



from Natural to Artificial
a post-naturalistic evolution's catalogue

morphing trough:
transformation
deformation
scaling
repetition
...

unveiling of:
structures
frames
shells
elements
details
...

exploring the aesthetics of natural forms
discovering beauty in shapes and details
modeling organic shapes into the virtual world
manufacturing prototypes in CNC/RP



fig.1



fig.2

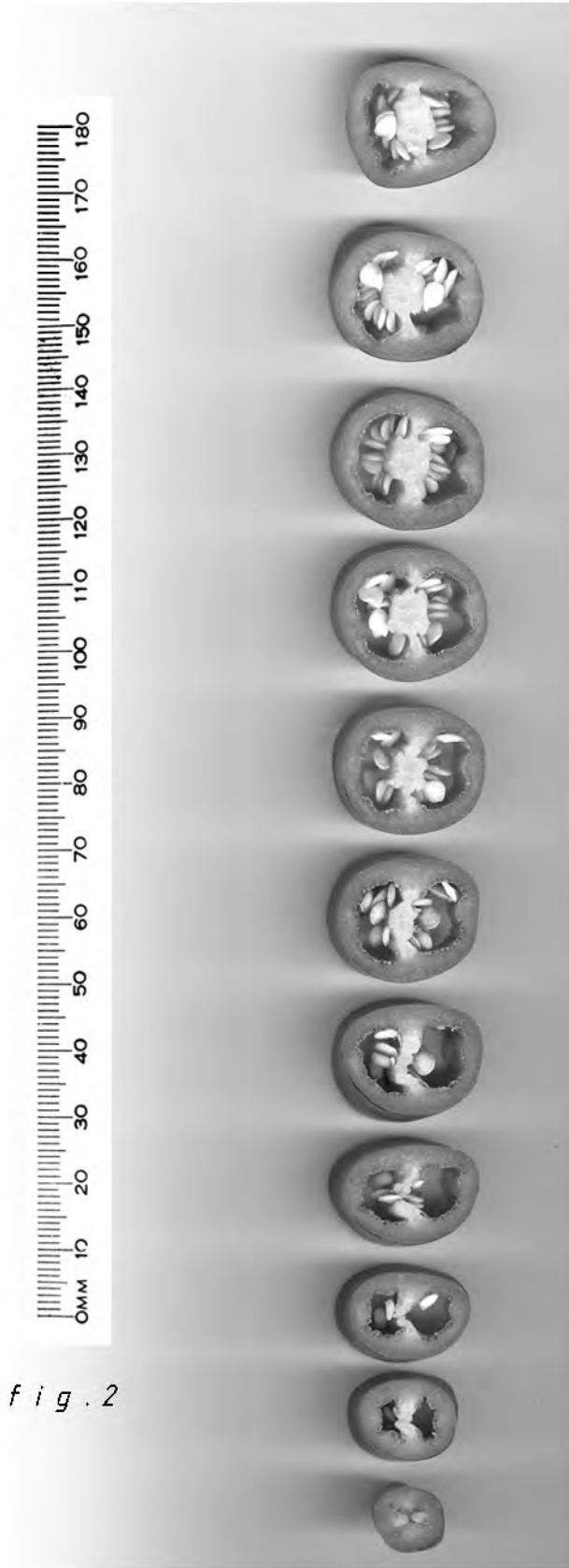


fig.3

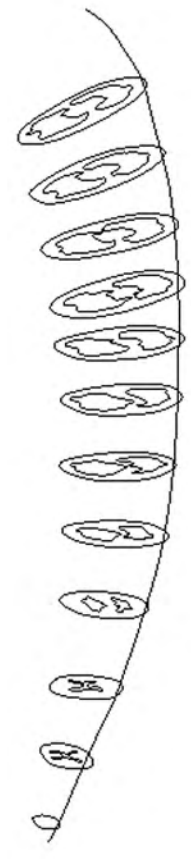
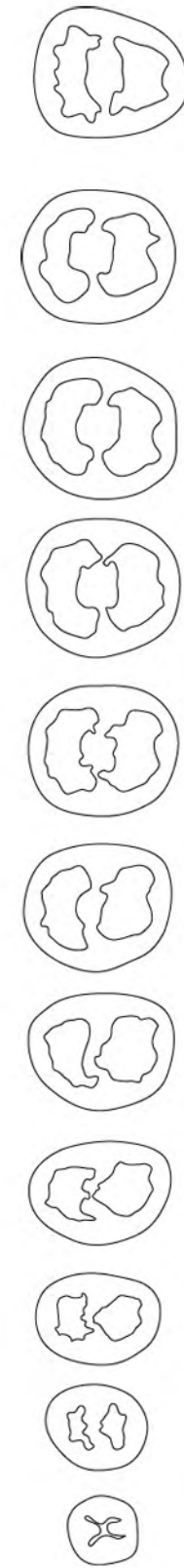
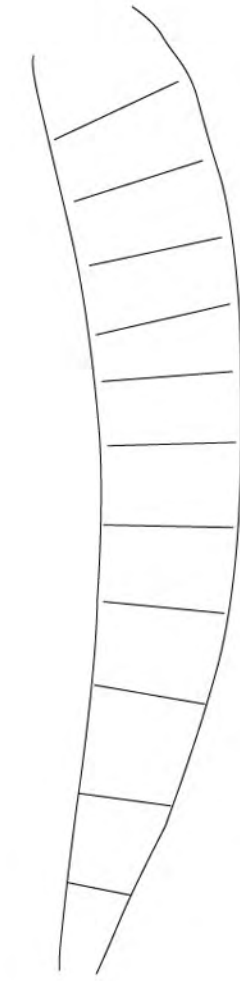


fig.4



fig.5

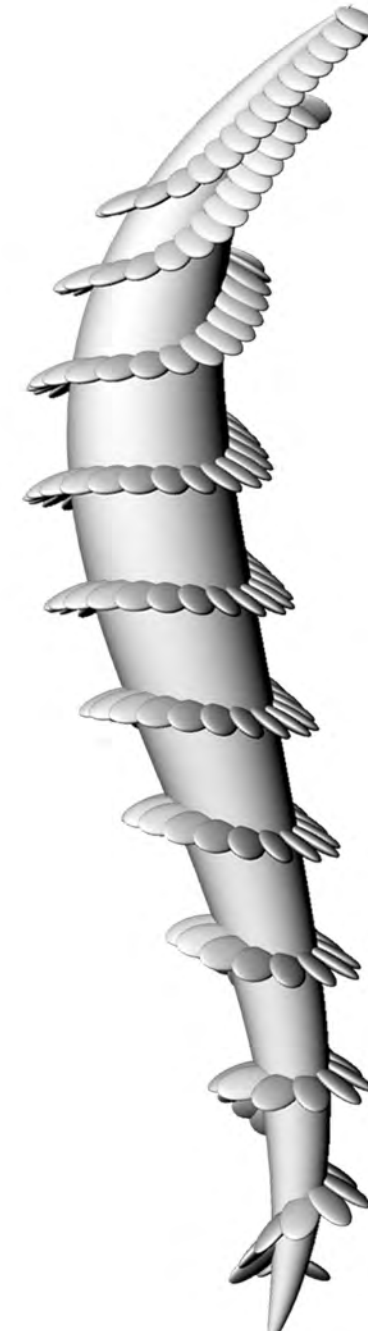
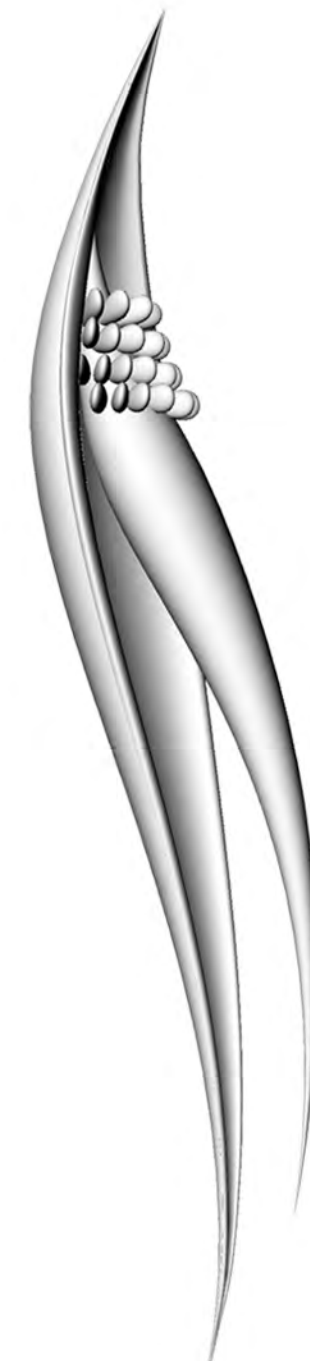


fig.6

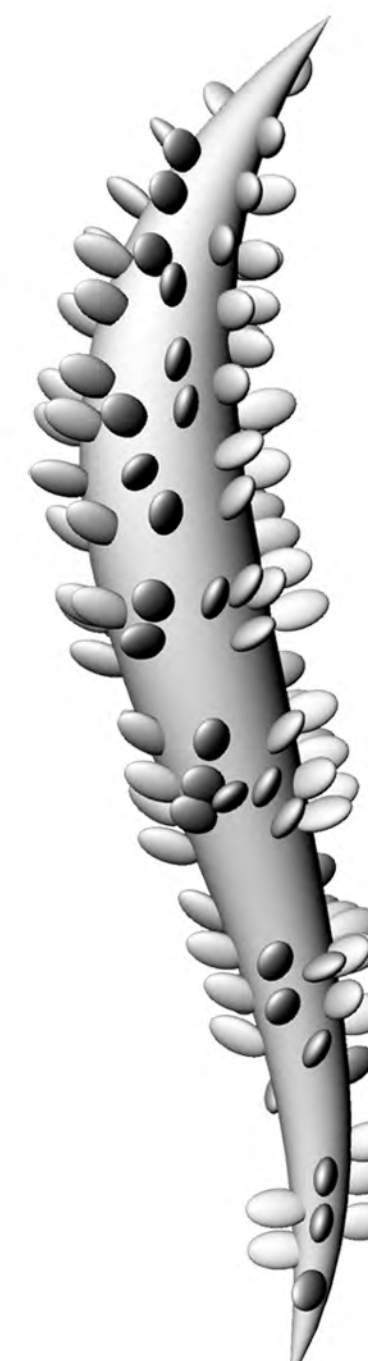


fig.7

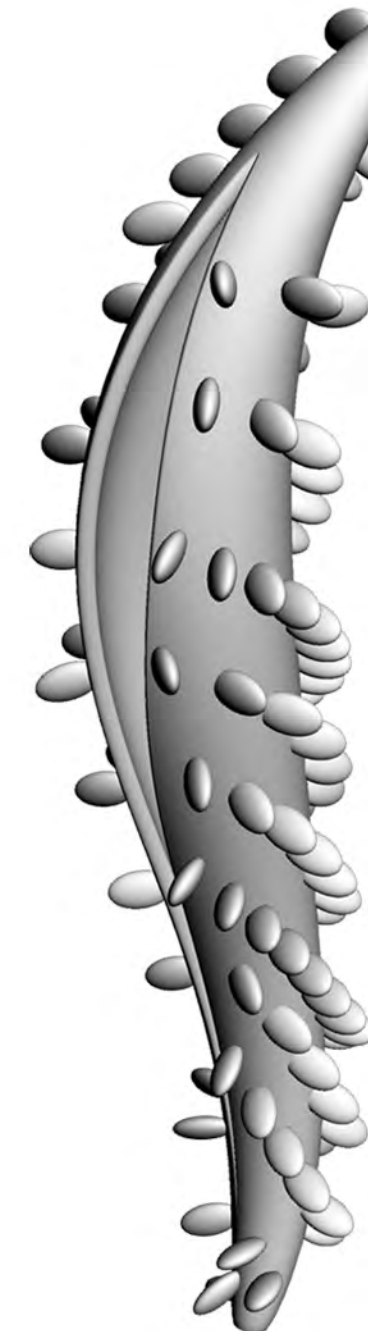


fig.8



fig.9



fig.12

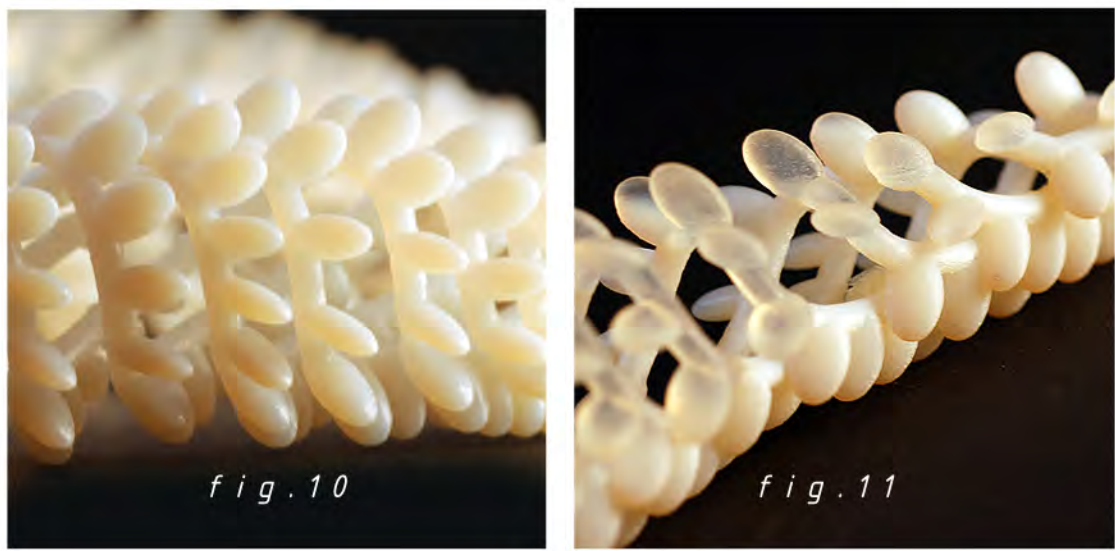


fig.10

fig.11

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Huang Yanying

fig.1: Chilli - Scale 1:1 - Dimension mm.180 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Rhino Transformation Process # fig.7: 3D Rhino Transformation Process # fig.8: 3D Rhino Transformation Process # fig.9: Final 3D Rendering # fig.10: Final Output Image # fig.11: Final Output Image # fig.12: Final Output Image



fig.1

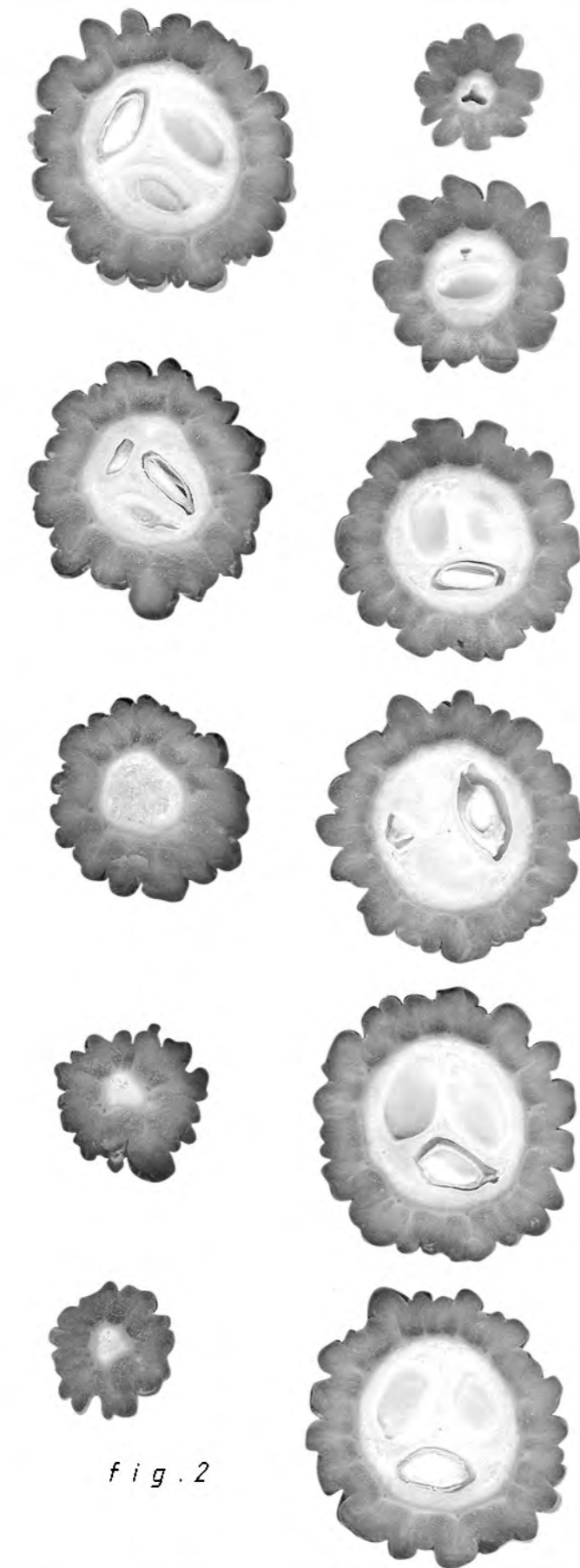
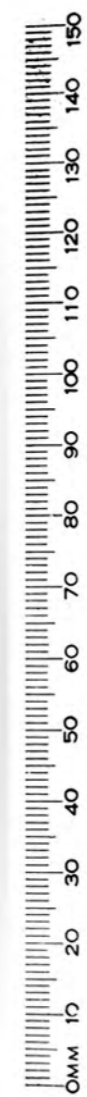


fig.2

1 2



fig.3

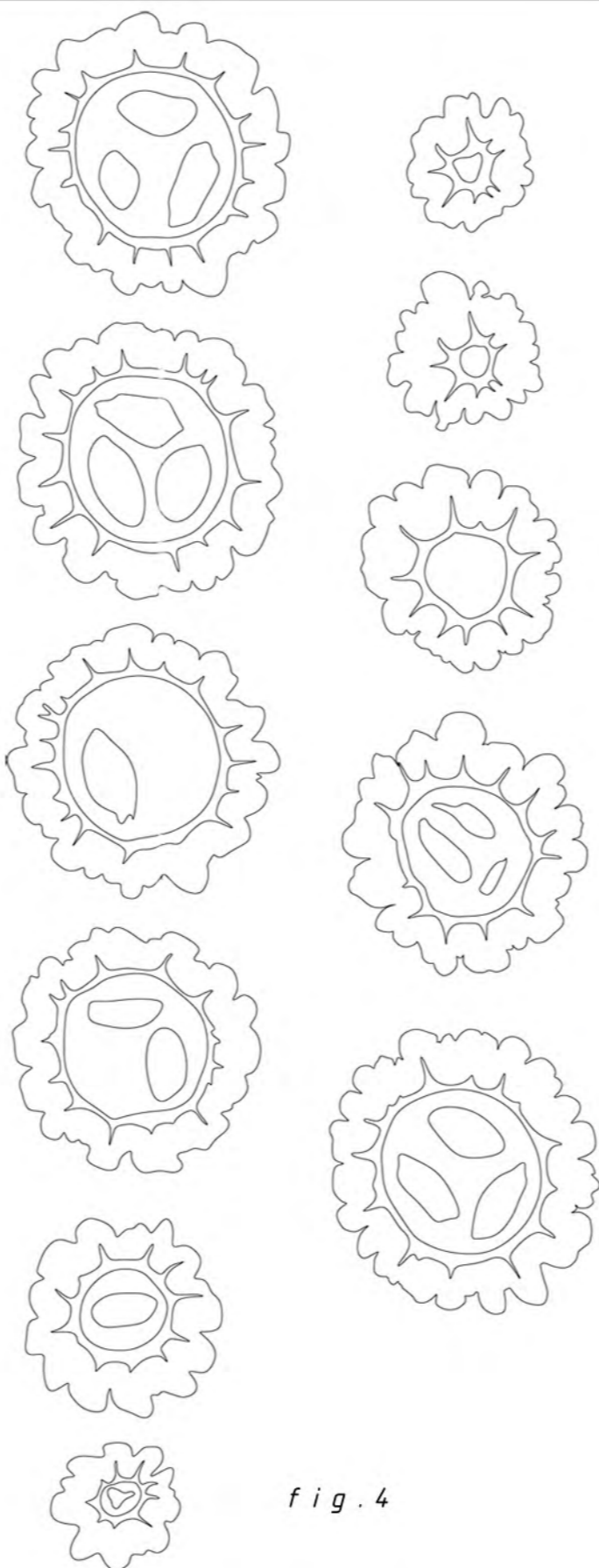
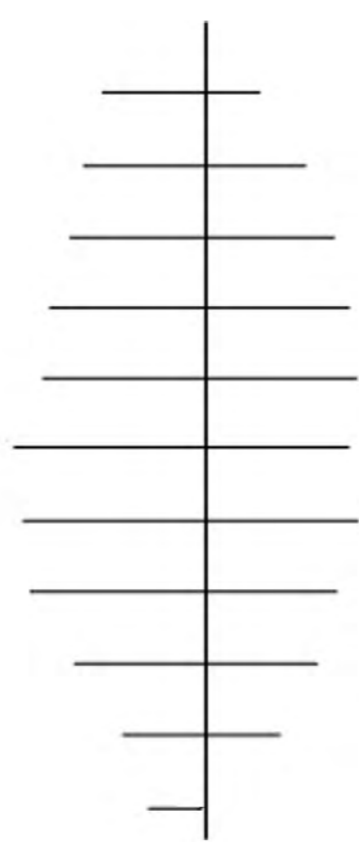


fig.4

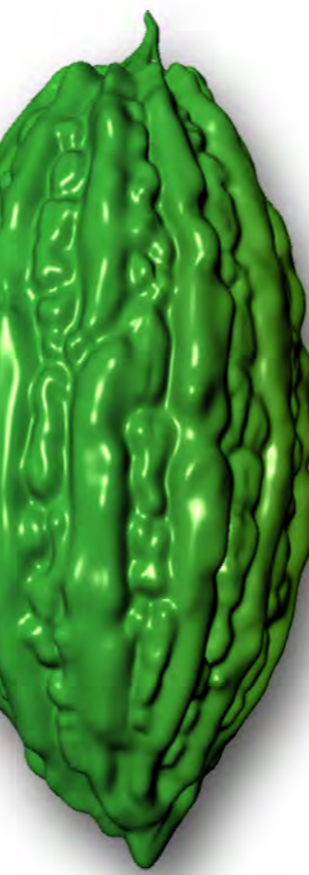
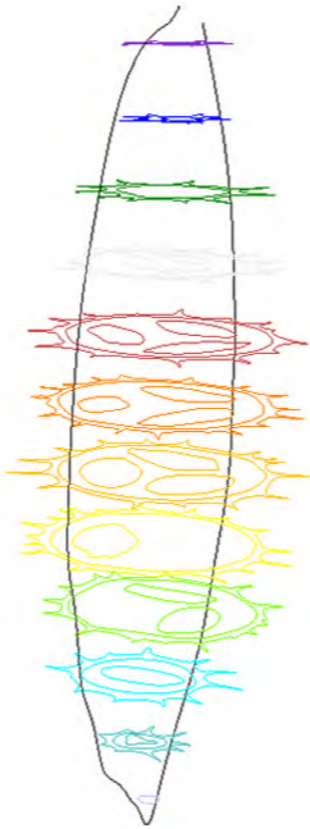


fig.5

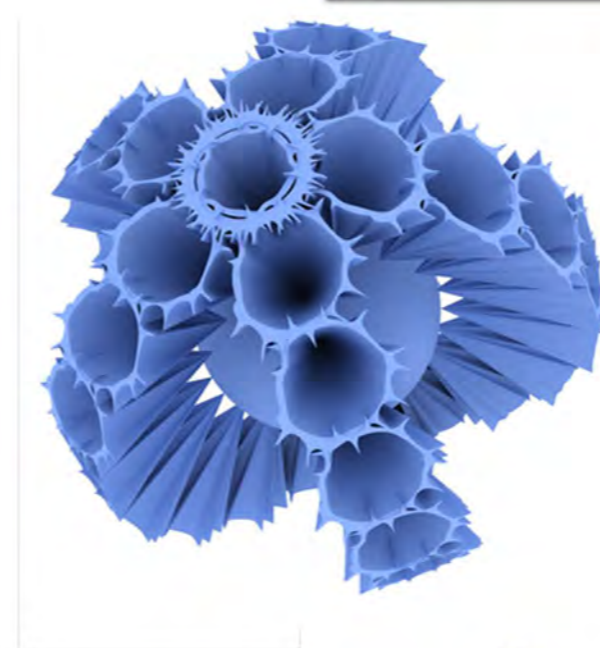


fig.6

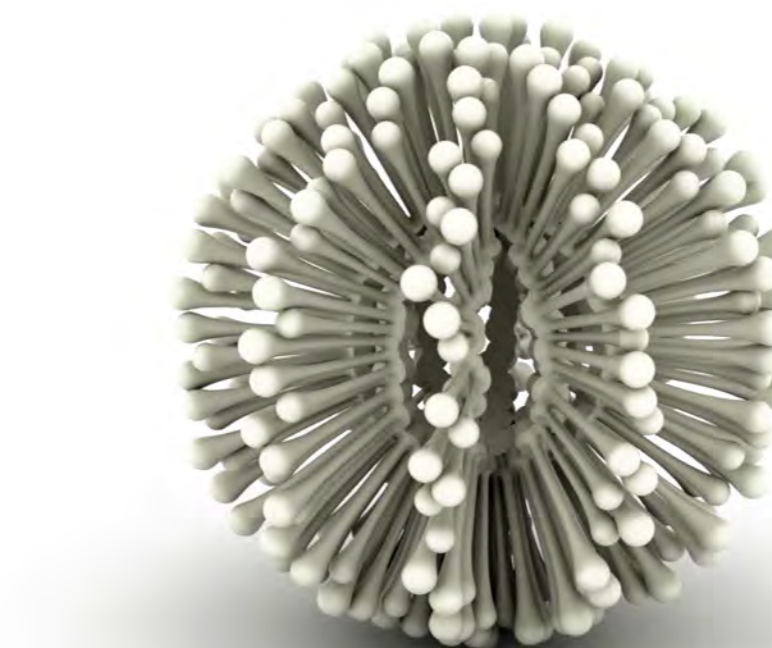
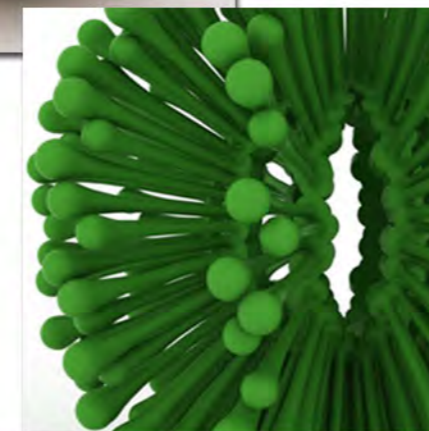
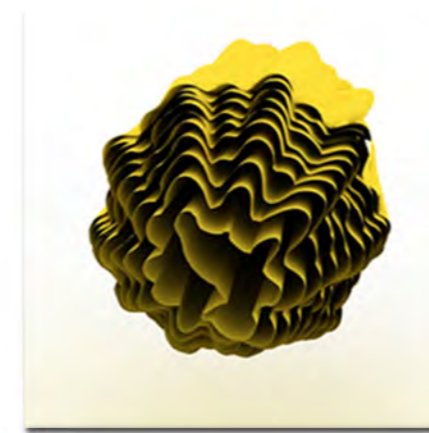


fig.7



fig.8



fig.11



fig.9

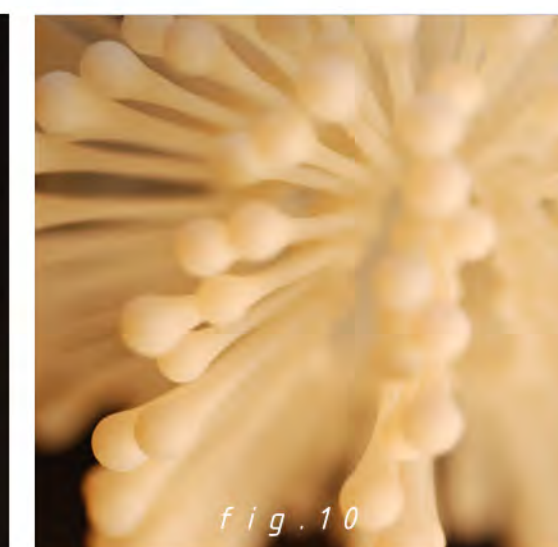


fig.10

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fig.1: Mini Bitter Gourd - Scale 1:1 - Dimension mm.125 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.5:3D Rhino Model Reconstruction # fig.6: 3D Rhino Transformation Process # fig.7: 3D Renderings # fig.8: Images from CNC/RP Process # fig.9: Final Output Image # fig.10: Final Output Image # fig.11: Final Output Image



fig. 1

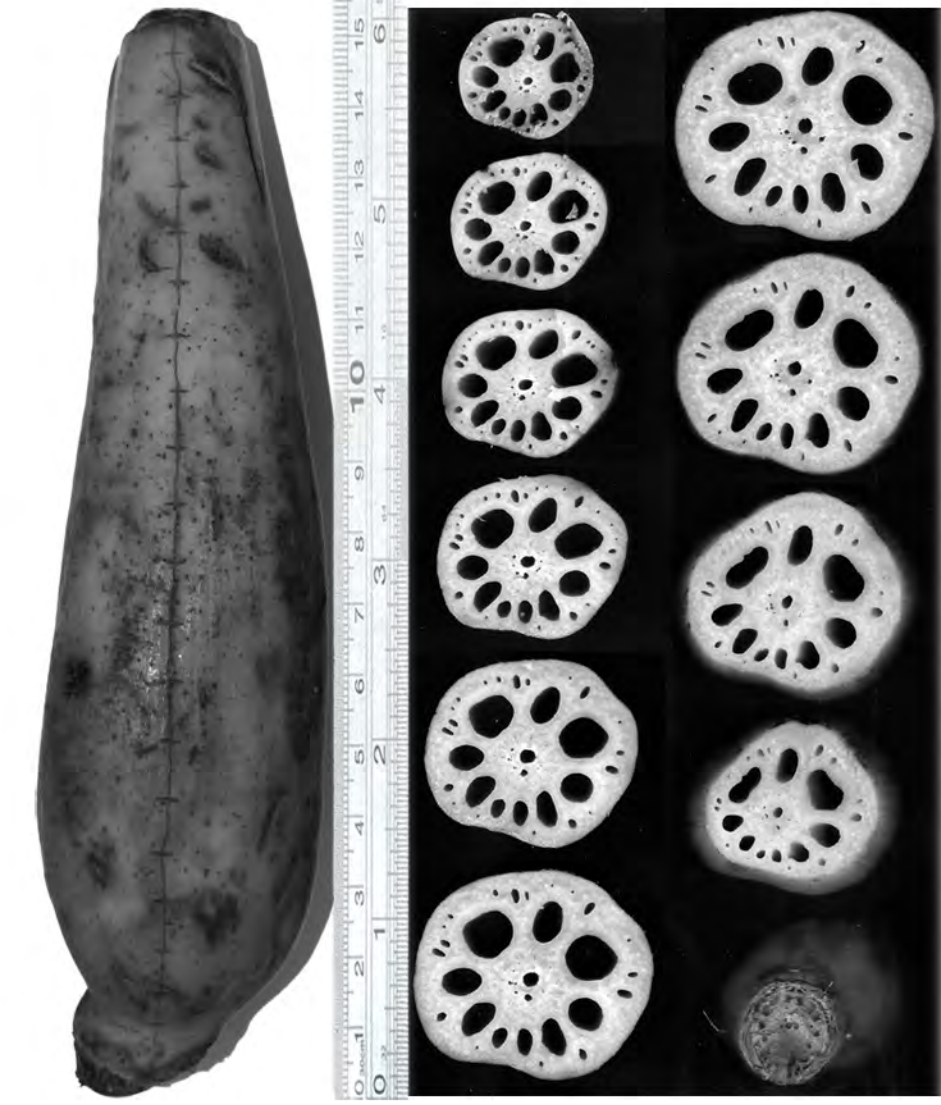


fig. 2

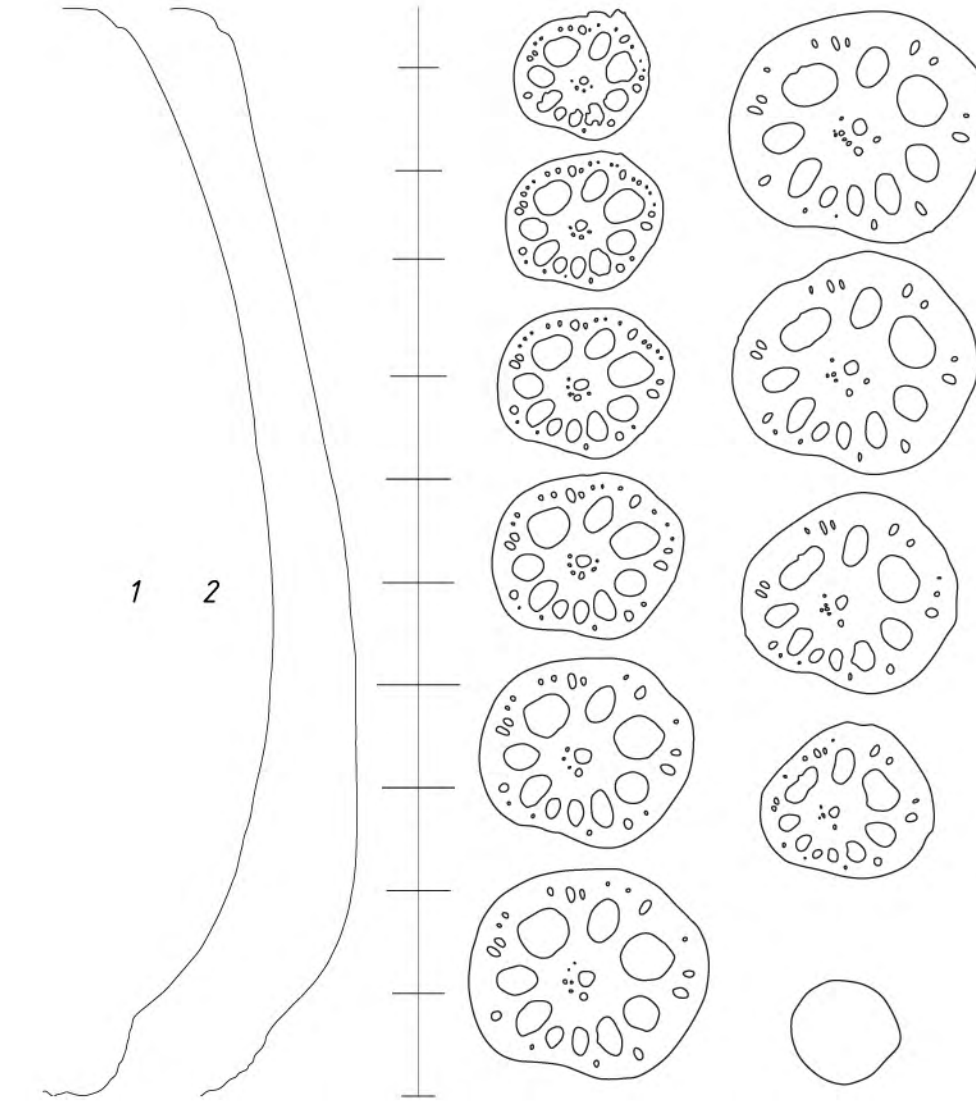


fig. 3

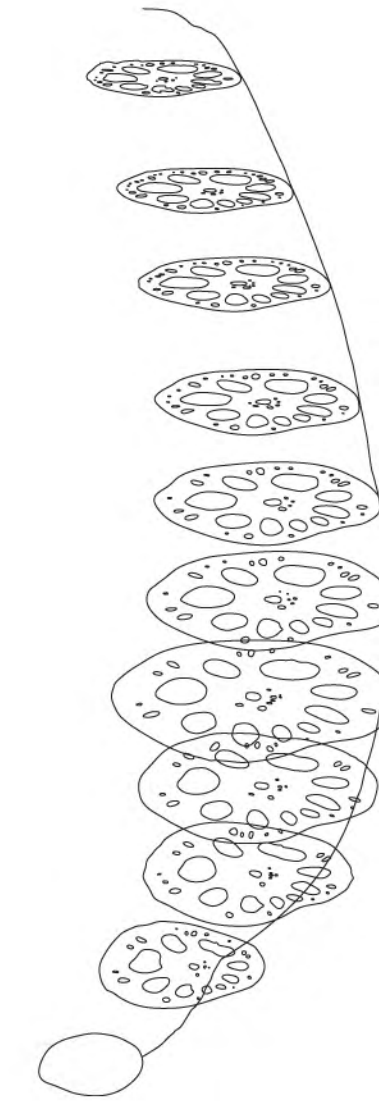


fig. 4



fig. 5

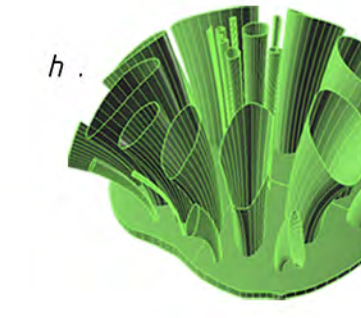
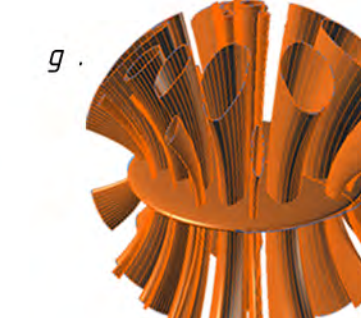
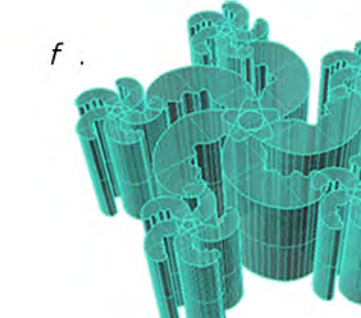
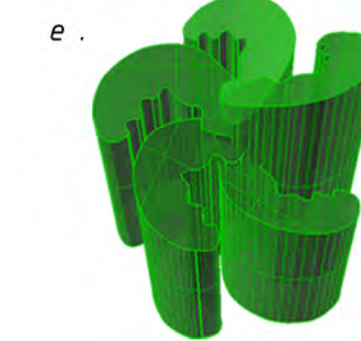
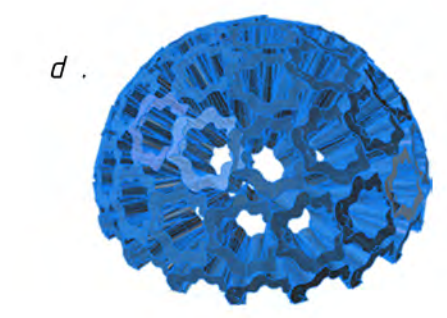
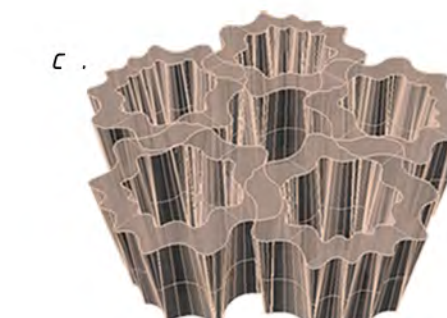
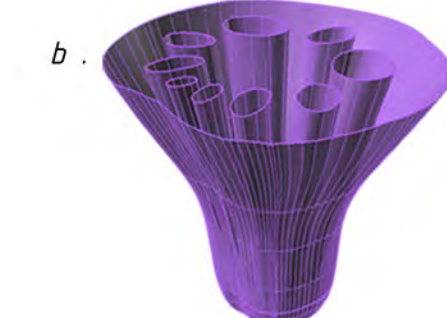
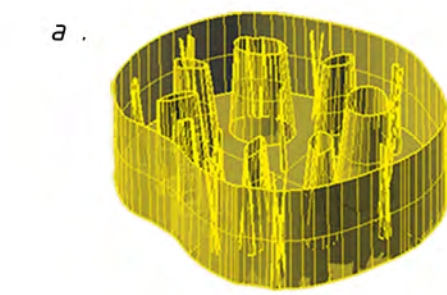


fig. 6

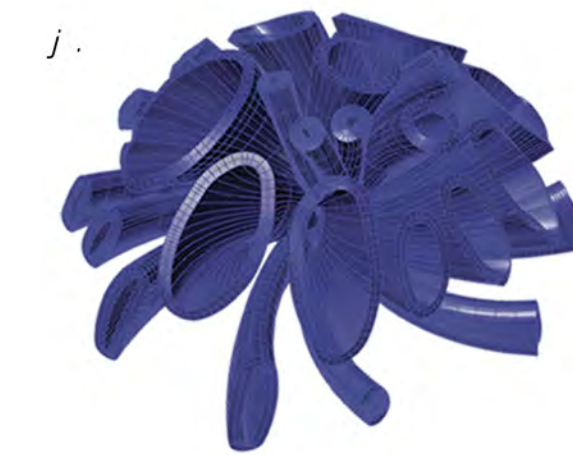
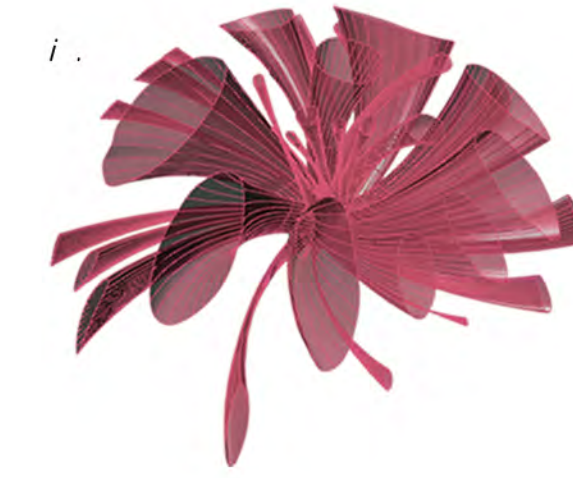


fig. 7

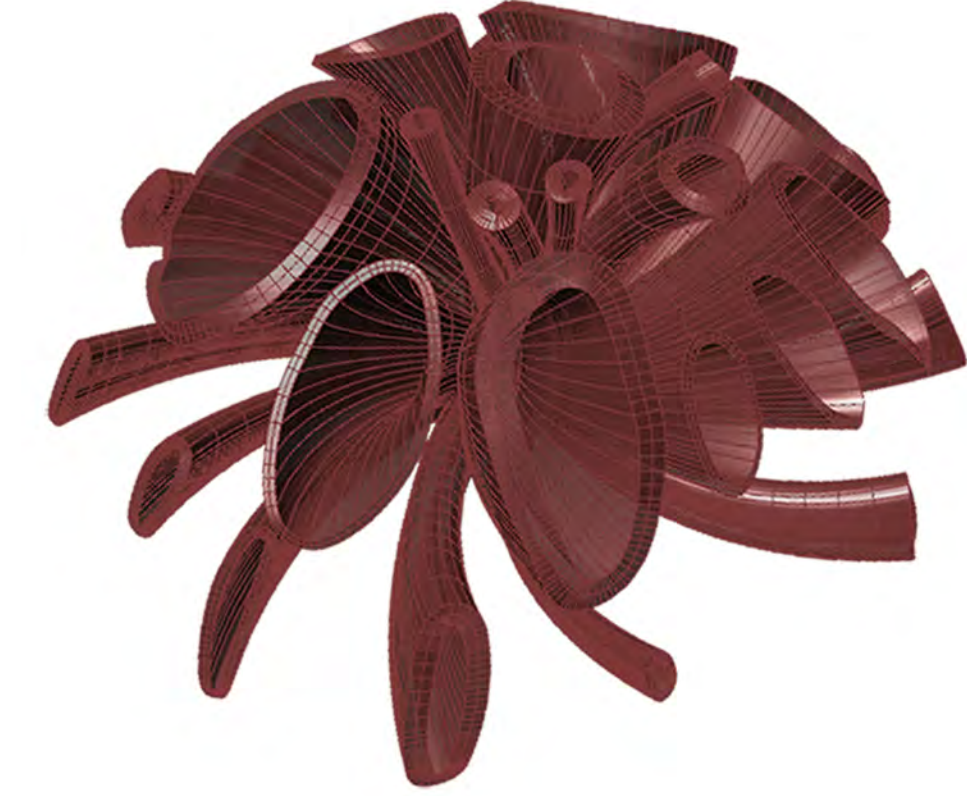


fig. 8



fig. 11



fig. 9



fig. 10

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fig. 1: Lotus' Root - Scale 2:3 - Dimension mm.153 # fig. 2: Points & Sections - Photoscan - Scale 2:3 # fig. 3: Sections - 2D Graphic Reconstruction - Scale 2:3 # fig. 4: 3D Sections # fig. 5: 3D Rhino Model Reconstruction # fig. 6: 3D Rhino Transformation Process # fig. 7: Final Concept - 3D Rhino Transformation # fig. 8: Final Model - 3D Rendering # fig. 9: Printed Model - Bottom View # fig. 10: Printed Model - Top View # fig. 11: Printed Model - Perspective View



