm x 22mm



cc08 morphed  
85mm x 26mm

\$37.50  
wholesale

\$32.50  
wholesale

interstice



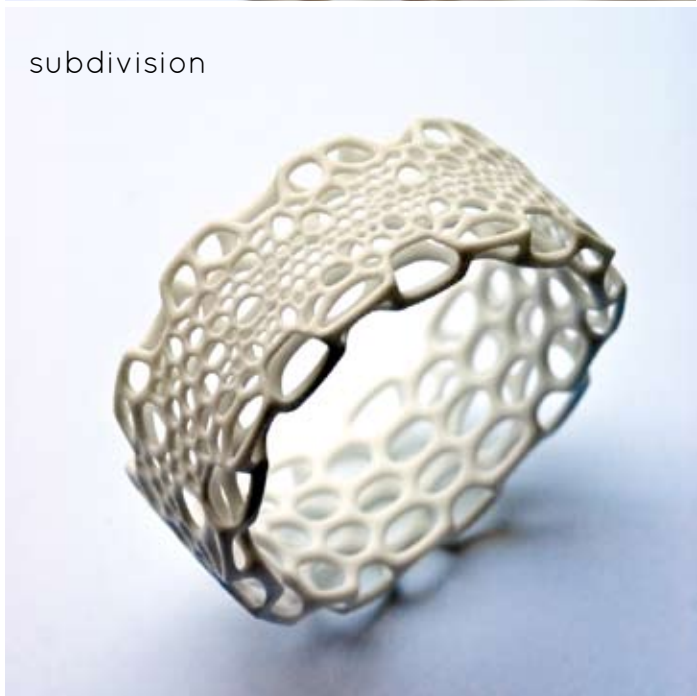
interstice



subdivision



subdivision



wave



pinch





wave



morph



interstice



subdivision



porous



regular



# Cell Cycle rings

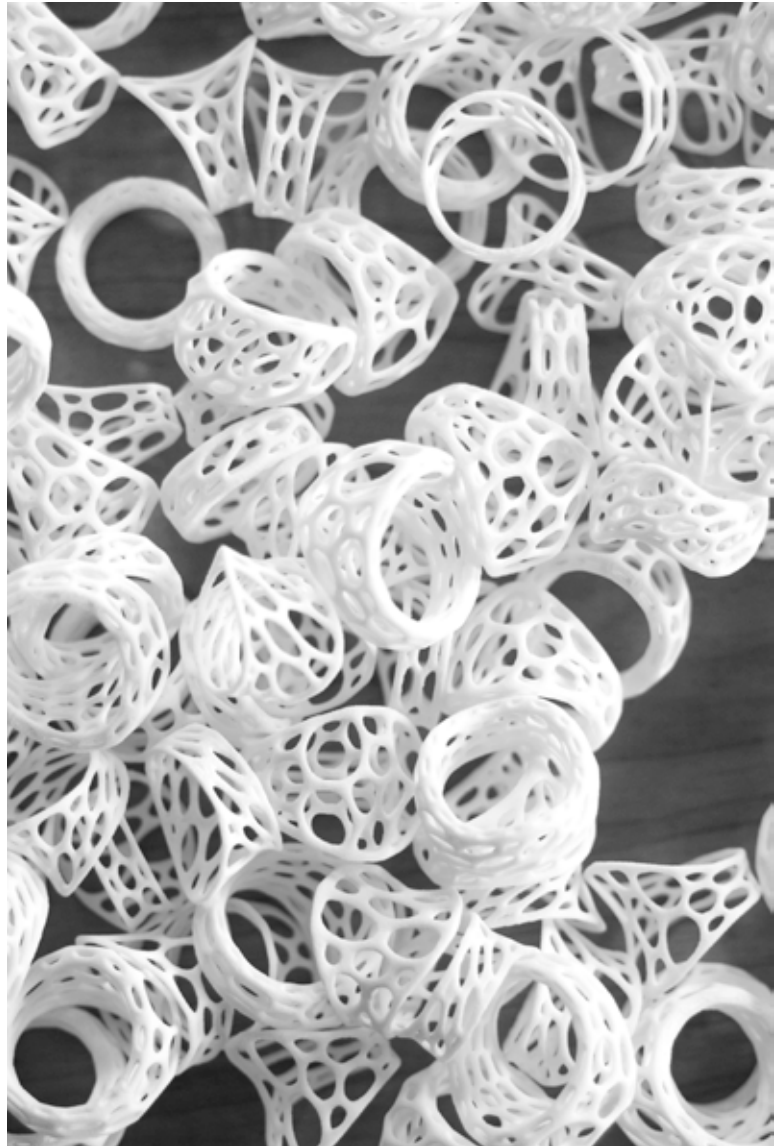
## 2-layer rings

wholesale \$12.50

## 1-layer rings

wholesale \$6.00

available in US ring sizes 5, 6, 7, 8



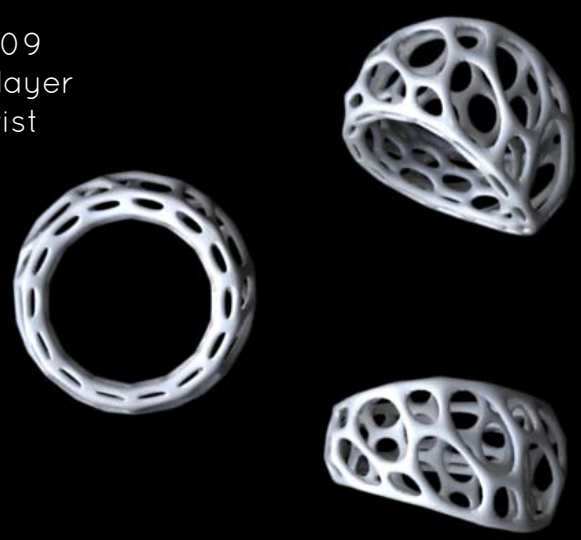
1-layer twist



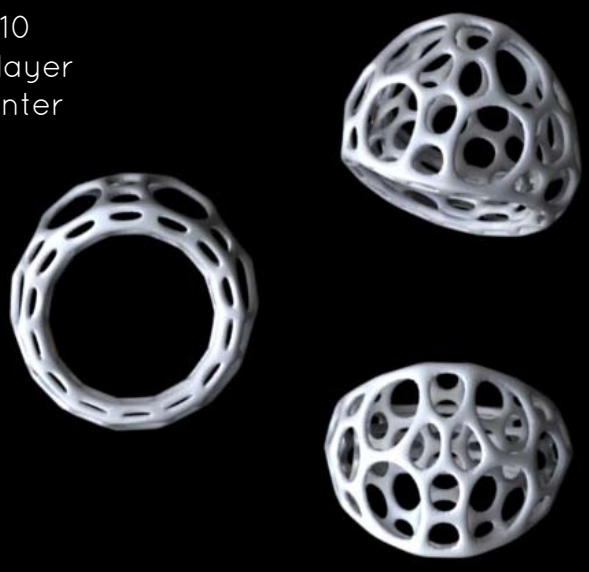


# 2-layer

cc09  
2-layer  
twist



cc10  
2-layer  
center

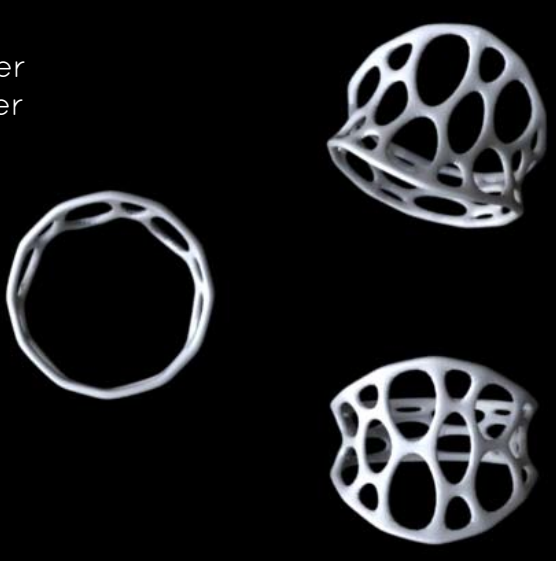


# 1-layer

cc11  
1-layer  
twist



cc12  
1-layer  
center



# 2-layer center





# Cell Cycle silver

## 2-layer rings

wholesale \$110.00  
retail \$220.00

available in US ring sizes 5, 6, 7, 8, 9

## material

sterling silver

available in 14kt gold by request



cc13 wave



cc14 center



cc15 twist



cc16 thin



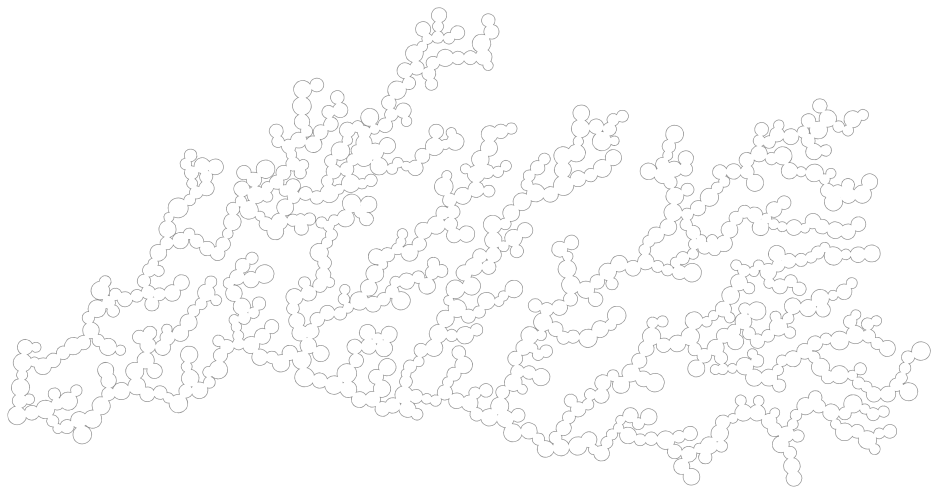
These sterling silver rings are cast from 3d printed waxes.



# dendrite

necklaces, earrings and brooches in stainless steel.

Tiny circles of varying sizes are aggregated into complex configurations. Each necklace in this series is a one of a kind piece. The process we use mimics the growth of corals and other branching forms.