fig.1

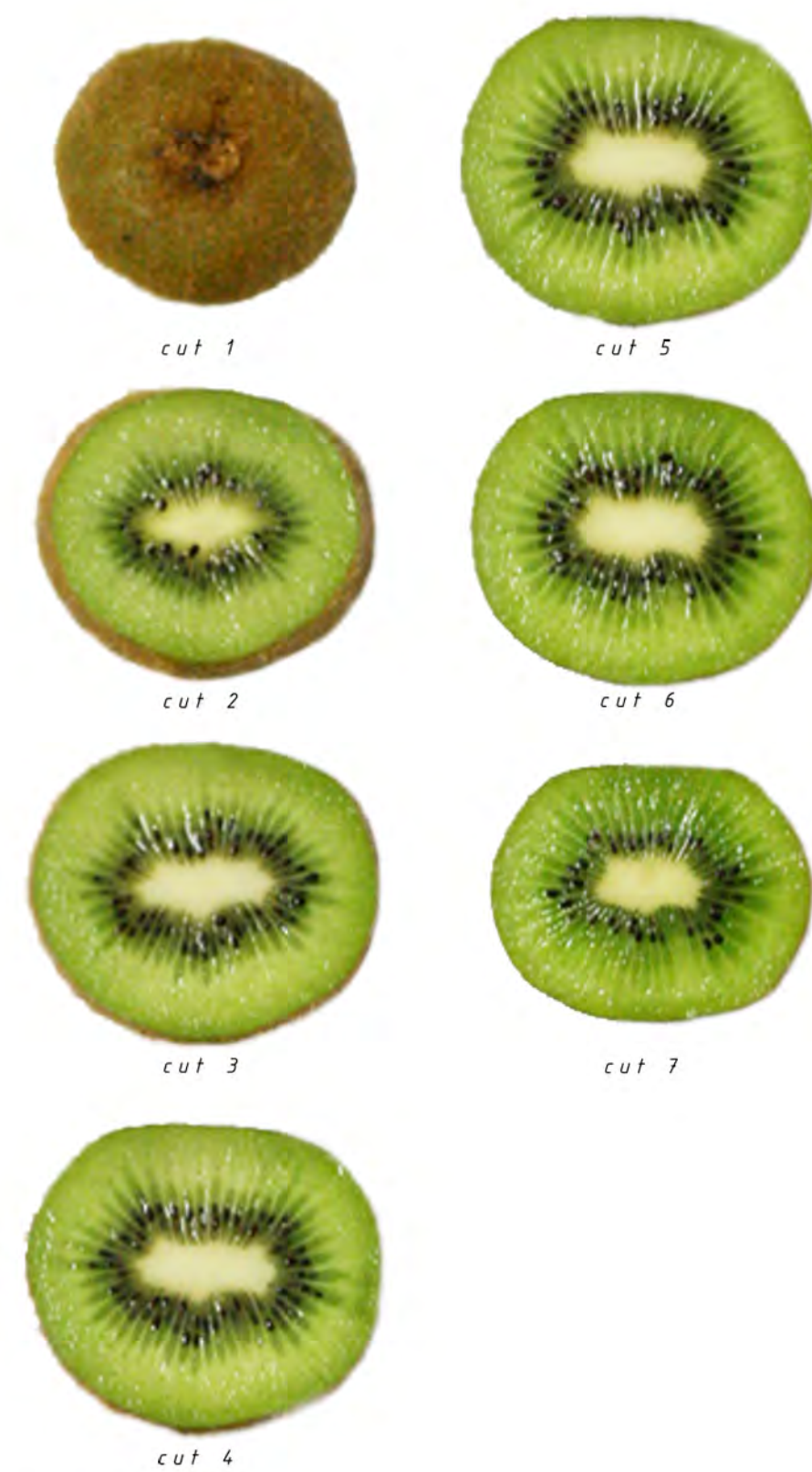


fig.2

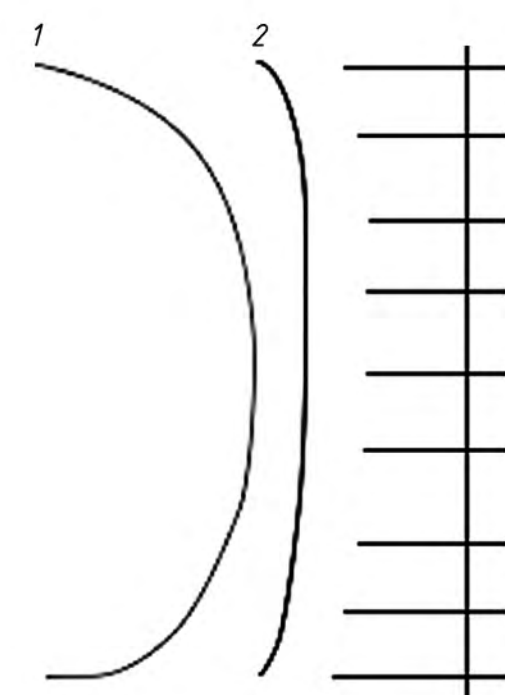


fig.3

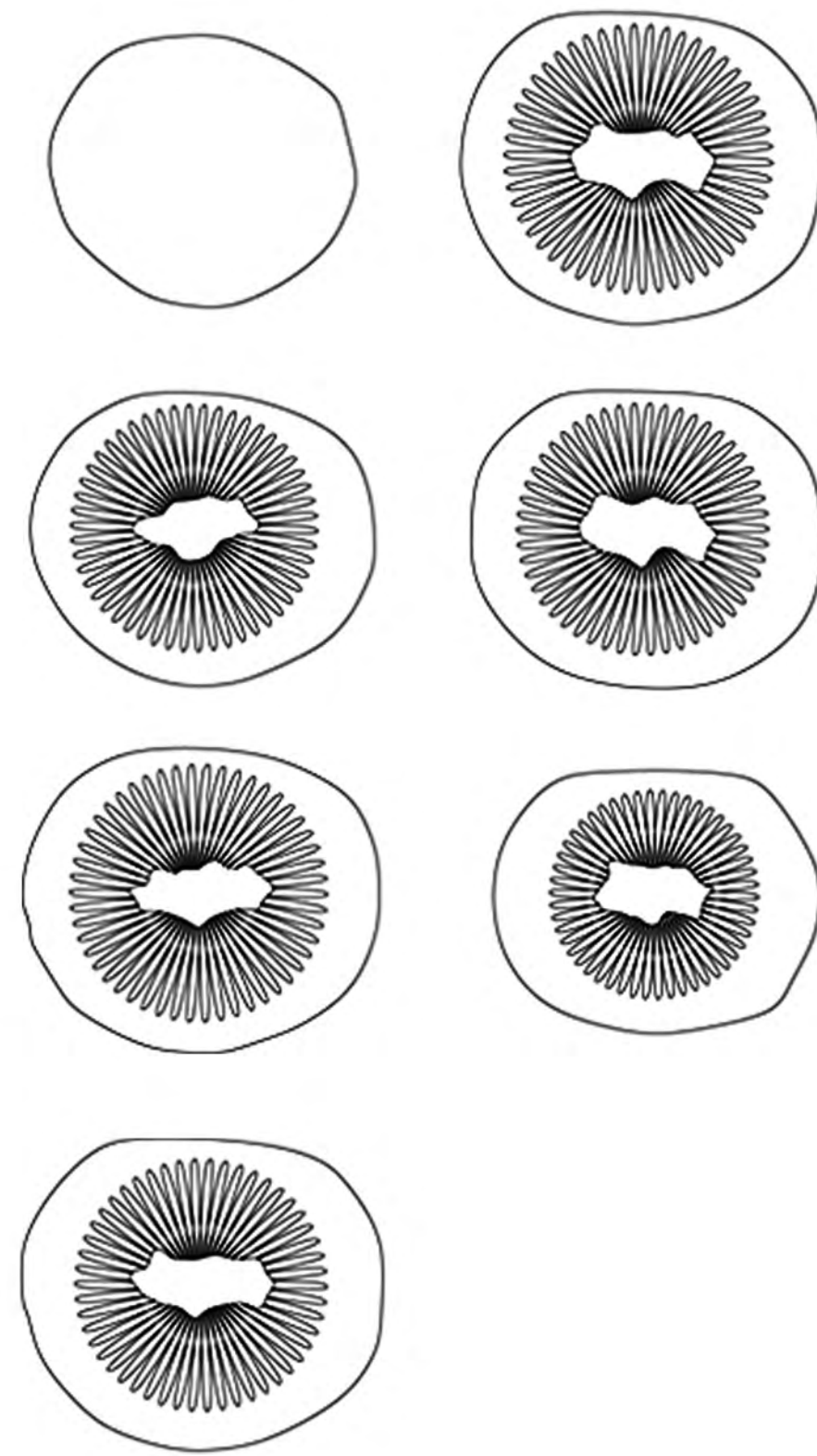


fig.4

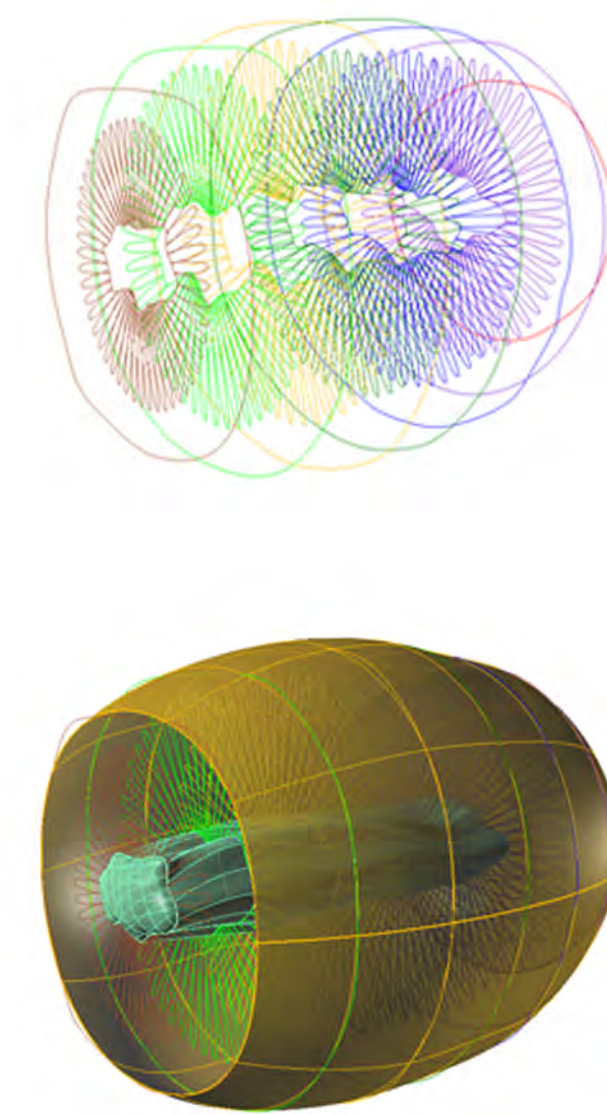


fig.5

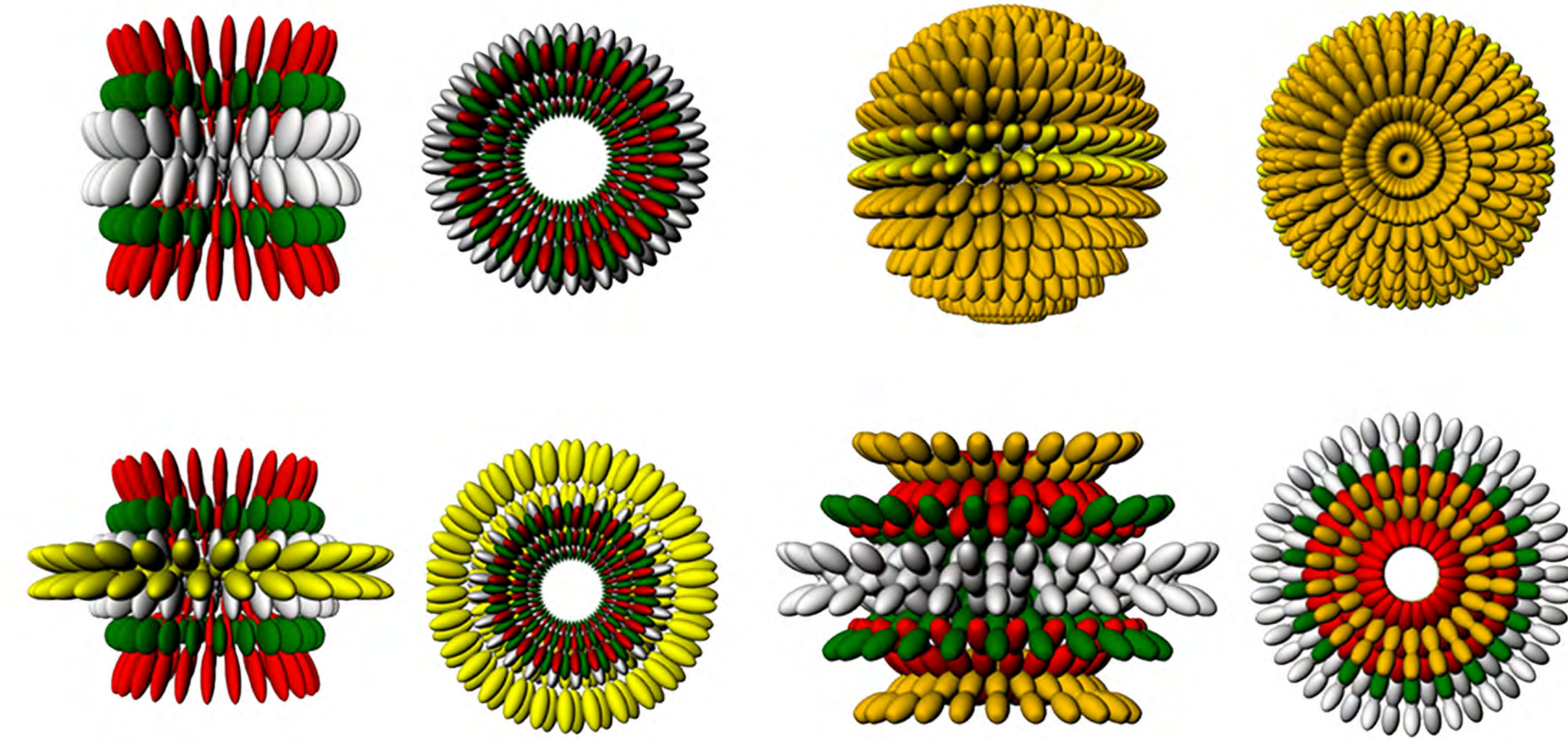


fig.6



fig.7

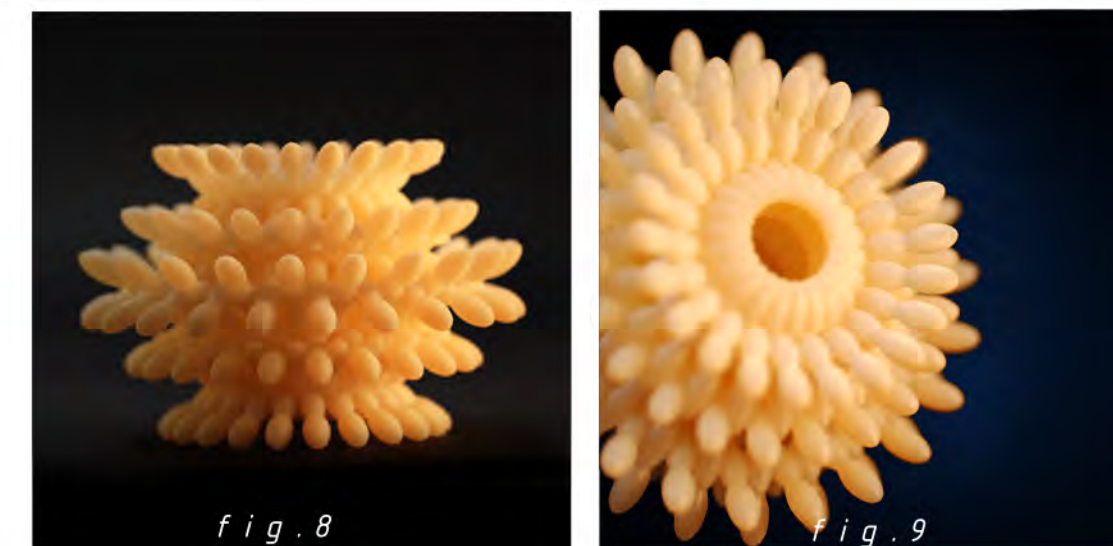


fig.8

fig.9

from Natural to Artificial - PRO 330 - Advanced form Workshop - Fall 2008 - Assist.Prof.Fabrizio Galli - Student : Steven Kurniawan Soedjiono

fig.1: Kiwi - Scale 1:1 - Dimension mm.083 # fig.2: Points and Sections - Photoscan - Scale 1:1 # fig.3: Cross-sections trace - Scale 1:1 # fig.4: 2D Reconstruction - Scale 1:1 # fig.5: 3D Rhino Model Reconstruction # fig.6: 3D Rhino Transformation Process # fig.7: Images from CNC / RP Process # fig.8: Final Output Image - sideview # fig.9: Final Output Image - Detail



fig.1

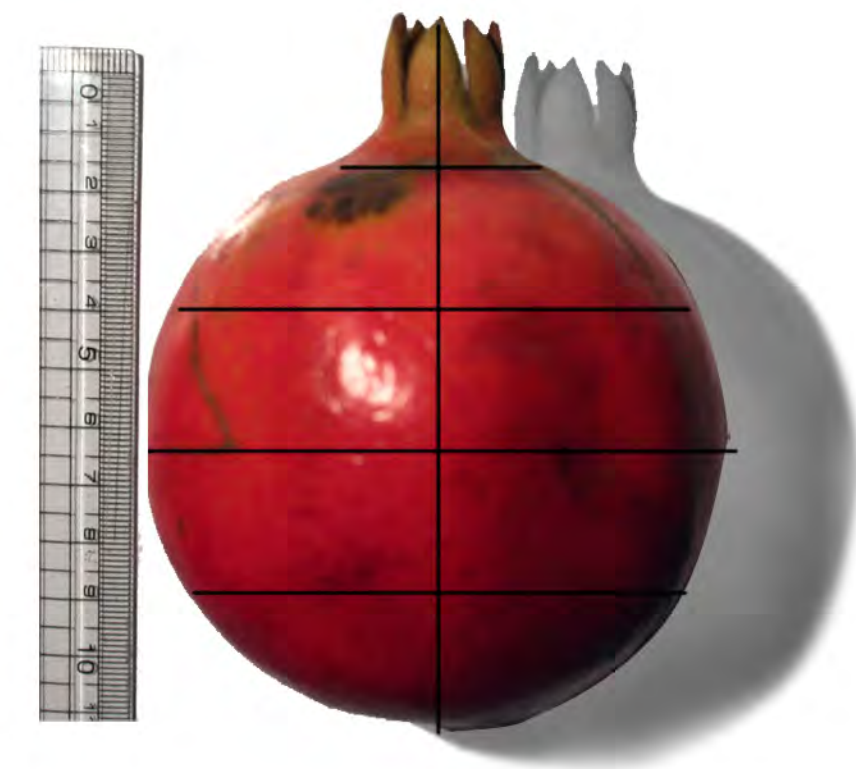


fig.2

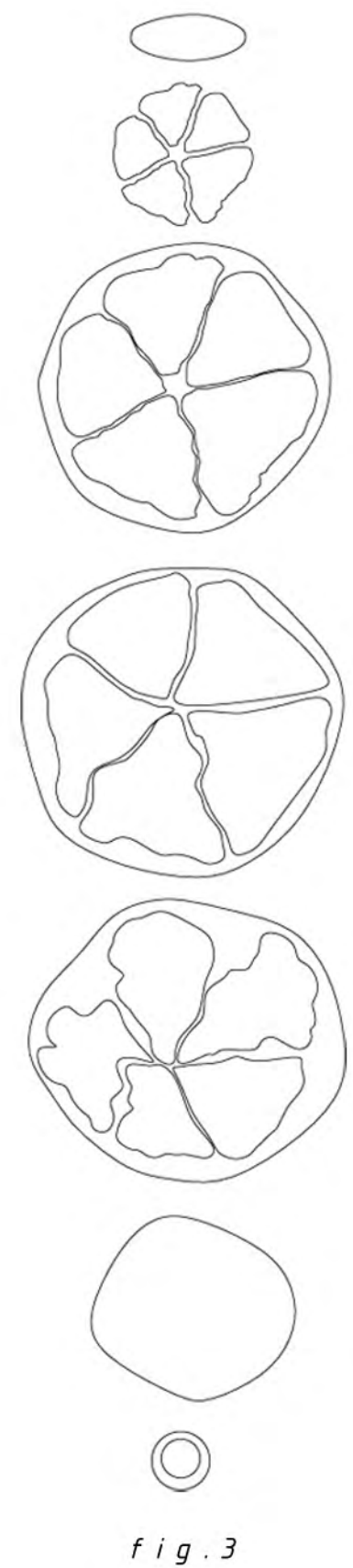


fig.3



fig.4

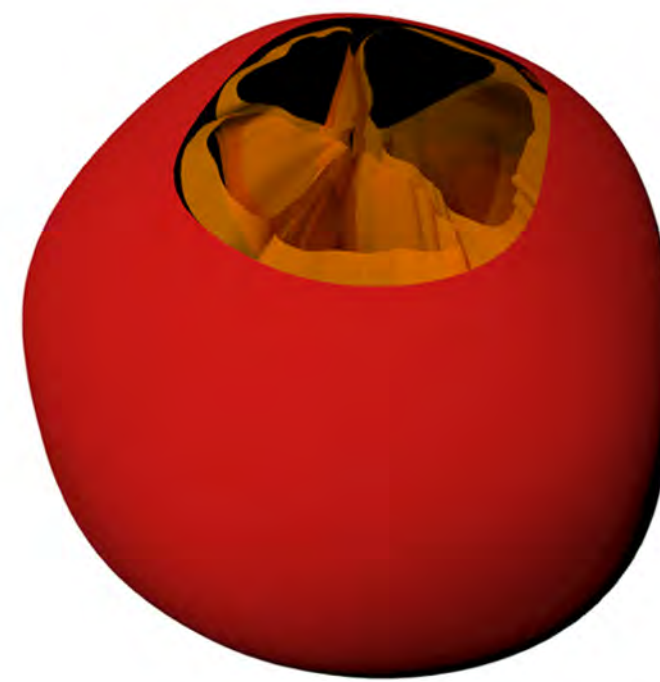


fig.5



fig.6



fig.7



fig.8

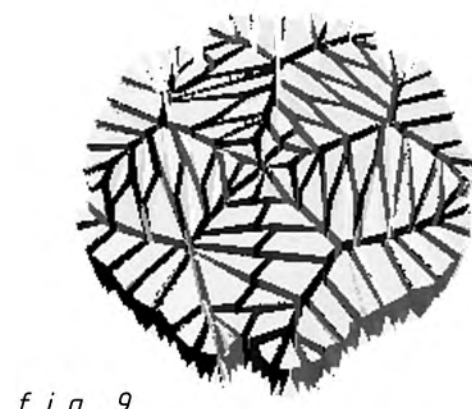


fig.9



fig.10

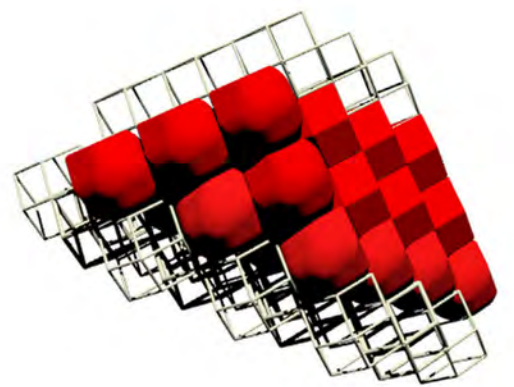


fig.11

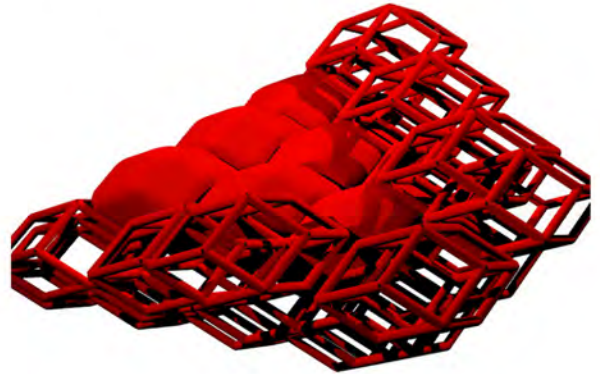


fig.12

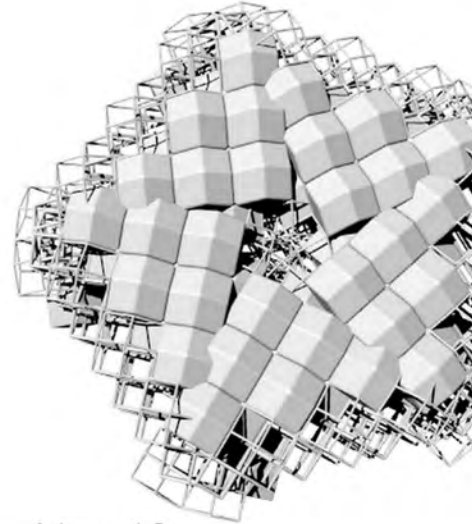


fig.13

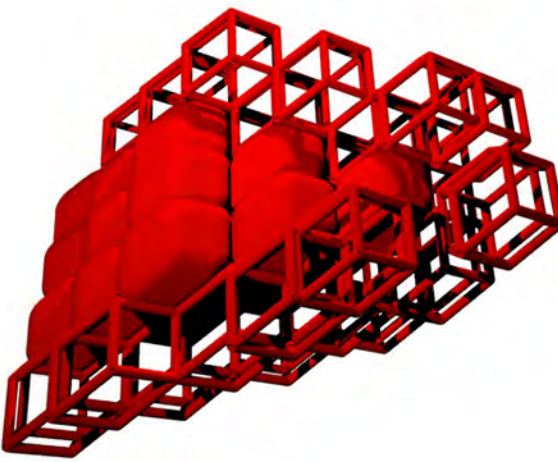


fig.14

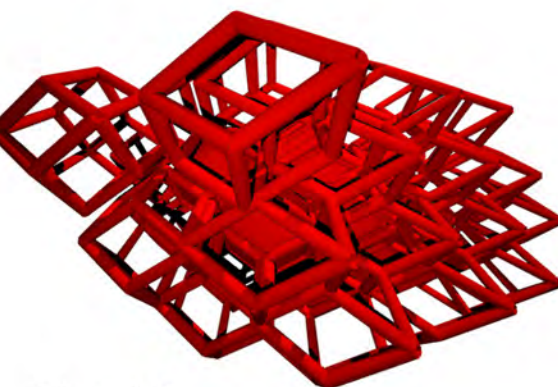


fig.15

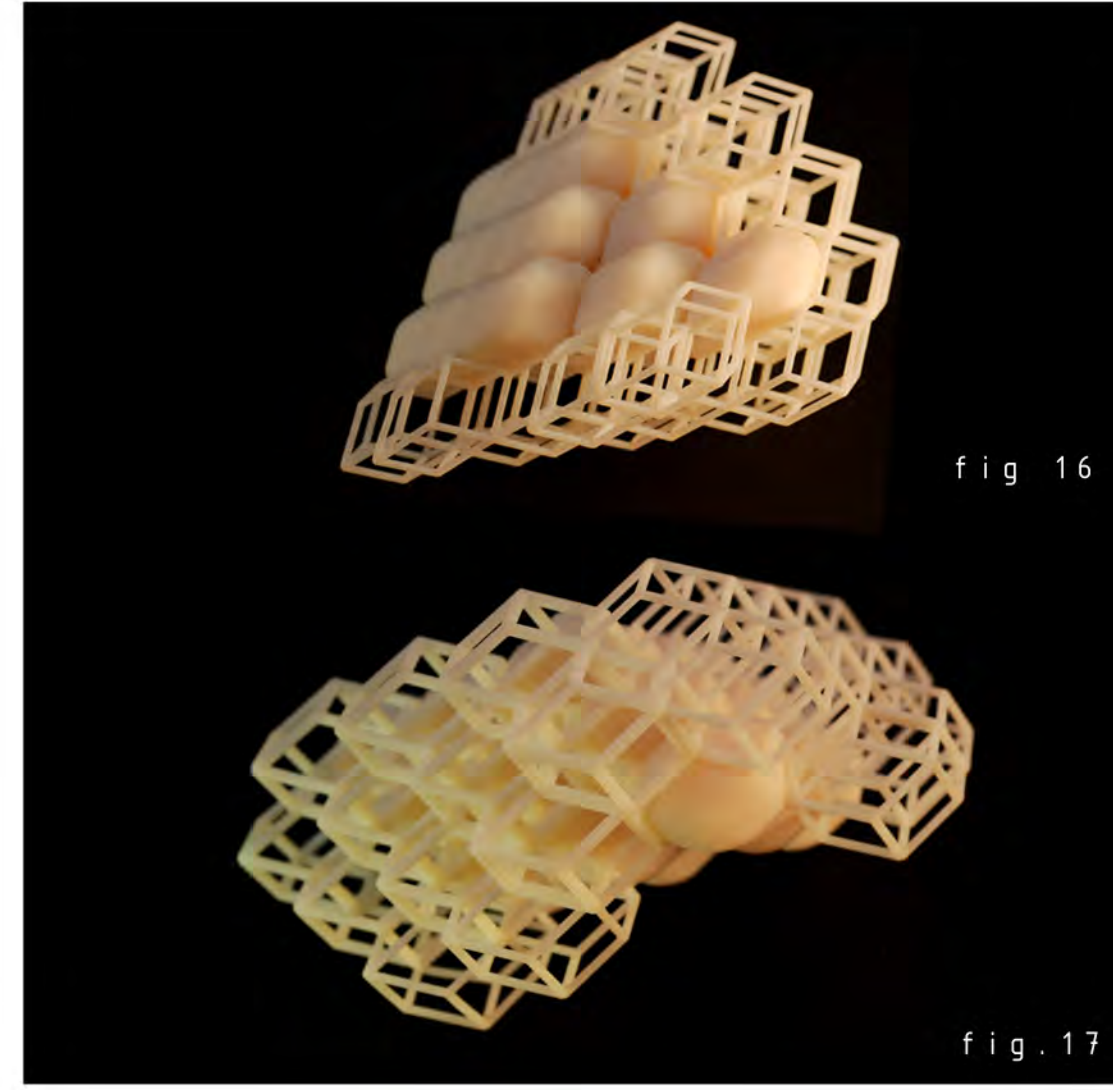


fig.16

fig.17

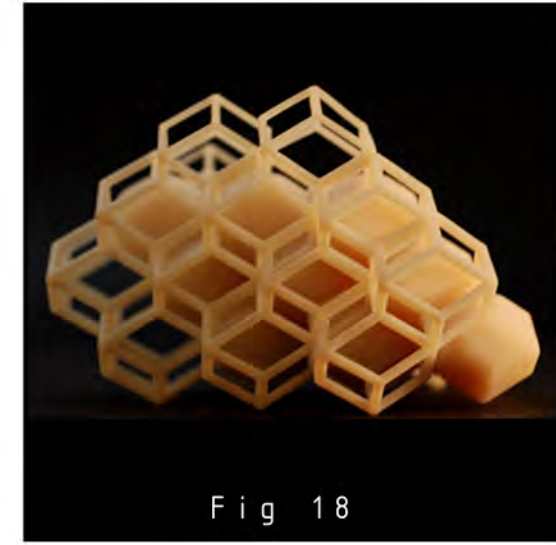


Fig.18

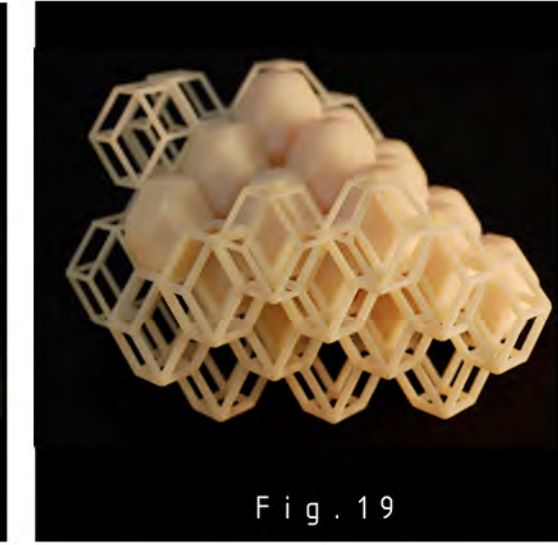


Fig.19

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Tan Wanxin Sherry

fig.1: Pomegranate - Scale 1:1 - Dimension mm.140 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3,4: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.5,6: 3D Rhino Model Reconstruction # fig.7,8 Photos, pomegranate details # fig.9, 10, 11, 13: Initial explorations renders # fig.12, 14, 15: Final model renders # fig.16, 17, 18, 19: Final Output Images



fig.1

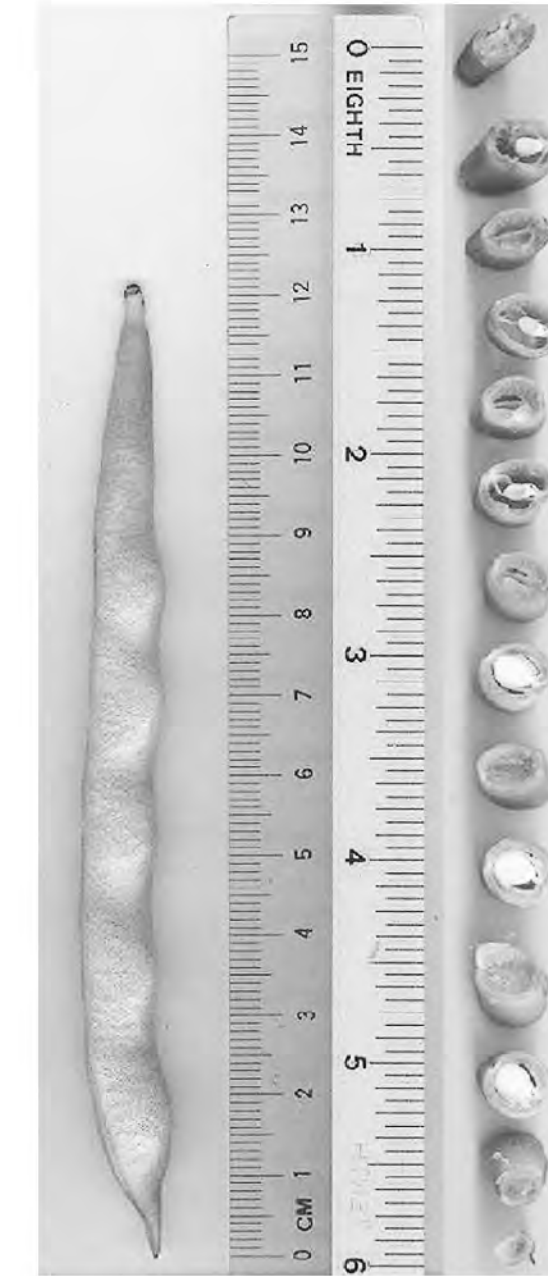


fig.2

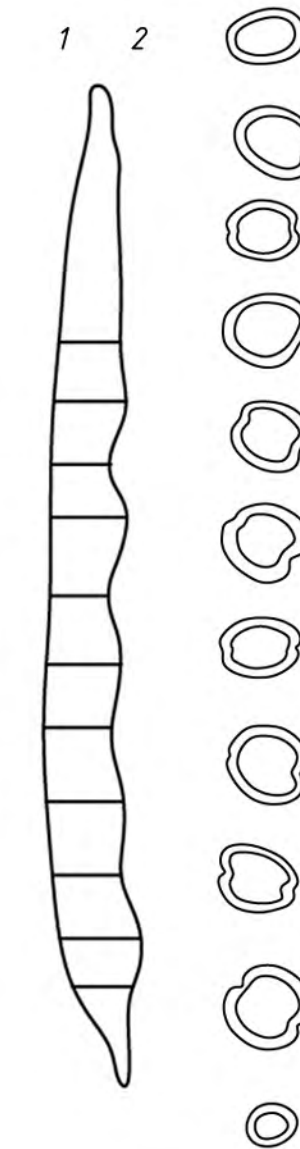


fig.3

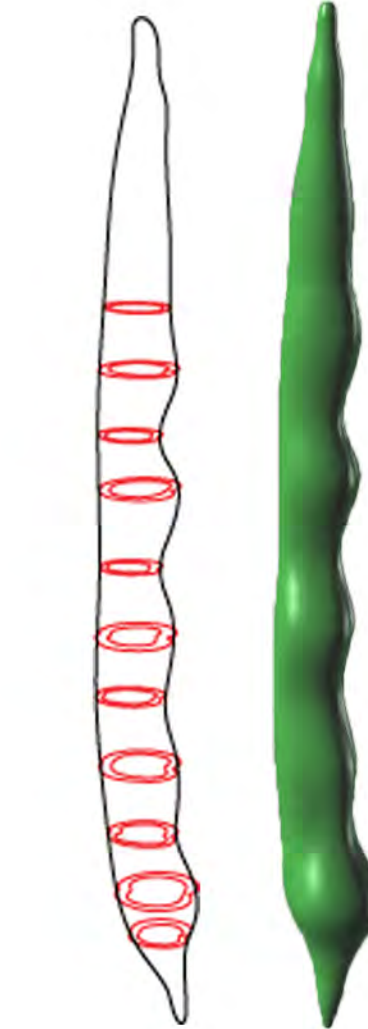
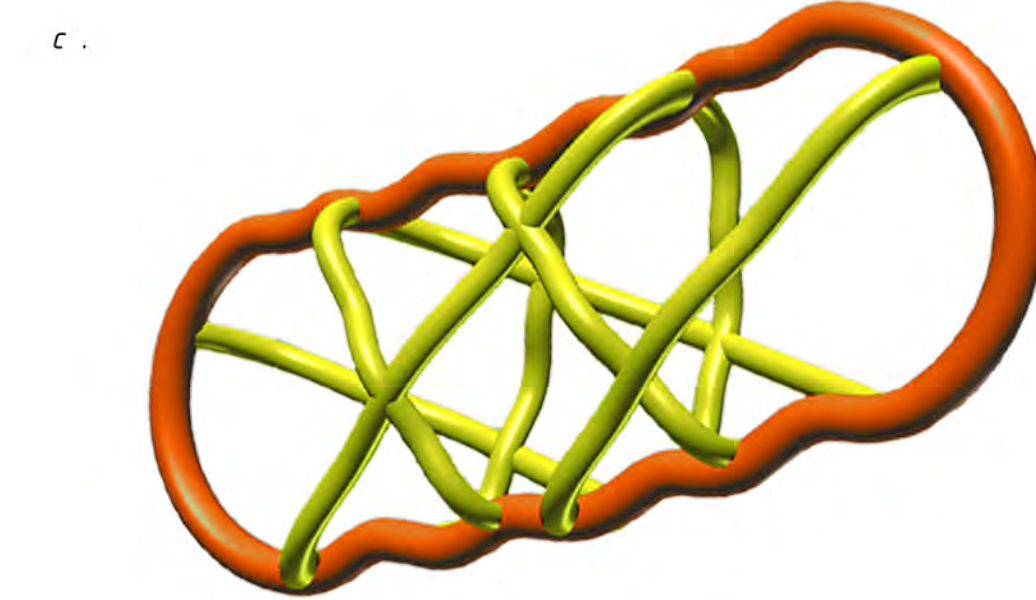
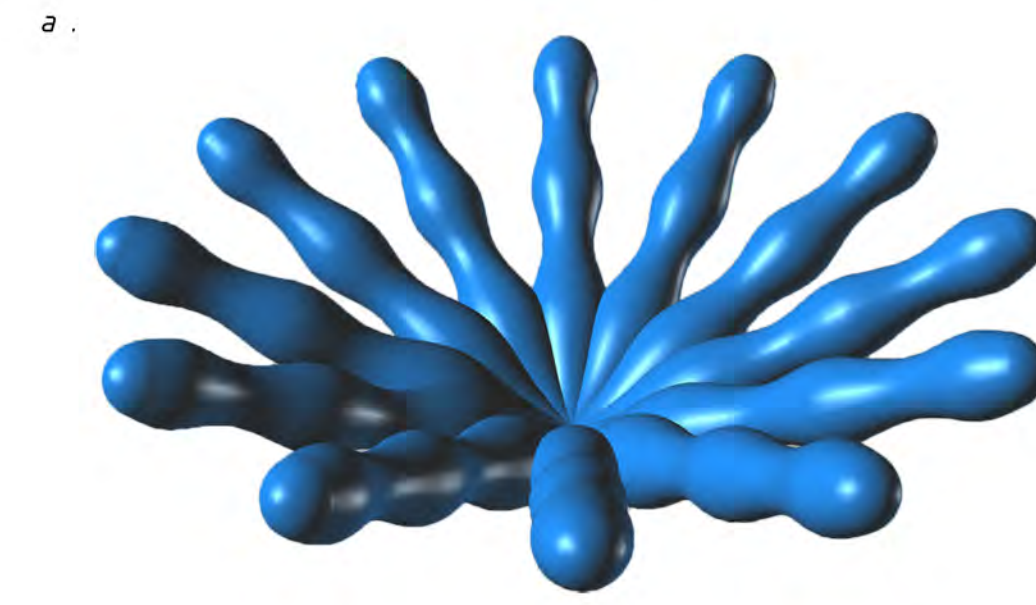


fig.4

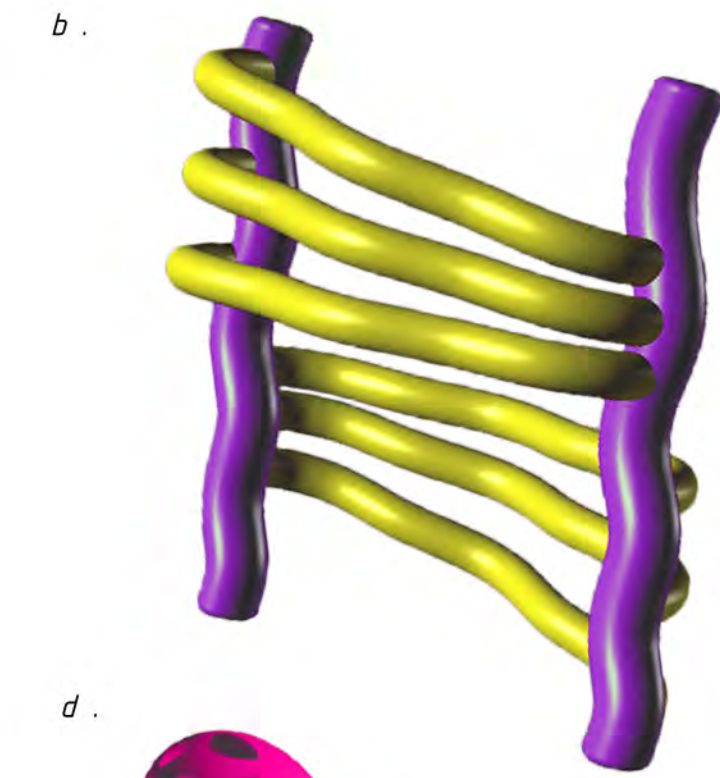


fig.5



a.

c.



b.

d.

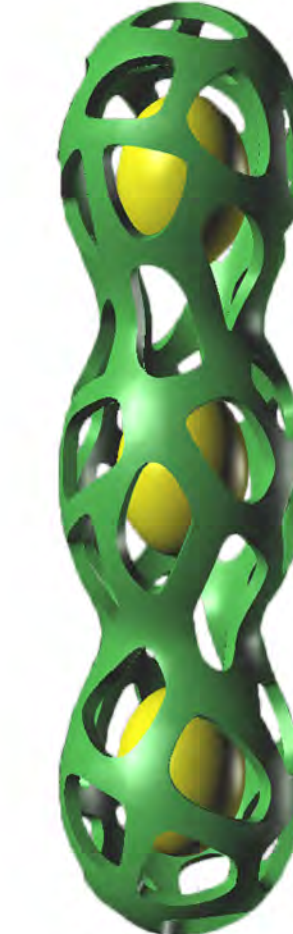


fig.7

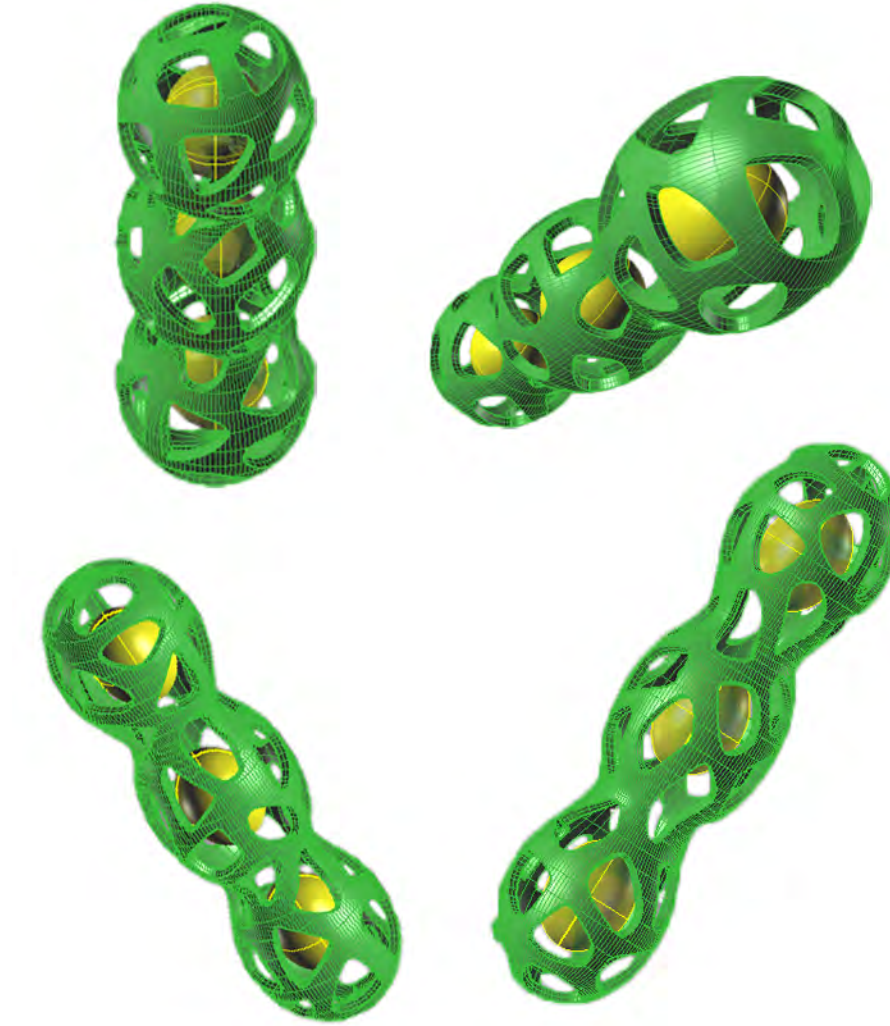


fig.8

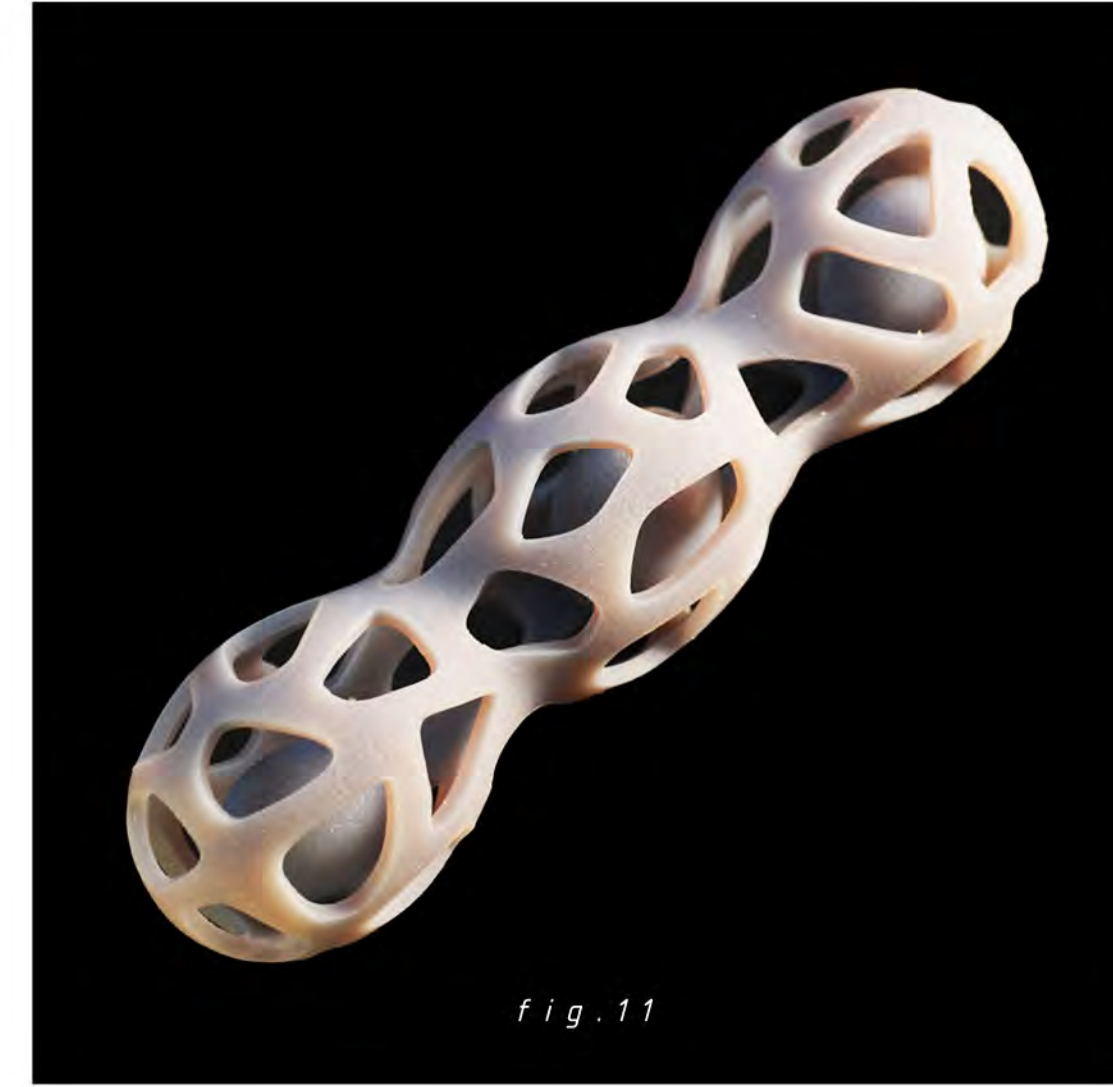


fig.11

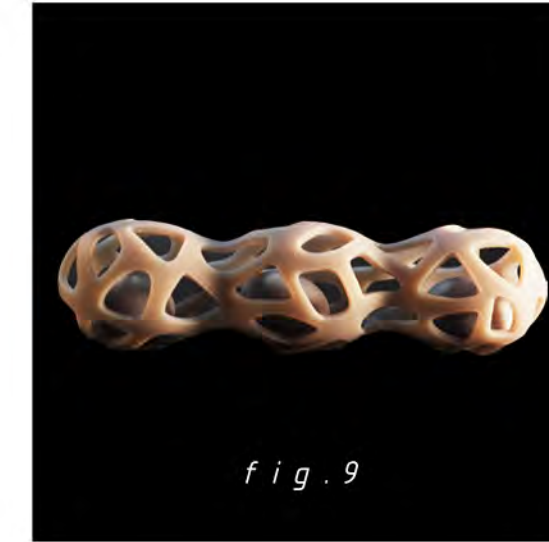


fig.9

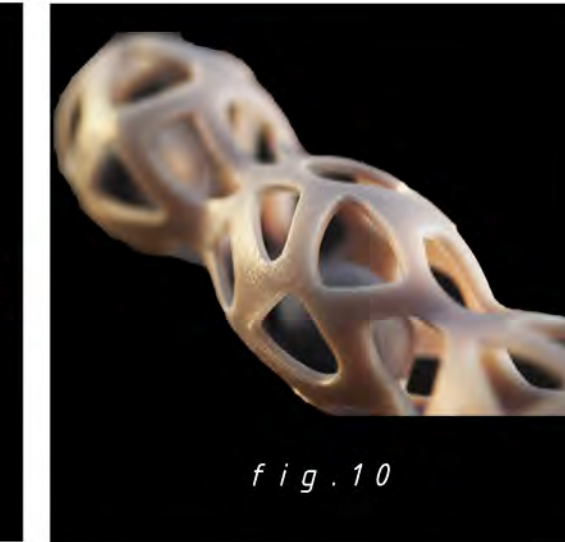


fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student: Ler Rui Qi

fig.1: Green Bean - Scale 1:1 - Dimension mm.140 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5-6: 3D Rhino Transformation Process # fig.7: 3D Rendering of chosen figure # fig.8: Four views of chosen figure. #fig.9: Final model- Side view # fig.10: Final Model- Close up perspective view # fig.11: Final Model- Top view