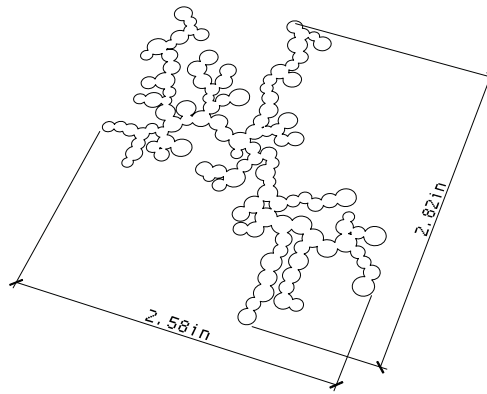


## d01

dendrite  
brooch

unfinished \$25.00

photochemically etched stainless steel.  
sterling silver pivoting mechanism

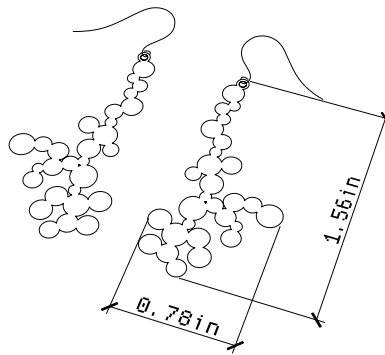


## d02

dendrite I  
earrings

unfinished \$15.00  
gold plated 20.00

photochemically etched stainless steel.  
surgical steel findings

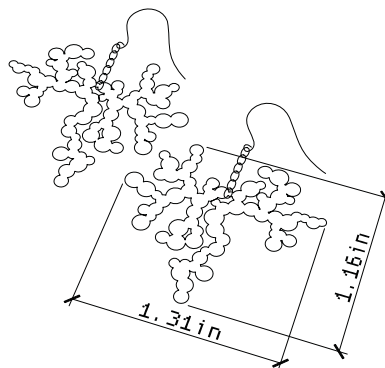


## d03

dendrite II  
earrings

unfinished \$17.50  
gold plated \$22.50

photochemically etched stainless steel  
sterling silver chain + findings





# F1

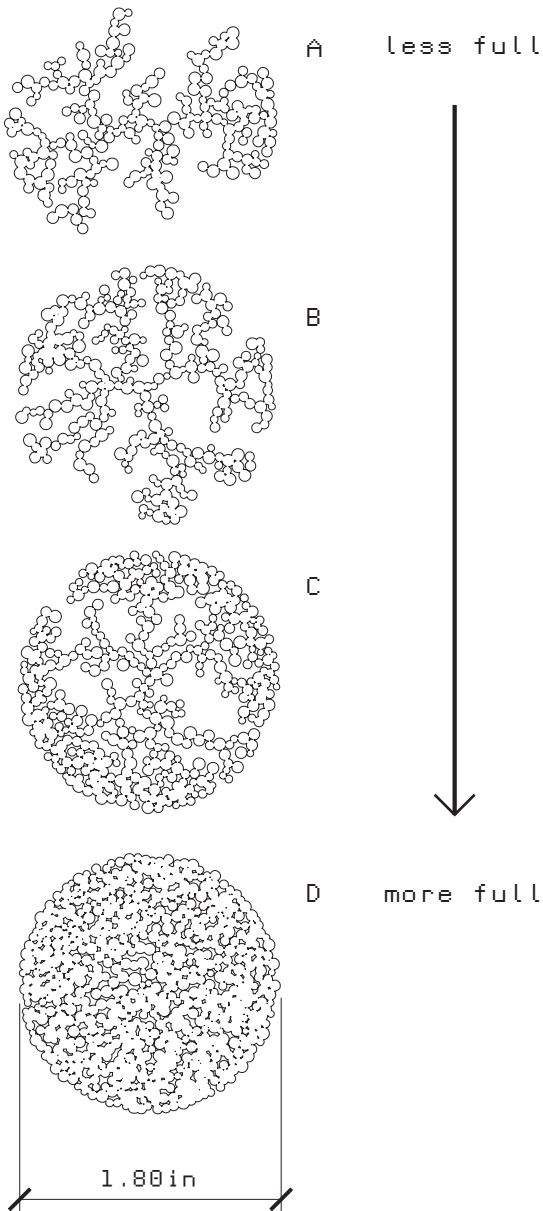
## full moon necklace

unfinished \$30.00  
gold plated \$35.00

stainless steel with 18" sterling  
silver chain



Each piece in this series is a unique pattern, please specify what degree of fullness you would like when ordering





# c1 coral necklace

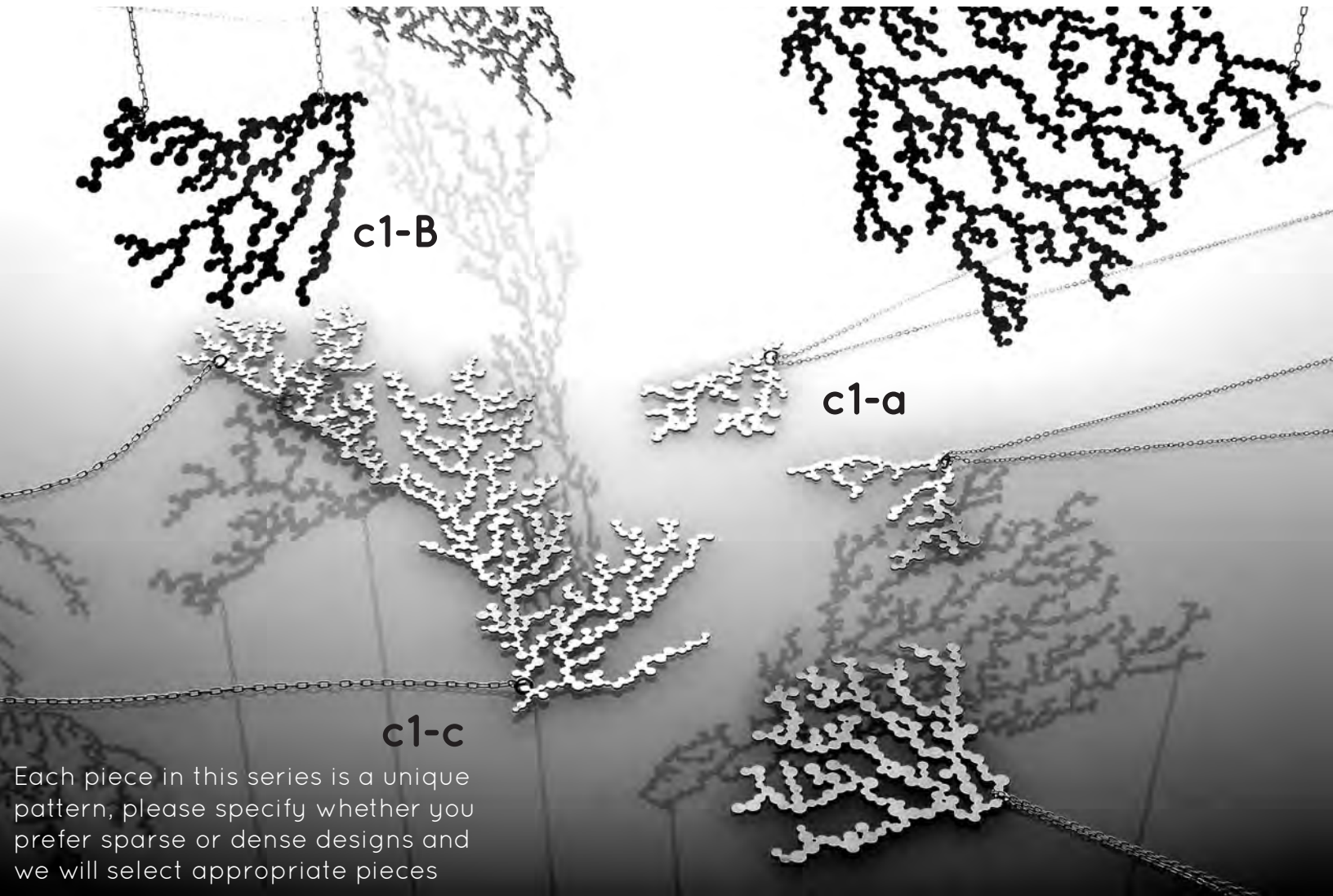
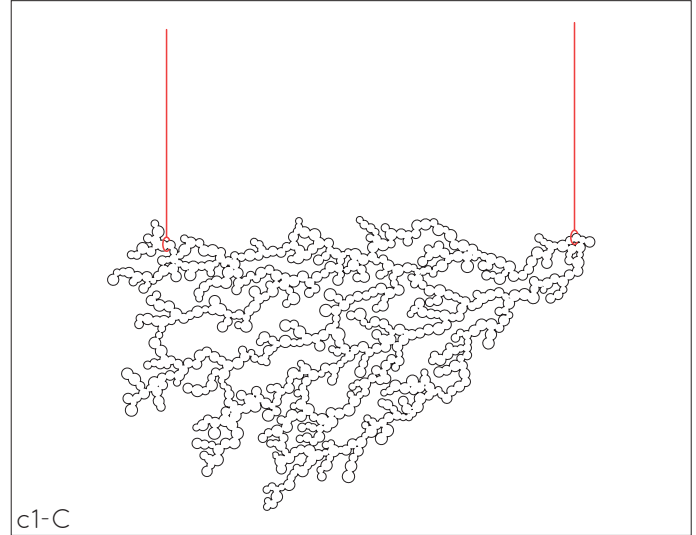
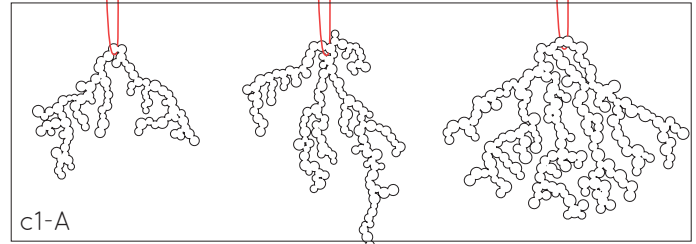
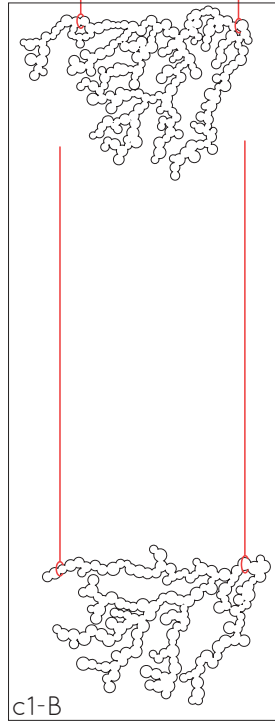
c1-A + c1-B unfinished \$30.00  
c1-A + c1-B gold plated \$35.00  
c1-C unfinished \$45.00

stainless steel with sterling silver 18"  
chain

# c2 coral brooch

c2 unfinished \$30.00  
c2-C unfinished \$45.00

stainless steel with sterling silver  
pivoting mechanism

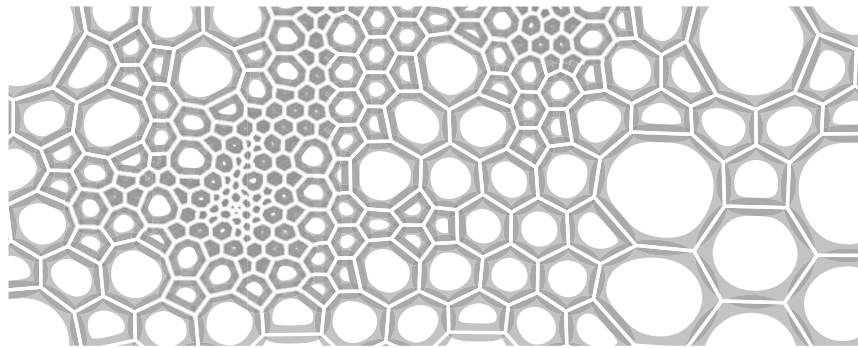


Each piece in this series is a unique pattern, please specify whether you prefer sparse or dense designs and we will select appropriate pieces

# radiolaria

jewelry in stainless steel, silicone rubber, and wool felt

Inspired by the complex forms of radiolarians where intricate pattern is integral to structure., These patterns are derived from the simulation of a hexagonal spring mesh distorted by attractive and repulsive forces.

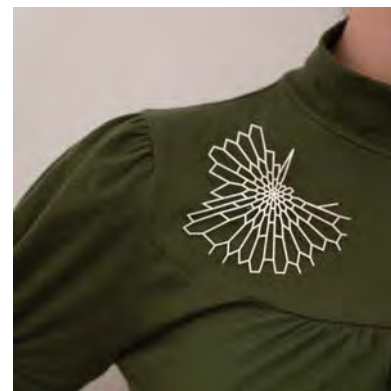
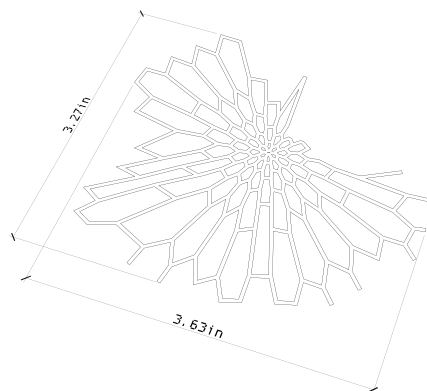