fig.1

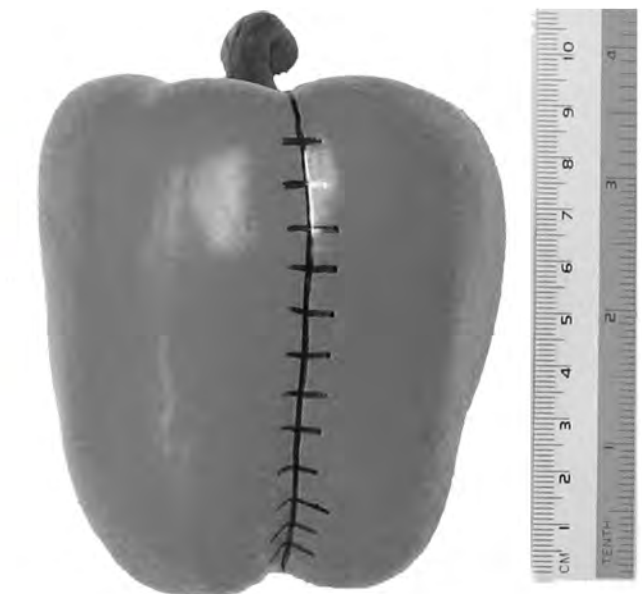


fig.2

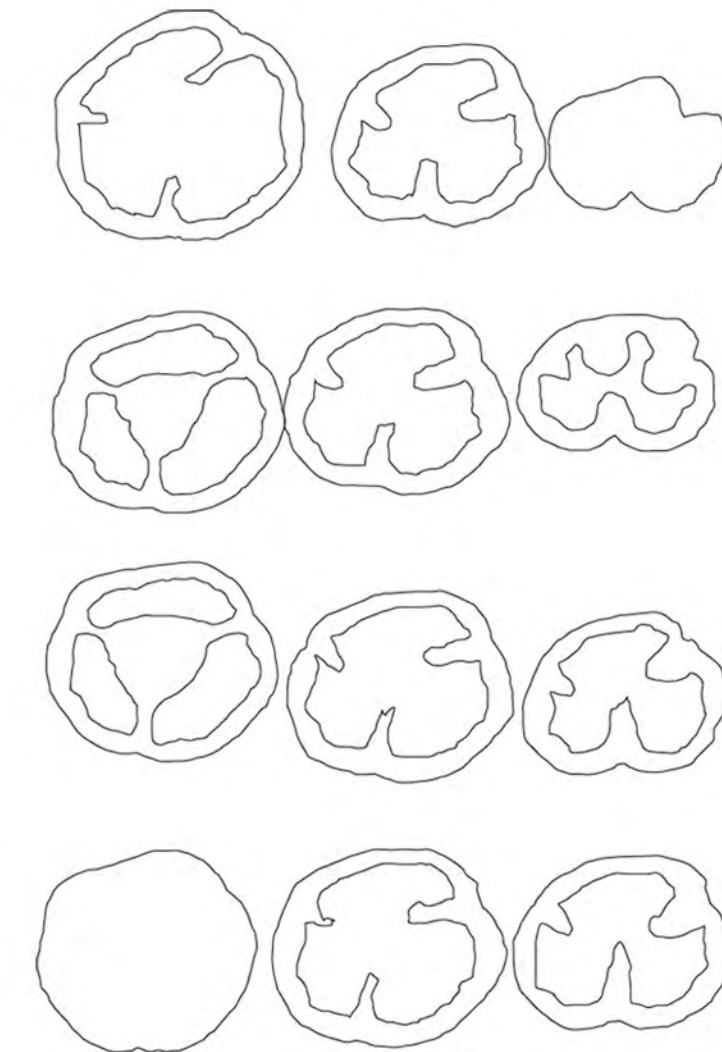
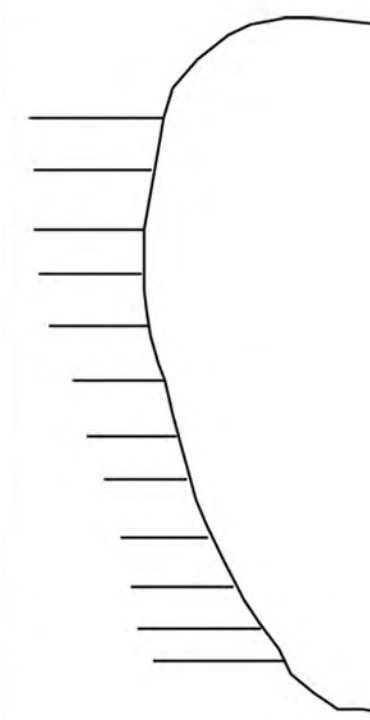


fig.3

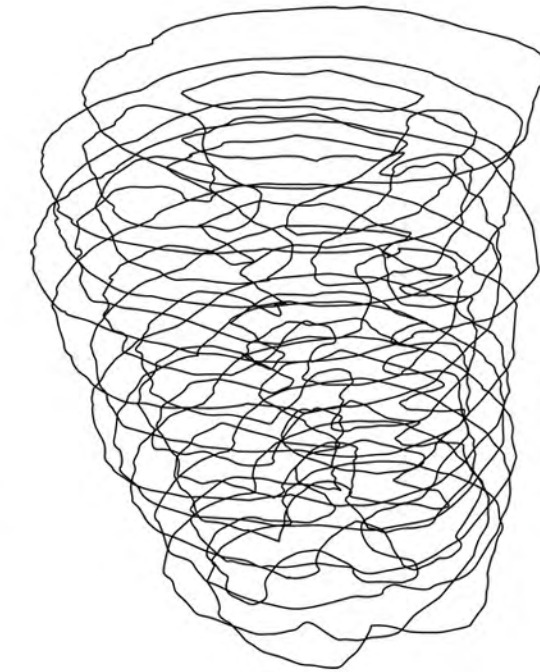


fig.4

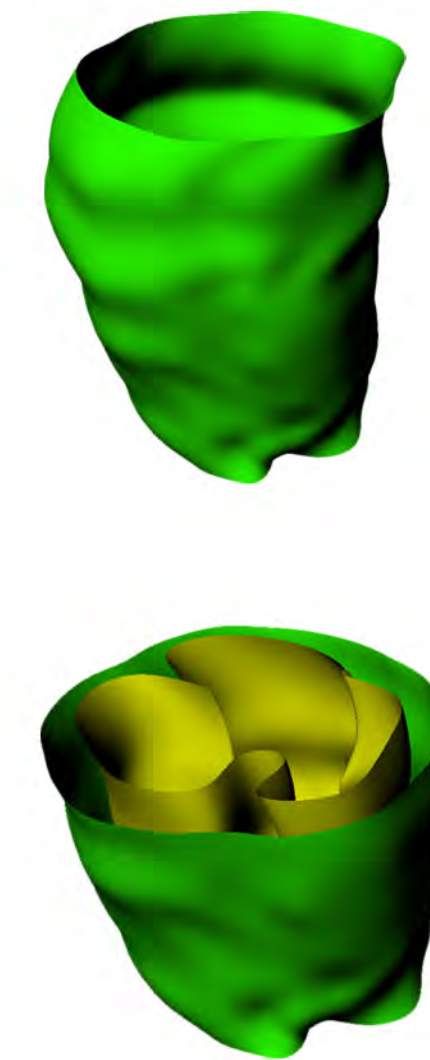


fig.5

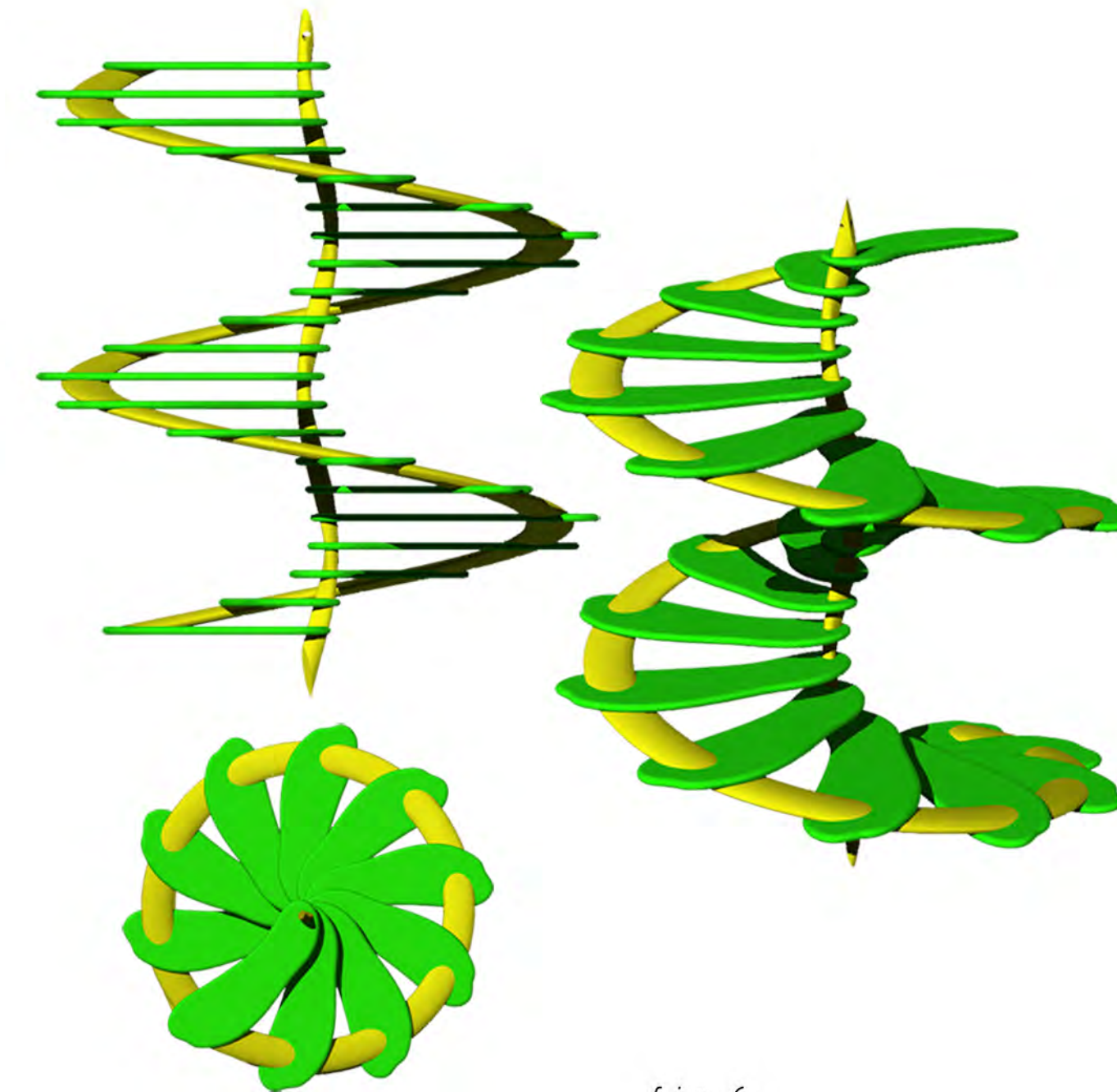
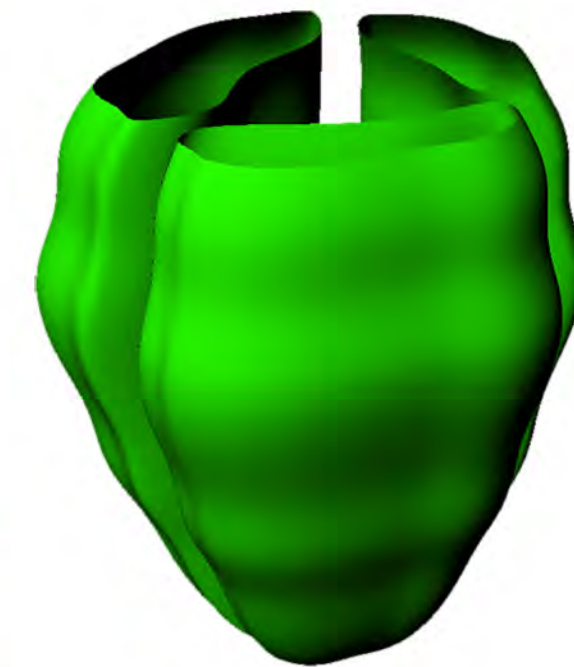


fig.6



fig.7



fig.8

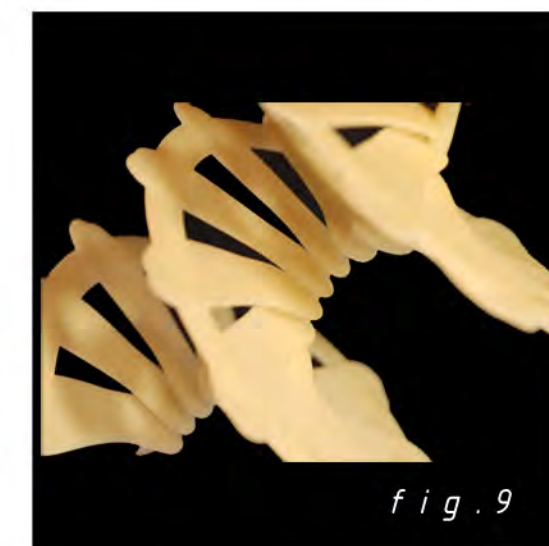


fig.9

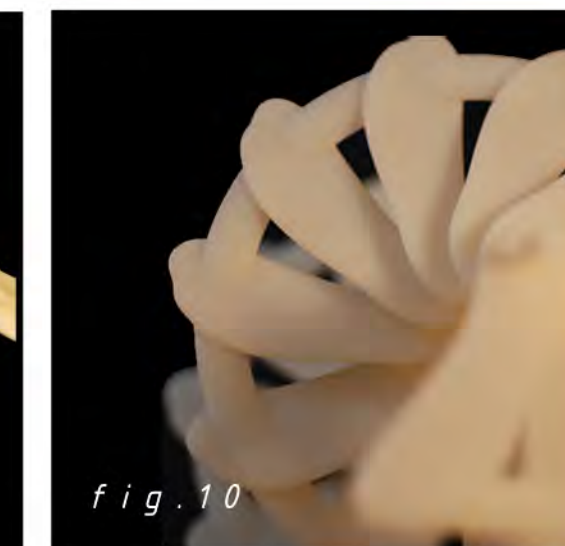


fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Rohan Routroy

fig.1: Pepper Capsicum - Scale 1:1 - Dimension mm.101 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6:3D Renderings # fig.7: Image from Rapid Prototyping Process # fig.8-9-10:Final Output Images



fig.1



fig.2

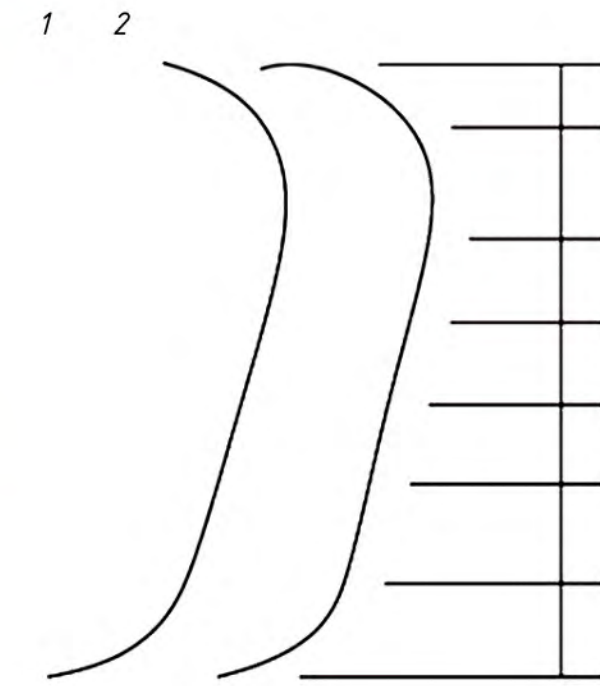


fig.3

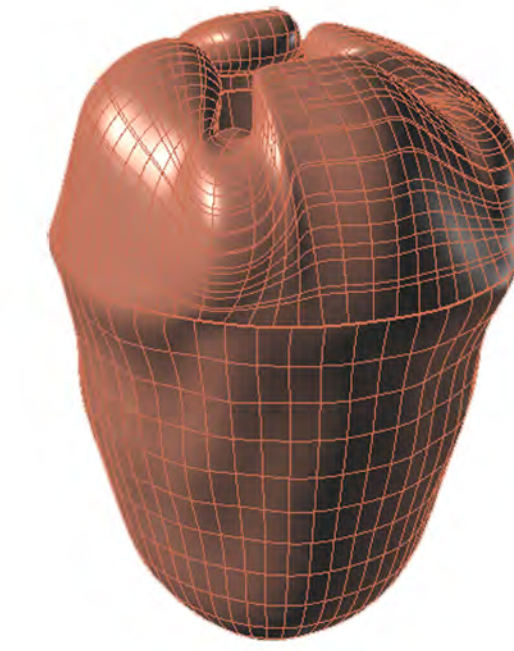
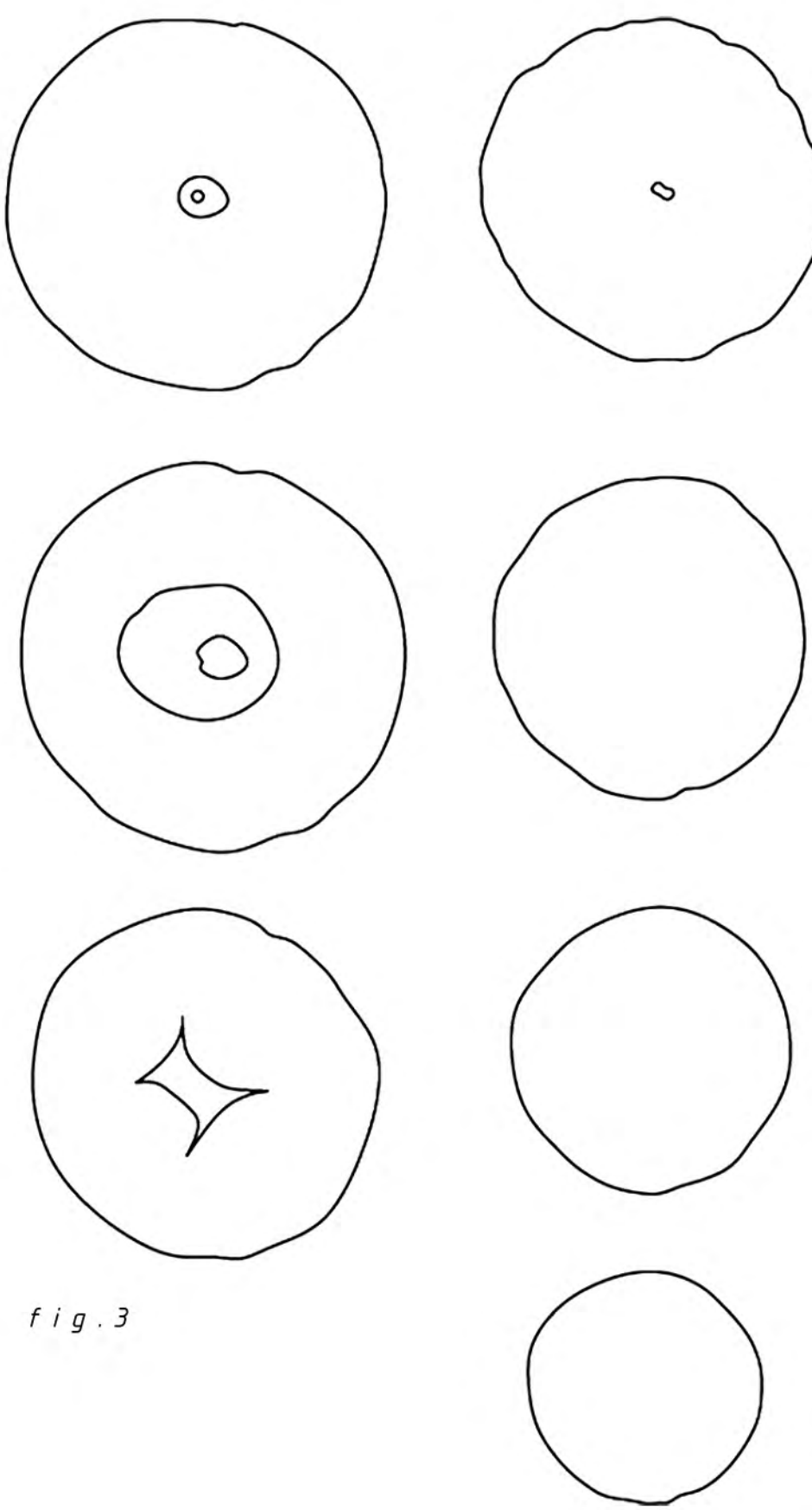


fig.4

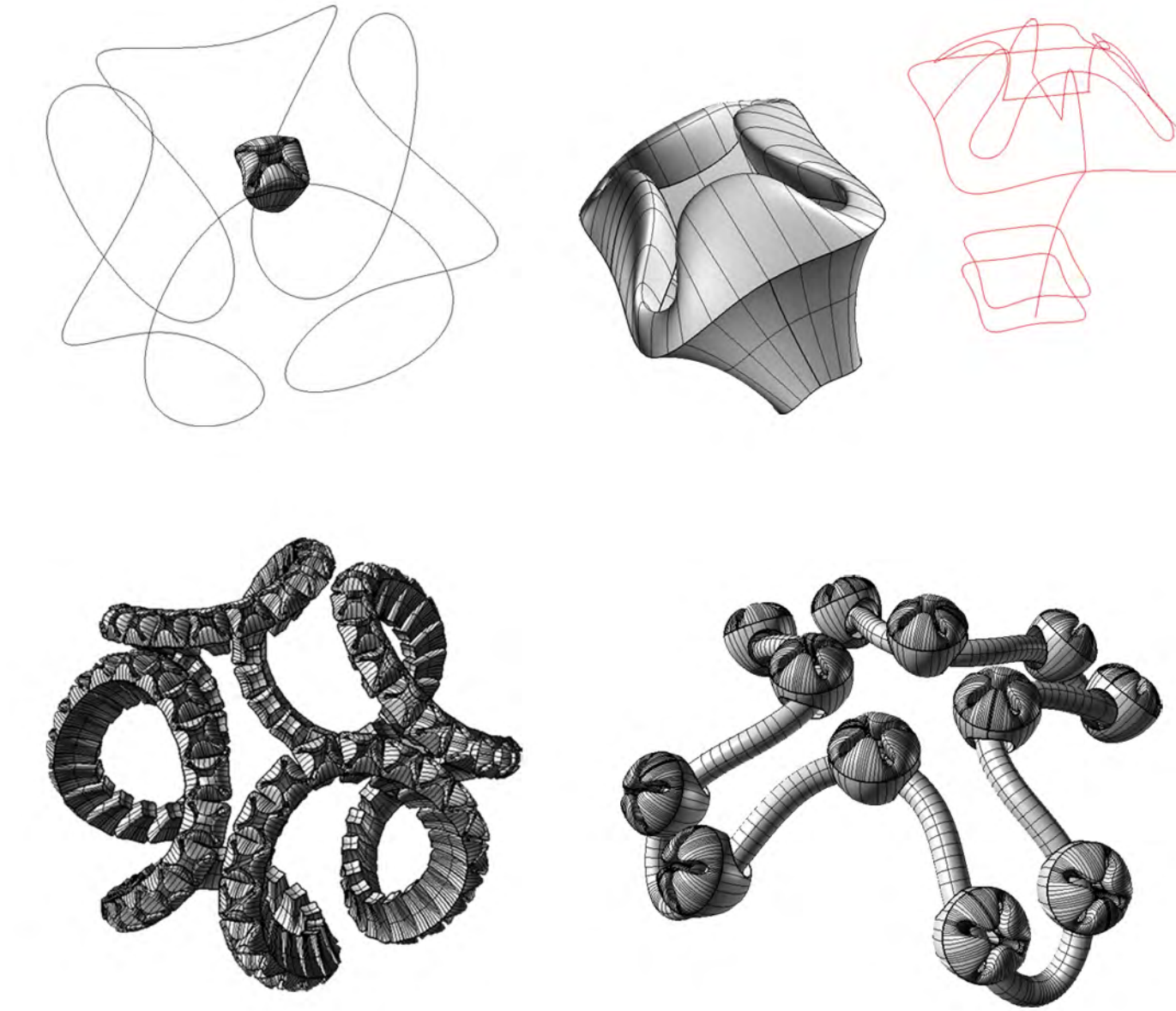


fig.5

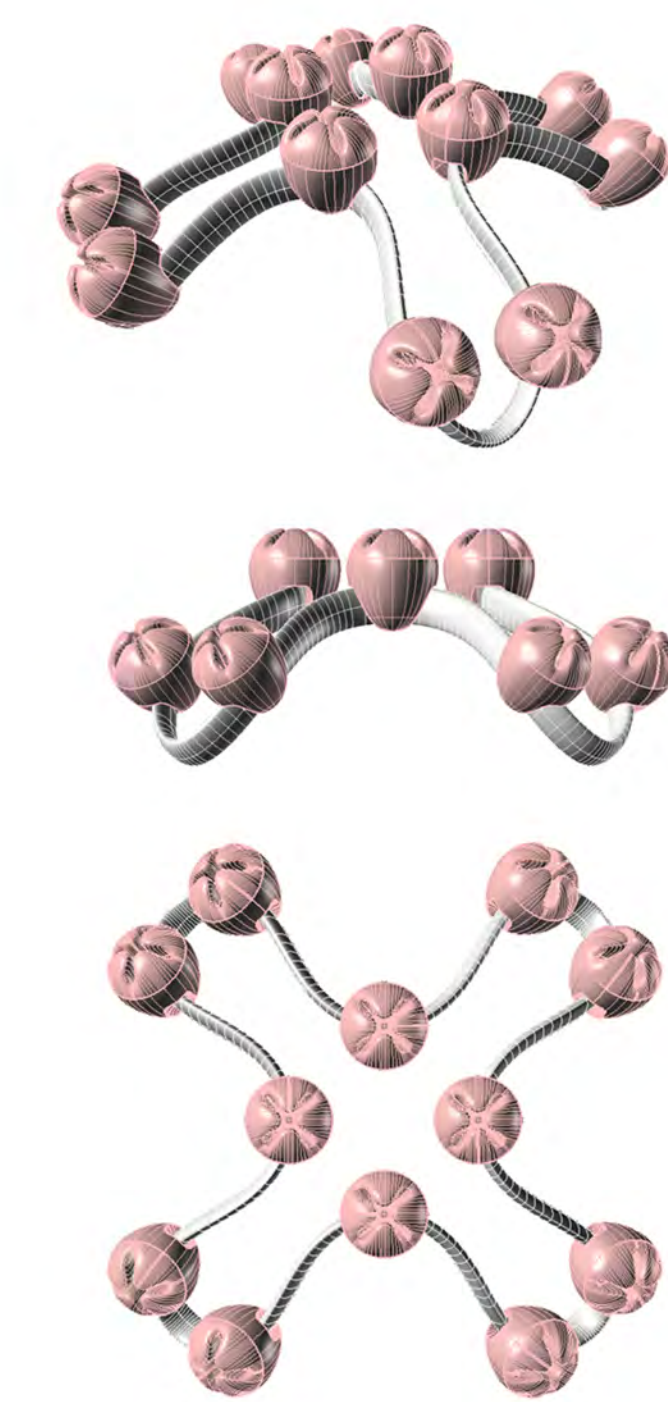


fig.6

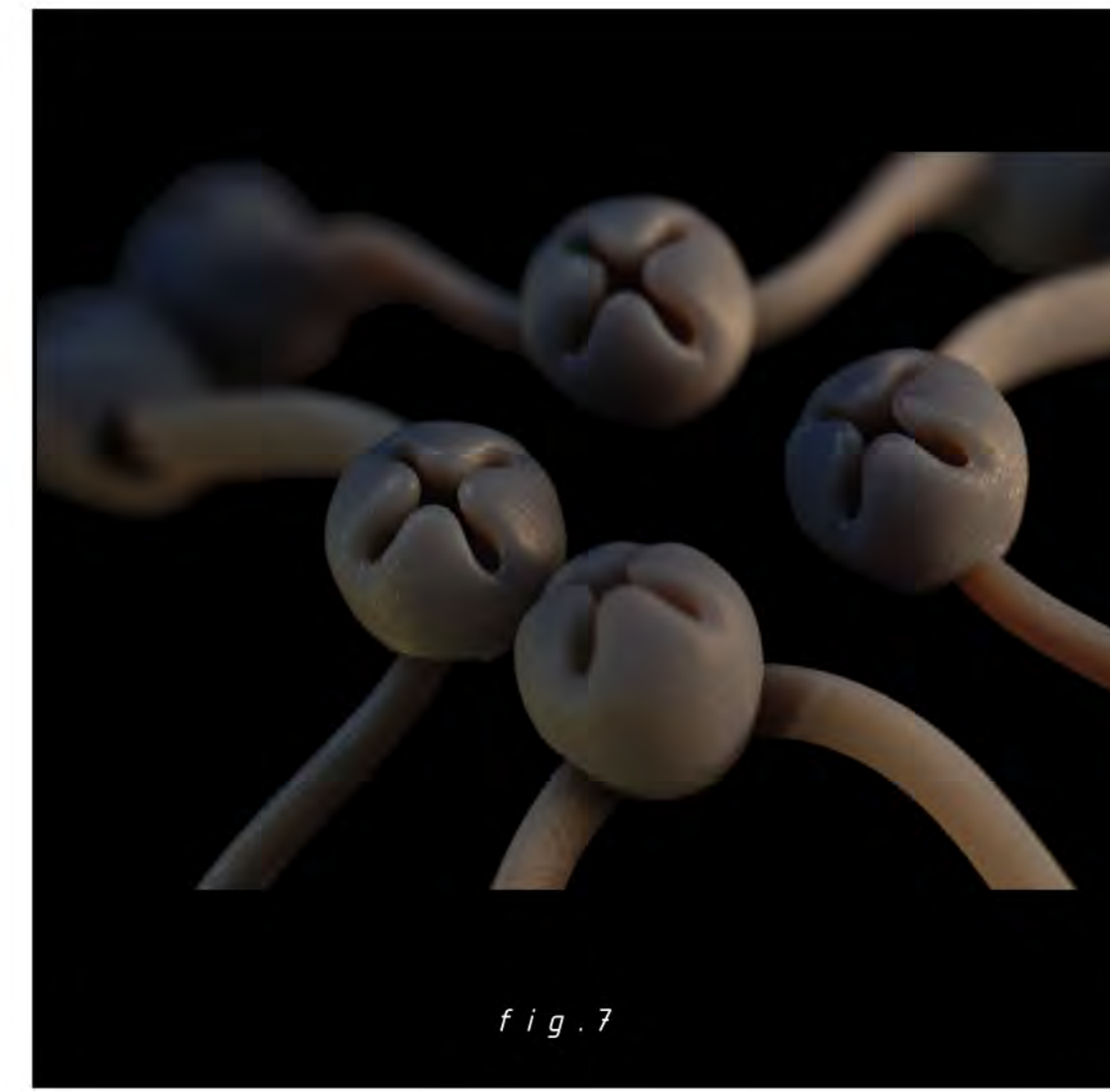


fig.7

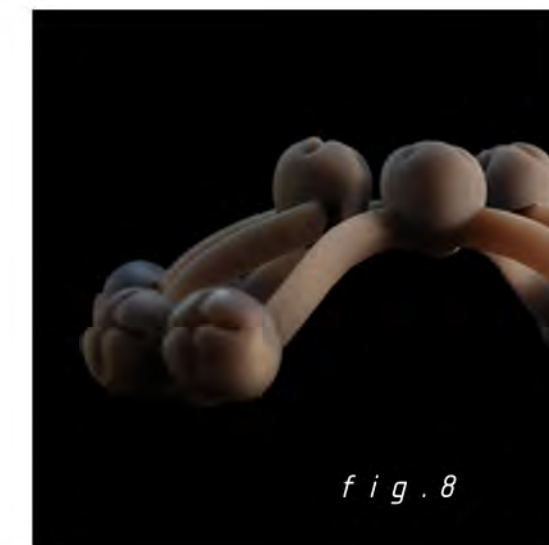


fig.8

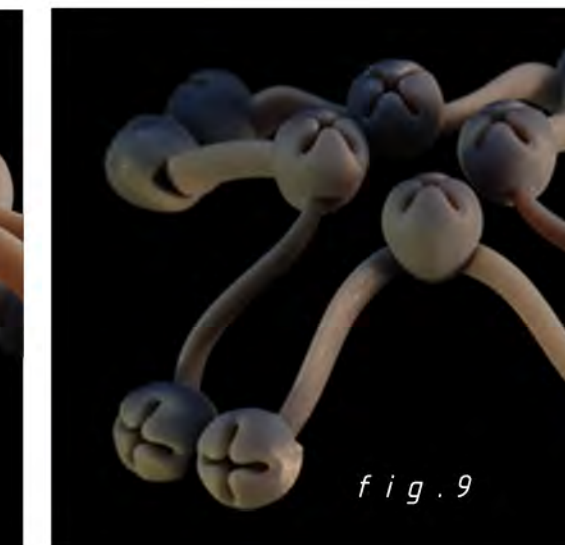


fig.9

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Parimala D/O Sivaraj

fig.1: Rose Apple - Scale 1:1 - Dimension mm.90 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Renderings # fig.7: Images from CNC/RP Process # fig.8: Final Output Image # fig.9: Final Output Image # fig.10: Final Output Image # fig.11: Final Output Image # fig.12: Final Output Image

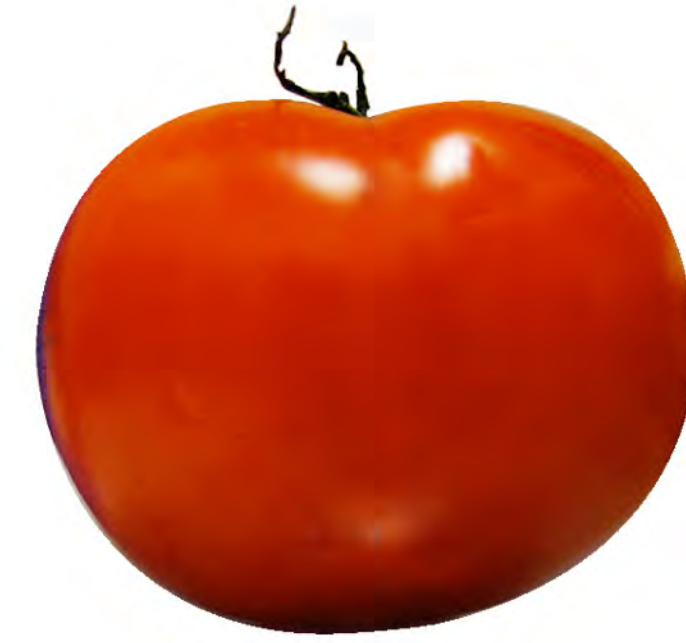


fig.1

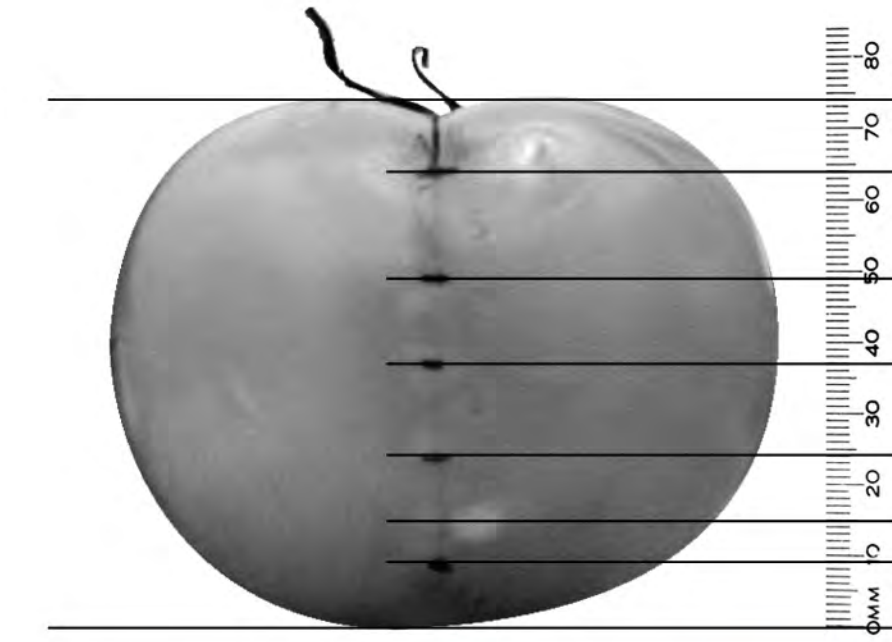


fig.2



fig.3

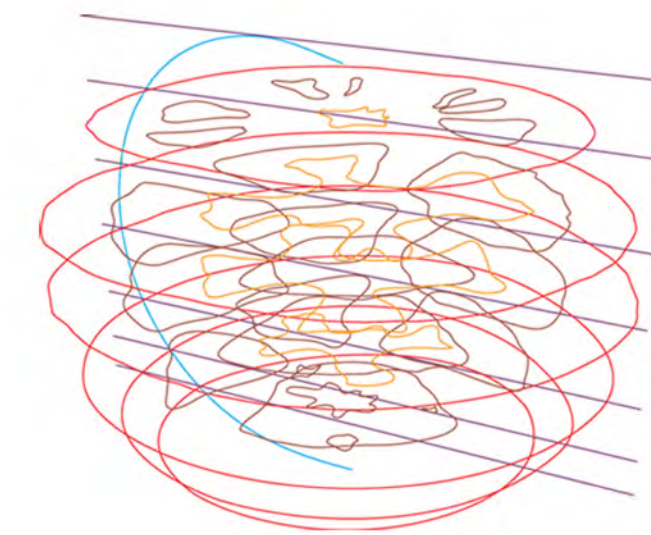


fig.4

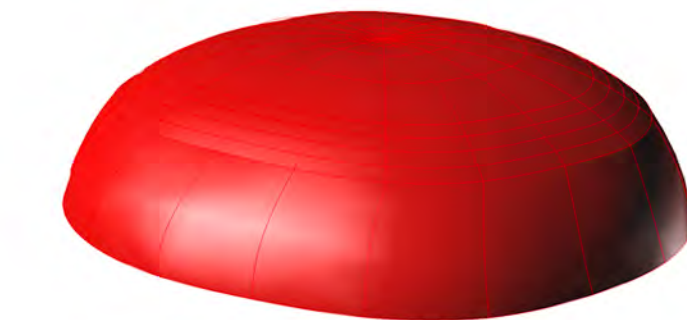


fig.5



fig.6

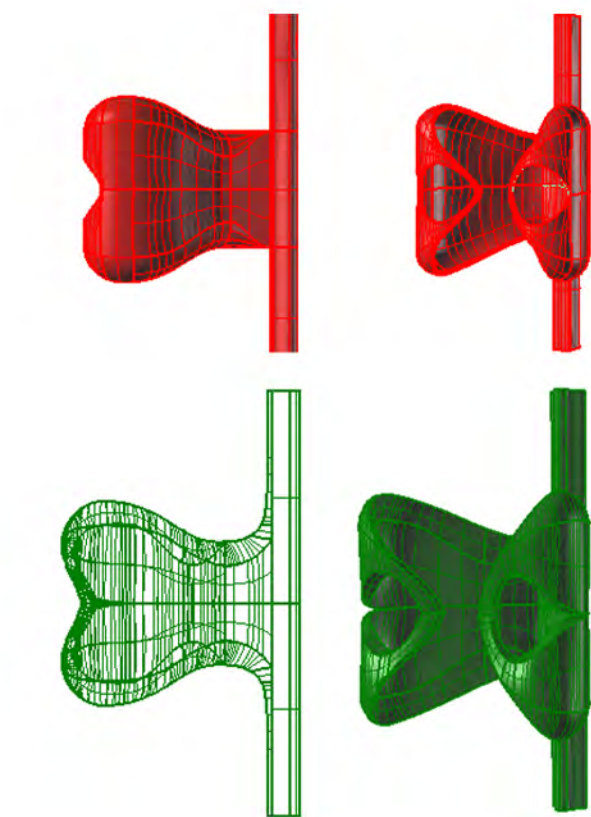


fig.7

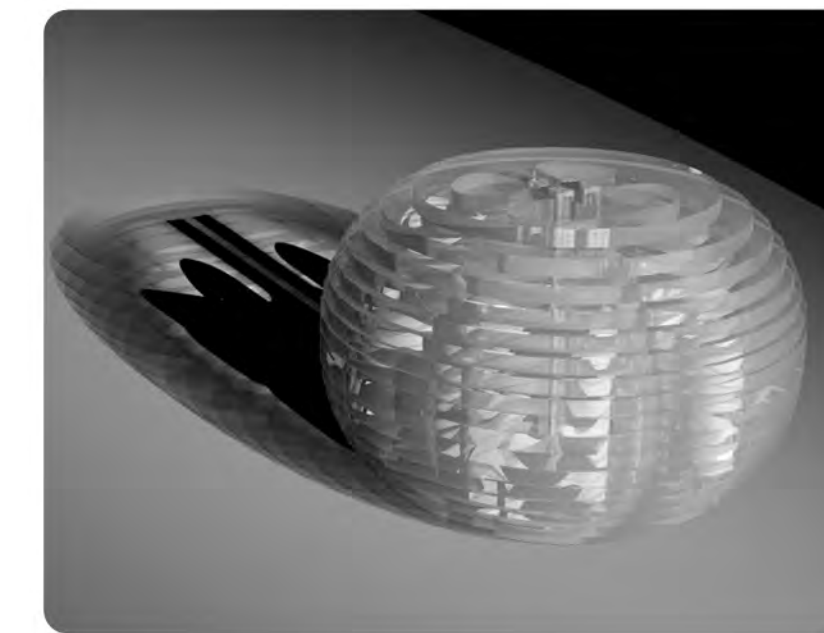


fig.8



fig.9



fig.10

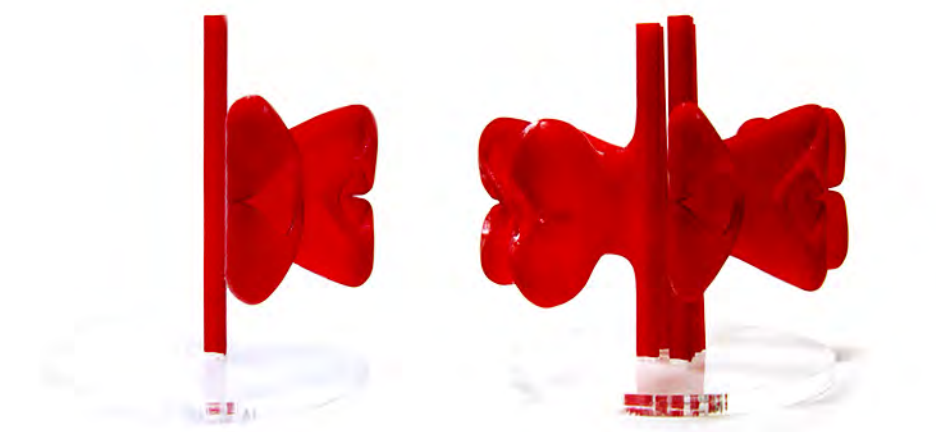


fig.11

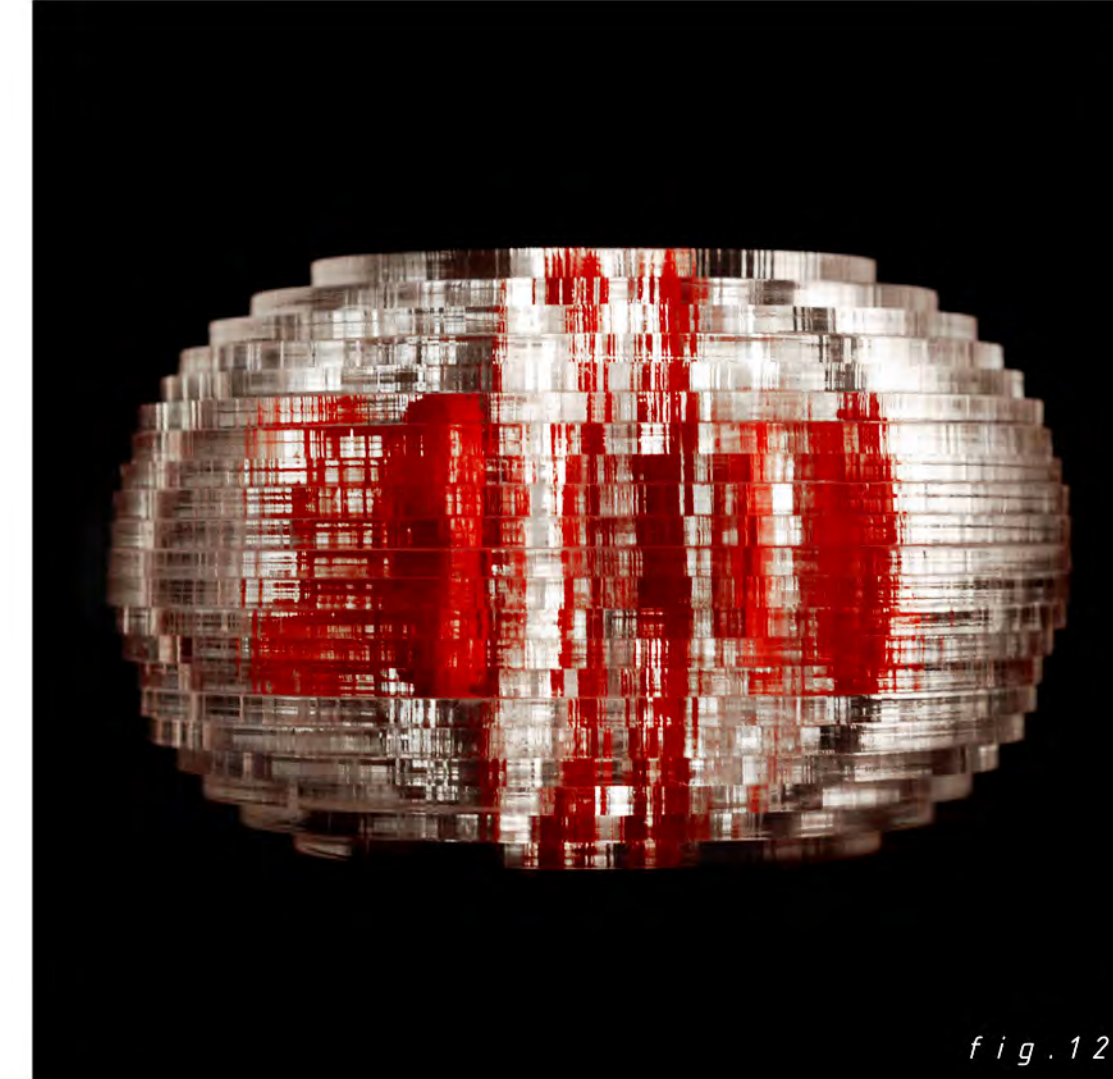


fig.12

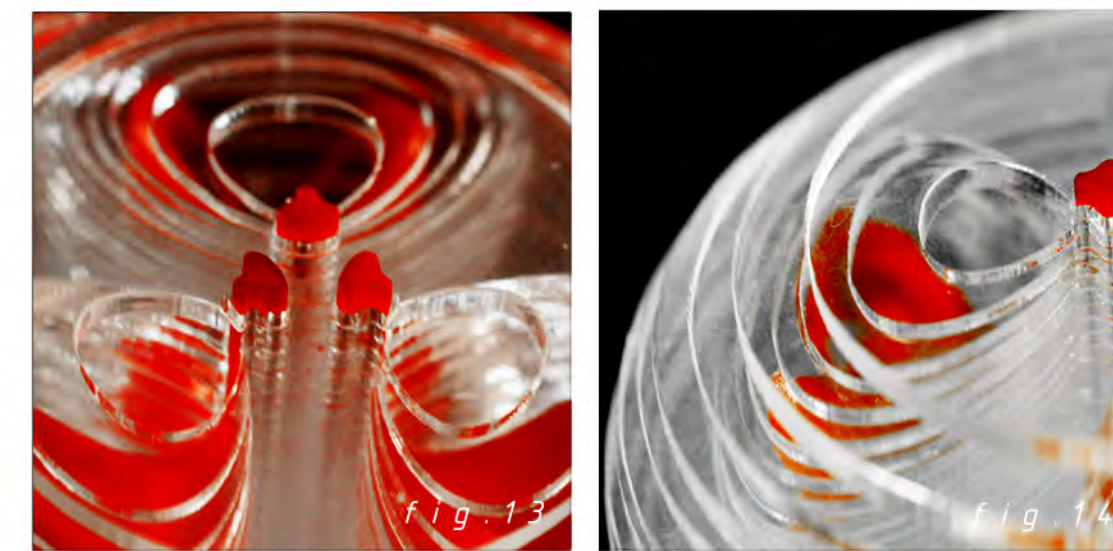


fig.13

fig.14

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Nur'Iffah Sa'adon

fig.1: Beef Steak Tomato - Scale 1:1 - Dimension mm.74 # fig.2: Photoscan - Scale 1:2- Cross-sections # fig.3: Points and Sections - Cross-sections trace - Scale 1:2 # fig.4: 2D Reconstruction # fig.5: 3D Rhino Construction # fig.6: Different permutations of negative space 1 # fig.7: Development of structure based on negative space # fig.8: 3D Rhino Rendering # Fig 9: RP Printed Piece # Fig 10: Printed Piece (after cleaning process) # Fig 11: Final Pieces Arranged # Fig 12-13-14 : Rapid Prototyping + Laser Cutting final assembling images