## r01

### radiolaria brooch

unfinished \$37.50

stainless steel with attaches with sterling silver pivoting mechanism

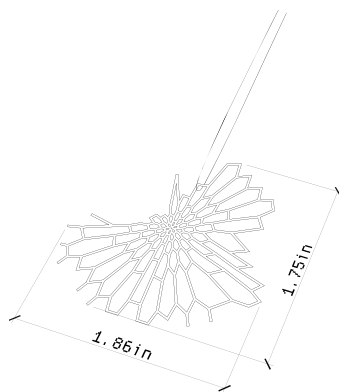


## r02

### radiolaria pendant

unfinished \$20.00  
gold plated \$26.00

stainless steel with 18" sterling silver or gold-filled chain

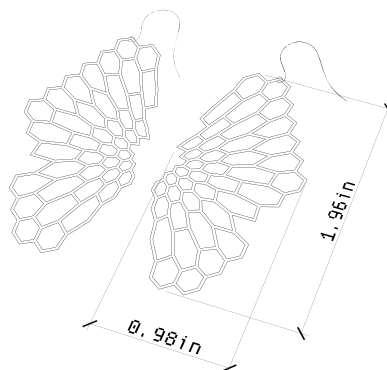


## r03

### radiolaria earrings

unfinished \$20.00  
gold plated \$26.00

stainless steel with surgical steel or gold-filled findings

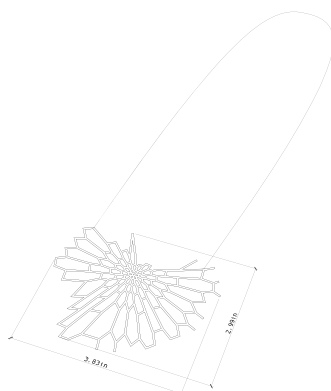


## r04

### large radiolaria pendant

unfinished \$37.50  
gold plated \$47.50

stainless steel with 25" sterling silver or gold-filled chain

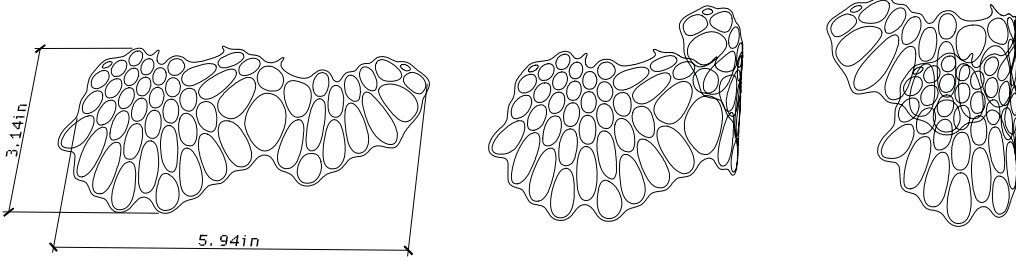


# r05

## radiolaria bracelet

black or white \$27.50

waterjet cut silicone rubber.  
adjustable fit with silk closure

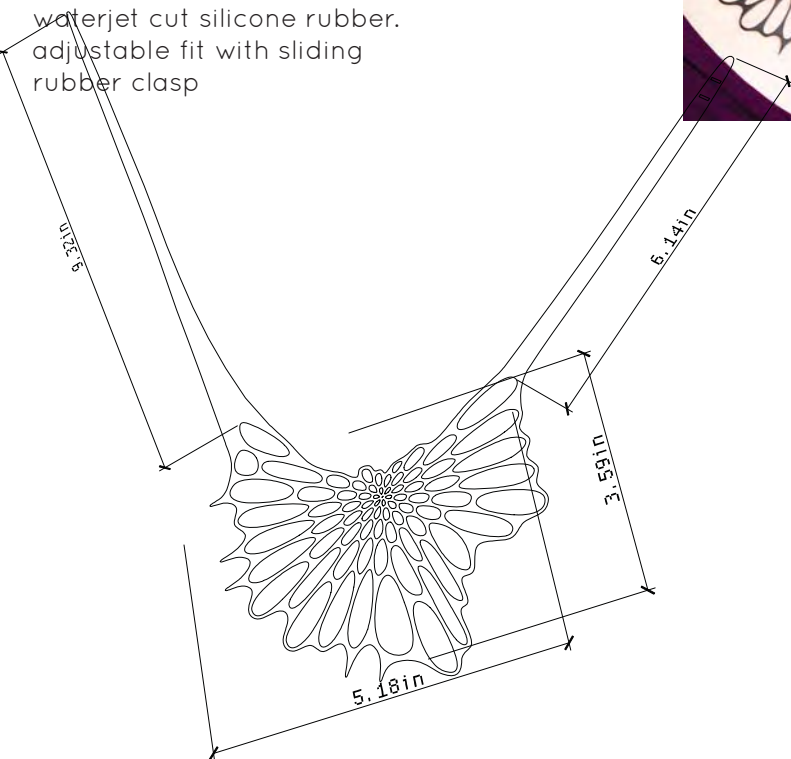


# r06

## radiolaria necklace

black or white \$37.50

waterjet cut silicone rubber.  
adjustable fit with sliding  
rubber clasp



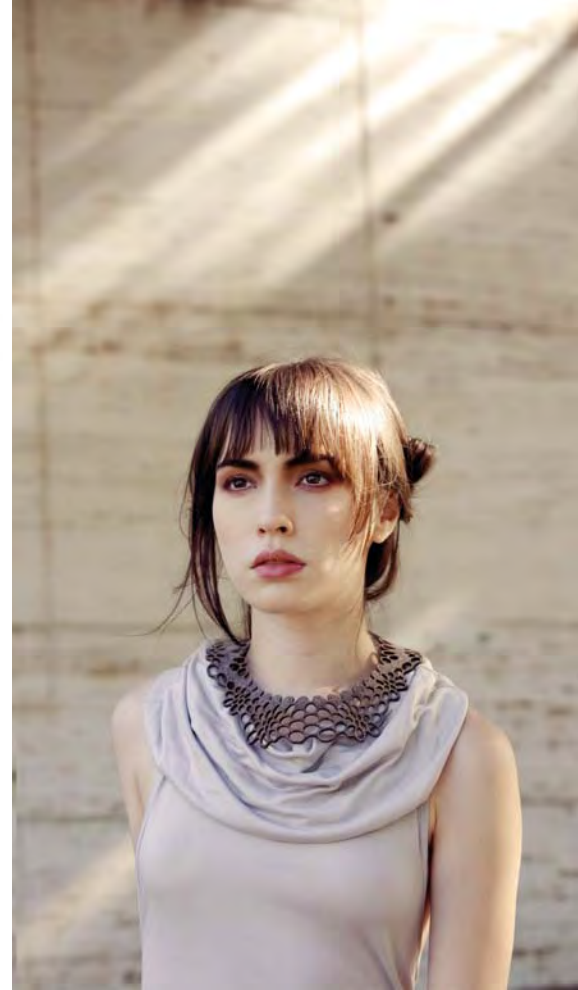
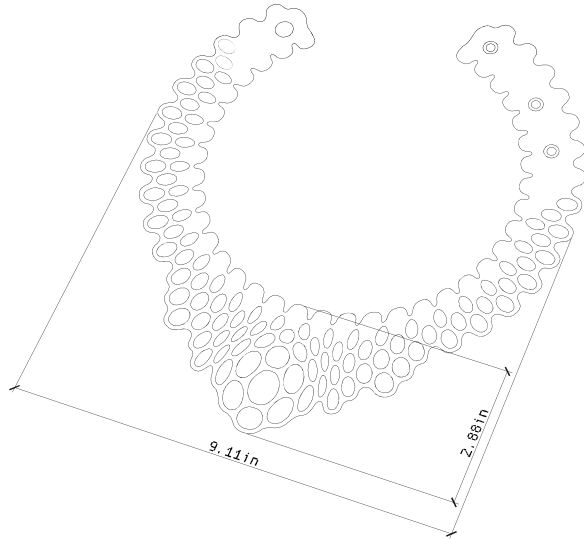