fig.1



fig.2

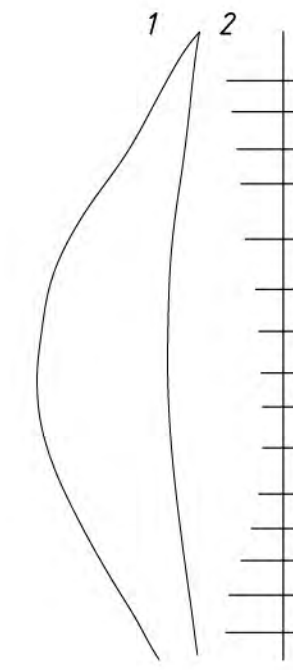
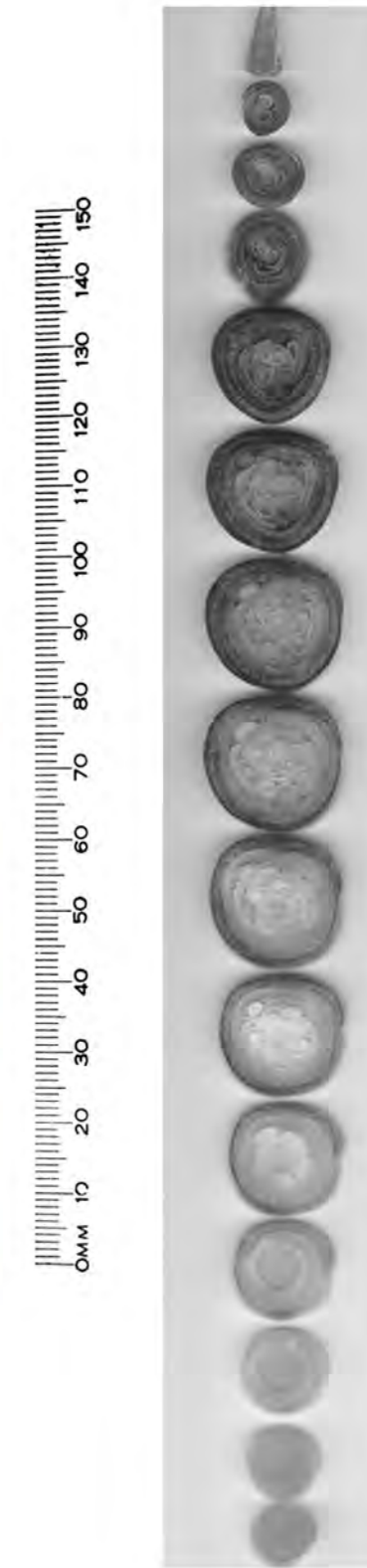


fig.3

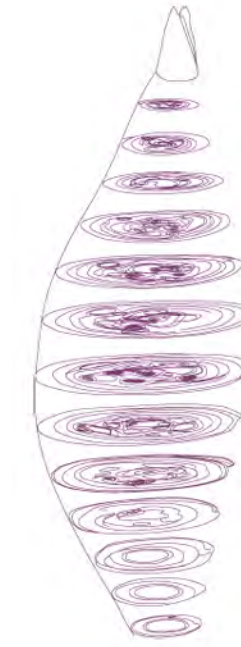


fig.4

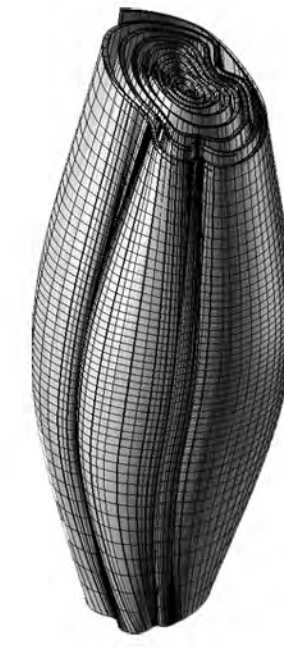
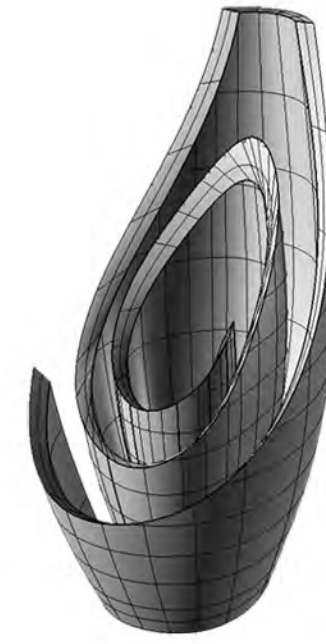


fig.5

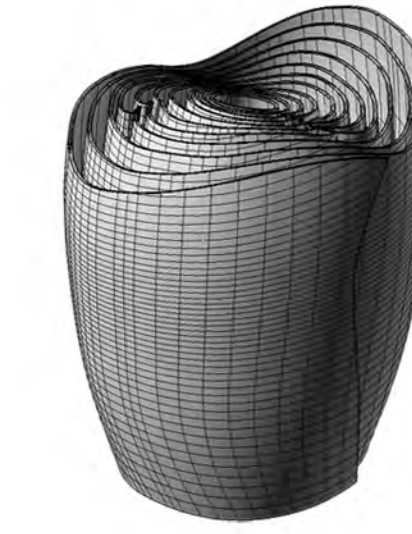
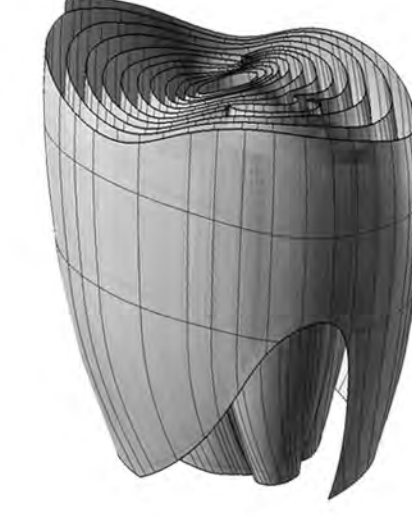
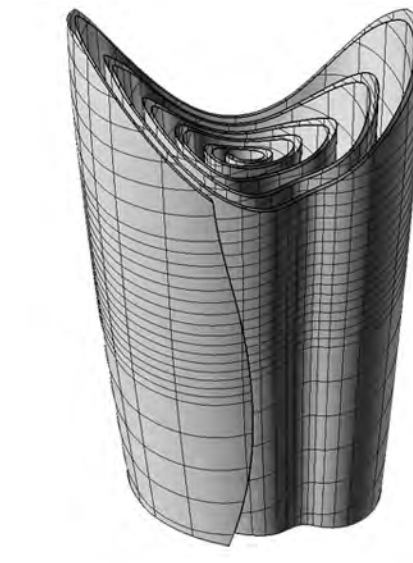
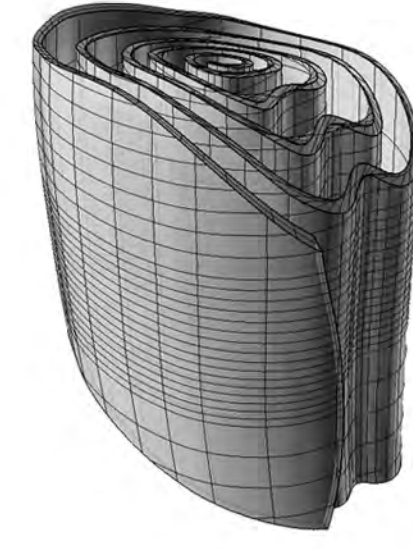


fig.6

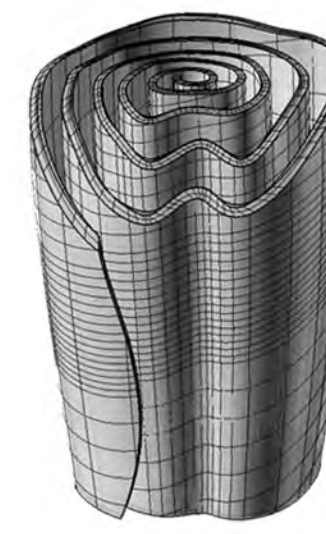
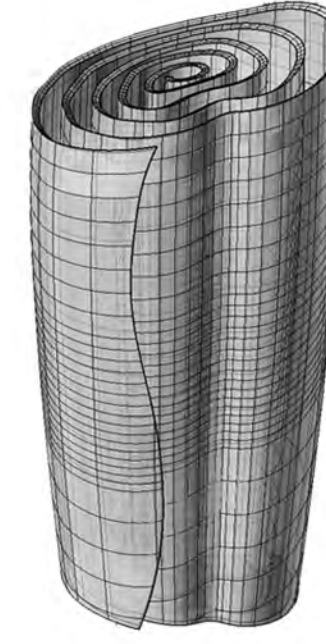


fig.7



fig.8



fig.9



fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Nicole Ning

fig.1: Myoga - Scale 1:1 - Dimension mm.89 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process - Exploration of internal spiral forms of a Myoga # fig.6: 3D Rhino Transformation Process - Ideation of the exterior form # fig.7: 3D Renderings - Orthographic views of the final form # fig.8: Final Output Image - capturing the simplistic and sleek essence of a Myoga # fig.9: Final Output Image - front view of the form showing the clean cut edges # fig.10: Final Output Image - detailed view of internal layers



fig.2

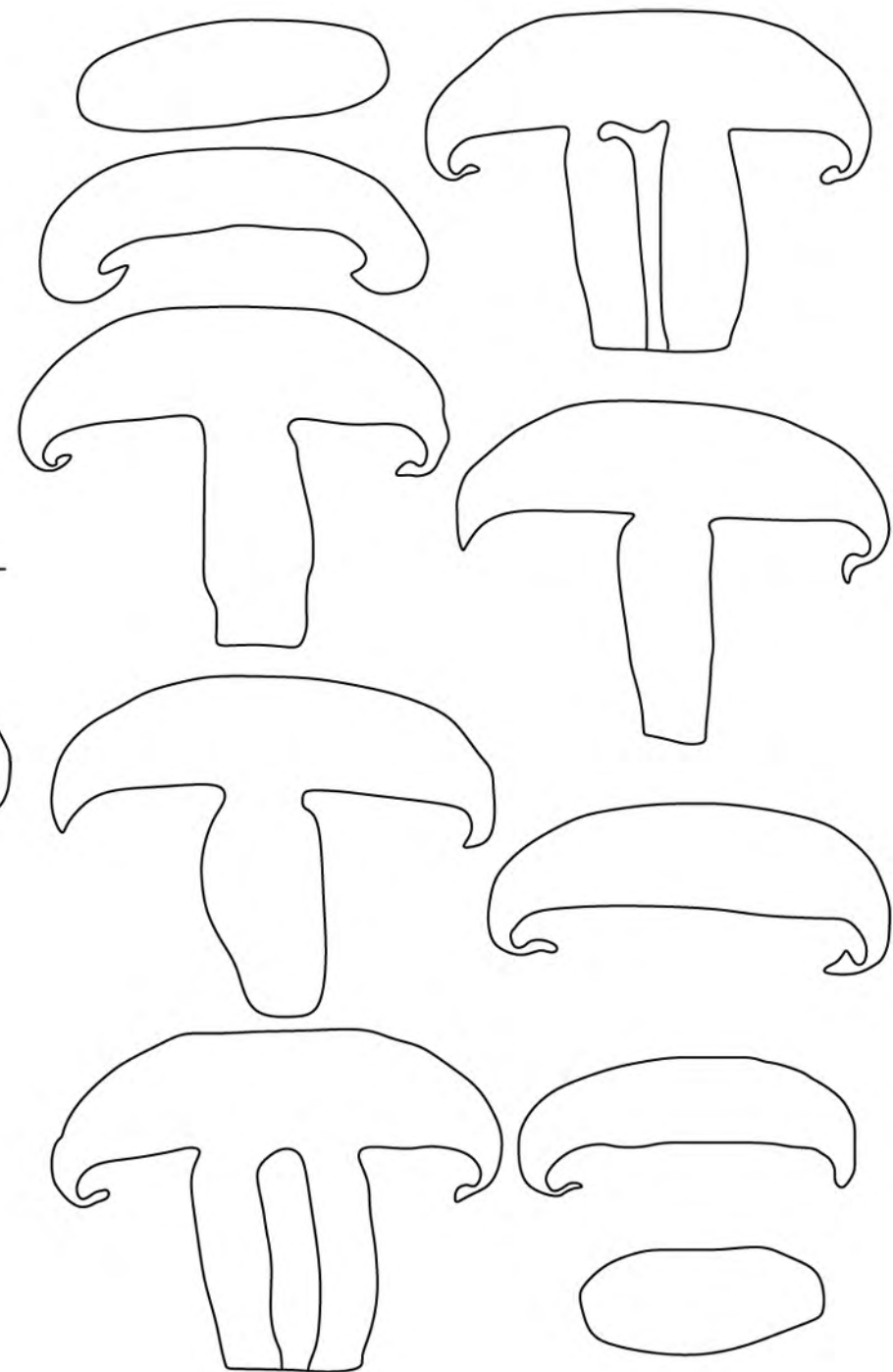
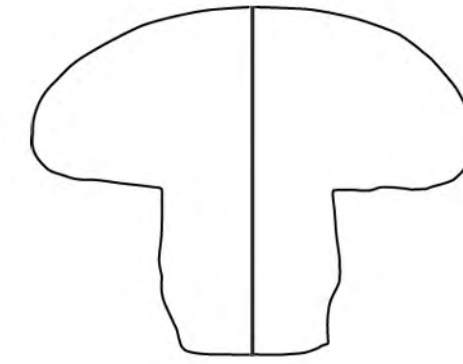


fig.3

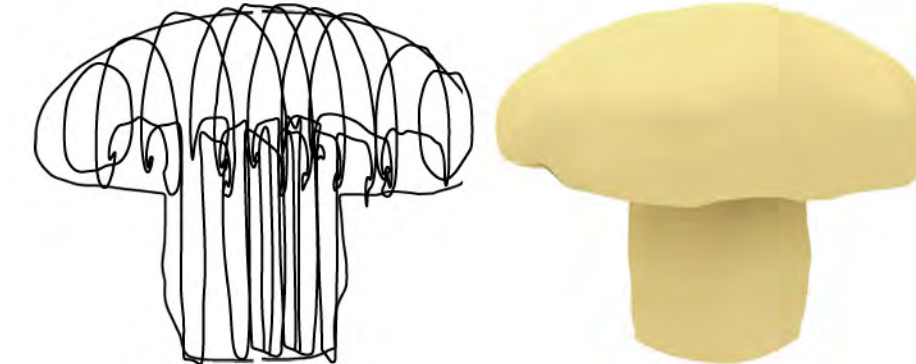


fig.4



fig.5



fig.6



fig.7



fig.8



fig.9

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student ZHAO CEN Kat

fig.1: Mushroom - Scale 1:1 - Dimension mm.60 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Renderings # fig.7: Images from RP Process - Side View # fig.8: Top View # fig.9: Detail Rapid Prototyping Print-OBJECT



fig.1

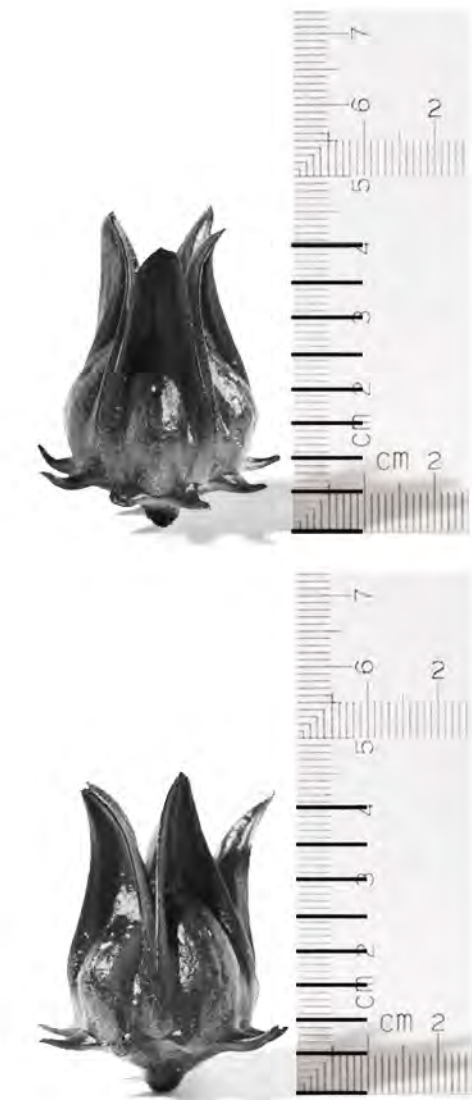


fig.2

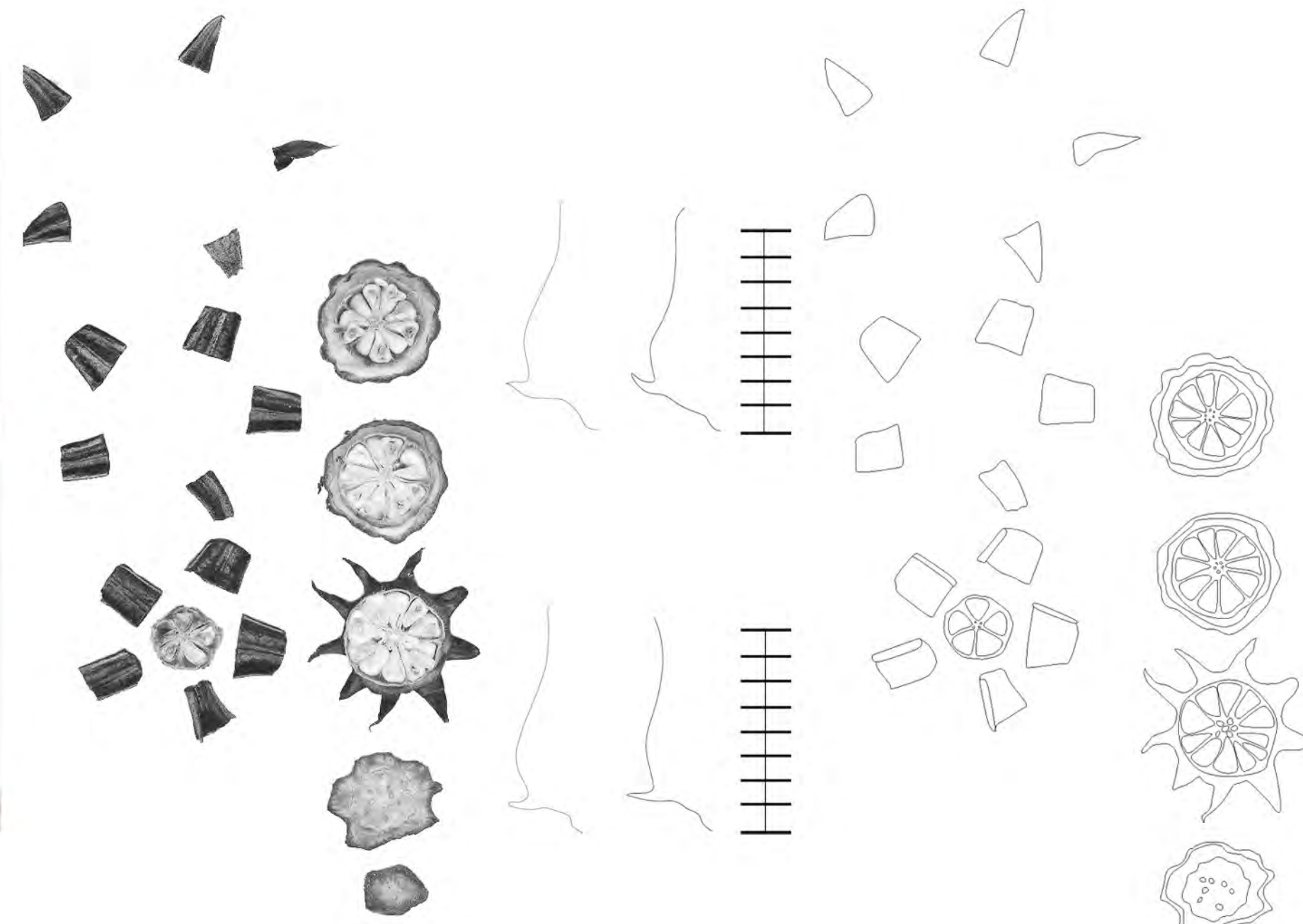


fig.3

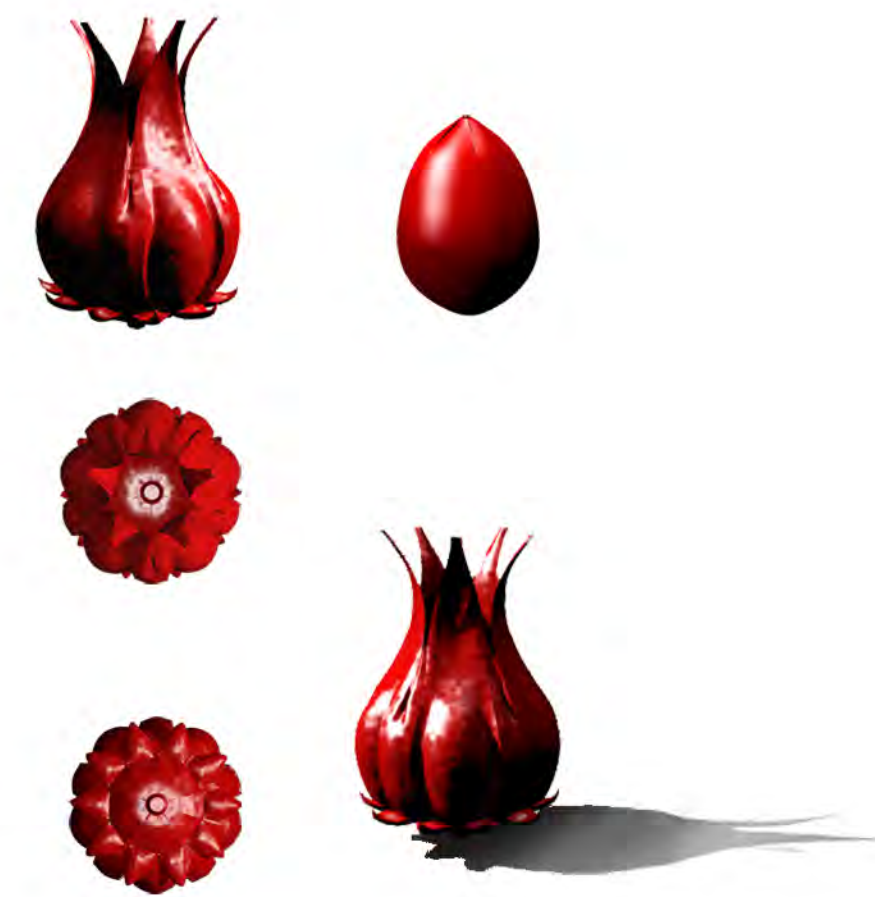


fig.4

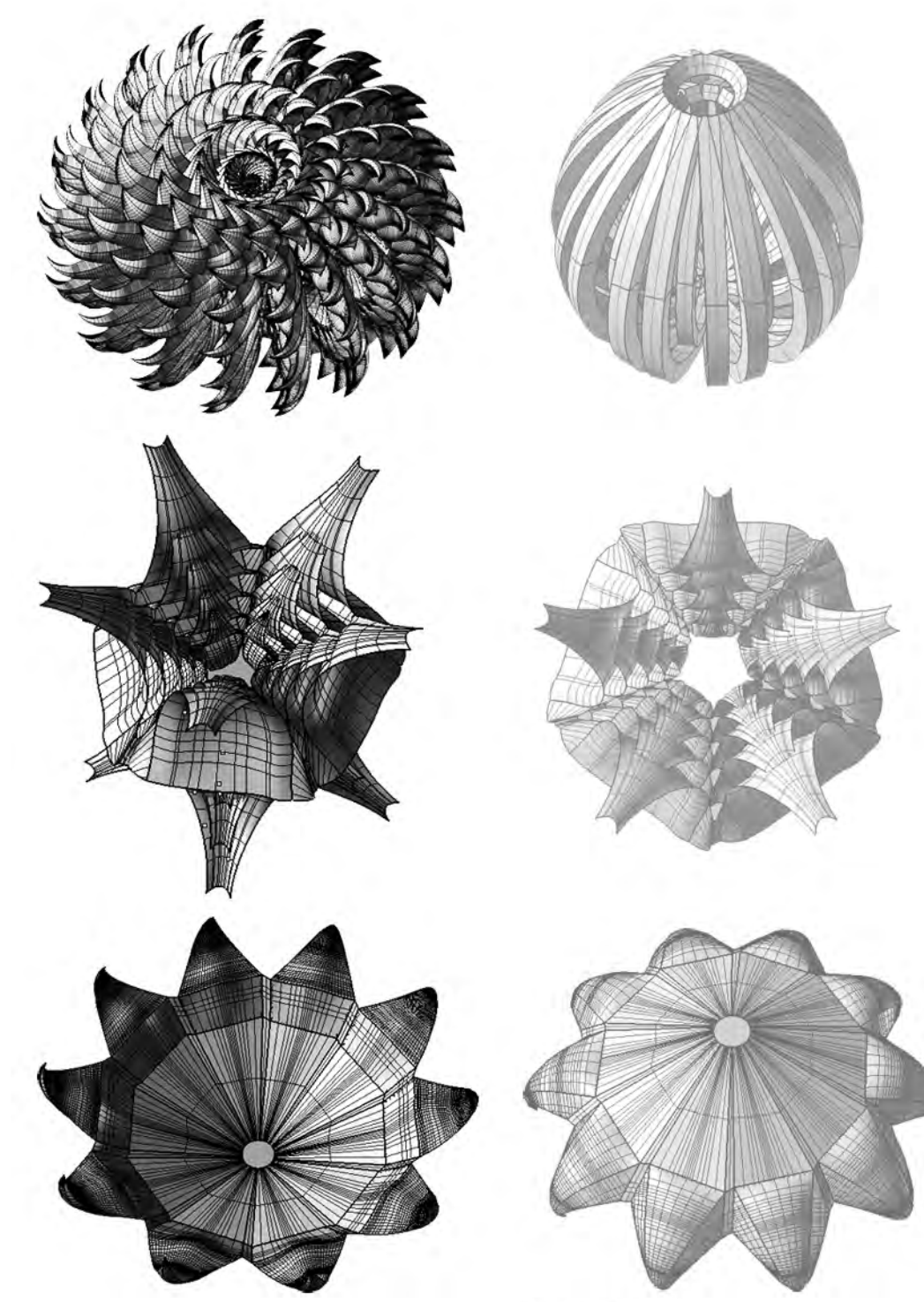


fig.5

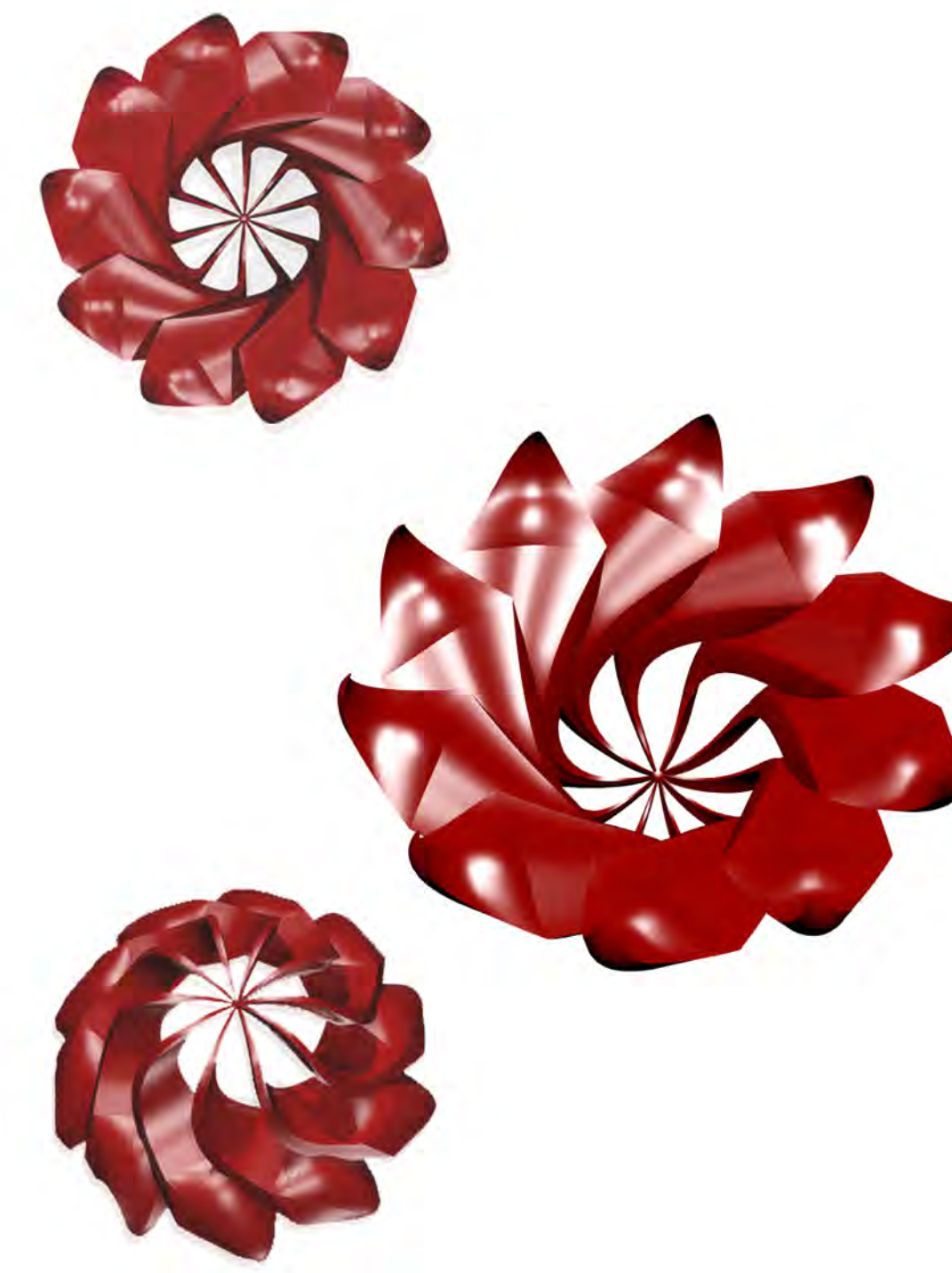


fig.6



fig.9

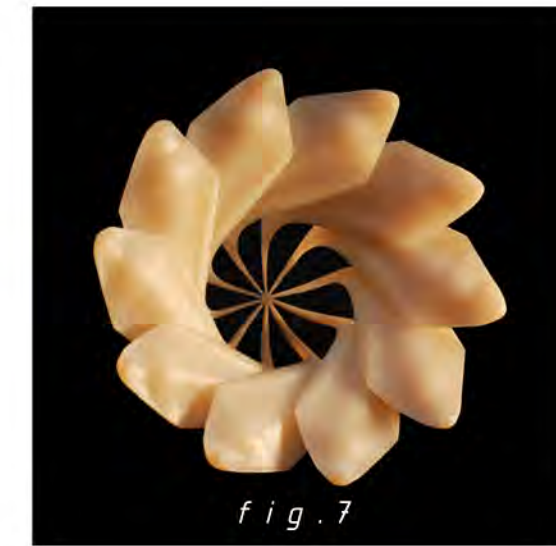


fig.7

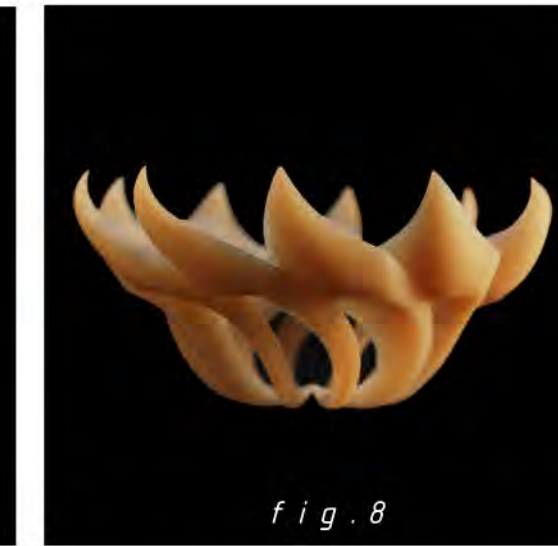
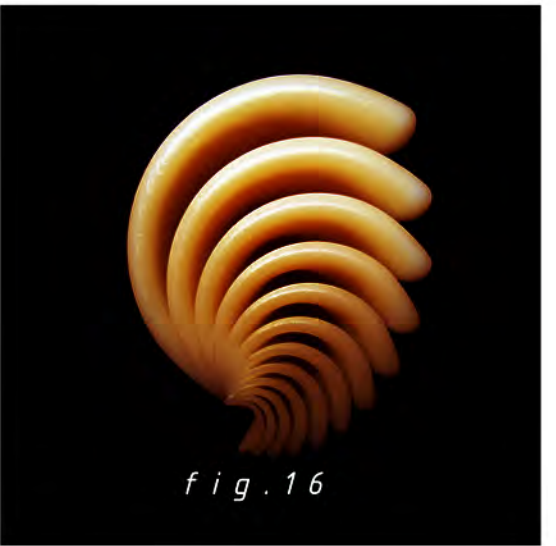
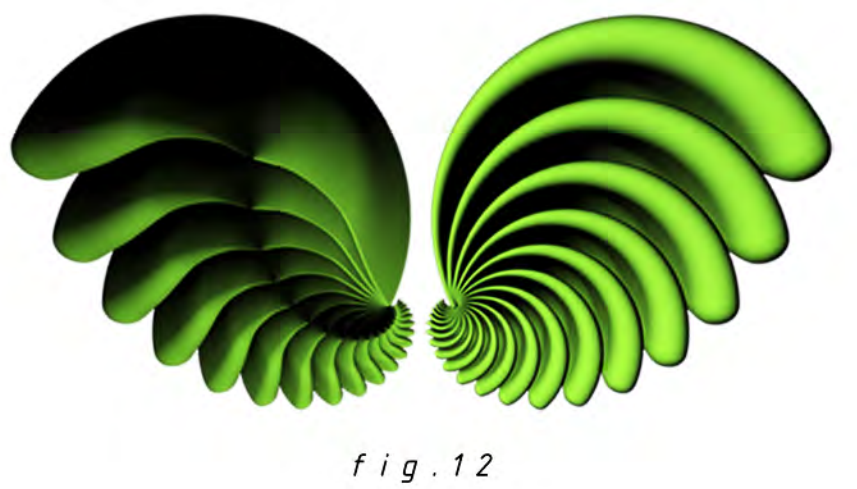
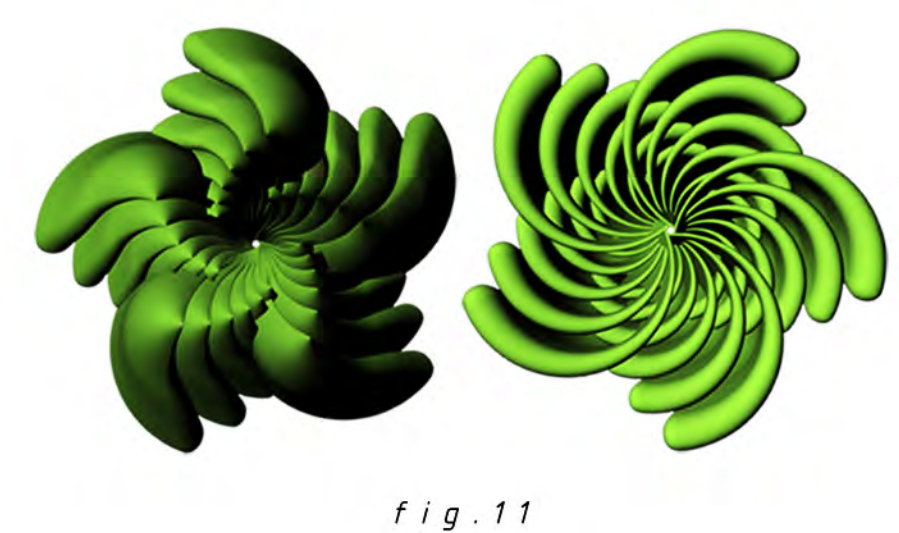
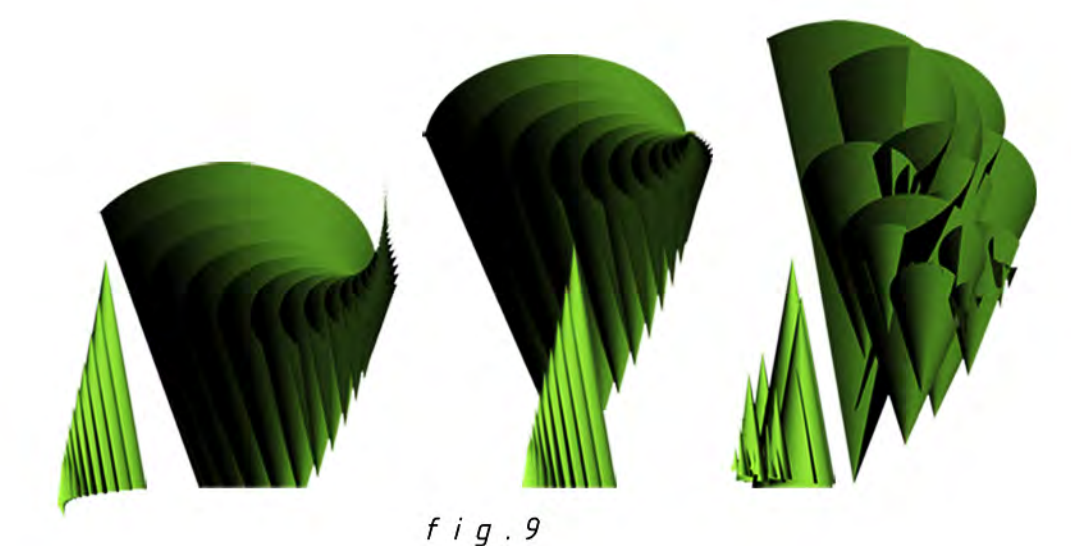
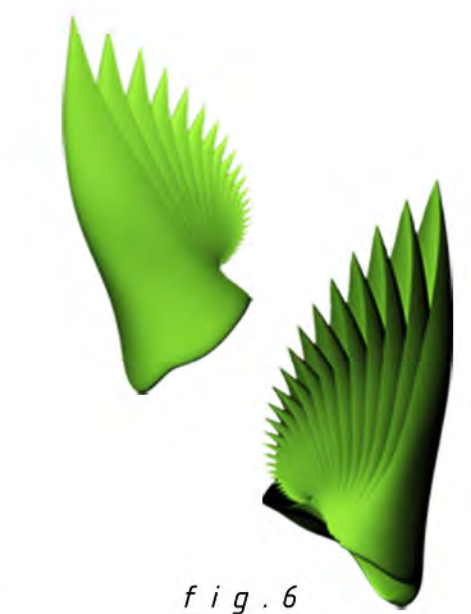
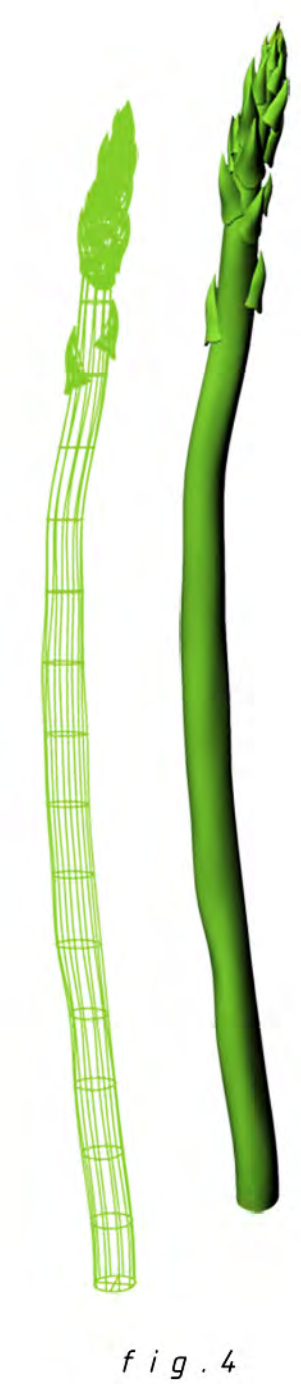
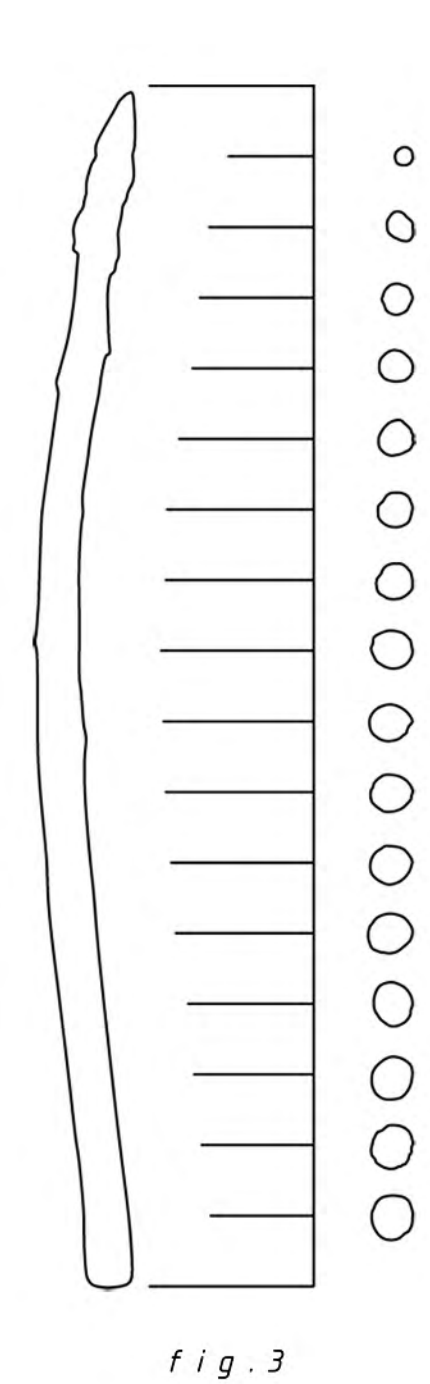


fig.8

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Kwok Kai Hwei

fig.1: Roselle - Scale 1:1 - Dimension mm 45 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process - Exploring forms which evolves around the idea blooming # fig.6: 3D Renderings # fig.7: Final Output Image # fig.8: Final Output Image # fig.9: Final Output Image



from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Nurhuda Mohamed Khamis and The Asparagus
 # fig.1: Asparagus Spear - Scale 1:1 - Dimension mm.170 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5 to fig.13: 3D Rhino Transformation Process in 3D Renderings # fig.14: Final Output Image with Reference to Fractal Imagery # fig.15 to fig.17: Final Output Image



fig.1



fig.2



in mm



fig.3

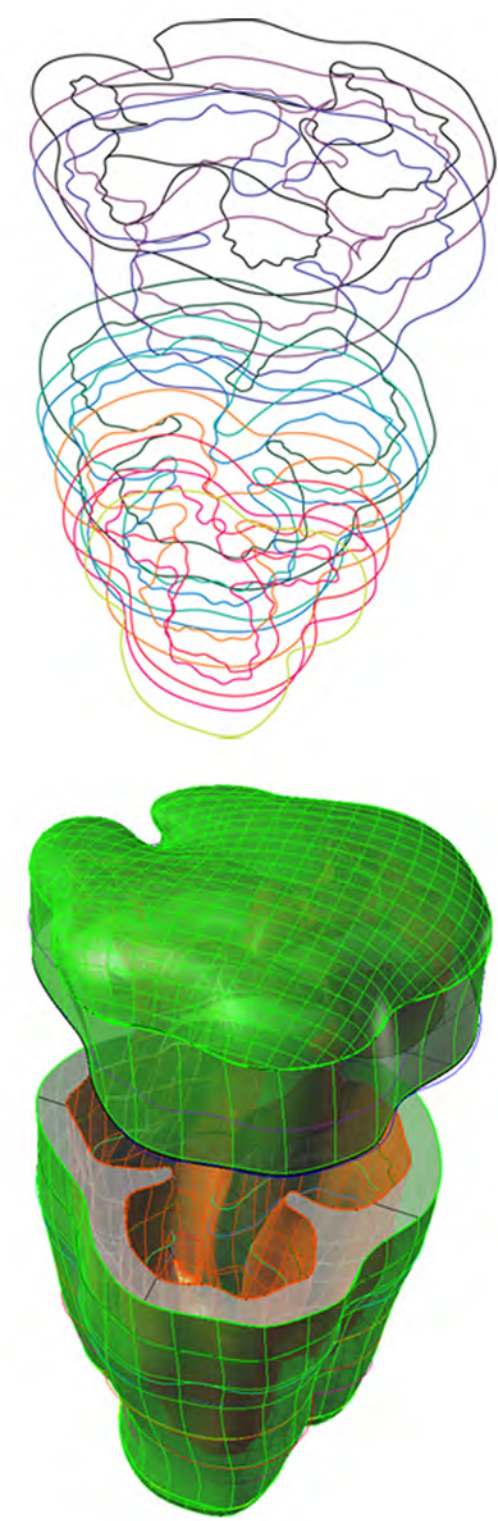


fig.4

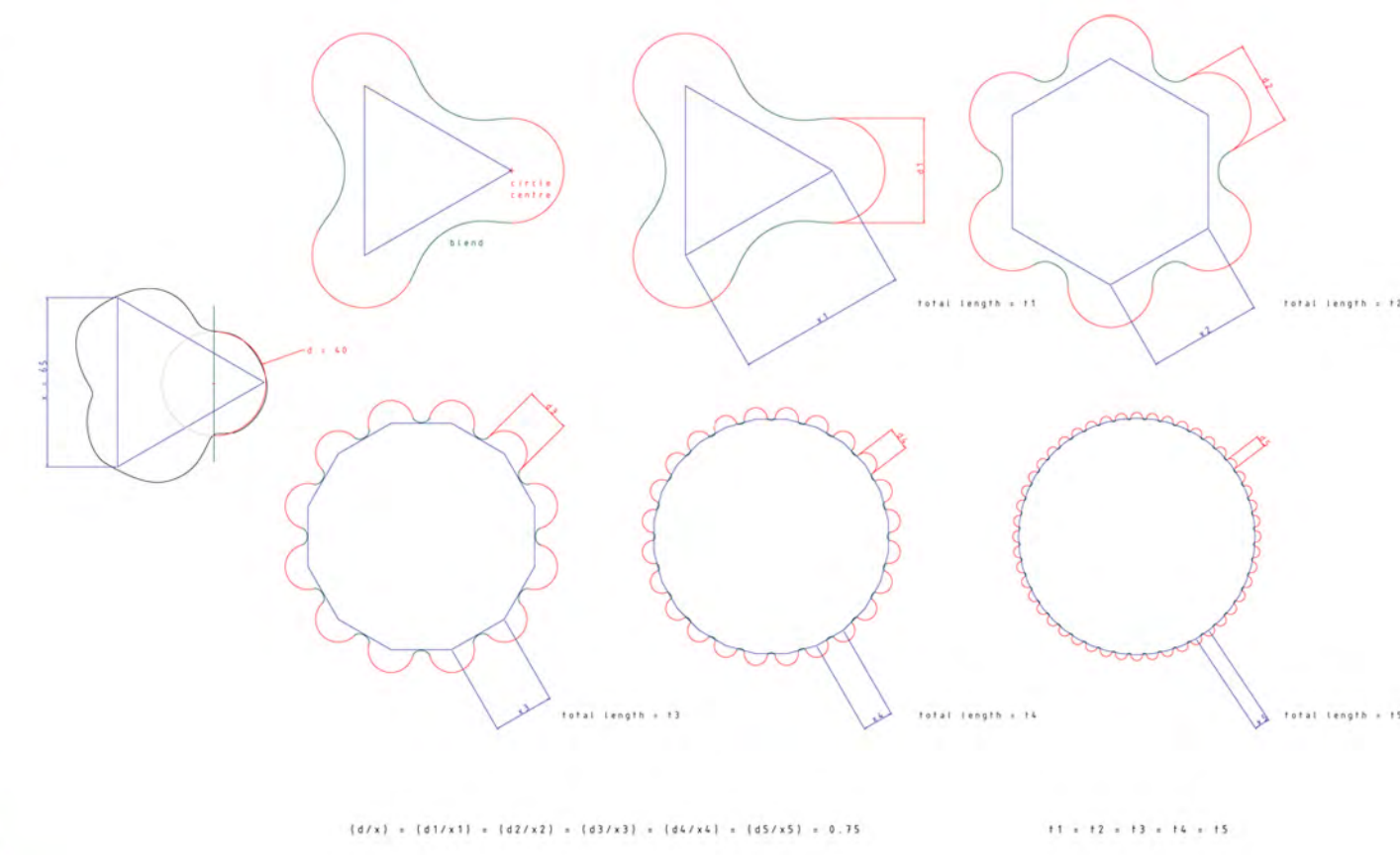


fig.5

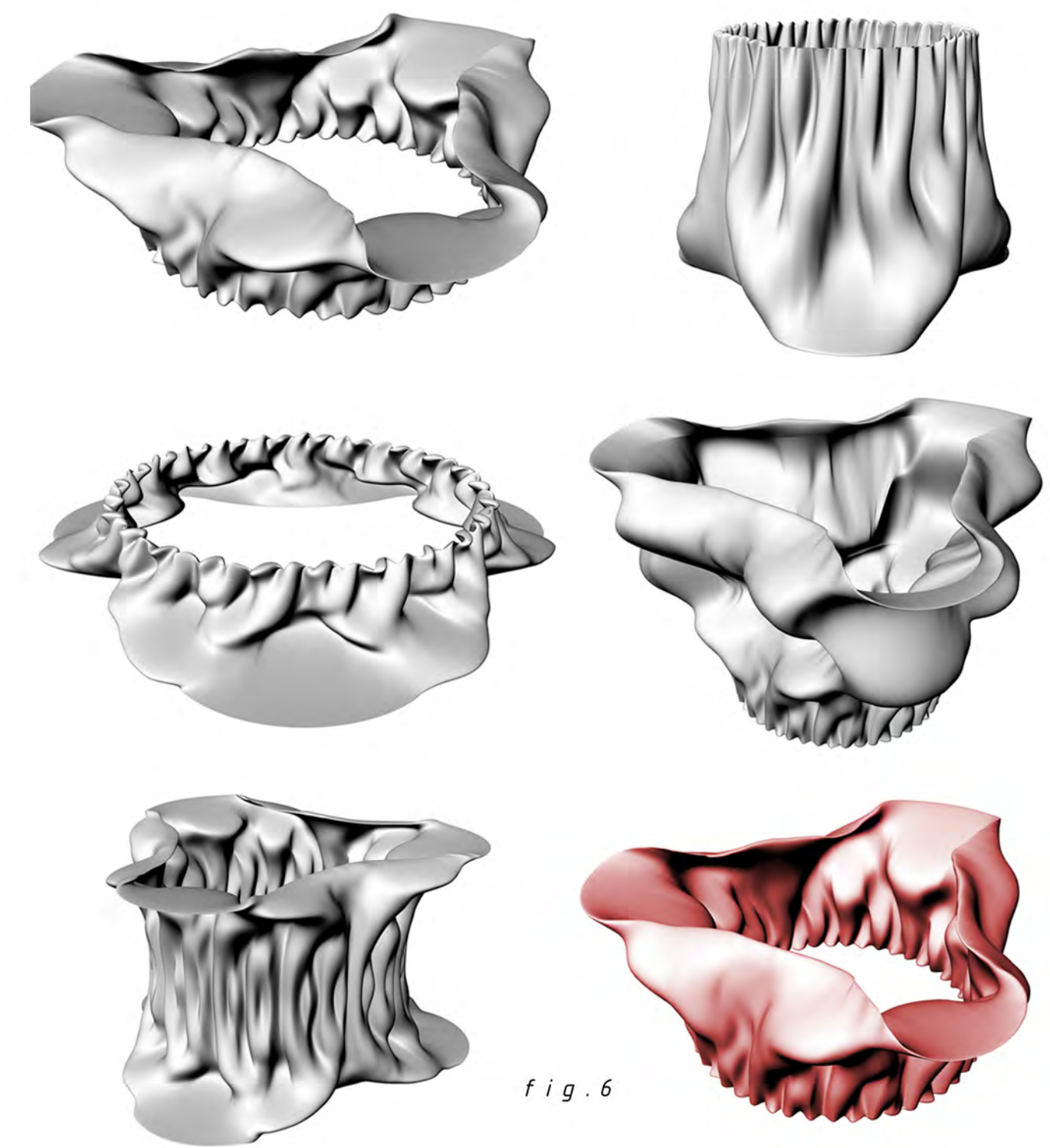


fig.6



fig.7

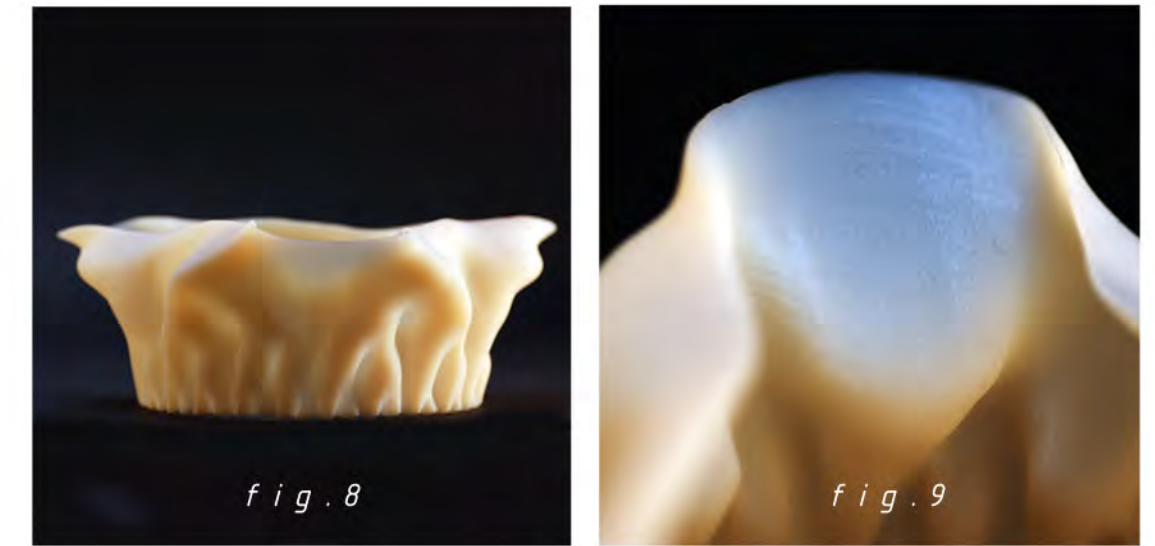


fig.8

fig.9

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Fung Kwok Pan

fig.1: Green Pepper - Scale 1:1 - Dimension mm.180 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: Principles Generated For Building The Basic 3D Surface # fig.6: Exploratory Forms Based On Basic Surface - 3D Renderings # fig.7-8-9: Final Output Rapid Prototyping



fig.1



fig.2

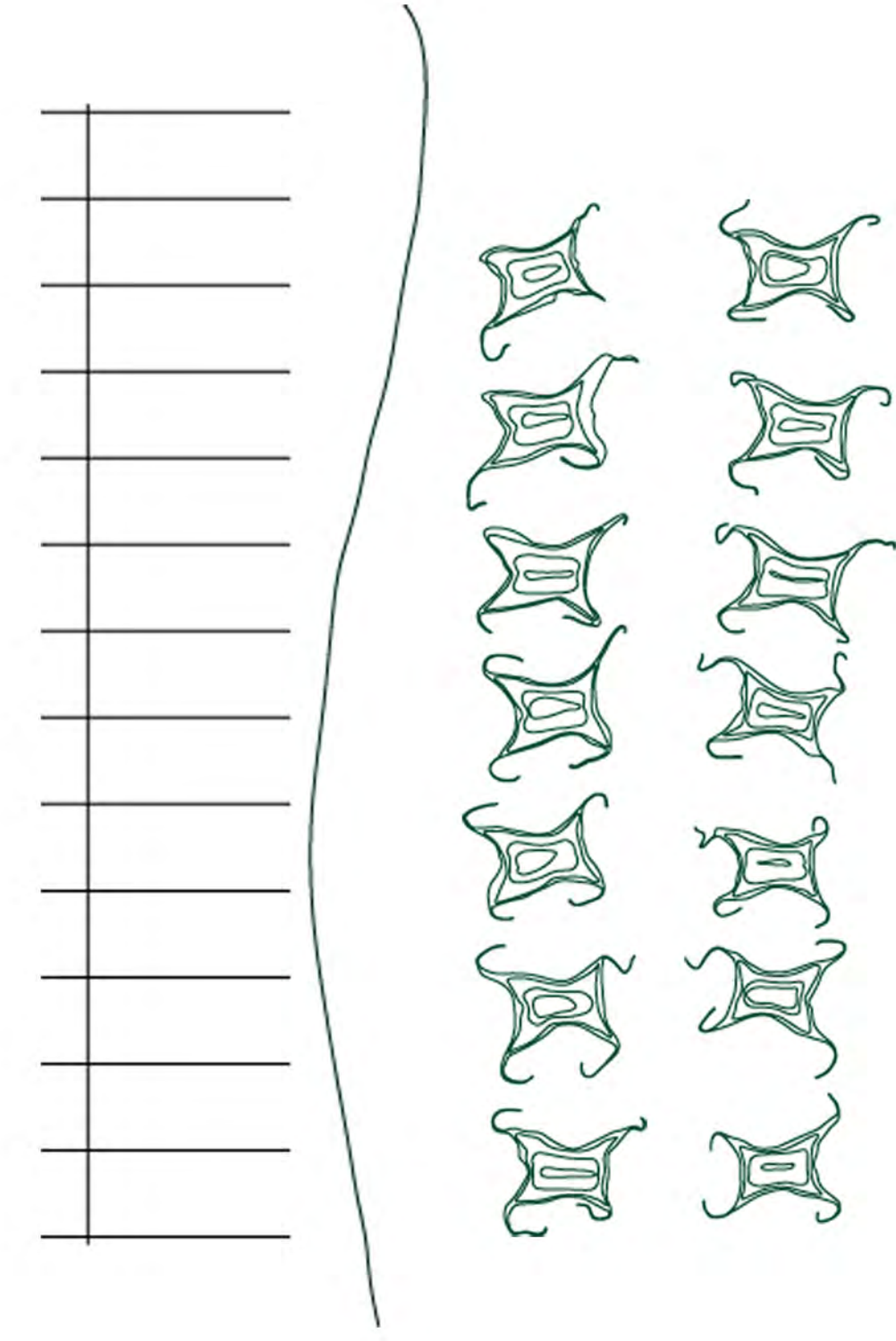


fig.3

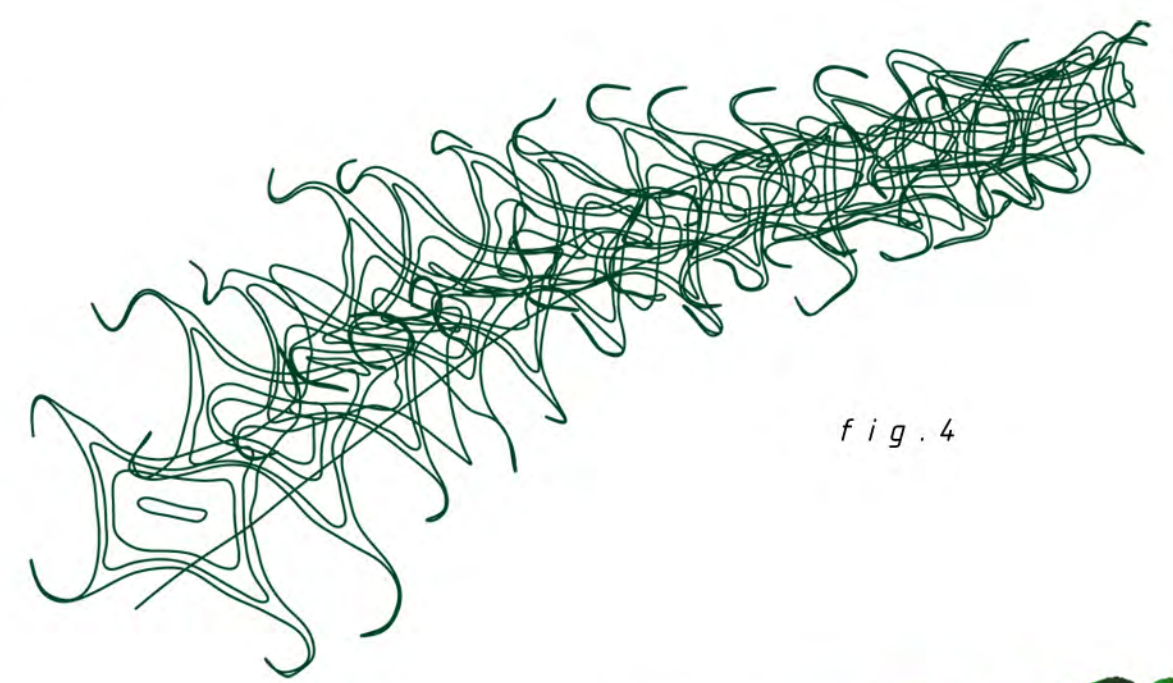


fig.4

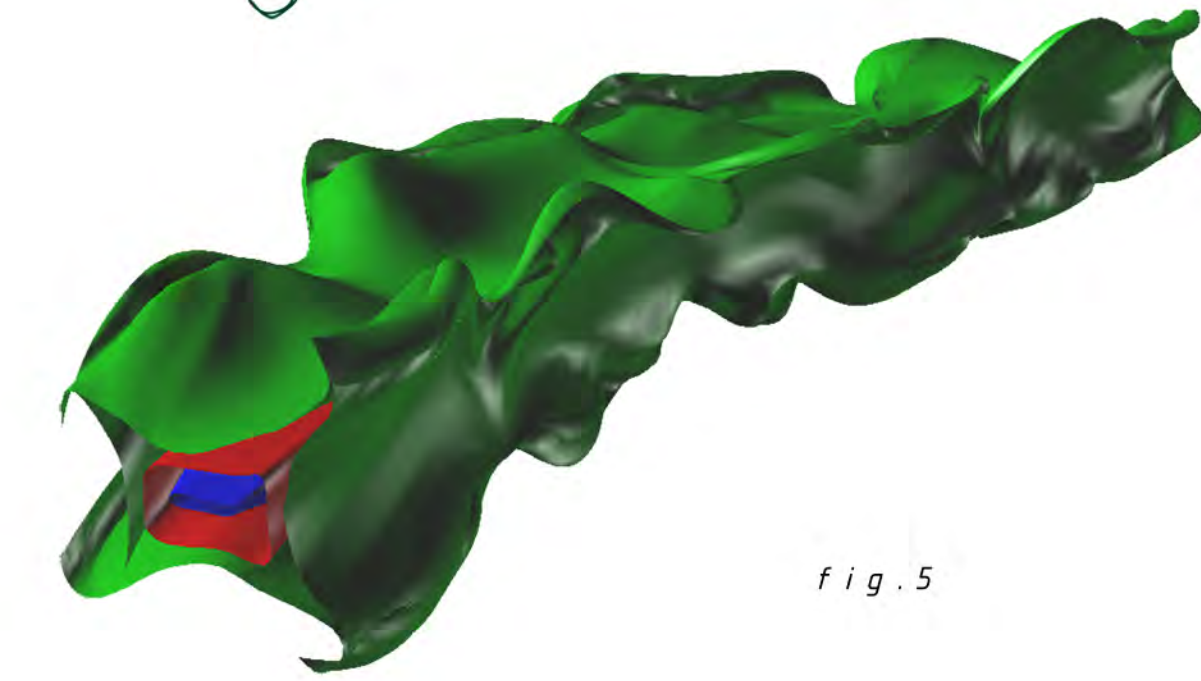


fig.5

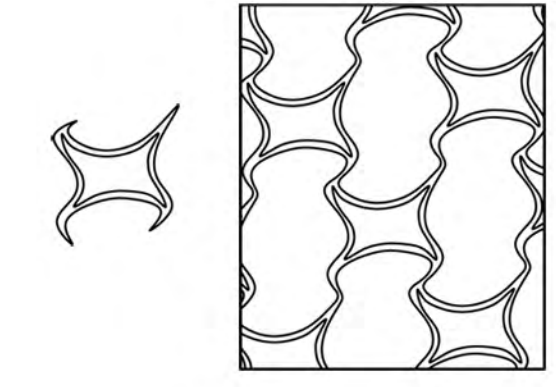


fig.6

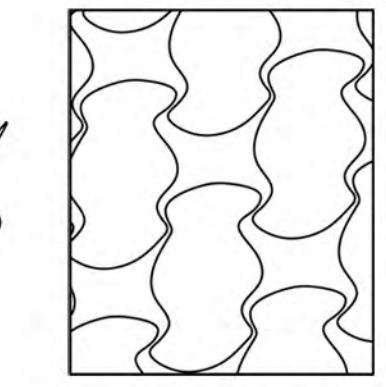


fig.7

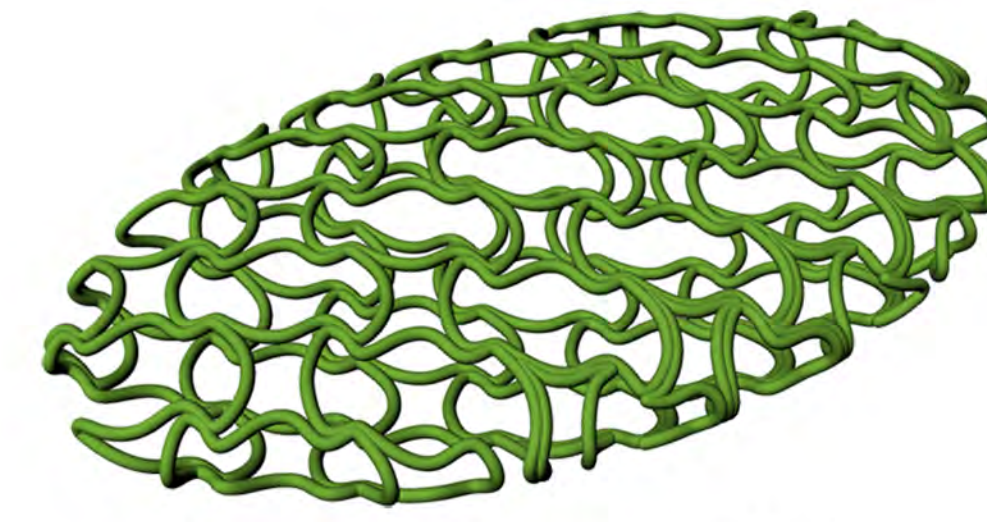


fig.8

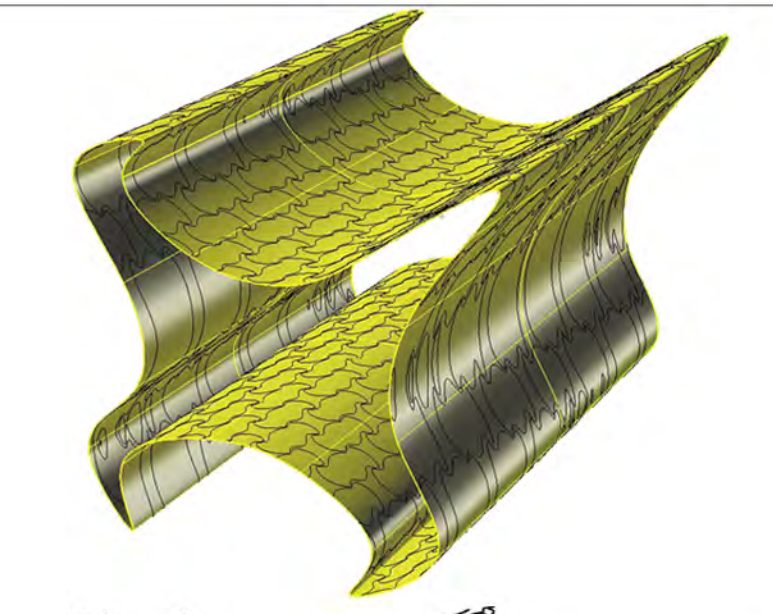


fig.9

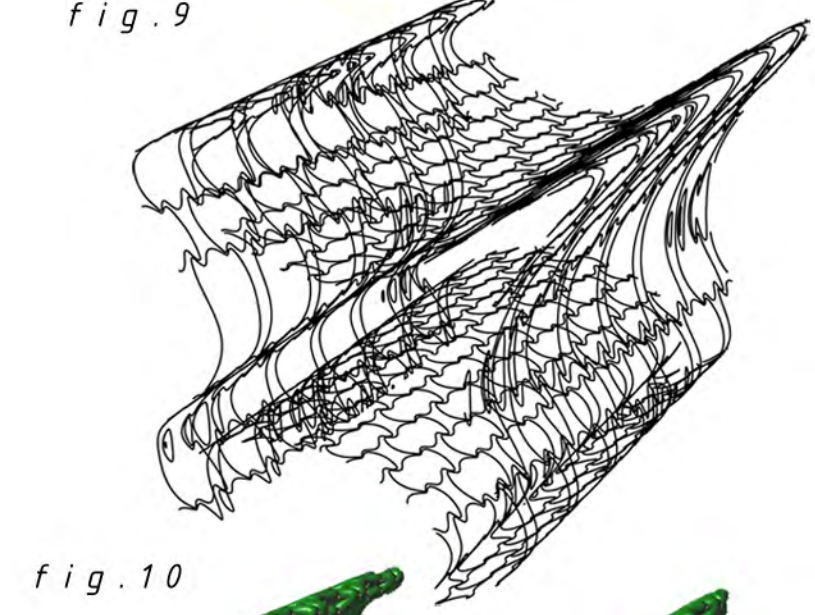


fig.10

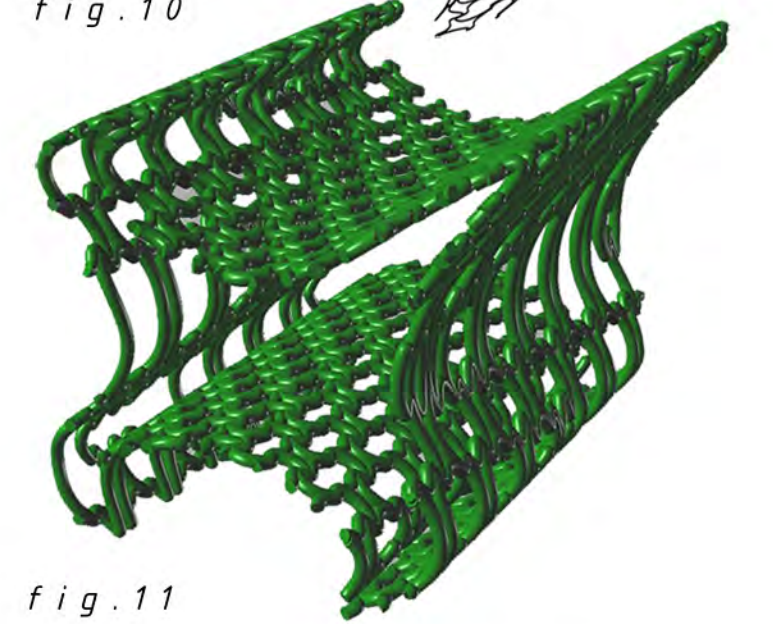
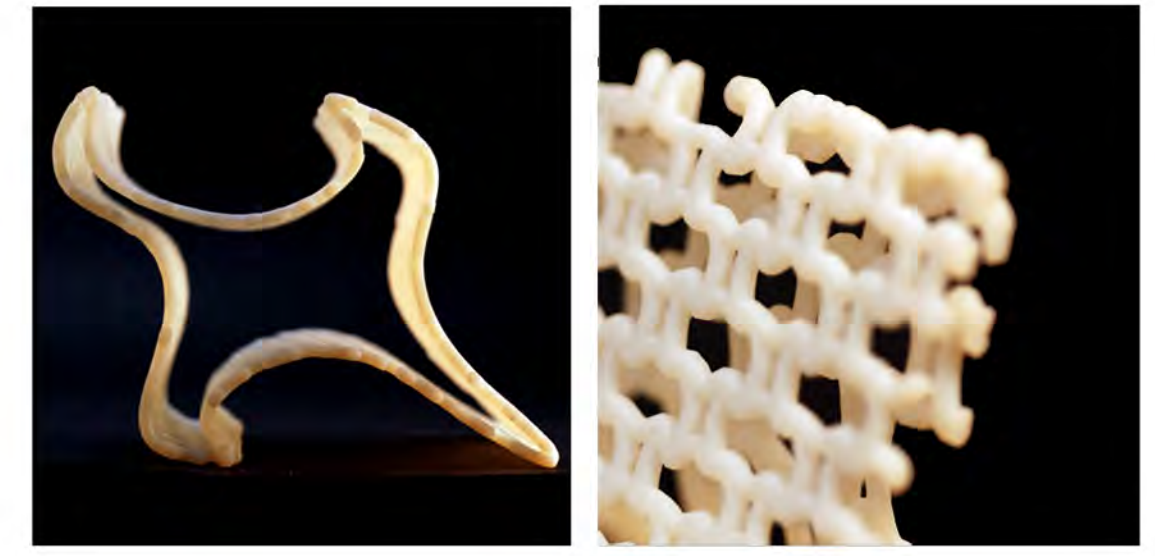


fig.11



from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Daniel Lim Yu-Heng

fig.1: Four Angled Bean - Scale 1:1 - Dimension mm.214 # fig.2: Photoscan - Scale 1:1- Cross-sections # fig.3: Ponits and Sections - Cross-sections trace - Scale 1:1 # fig.4: 2D Reconstruction # fig.5: 3D Rhino Construction

fig.6: Tiled cross-section 1 # fig.7: Selected Tiled cross-section # fig.8: Transformation Test # Fig 9: Projection of tile curves on surface # Fig 10: Wire Frame of Model # Fig 11: 3D Rhino Rendering

Fig 13 : Final Output image

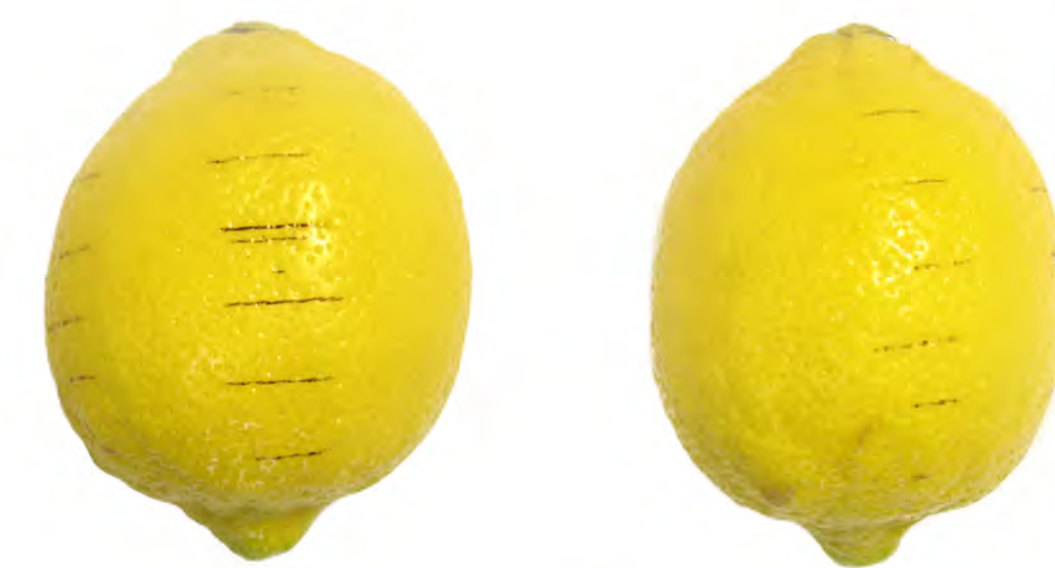


fig.1

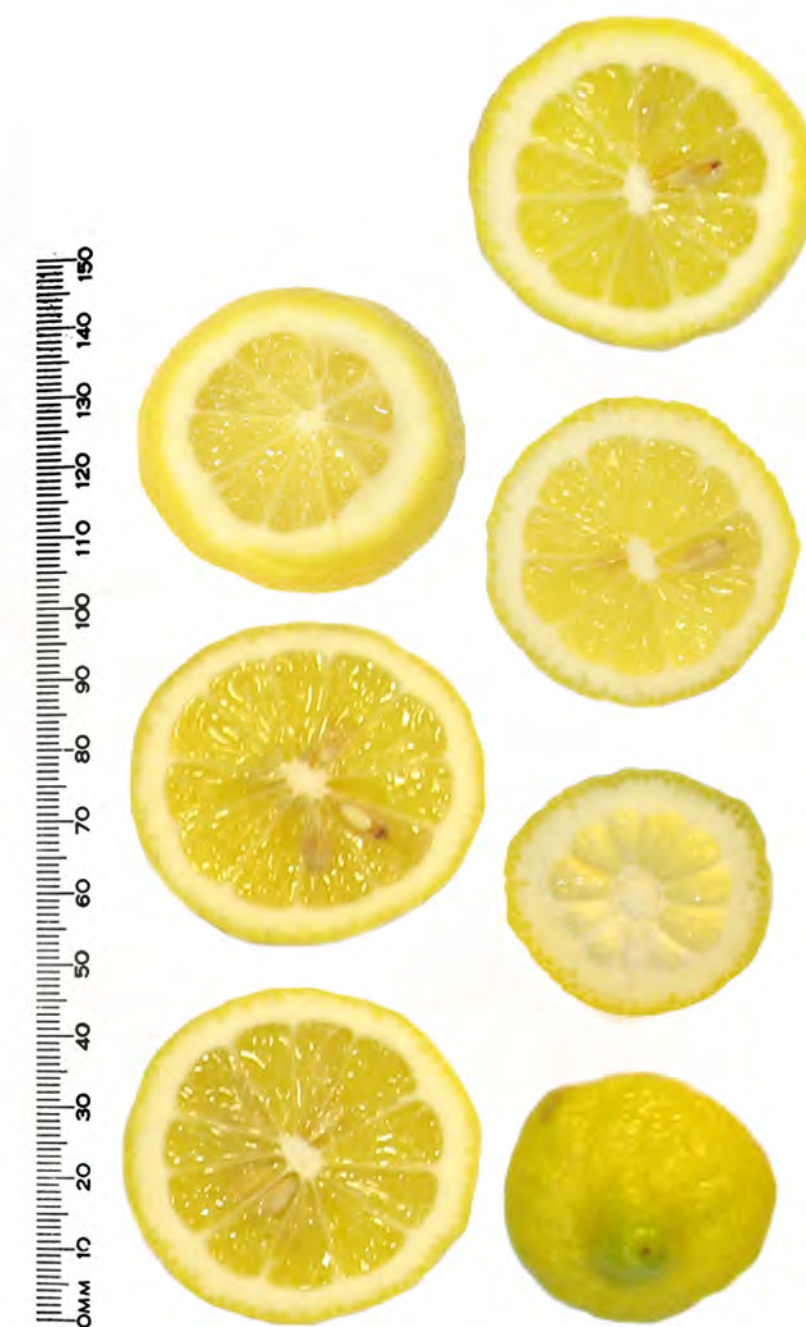


fig.2

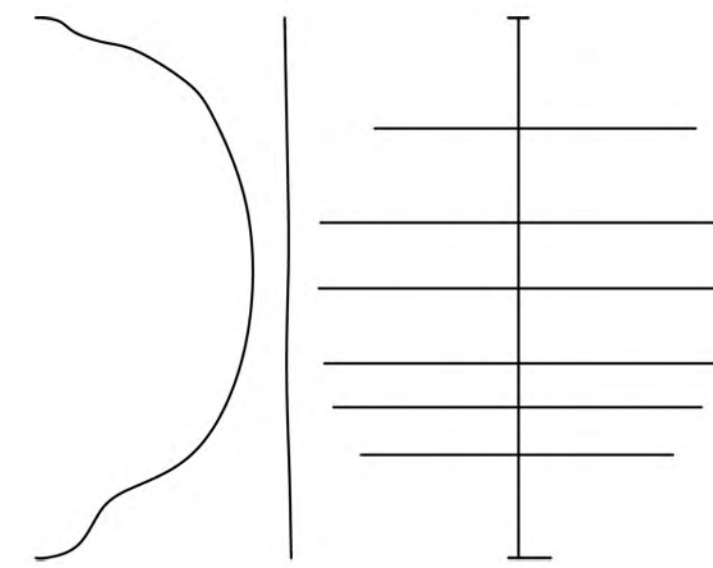


fig.3

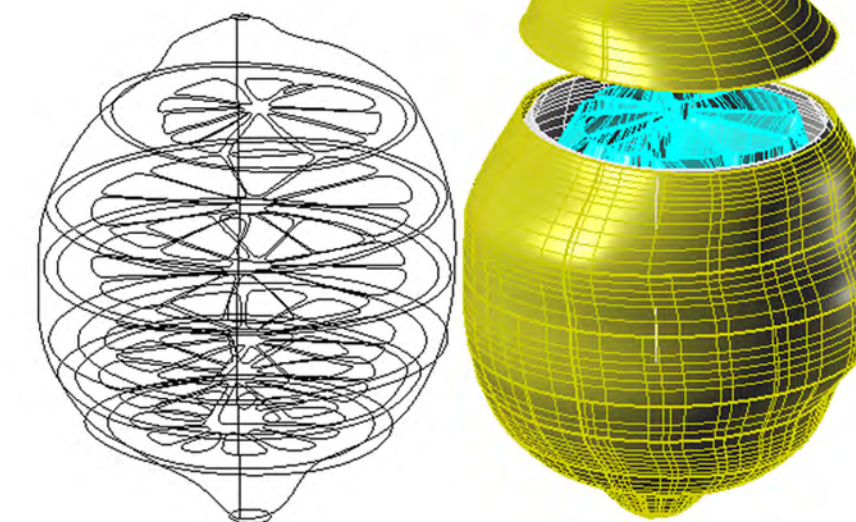
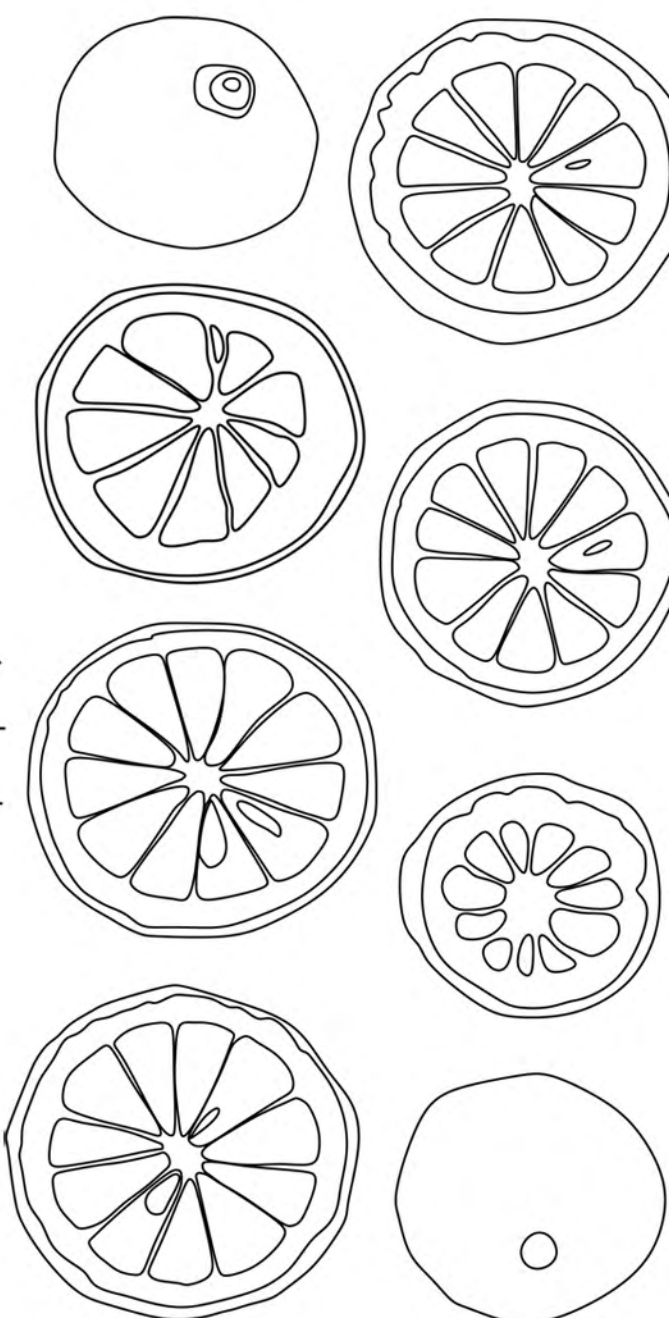


fig.4



fig.5

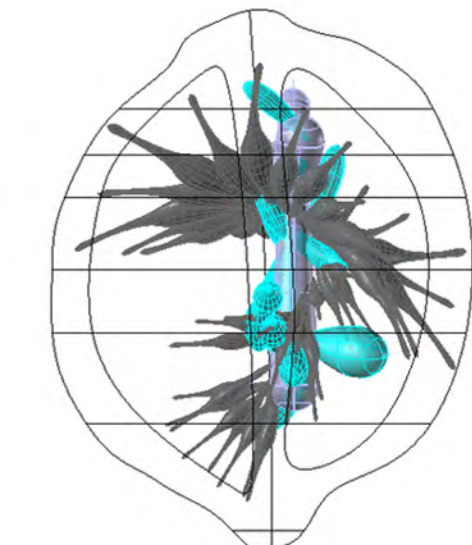


fig.6

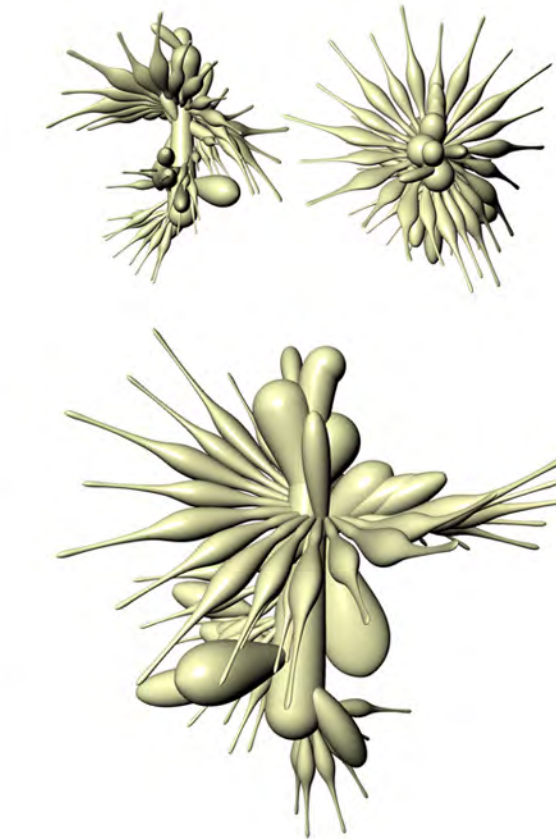


fig.7

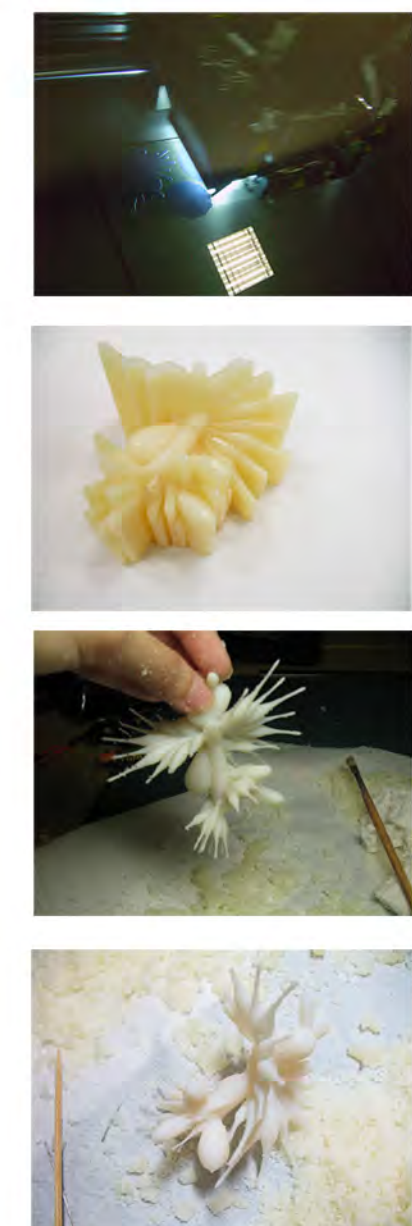


fig.8



fig.11



fig.9



fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Cai Baolun

fig.1: Ladies' Finger - Scale 1:1 - Dimension mm.140 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: Transformation Parts Placement # fig.7: 3D Renderings # fig.8: Images from CNC/RP Process # fig.9: Final Output Image # fig.10: Final Output Image # fig.11: Final Output Image



fig.1



fig.2

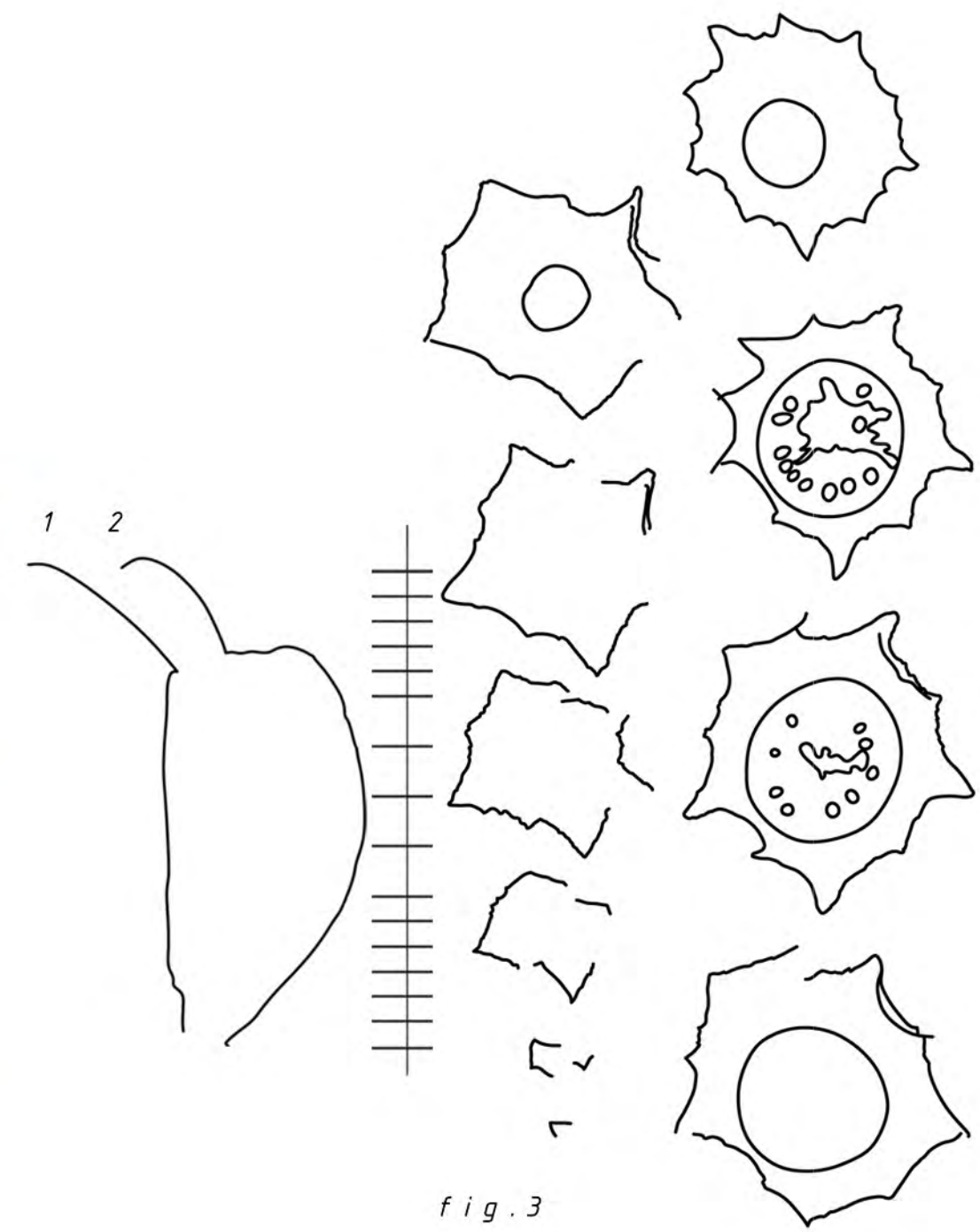


fig.3

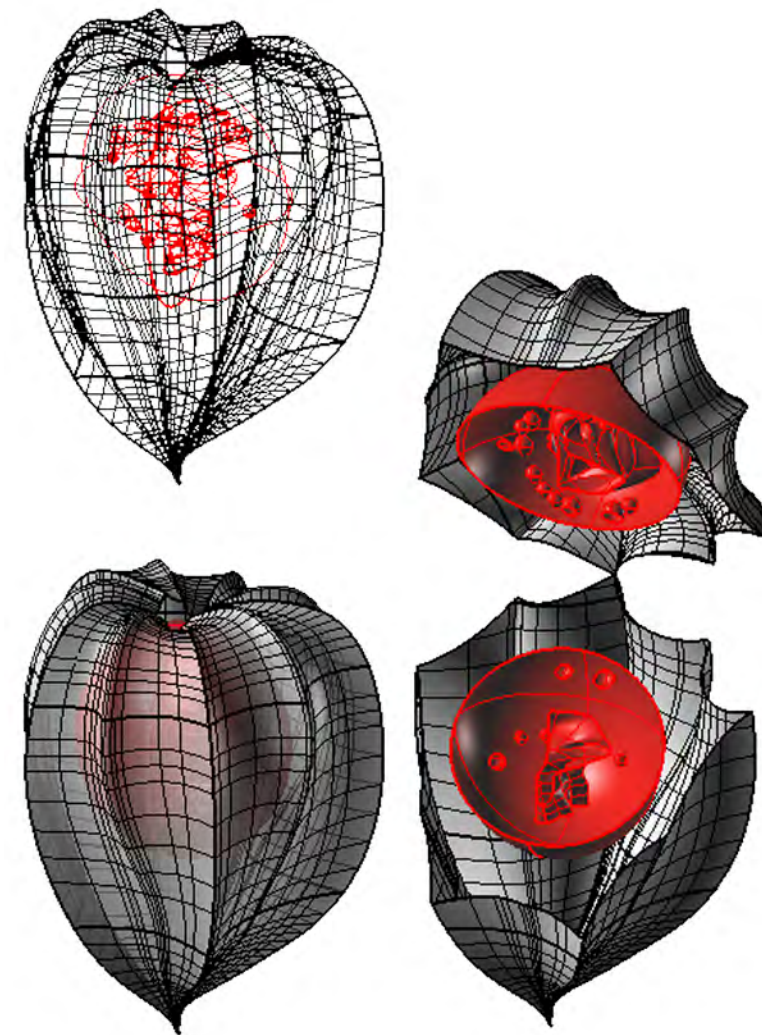


fig.4

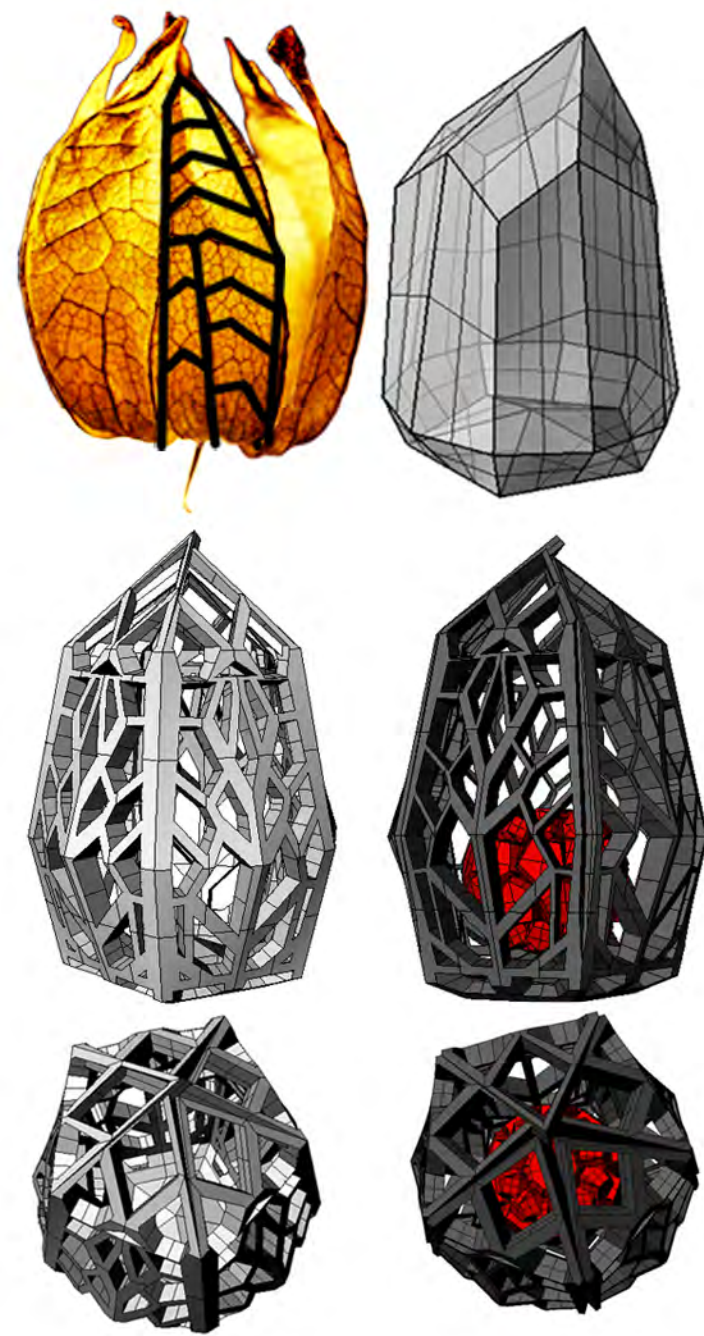


fig.5



fig.6



fig.7



fig.10

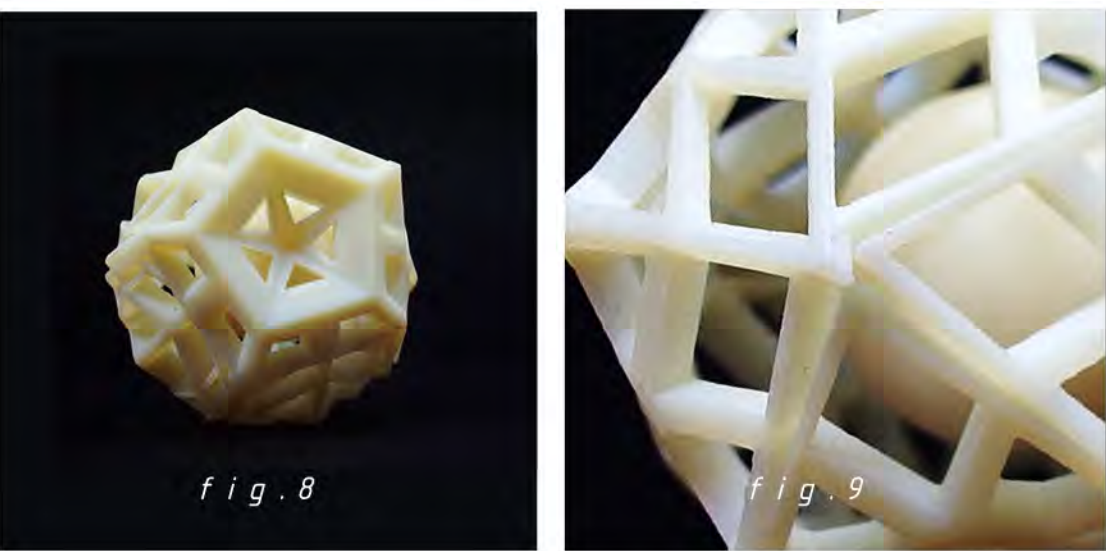


fig.8

fig.9

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student .Loo An Ni

fig.1: Cape Gooseberry - Scale 1:1 - Dimension mm.63 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Renderings # fig.7: Images from CNC/3P Process # fig.8: Final Output Image # fig.9: Final Output Image # fig.10: Final Output Image