# r07

## radial necklace I

fuschia, orange, black or grey  
\$33.00

laser cut wool felt. snap closure,  
adjustable fit

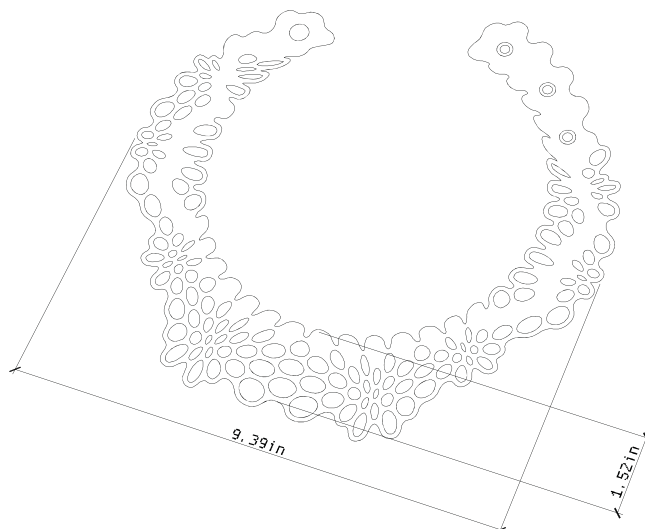


# r08

## radial necklace II

fuschia, orange, black or grey  
\$33.00

laser cut wool felt. snap closure,  
adjustable fit



# a01

## filament necklace

unfinished \$42.50  
gold plated \$52.50

stainless steel with 18" sterling silver or gold-filled chain

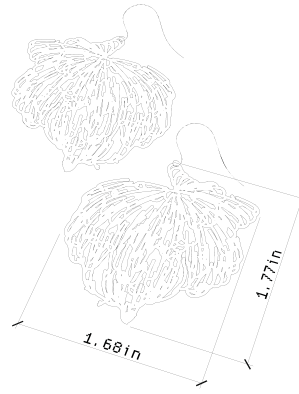


# a02

## undergrowth earrings

unfinished \$25.00  
gold plated \$30.00

stainless steel with surgical steel or gold-filled ear wires

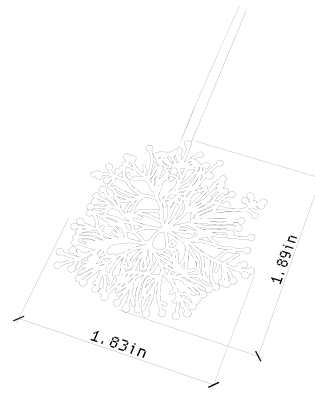


# a04

## algal bloom pendant

unfinished \$20.00  
gold plated \$25.00

stainless steel with 18" sterling silver or gold-filled chain



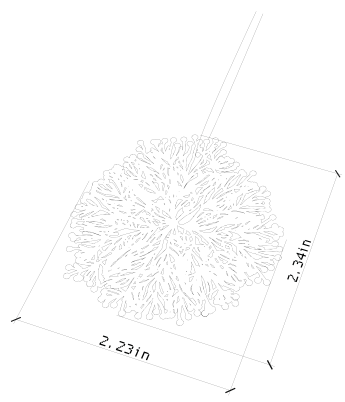


# A05

algal bloom  