fig.1

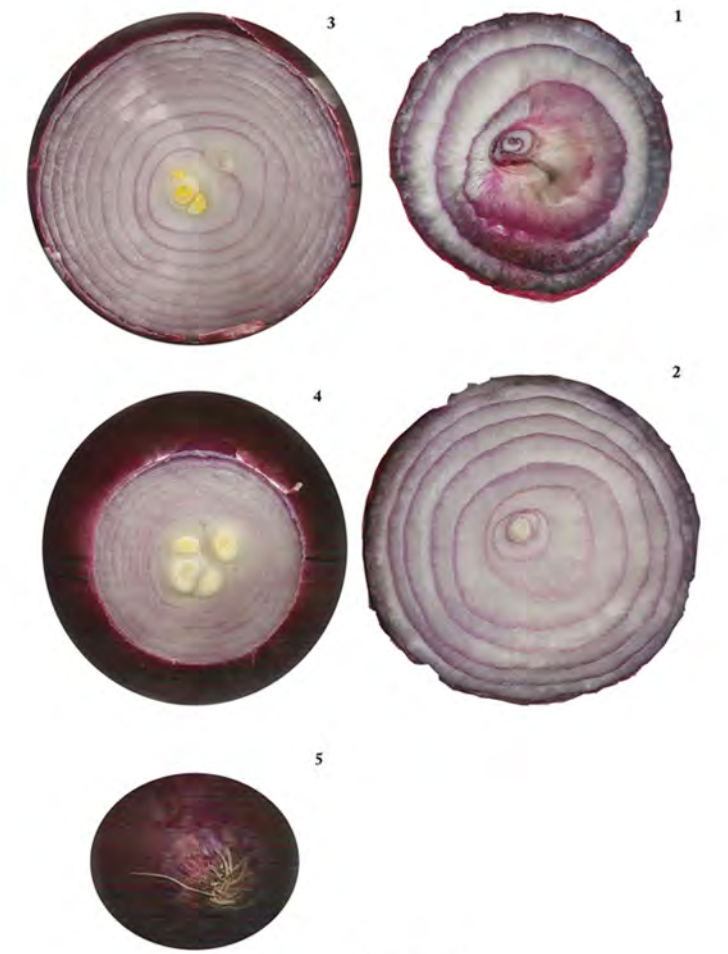
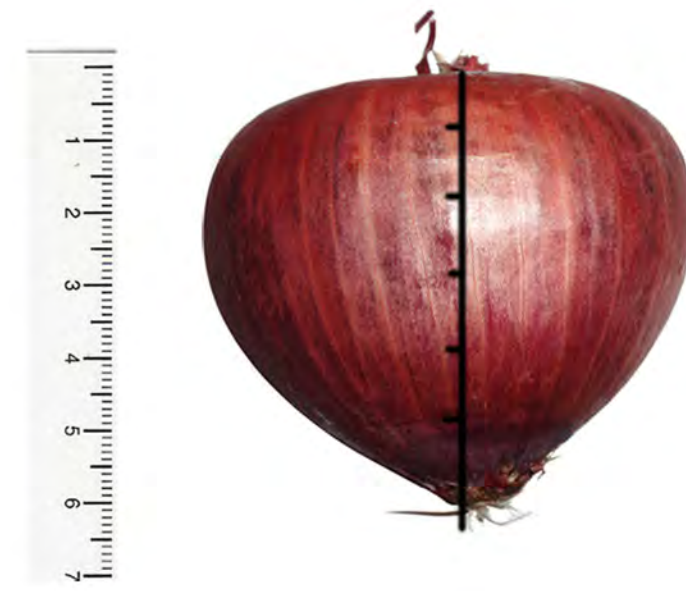


fig.2

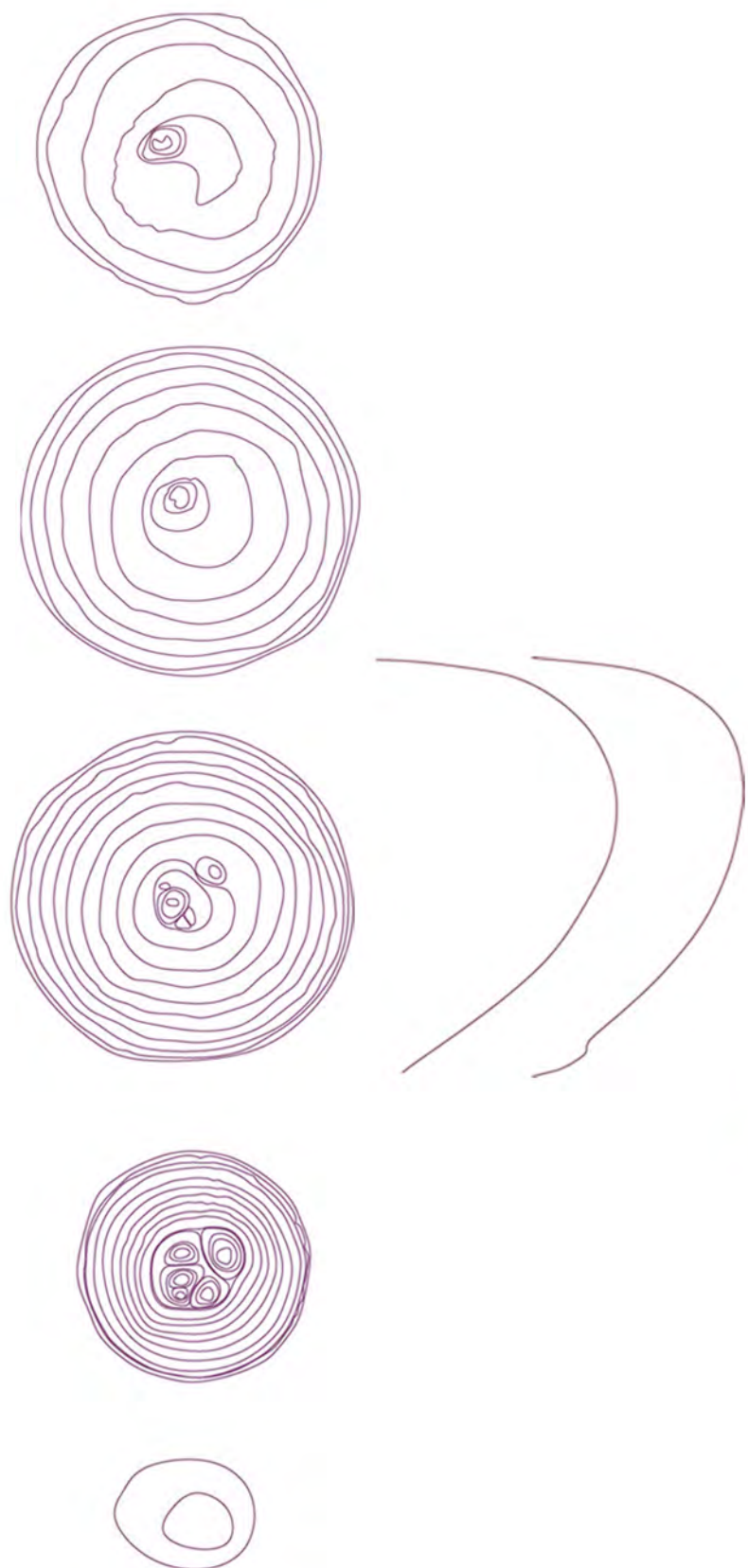


fig.3

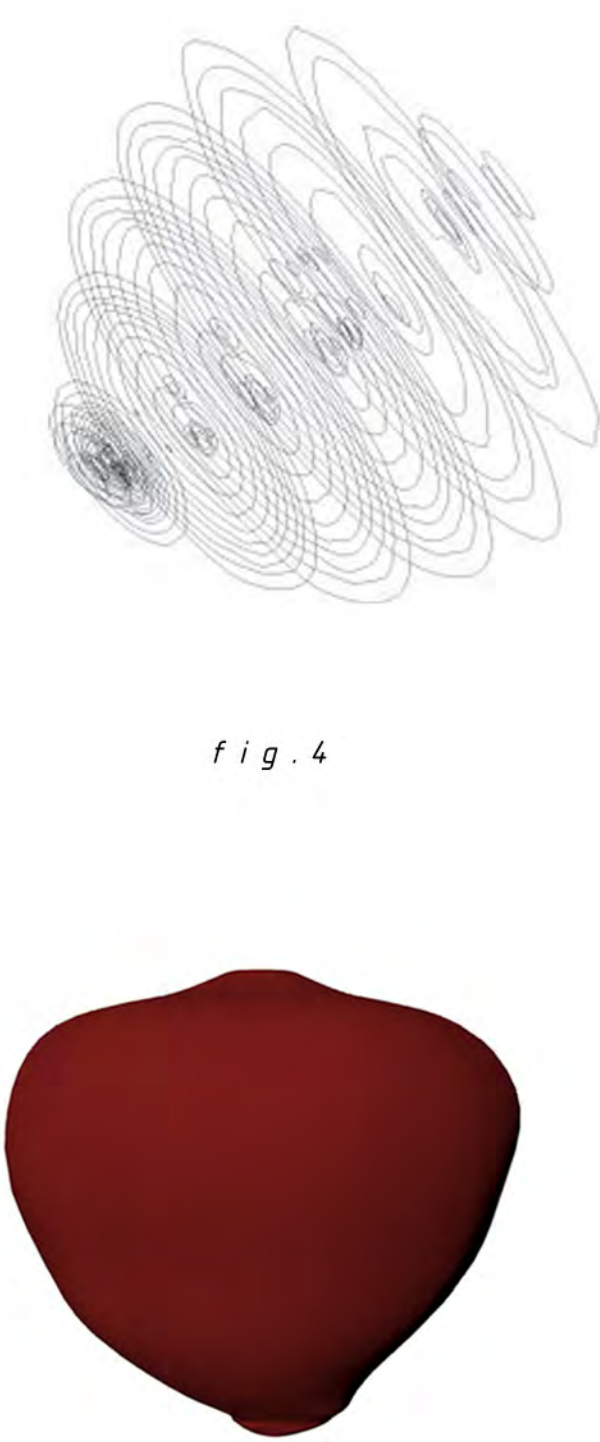


fig.5

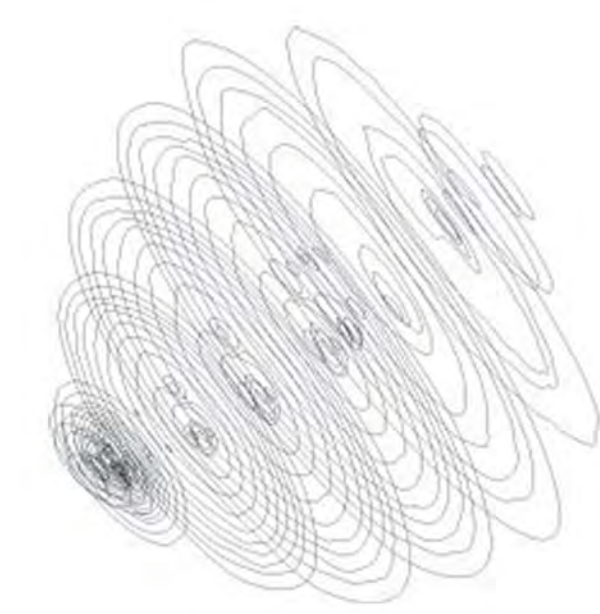


fig.4



fig.6a



fig.6b



fig.6c



fig.6d



fig.6e



fig.7

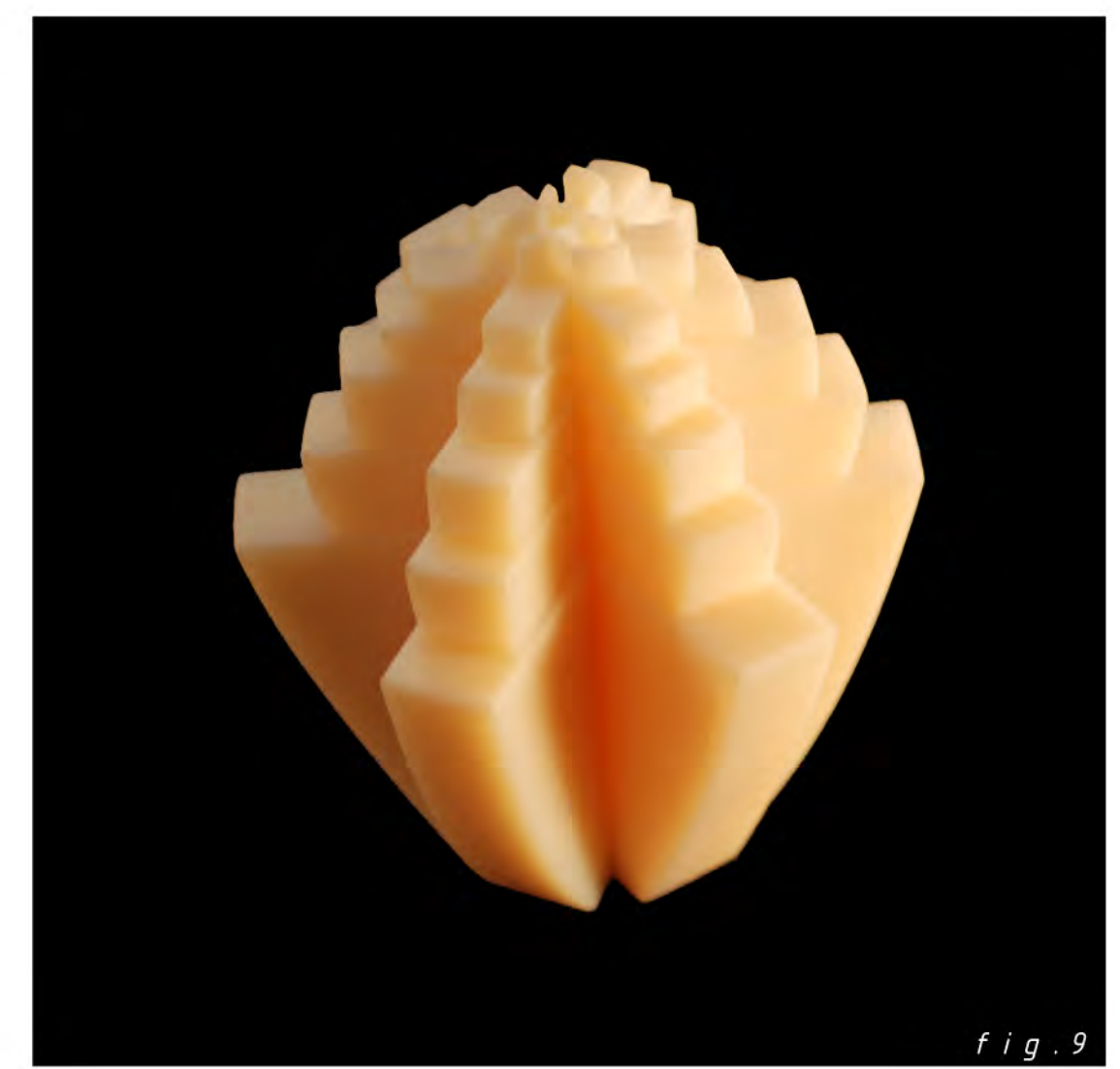


fig.9



fig.8

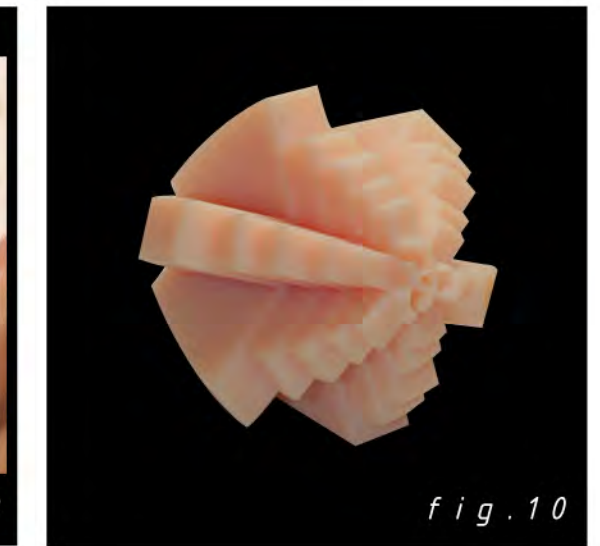


fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student : Angela Setho

fig.1: Onion - Scale 1:1 - Dimension 163mm # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction scale 1:1 # fig.4: Compilation of cross-sections of onion slices # fig.5: 3D Rhino Reconstruction # fig.6a-6e: 3D Rhino Transformation Process # fig.7: Final Concept - 3D Transformation # fig.8: Work Process # fig.9: Printed Model - Standing View # fig.10: Printed Model - Perspective view



fig.1



fig.2

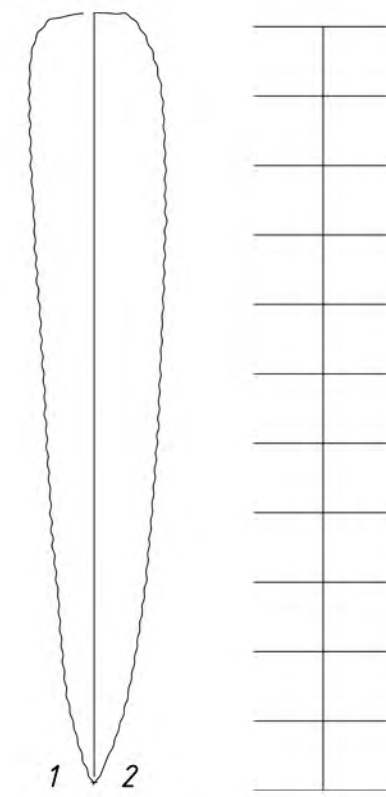


fig.3

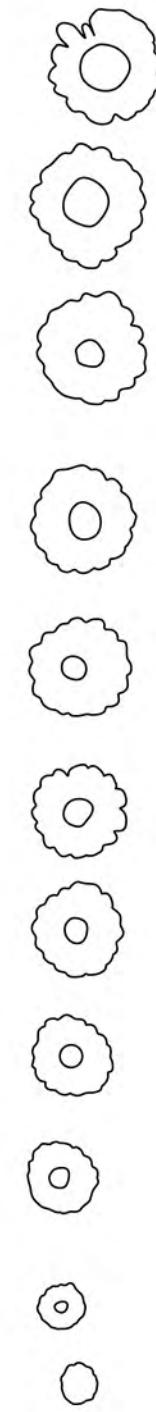


fig.4

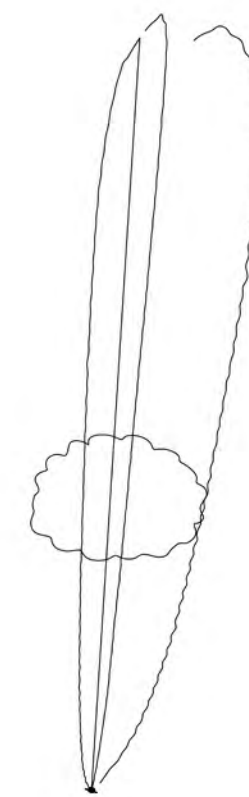


fig.5

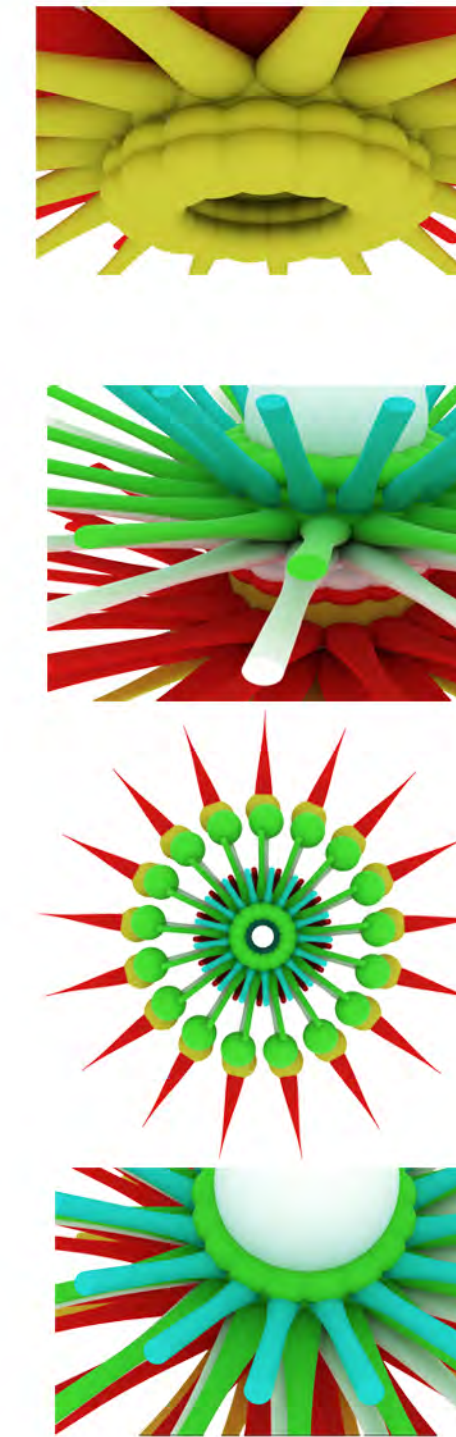


fig.6

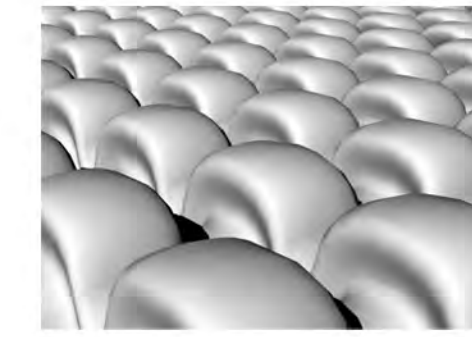
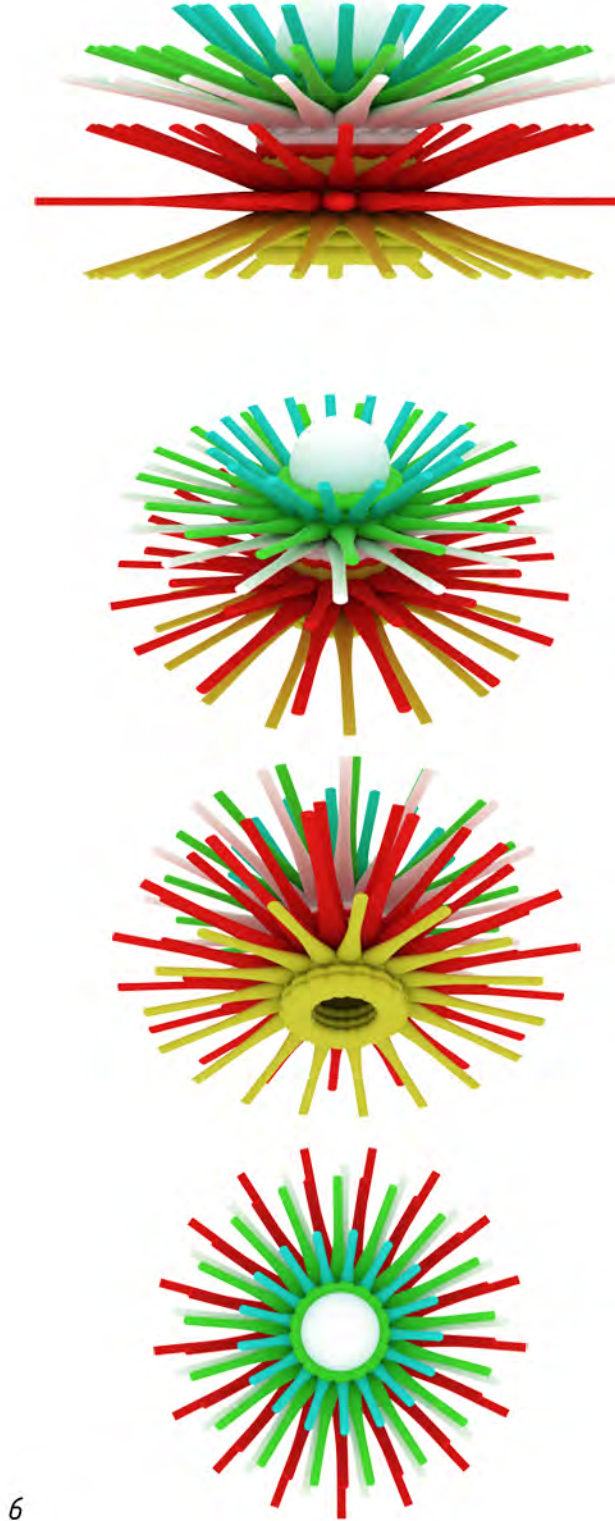


fig.7

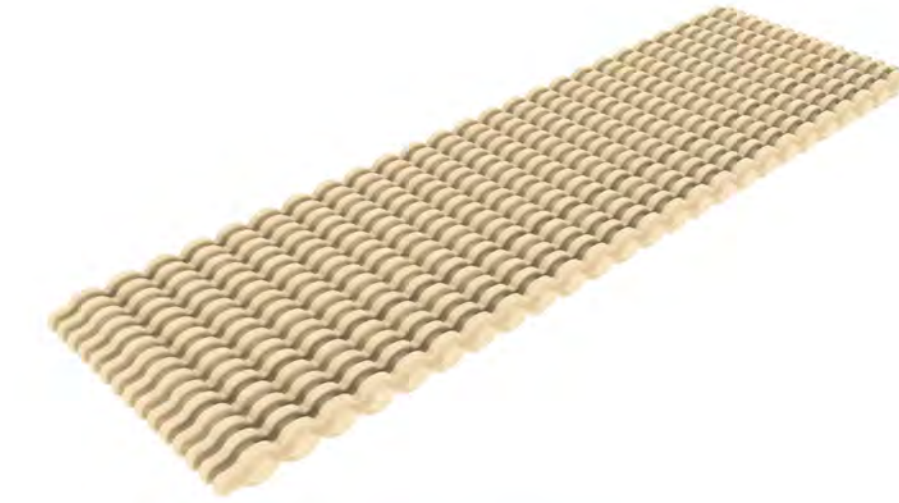
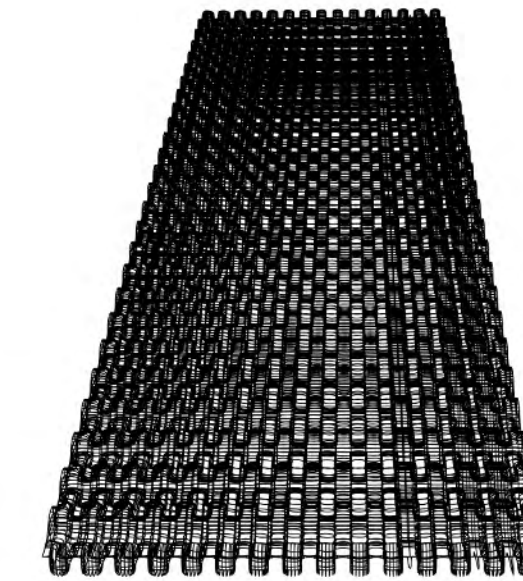


fig.8

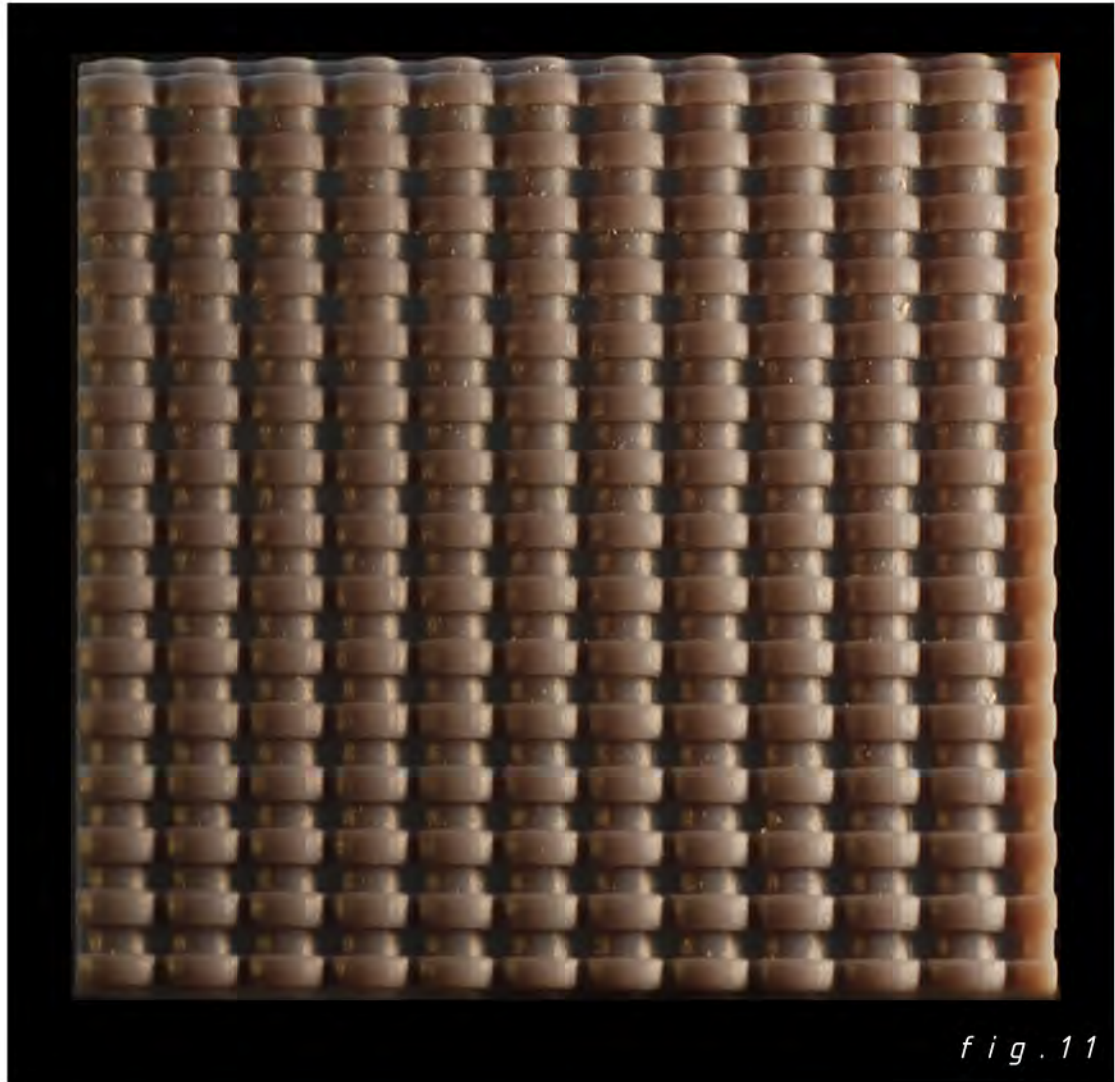


fig.11

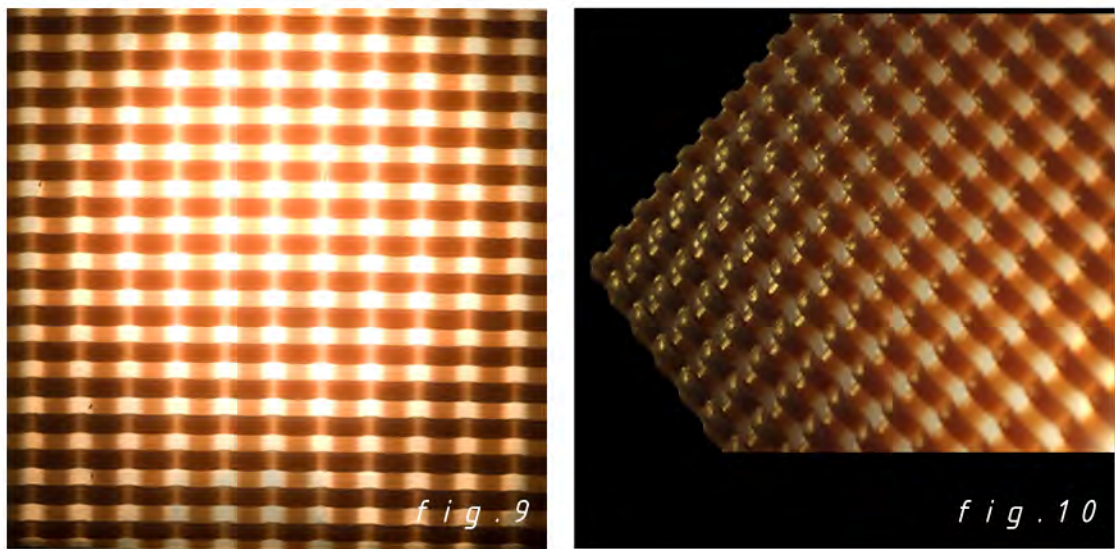


fig.9

fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Andrew Susilo Putra

fig.1: Baby Corn - Dimension mm.110 # fig.2: Points & Sections - Photoscan # fig.3: Sections - 2D Graphic Reconstruction - Scale 2:3 # fig.4: 3D Sections # fig.5: 3D Rhino Model Reconstruction # fig.6: 3D Rhino Transformation Process # fig.7: Final Concept - 3D Rhino Transformation # fig.8: Final Model - 3D Rendering # fig.9: Printed Model - Bottom View # fig.10: Printed Model - Perspective View # fig.11: Printed Model - Top View



fig.1

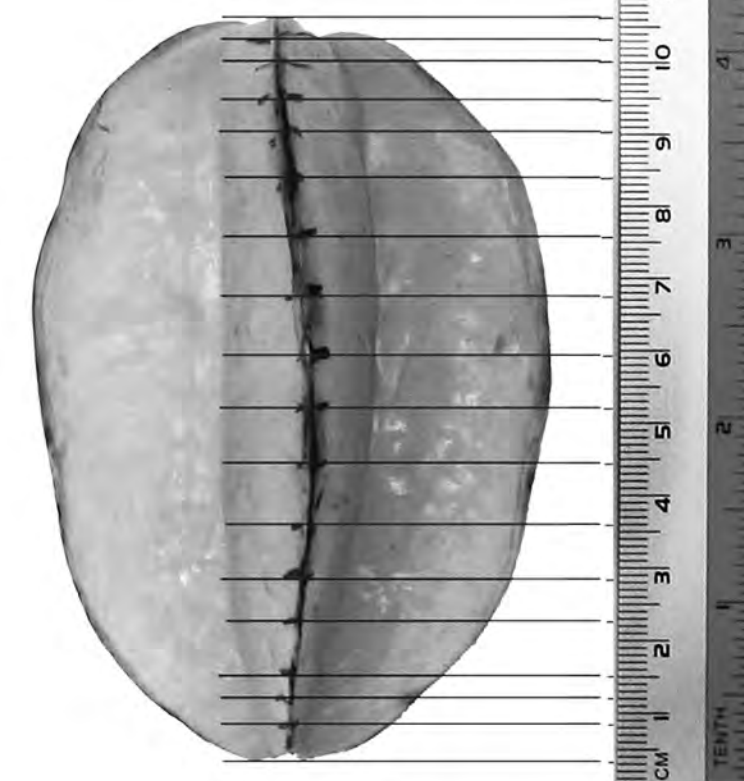


fig.2

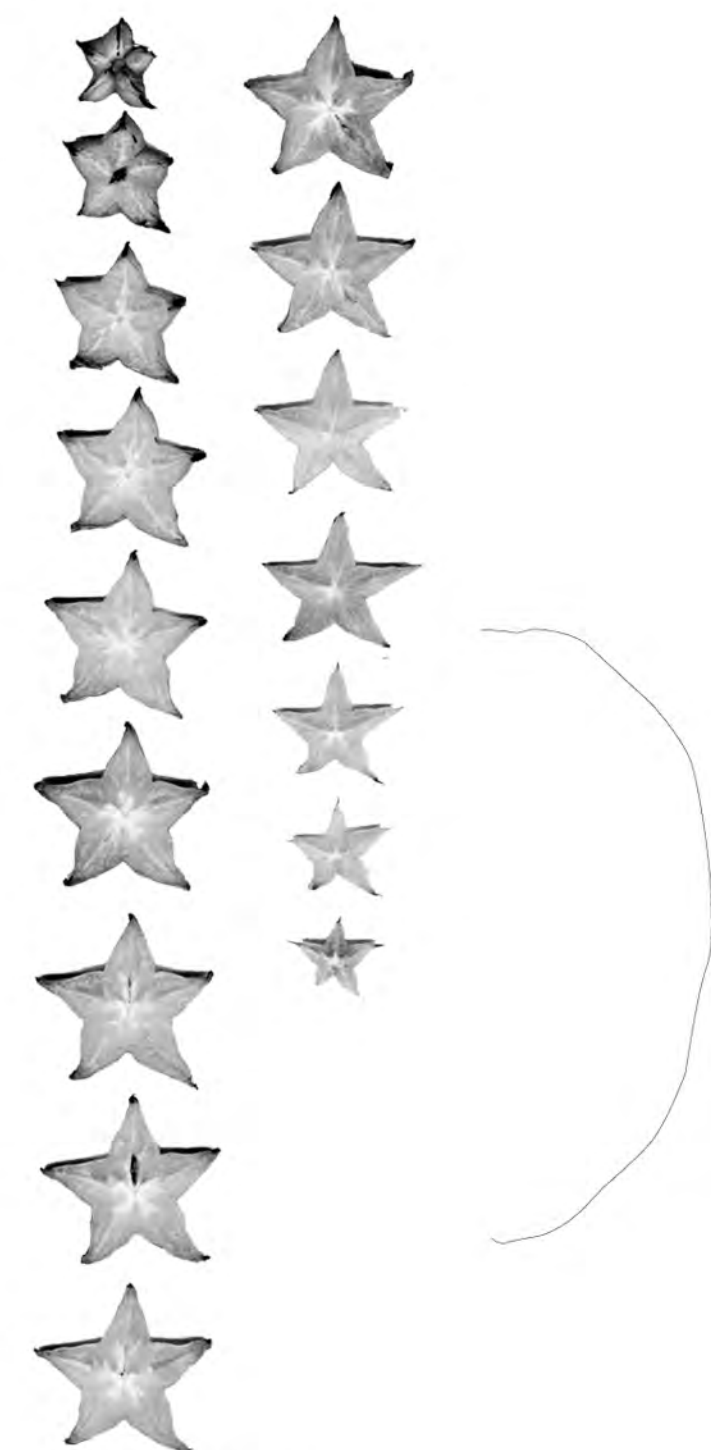


fig.3

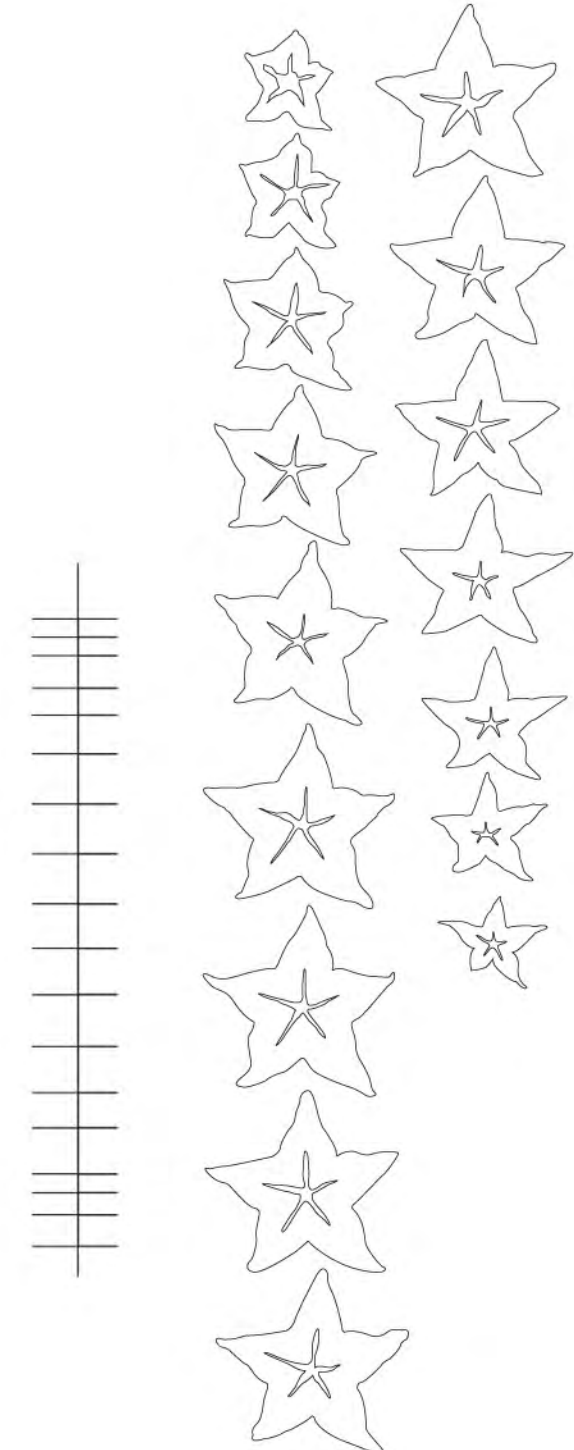


fig.4

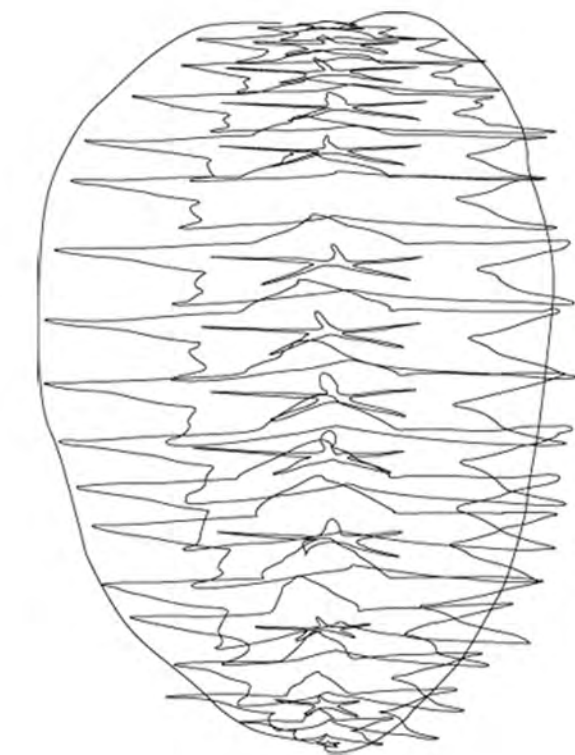


fig.5

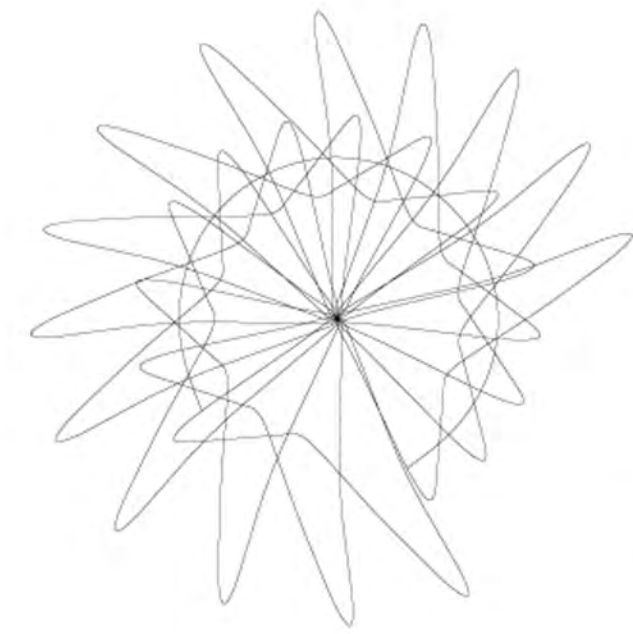


fig.6



fig.7



fig.8

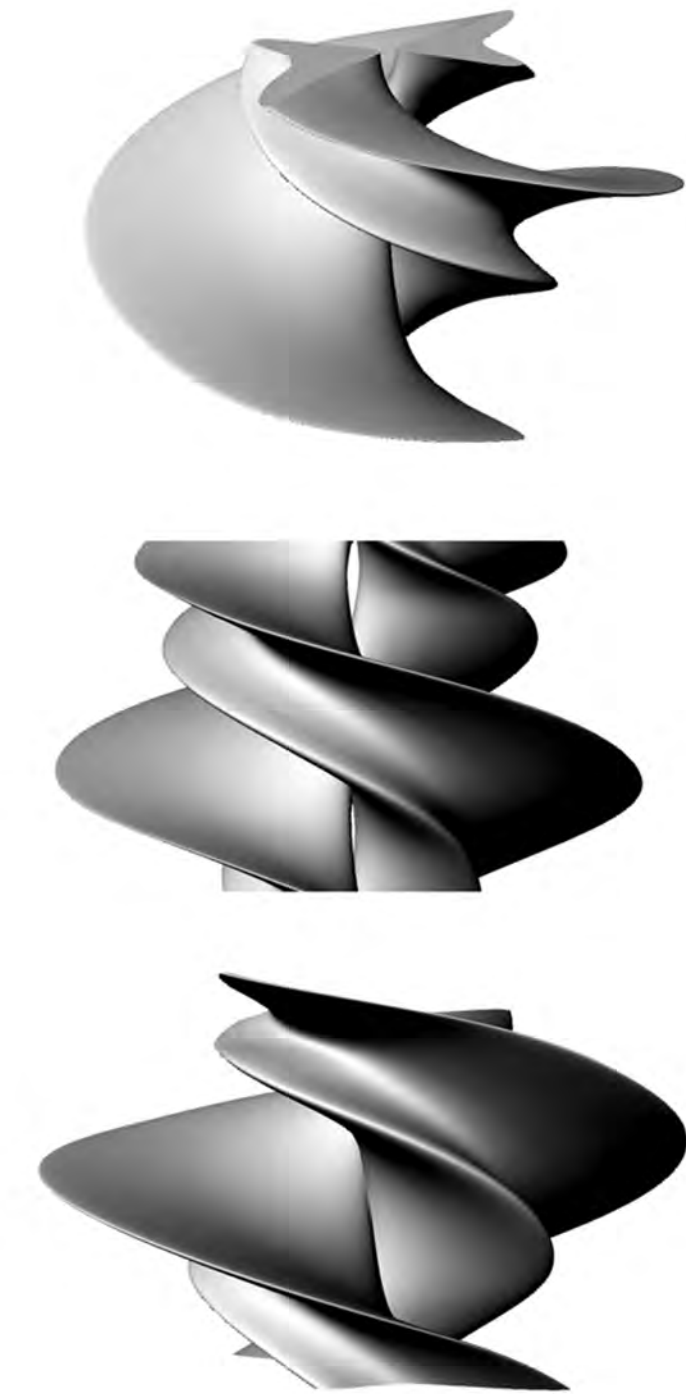


fig.9



fig.12



fig.10



fig.11

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2008 - Assist.Prof. Fabrizio Galli - Student Anshit Malhotra

fig.1: Star Fruit - Scale 1:1 - Dimension mm.107 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections # fig.4: Sections - 2D Graphic Reconstruction # fig.5: 3D Rhino Model Reconstruction # fig.6: Sections - 3D Rhino Transformation Process # fig.7-8: 3D Generative Elix Shape # fig.9: Double Elix # fig.10-11-12: Final Output Rapid Prototyping Model



fig.1

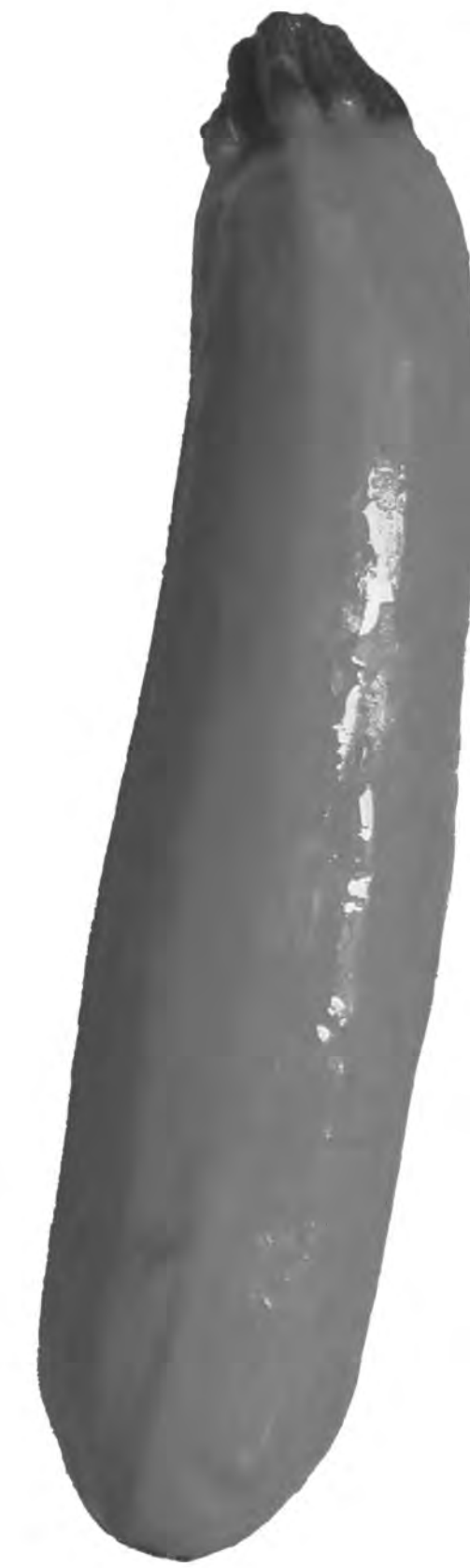


fig.2



fig.3

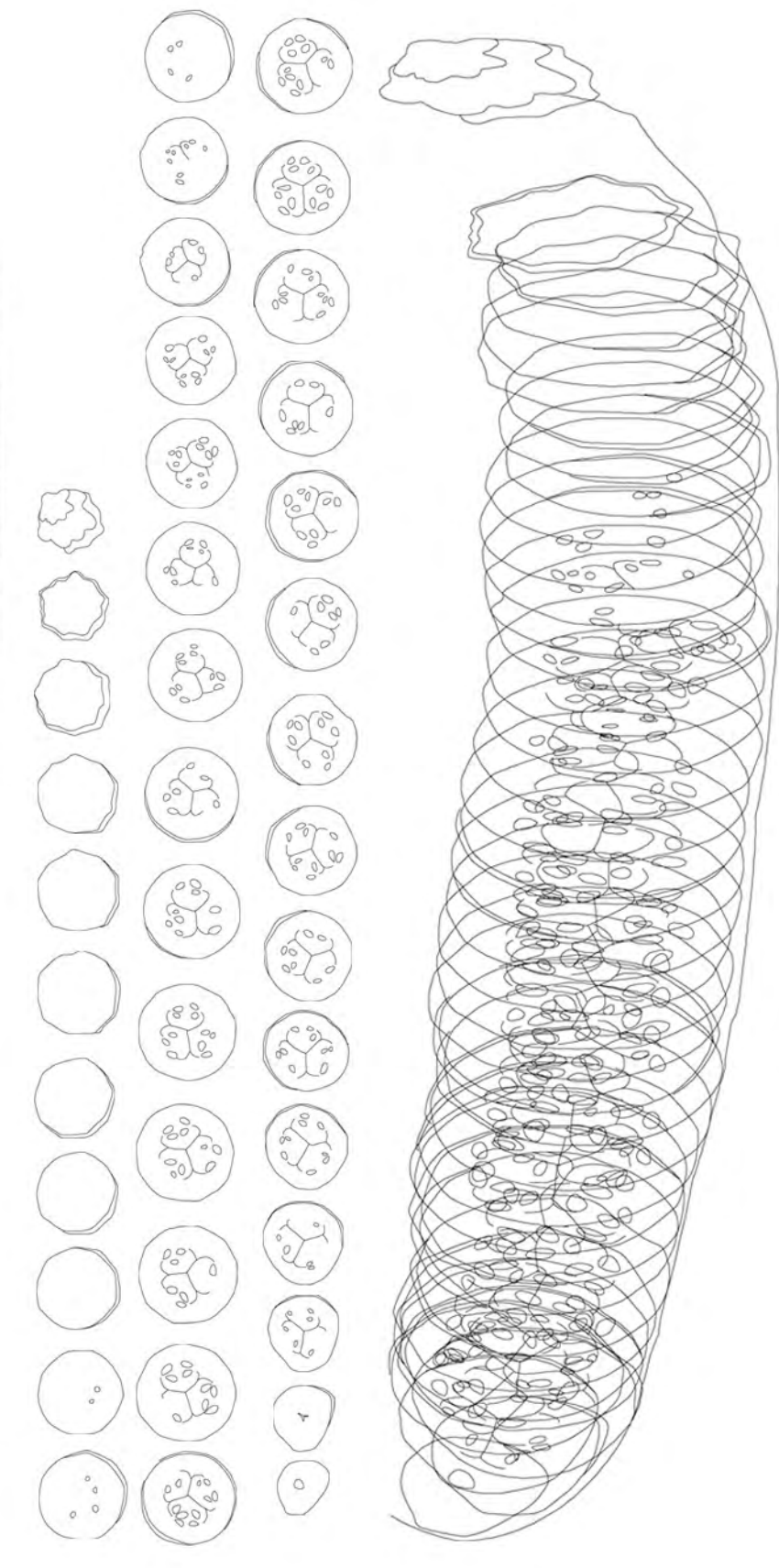


fig.4



fig.5

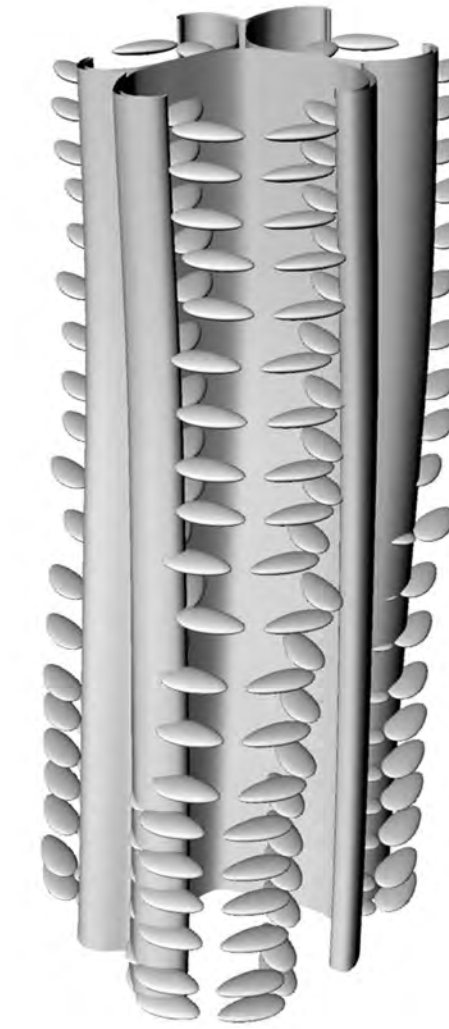


fig.6

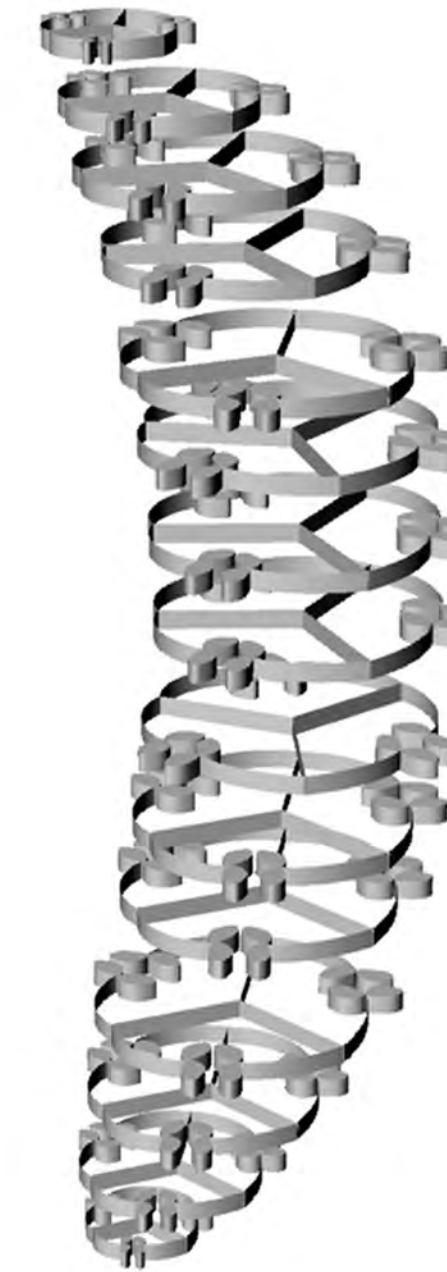


fig.7

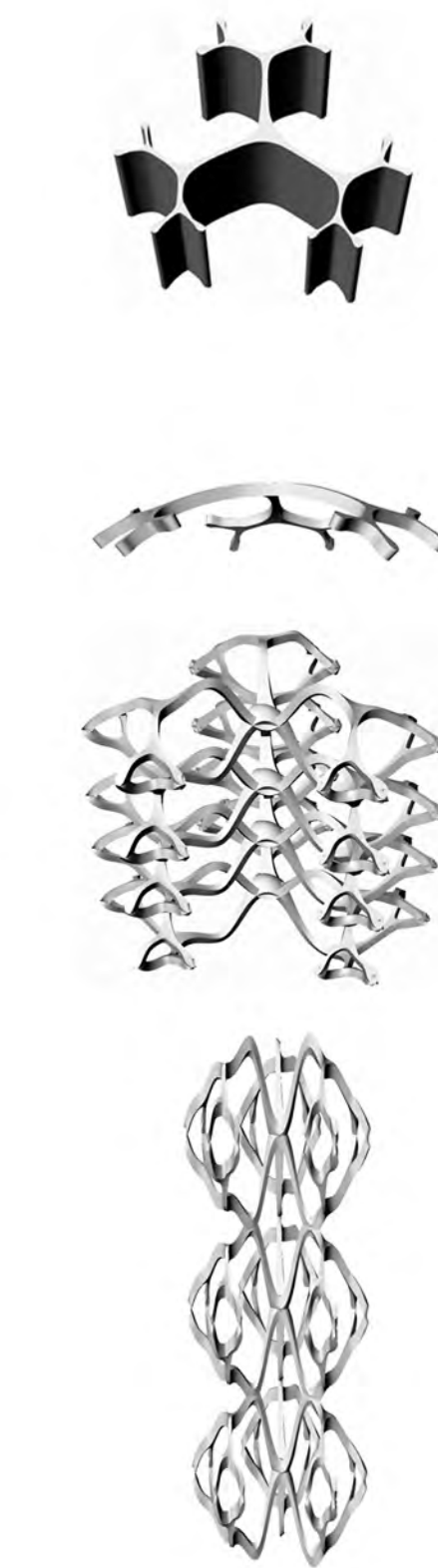


fig.8

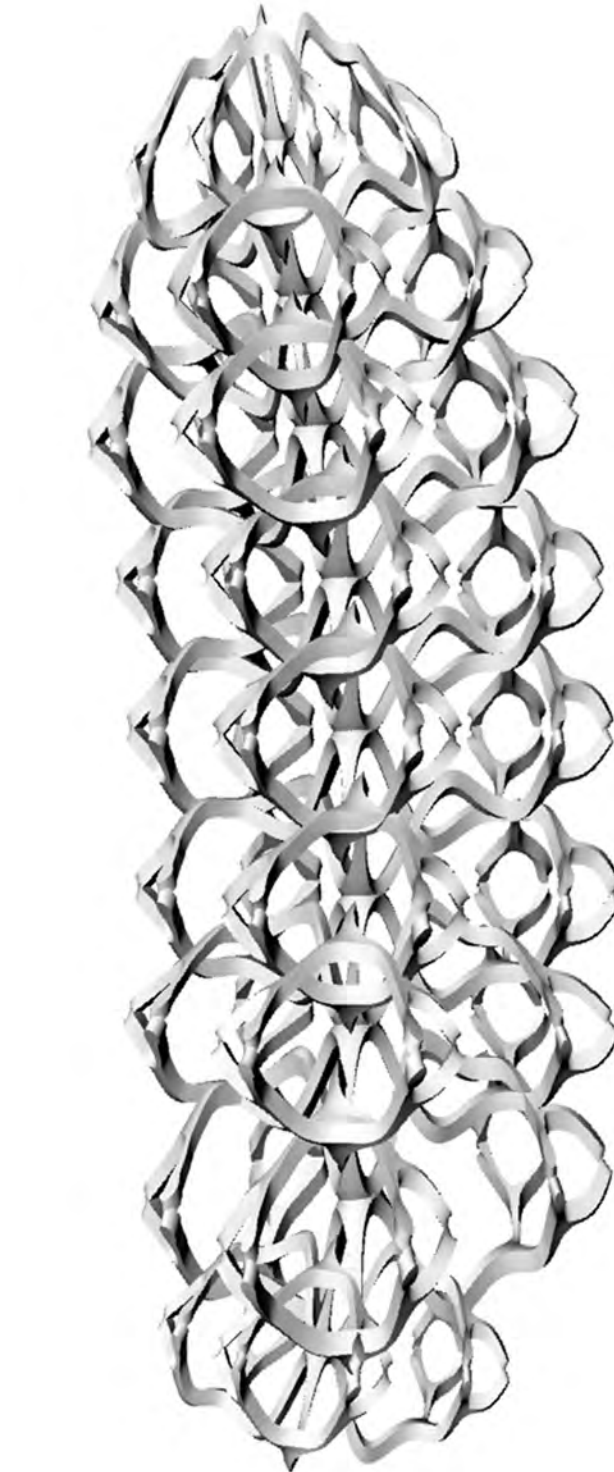


fig.9

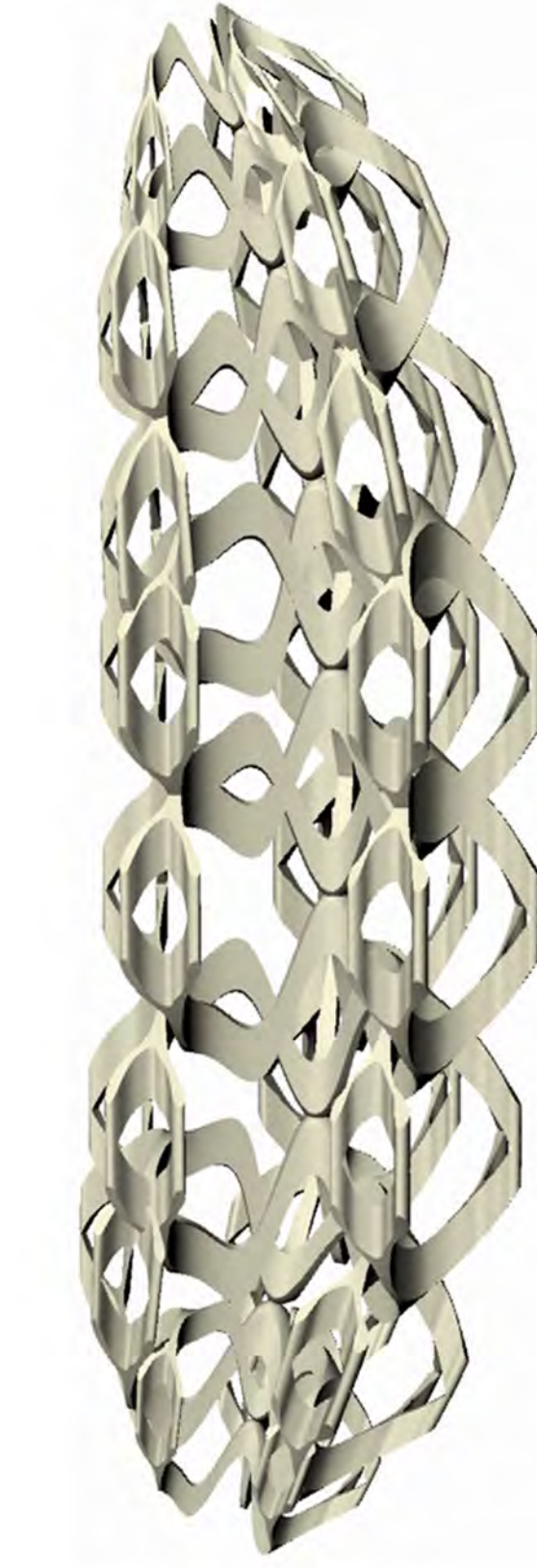


fig.10



fig.11

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2011 - Student Yosephine Leosaputro

fig.1: Yellow Zucchini - Scale 1:1 - Dimension mm.220 # fig.2: Points & Sections - Photoscan # fig.3: Sections - 2D Graphic Reconstruction # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Rhino Transformation Process # fig.7: 3D Rhino Transformation Process # fig.8: 3D Rhino Transformation Process # fig.9: Rendering # fig.10: Final Output Image # fig.11: Final Output Image # fig.12: Final Output Image



fig.1

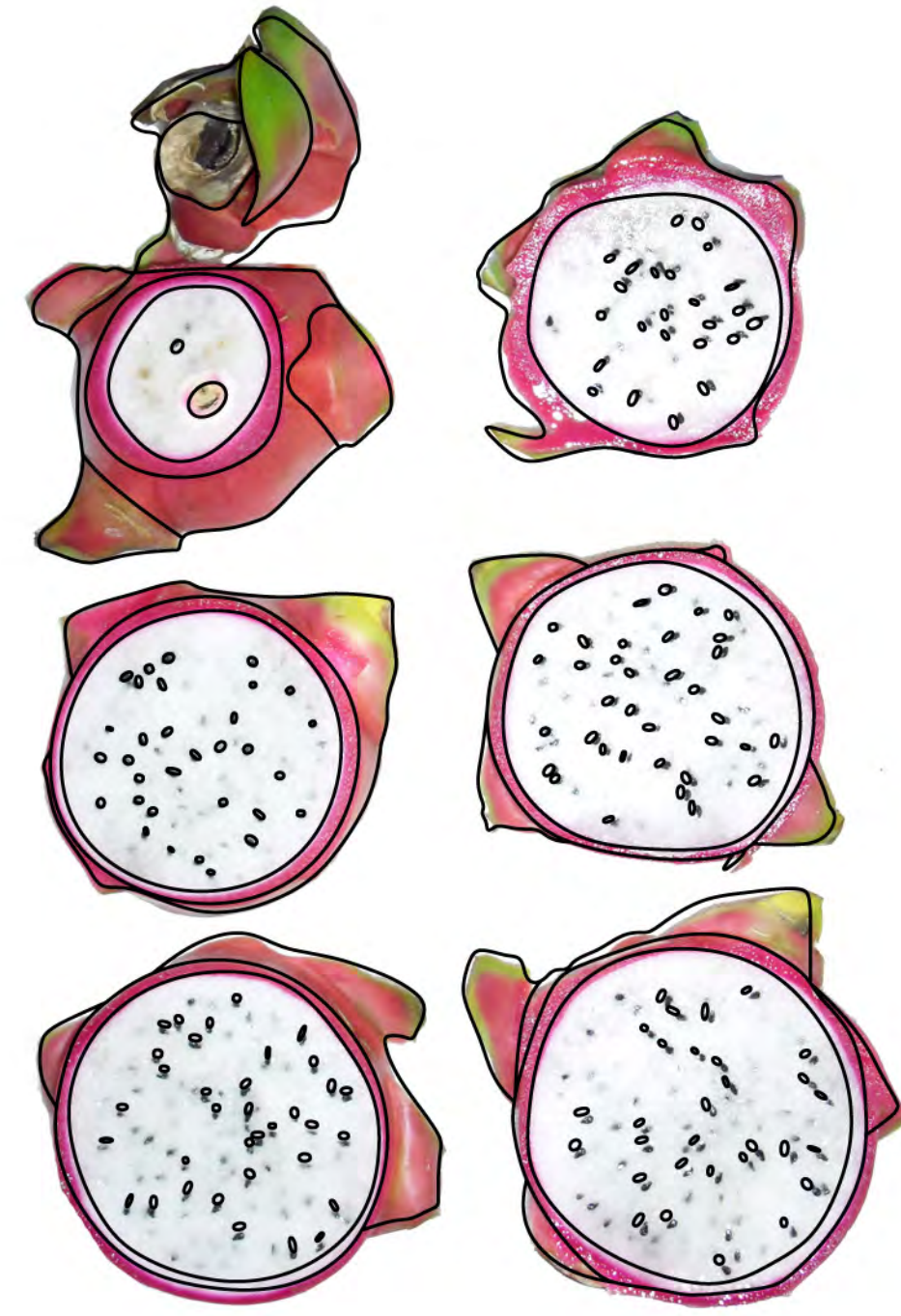


fig.2

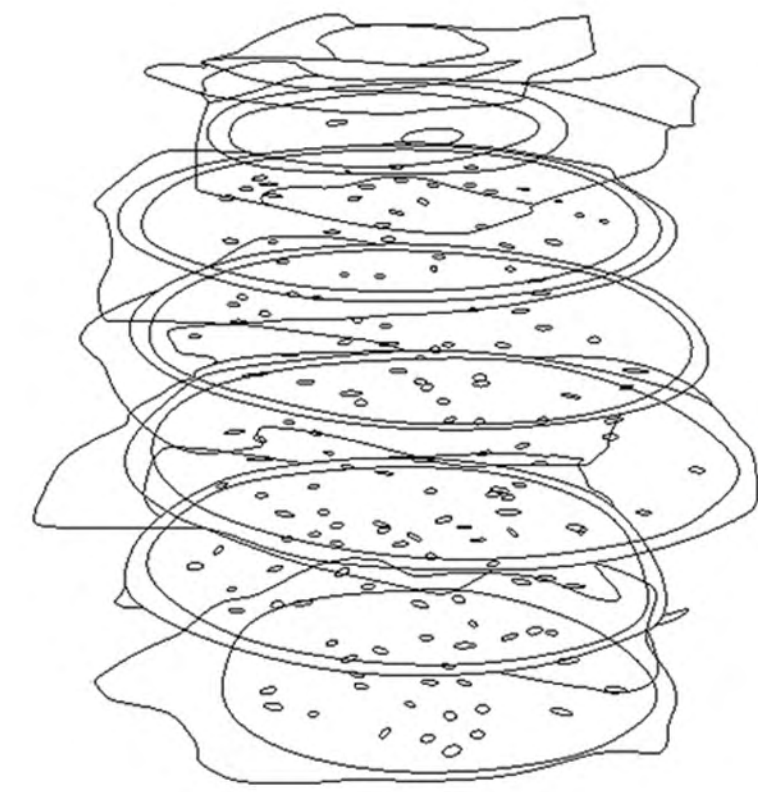


fig.3

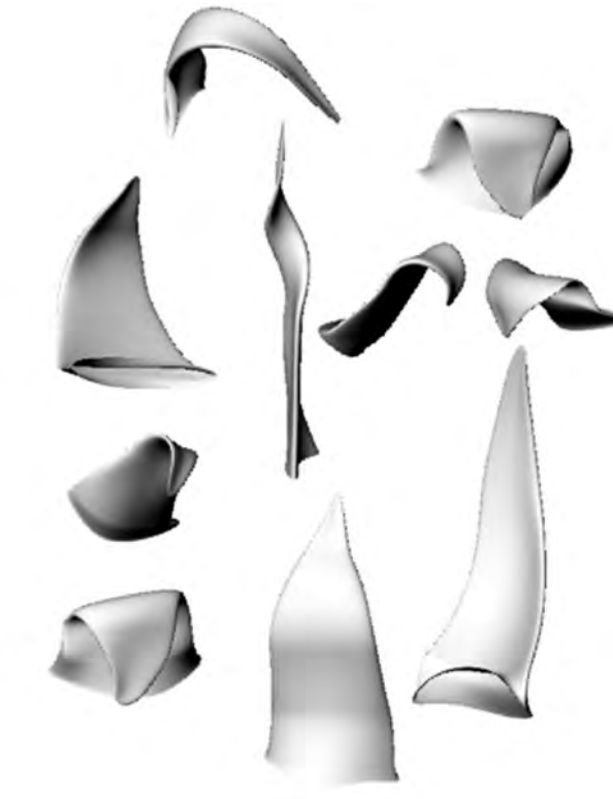


fig.4

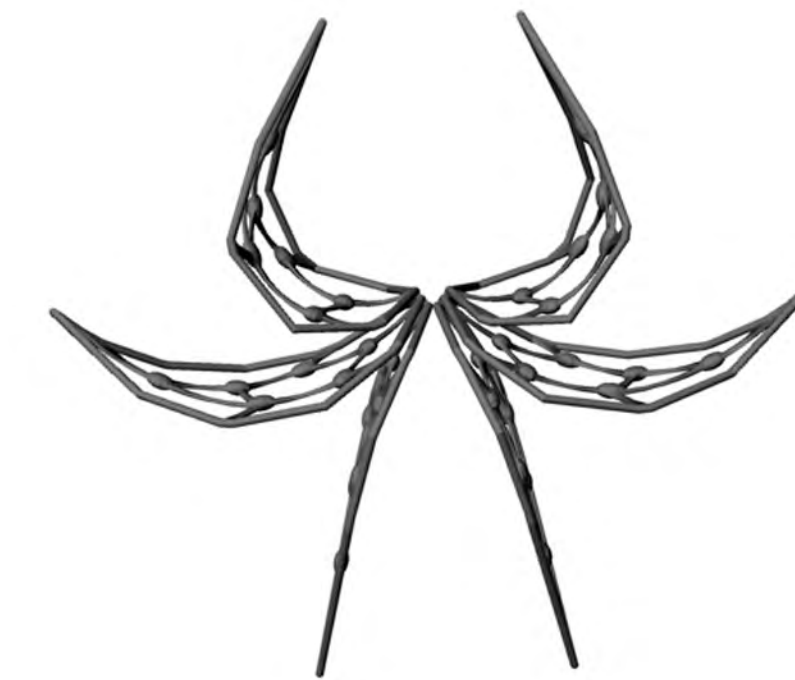


fig.6



fig.8

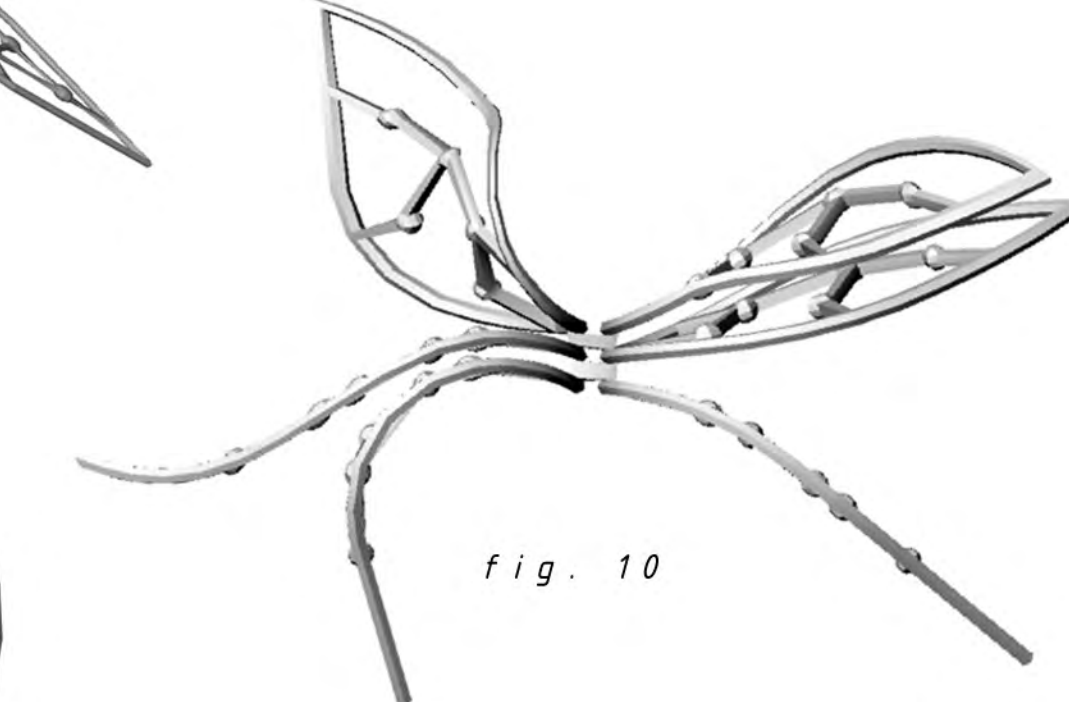


fig. 10

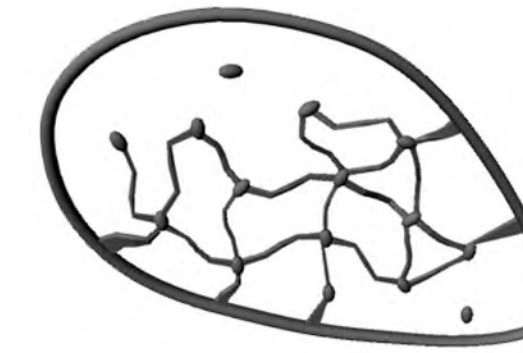


fig.5

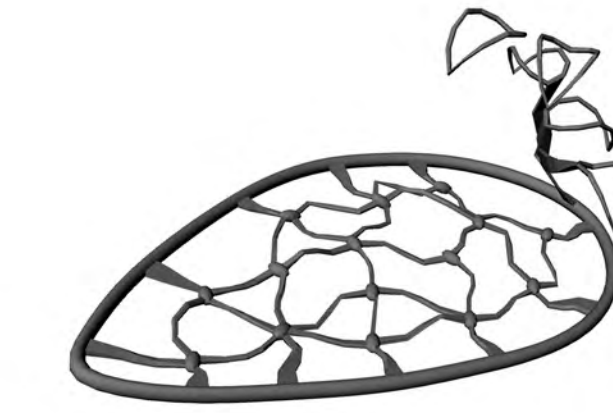


fig.7



fig.9



fig.13



fig.11

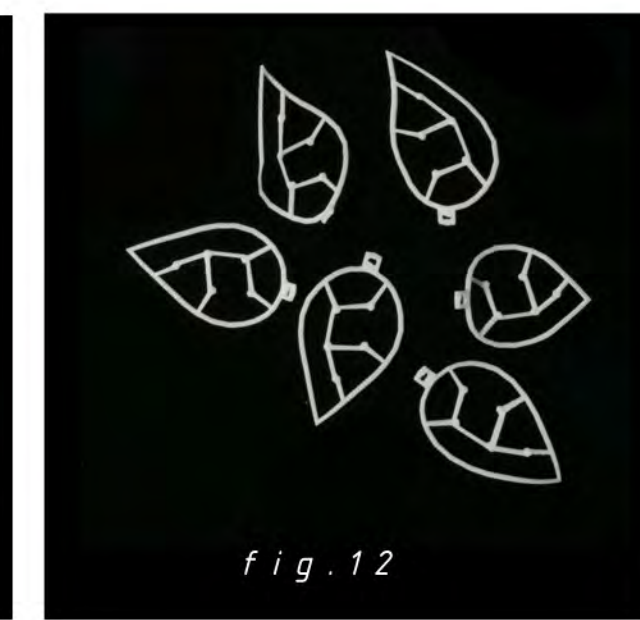


fig.12

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2011 - Student

fig.1: Dragon fruit - Scale 1:1 - Dimension mm.190 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:0.8 # fig.4: 3D Rhino Model Reconstruction # fig.5 - 9: 3D Rhino Transformation Process & 3D Renderings # fig.10: Final 3D Rendering # fig.11: Final Output Image # fig.12: Final Output Image # fig.13: Final Output Image



fig.1

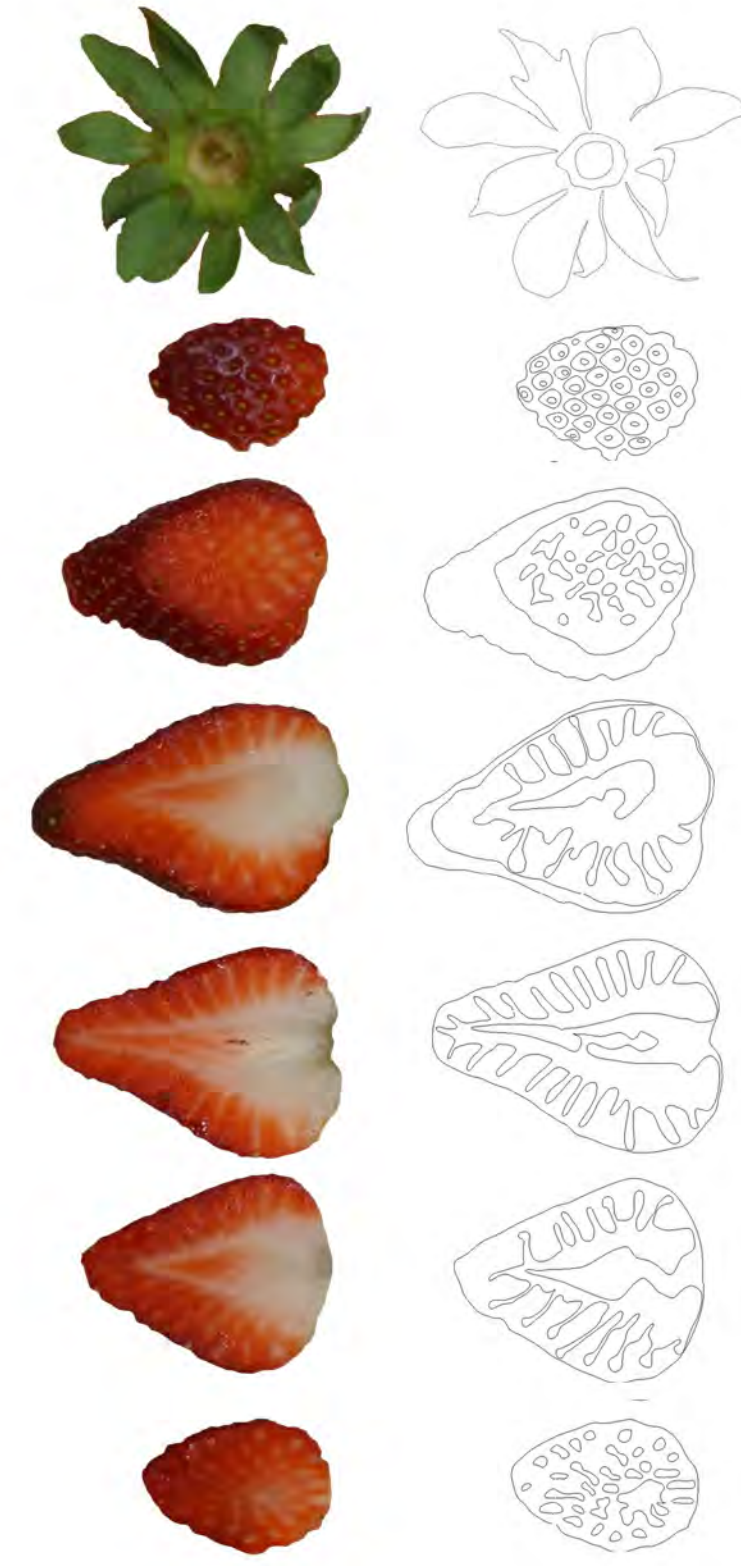
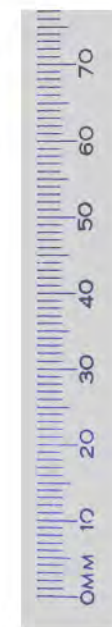


fig.2

fig.3

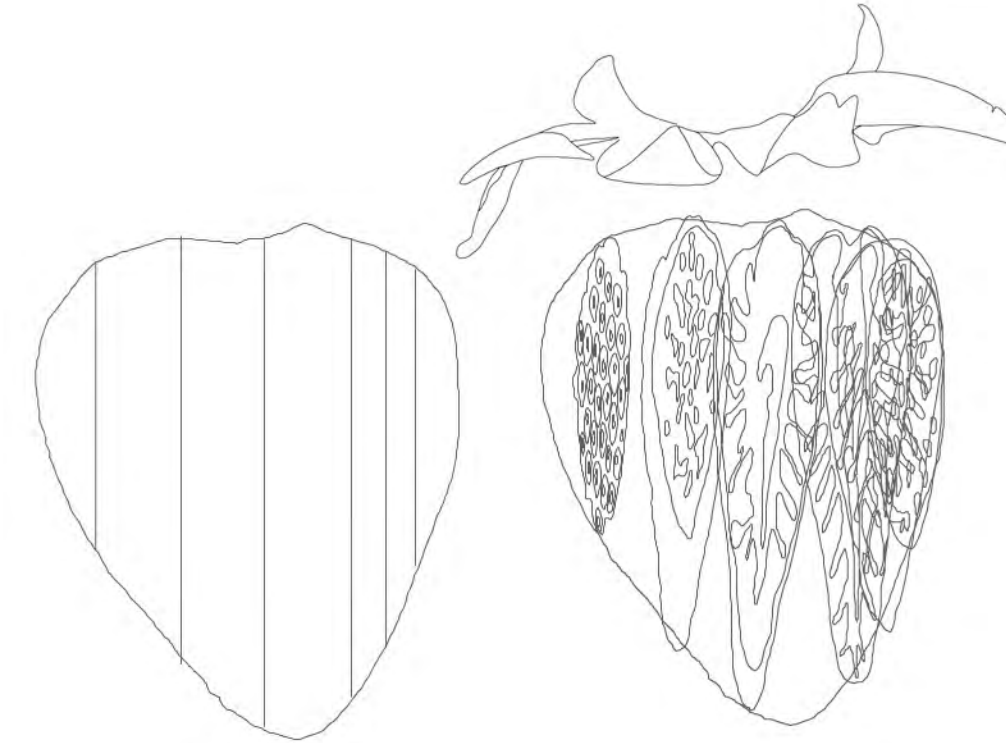


fig.4

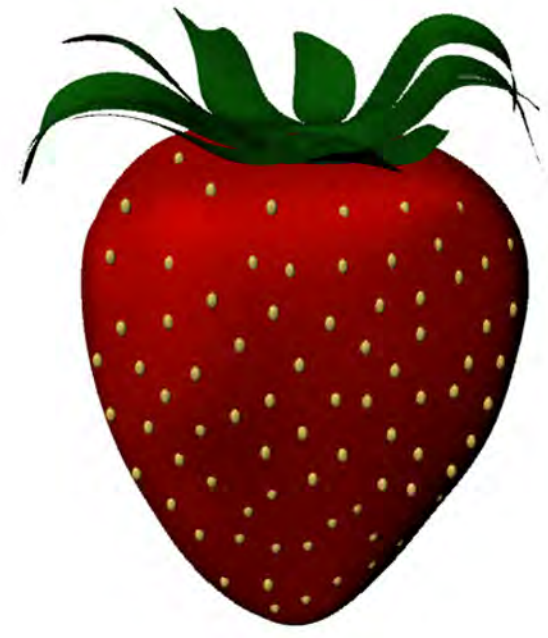


fig.5

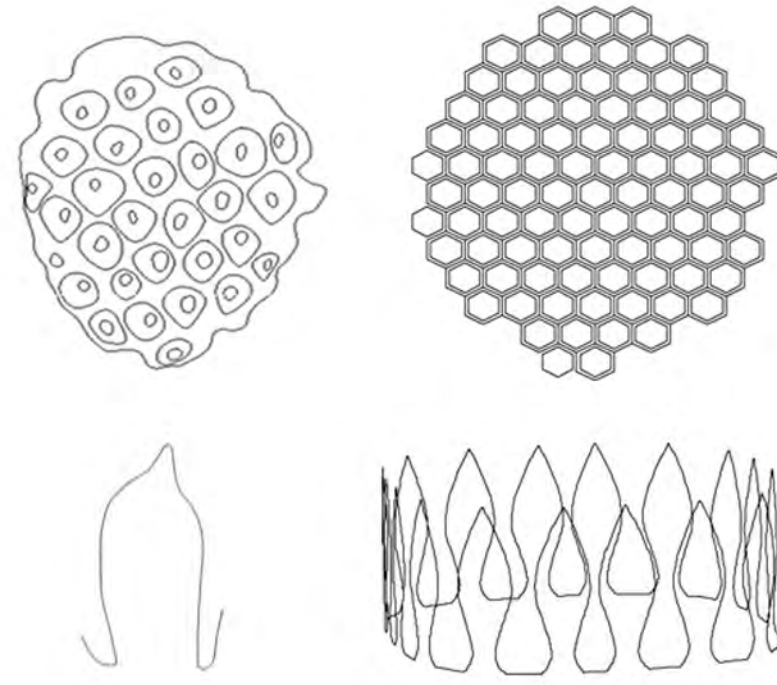


fig.6

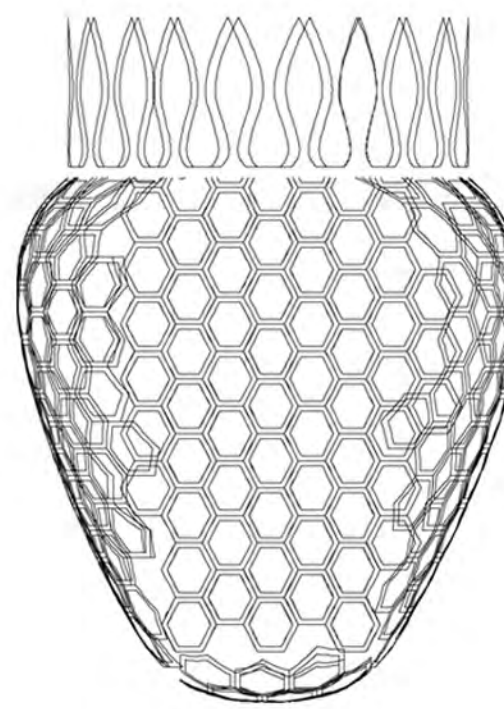


fig.7

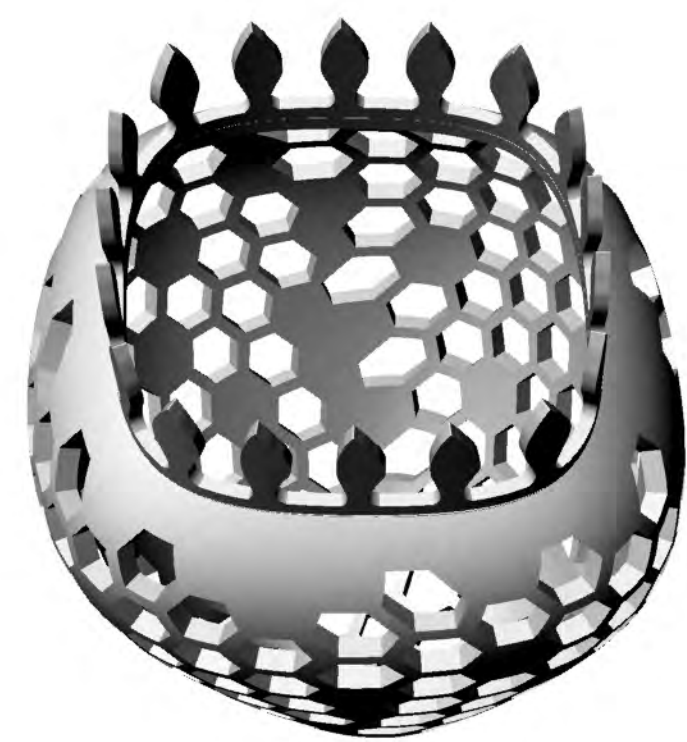
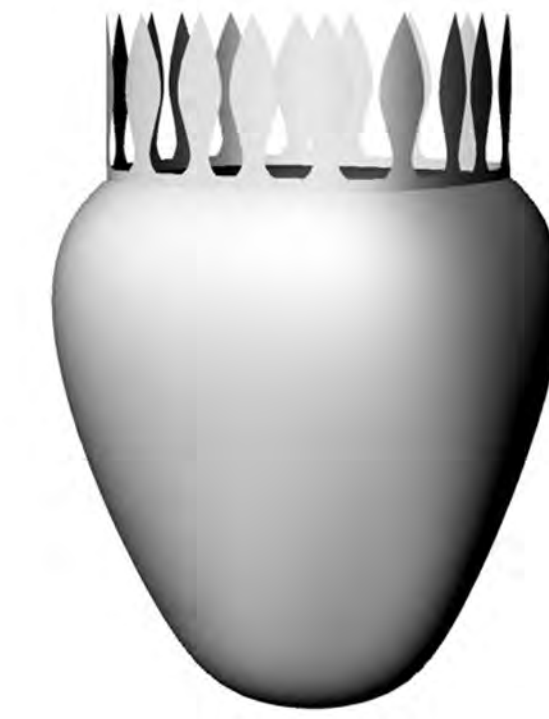


fig.8

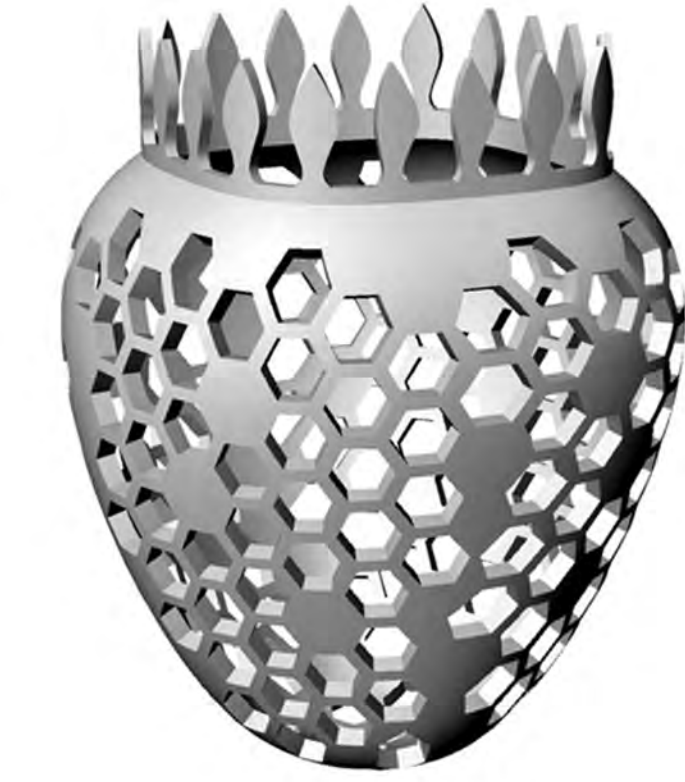


fig.9

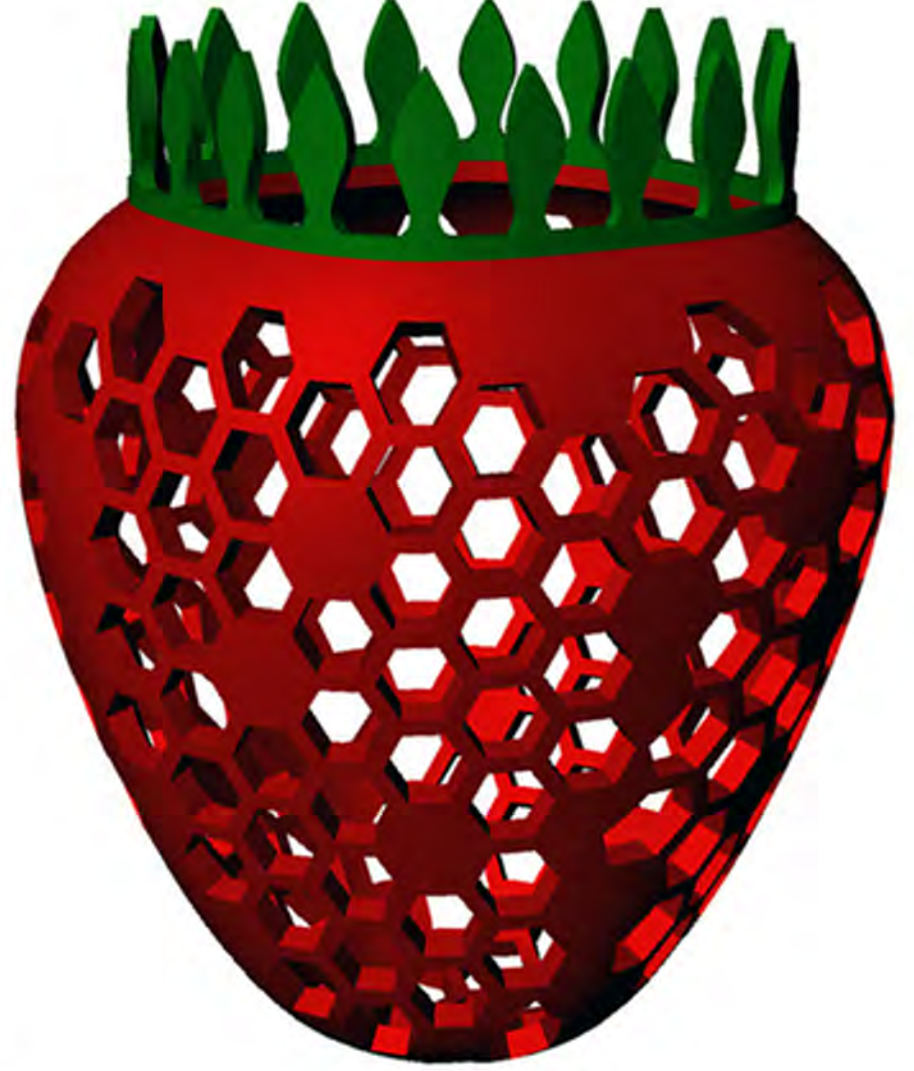


fig.12



fig.10



fig.11

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2011 - Chiang Ching Shan

fig.1: Strawberry - Scale 1:1 - Dimension mm.67 # fig.2: Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Renderings # fig.6: Pattern Transformation Process # fig.7: Wireframe of Model # fig.8: 3D Rhino Transformation Process # fig.9: Final 3D Rendering # fig.10: Final Output Image # fig.11: Final Output Image # fig.12: Final Output Image