pendant large

unfinished \$22.50  
gold plated \$27.50

stainless steel with 18" sterling silver or  
gold-filled chain

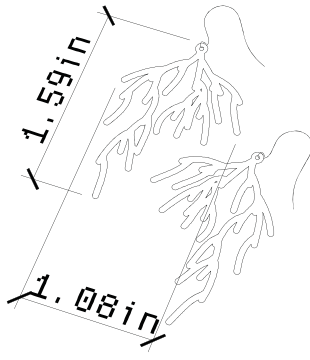


# A07

branch  
earrings

unfinished \$20.00  
gold plated \$25.00

stainless steel with surgical steel or  
gold-filled ear wires

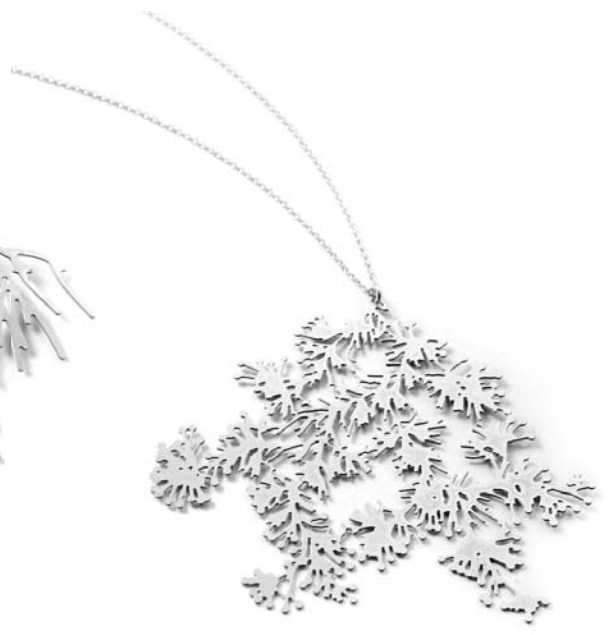
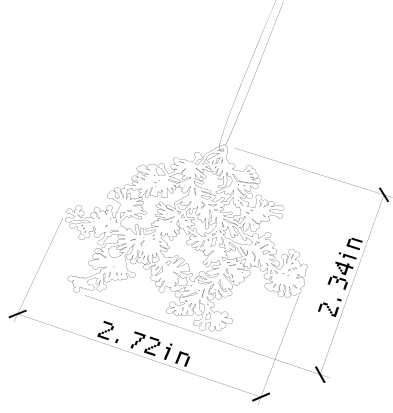


# A08

conifer  
pendant

unfinished \$28.00  
gold plated \$33.00

stainless steel with 18" sterling silver or  
gold-filled chain



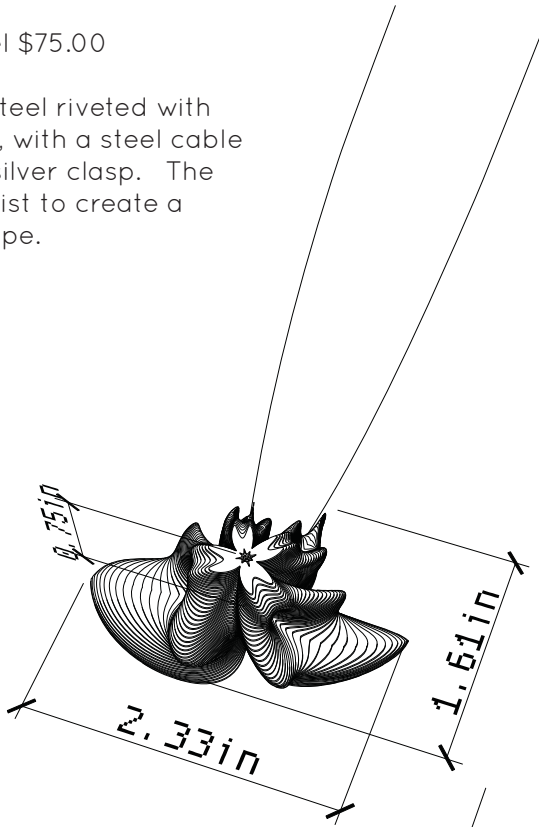


# L01

## orchid necklace

stainless steel \$75.00

52 layers of steel riveted with sterling silver, with a steel cable and sterling silver clasp. The layers can twist to create a morphed shape.

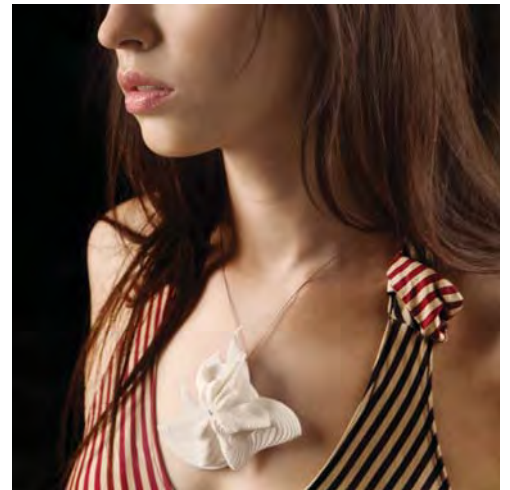
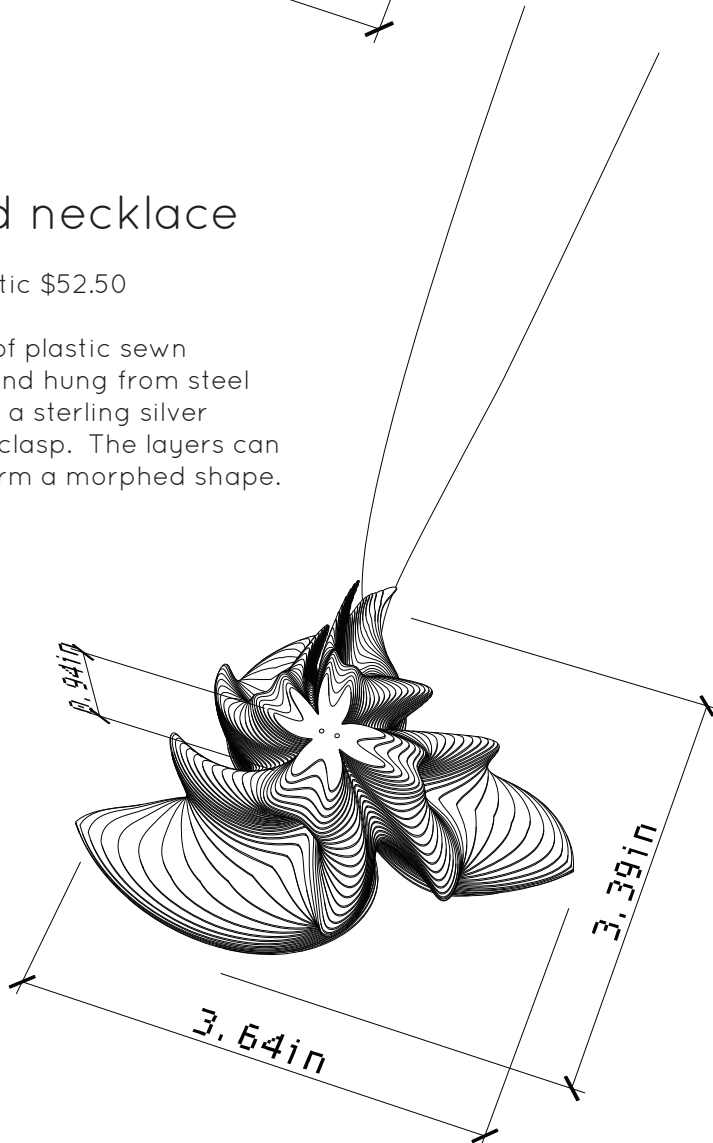


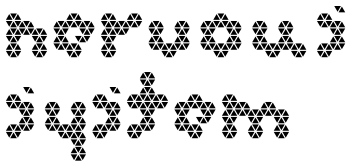
# L02

## orchid necklace

white plastic \$52.50

37 layers of plastic sewn together and hung from steel cable with a sterling silver magnetic clasp. The layers can twist to form a morphed shape.





45 Mansfield St #2  
Somerville, MA 02143

<http://n-e-r-v-o-u-s.com>

contact:  
orders@n-e-r-v-o-u-s.com

Jesse Louis-Rosenberg  
914.466.0727  
Jessica Rosenkrantz  
617.785.0675

Company Name	
Buyer Name	
Shipping Address	
Email	
Phone	
Website	

Cell Cycle Nylon Bracelets		\$		M		L		#	price	subtotal
		white	black	white	black	white	black			
cc01	interstice bracelet								37.50	
cc02	pinch bracelet								37.50	
cc03	wave bracelet								37.50	
cc04	regular bracelet								37.50	
cc05	subdivision bracelet								37.50	
cc06	porous bracelet								32.50	
cc07	diagrid bracelet								32.50	
cc08	morphed bracelet								32.50	

Cell Cycle Nylon Rings		5	6	7	8	#	price	subtotal
cc09	2-layer twist ring						12.50	
cc10	2-layer center ring						12.50	
cc11	1-layer twist ring						6.00	
cc12	1-layer twist ring						6.00	

Cell Cycle Silver Rings		5	6	7	8	9	#	price	subtotal
cc13	wave ring							110.00	
cc14	center ring							110.00	
cc15	twist ring							110.00	
cc16	thin ring							110.00	

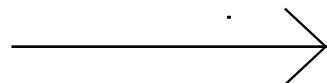
Radiolaria Metal		material		#	price	subtotal
r01	radiolaria brooch	stainless steel			37.50	
r02	radiolaria pendant	stainless steel			20.00	
		gold plate			26.00	
r03	radiolaria earrings	stainless steel			20.00	
		gold plate			26.00	
r04	radiolaria pendant large	stainless steel			37.50	
		gold plate			47.50	

Radiolaria Silicone		black	white	#	price	subtotal
r05	radiolaria bracelet				27.50	
r06	radiolaria necklace				37.50	

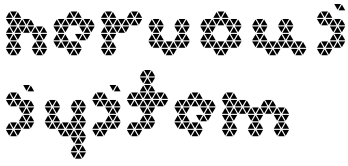
Radiolaria Wool Felt		pink	grey	black	orange	#	price	subtotal
r07	radial necklace I						33.00	
r08	radial necklace II						33.00	

subtotal page 1	
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continue on the next page







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Somerville, MA 02143

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contact:  
orders@n-e-r-v-o-u-s.com

Jesse Louis-Rosenberg  
914.466.0727  
Jessica Rosenkrantz  
617.785.0675

Dendrite		material	#	price	subtotal
d01	dendrite brooch	stainless steel		25.00	
d02	dendrite I earrings	stainless steel		15.00	
		24kt gold plated		20.00	
d03	dendrite II earrings	stainless steel		17.50	
		24kt gold plated		22.50	
f1	fullmoon necklace	stainless steel		30.00	
		24kt gold plated		35.00	
c1-a	coral necklace single hanging	stainless steel		30.00	
		24kt gold plated		35.00	
c1-b	coral necklace double hanging	stainless steel		30.00	
		24kt gold plated		35.00	
c1-c	coral necklace large	stainless steel		45.00	
c2	coral brooch small	stainless steel		30.00	
c2-c	coral brooch large	stainless steel		45.00	

Algae		material	#	price	subtotal
a01	filament necklace	stainless steel		42.50	
		24kt gold plated		52.50	
a02	undergrowth earrings	stainless steel		25.00	
		24kt gold plated		30.00	
a04	algal bloom pendant	stainless steel		20.00	
		24kt gold plated		25.00	
a05	large algal bloom pendant	stainless steel		22.50	
		24kt gold plated		27.50	
a07	branch earrings	stainless steel		20.00	
		24kt gold plated		25.00	
a08	conifer pendant	stainless steel		28.00	
		24kt gold plated		33.00	

Lamina		material	#	price	subtotal
l01	orchid necklace I	stainless steel		75.00	
l02	orchid necklace II	plastic		52.50	

subtotal page 2	
subtotal page 1	
shipping	
<b>grand total</b>	

### Terms

**Minimum order** is \$300

**Payment** by paypal in advance is preferred for opening orders.

**Lead Time** is 1 to 3 weeks, depending on availability

**USA orders** ship via UPS Ground (~\$15). If you prefer to use a different carrier, please let us know by email

**International orders** ship via USPS Express Mail (5 days, ~\$40) or USPS Global Express Guarranteed (1-3 days, ~\$80)

**Shipping costs** depend on the size of your order. We will calculate the cost and get back to you with an updated invoice when your order is ready to ship.