fig.1



fig.2

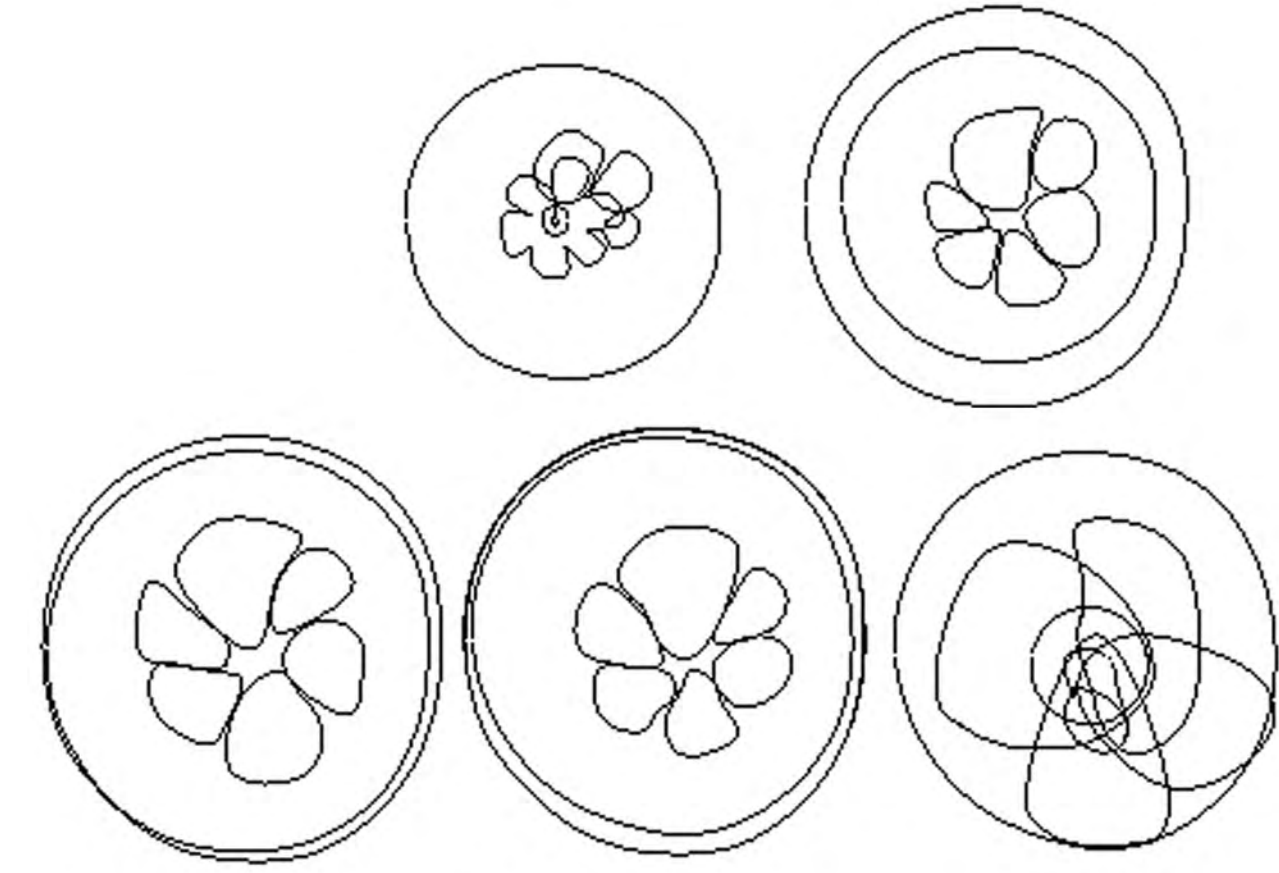


fig.3

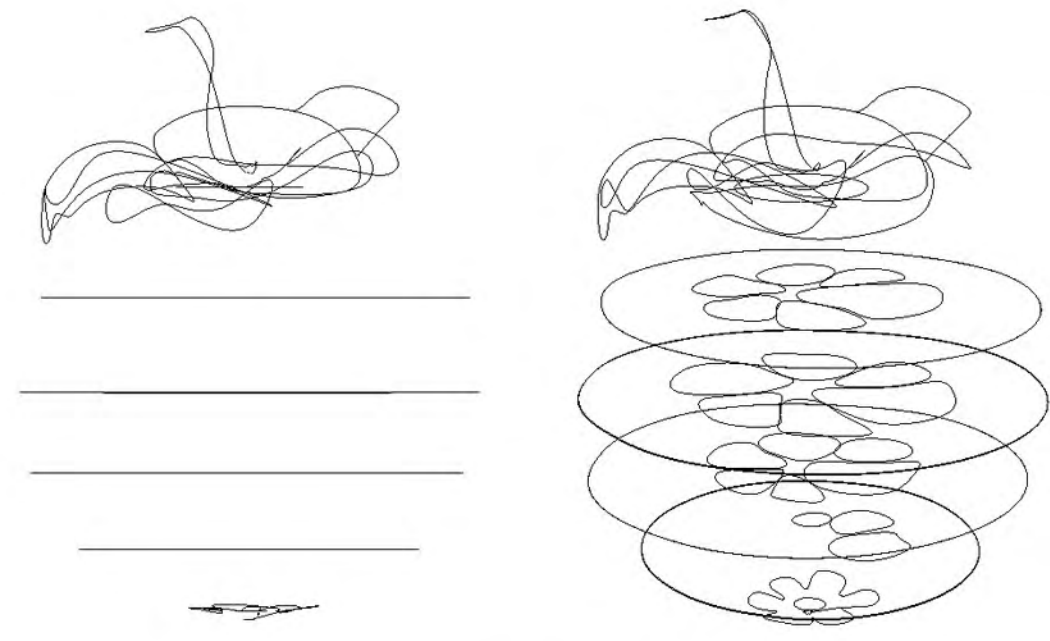


fig.4

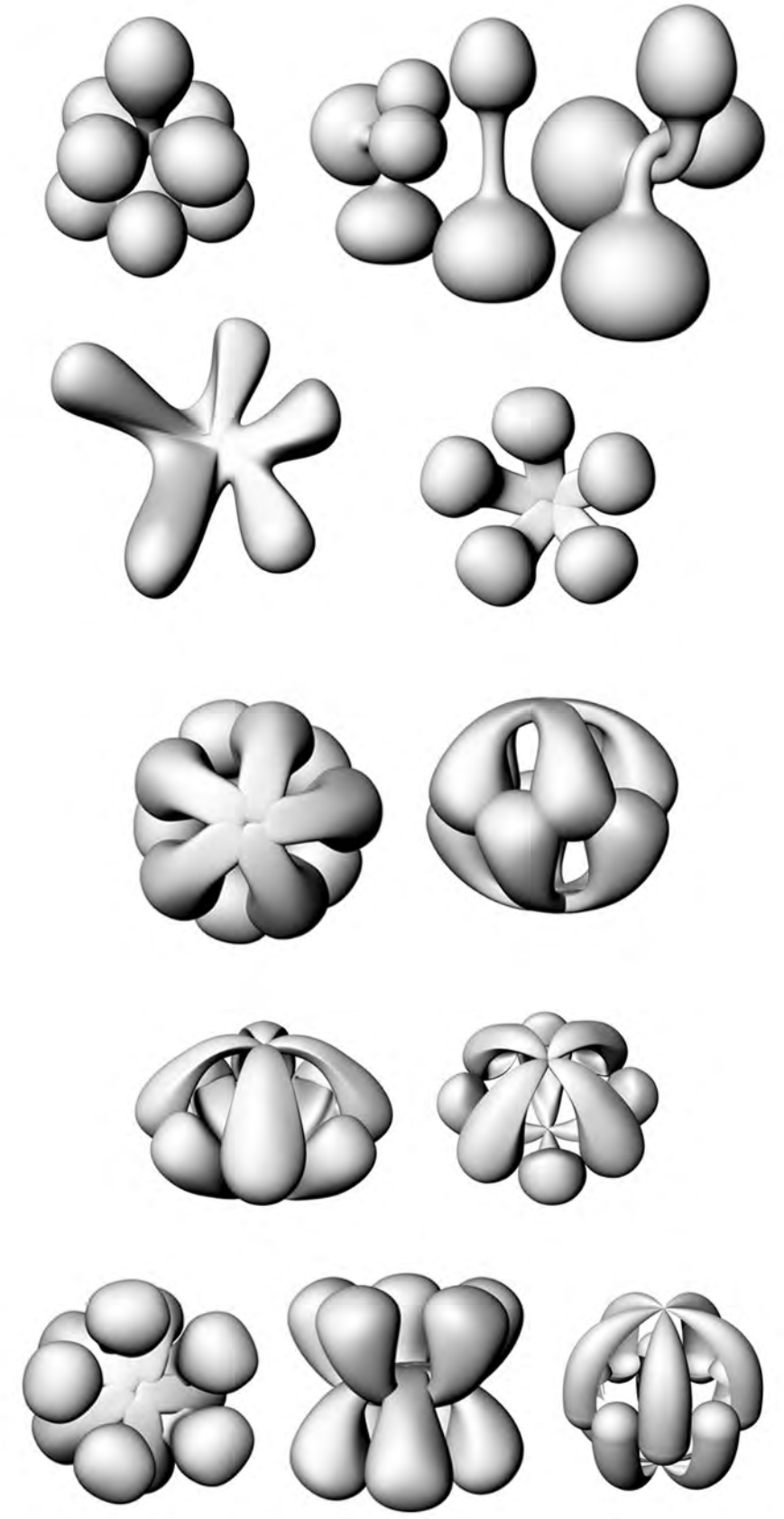


fig.5

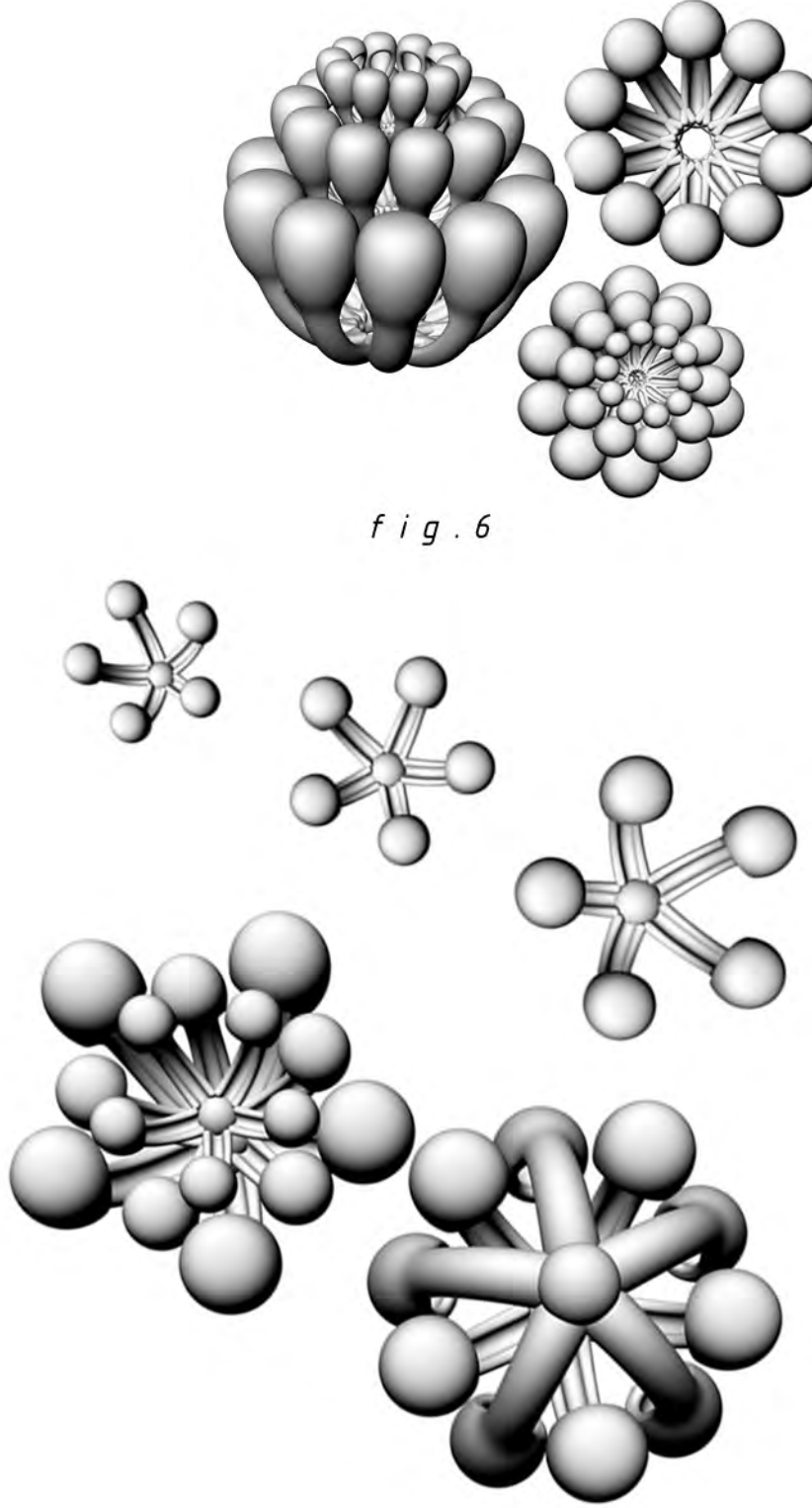


fig.6

fig.7

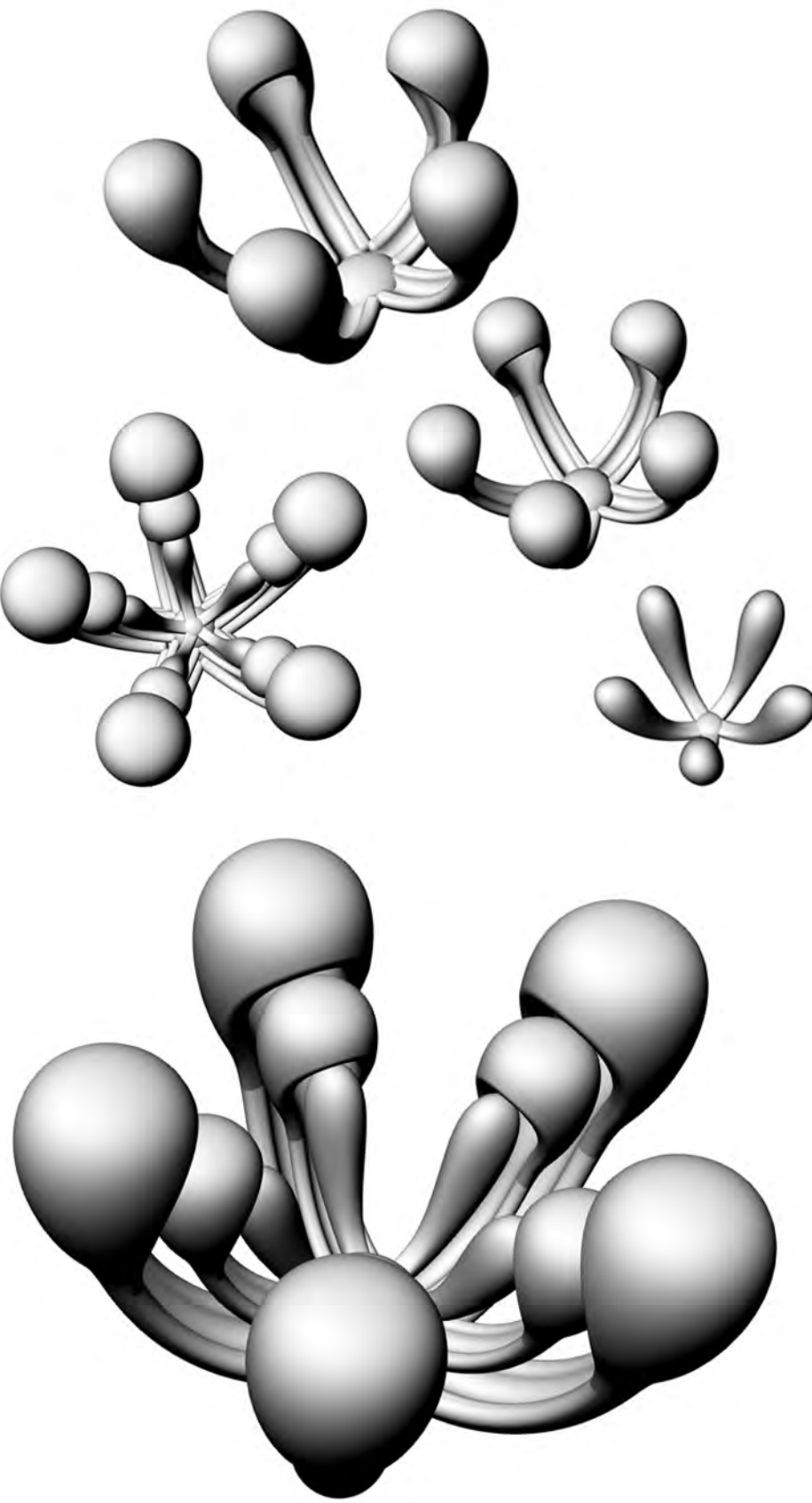


fig.8



fig.11



fig.9



fig.10

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2011 - Nurul Husna Ngaliman

fig.1: Mangosteen - Scale 1:1 - Dimension mm.80 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process: Exploration of the round form # fig.6: 3D Rendering: Manipulation & Multiplication of Units # fig.7: Testing of Final Outcome # fig.8: Final Output Image in 3D Rendering : Mother Mangosteen # fig.9: Final Output Image # fig.10: Final Output Image # fig.11: Final Output Image # fig.12: Final Output Image



fig.1



fig.2

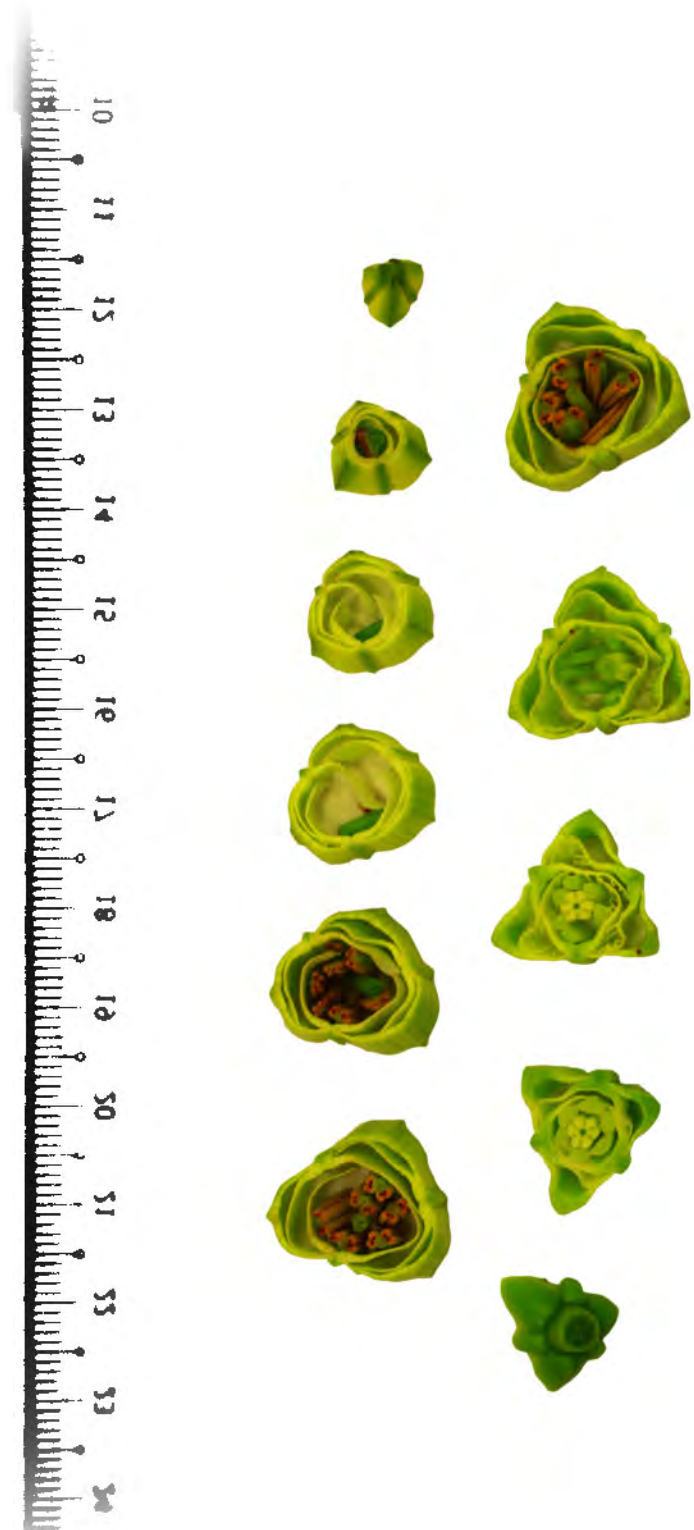


fig.3

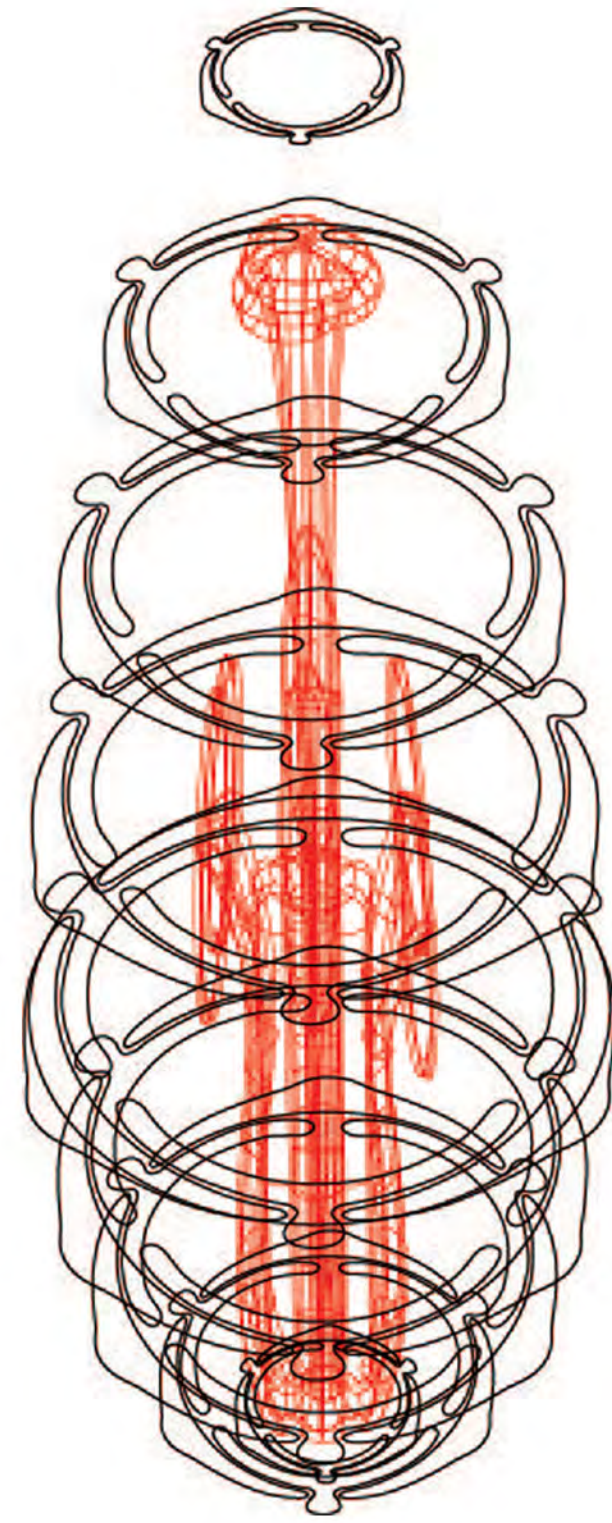


fig.4

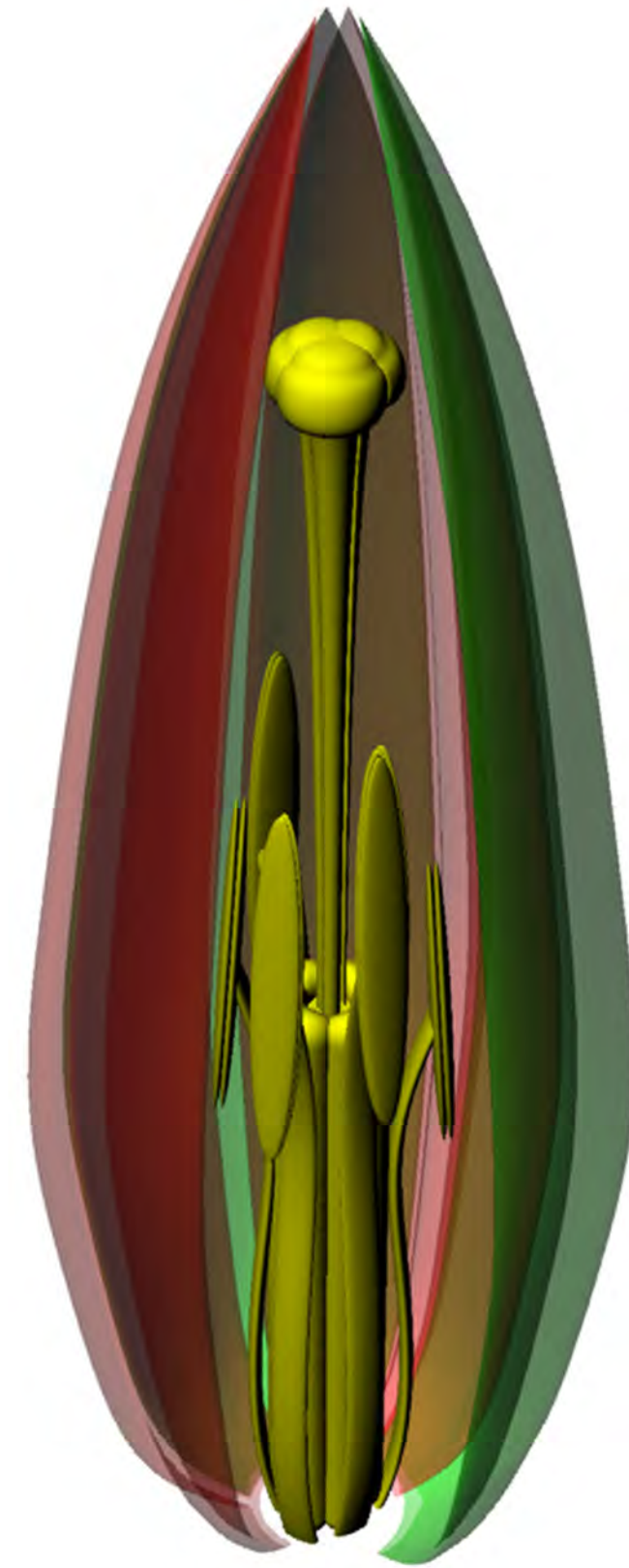


fig.5



fig.6

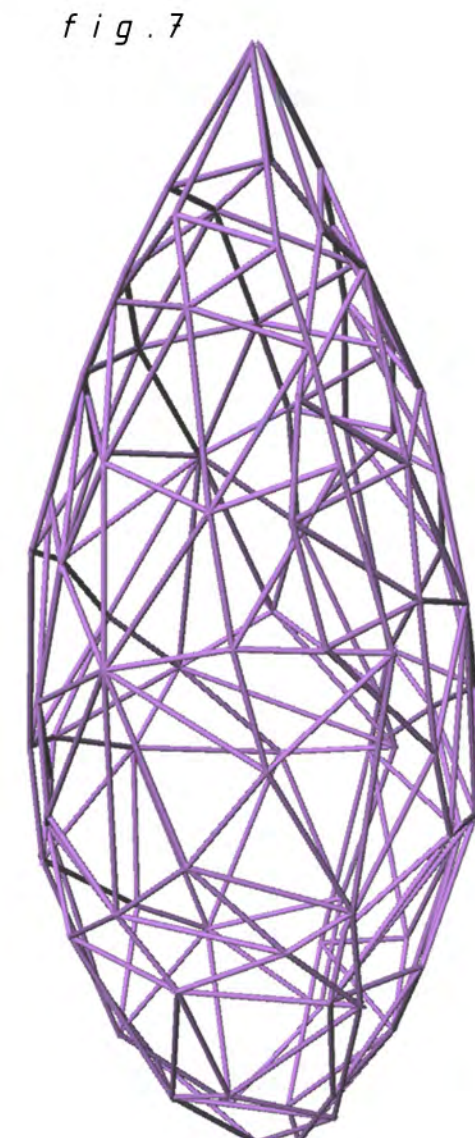


fig.7



fig.8



fig.9

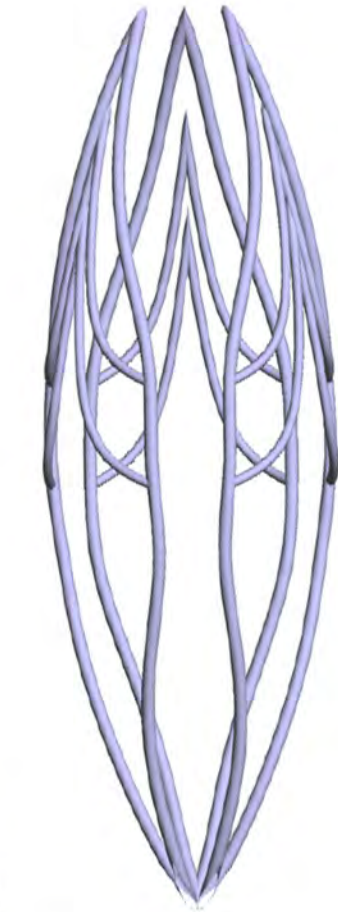


fig.10

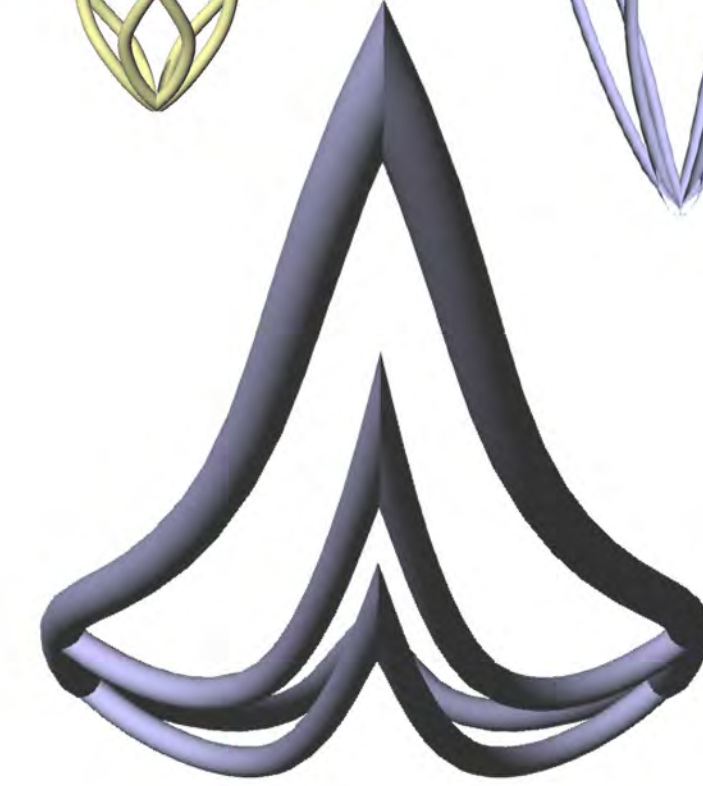


fig.11

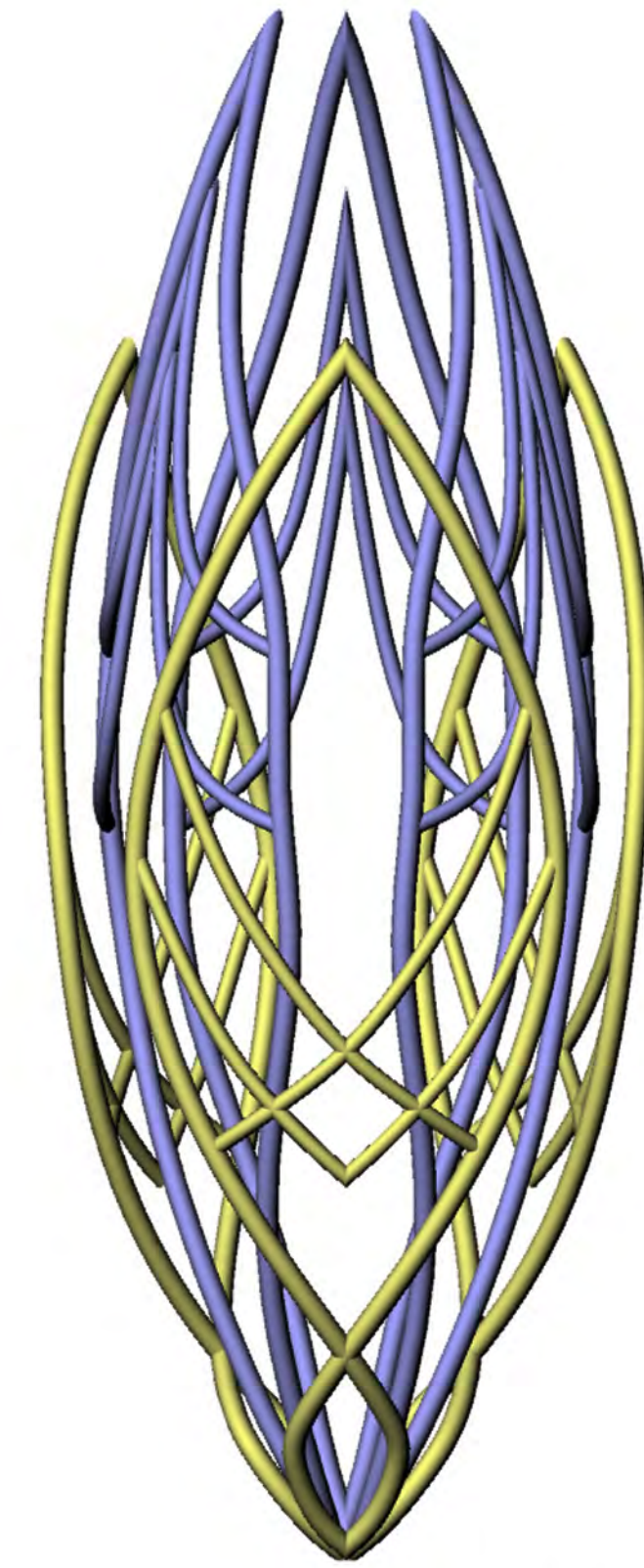


fig.12



fig.15



fig.13



fig.14

from Natural to Artificial
- PR0330
- Advanced Form Workshop - Fall 2011
- Nicholas Ong Thian Chai

fig.1: Lily Bud in stalk # fig.2: Lily Bud - Scale 1:1 - Dimension mm.140 # fig.3: Points & Sections - Photoscan - Scale 1:1 # fig.4: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.5: 3D Rhino Model Reconstruction # fig.6 & 7: 3D Rhino Transformation Process # fig.8,9,10 & 11: 3D Rhino Transformation Process Details # fig.12: Rendered View # fig.13,14 & 15 : Finished Output Image



fig.1



fig.2

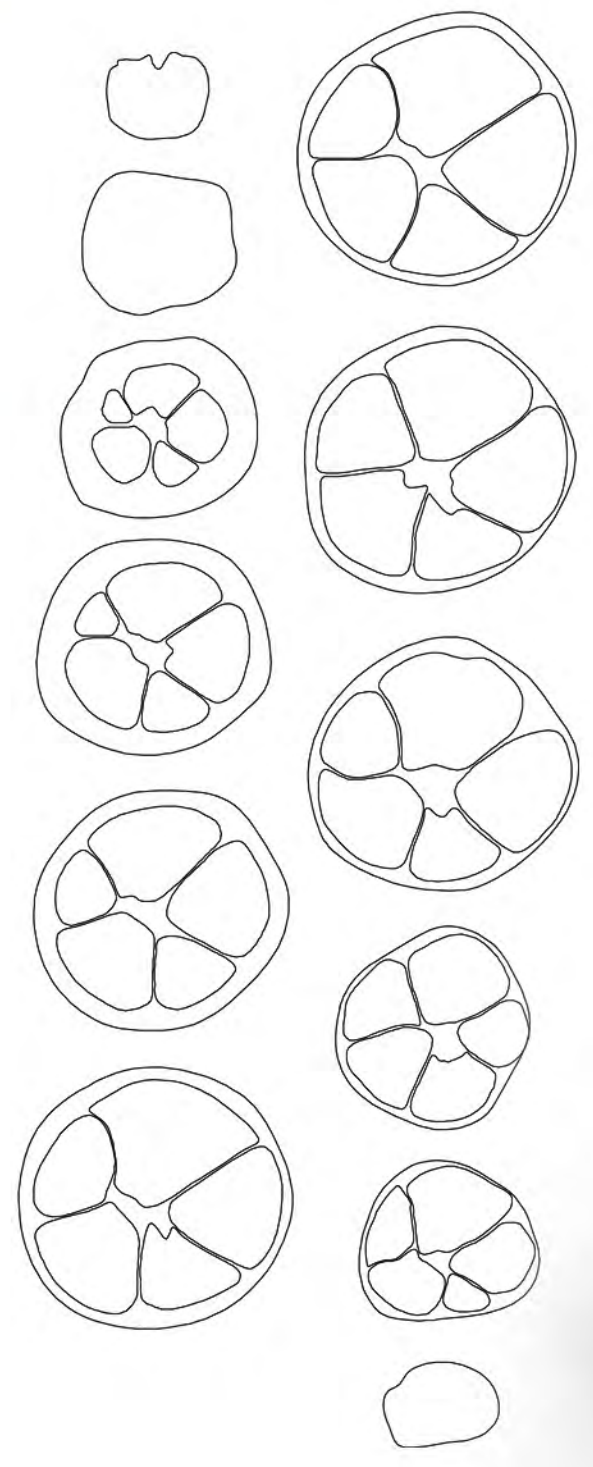


fig.3

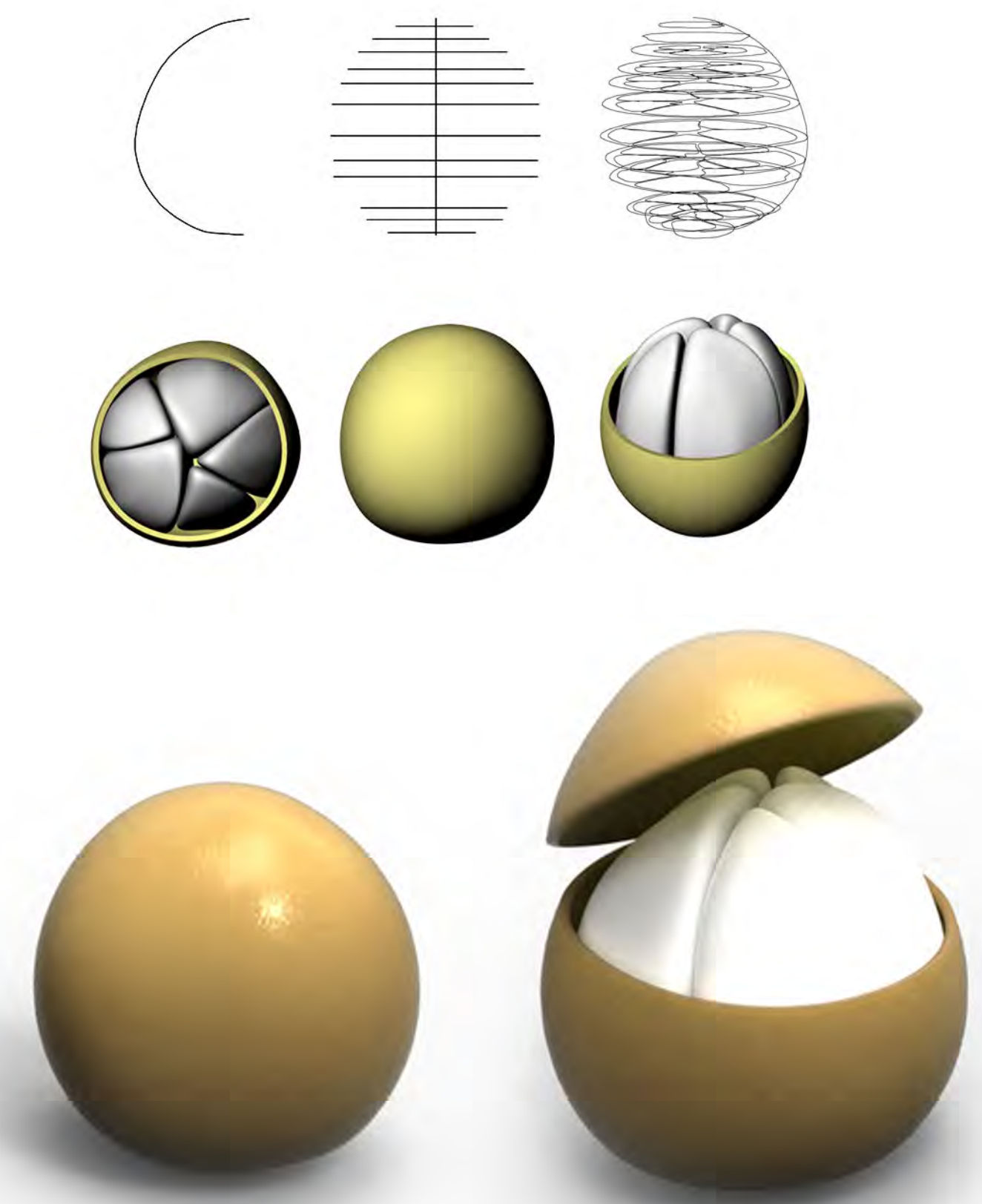


fig.4

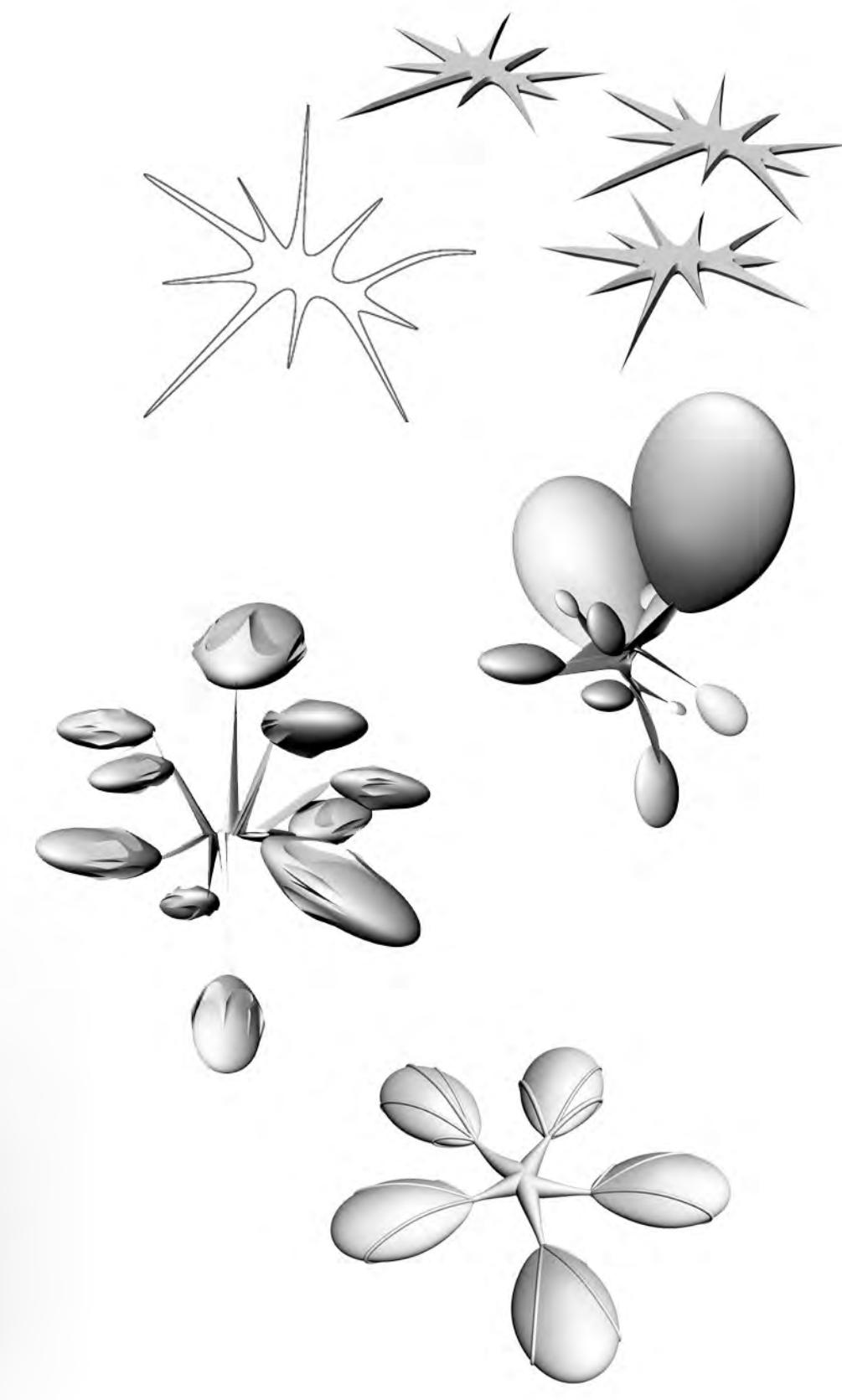


fig.5

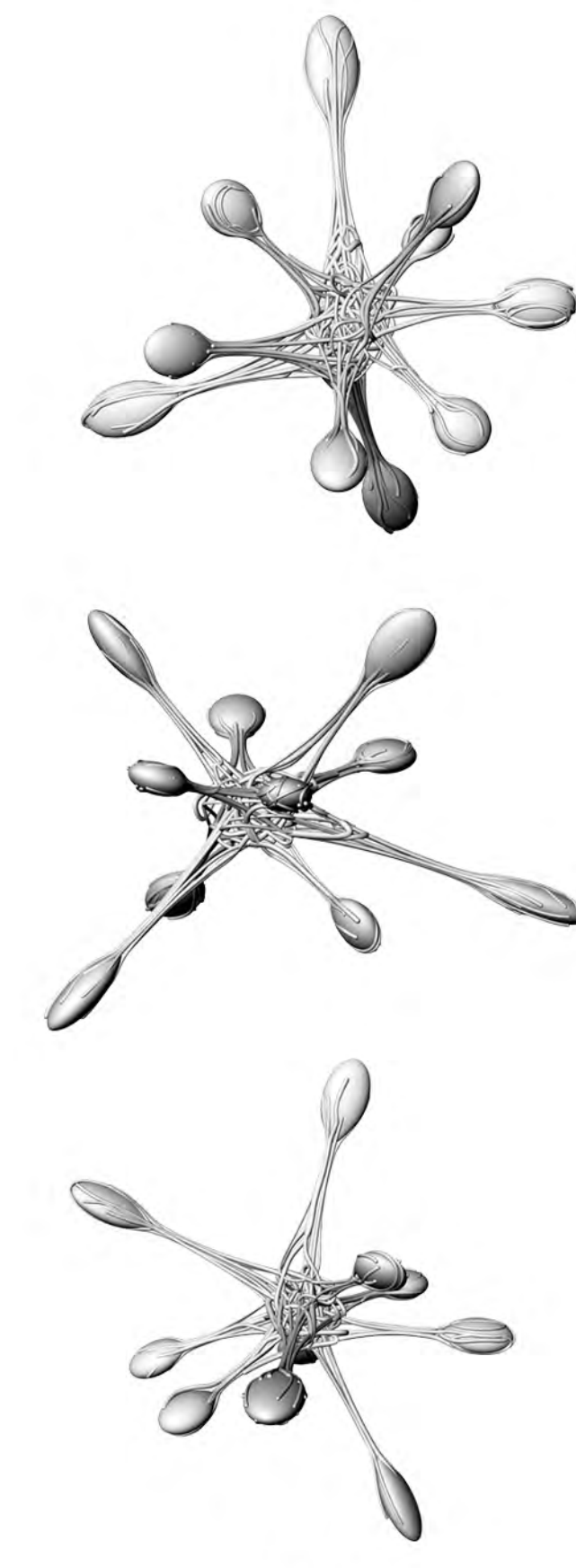


fig.6

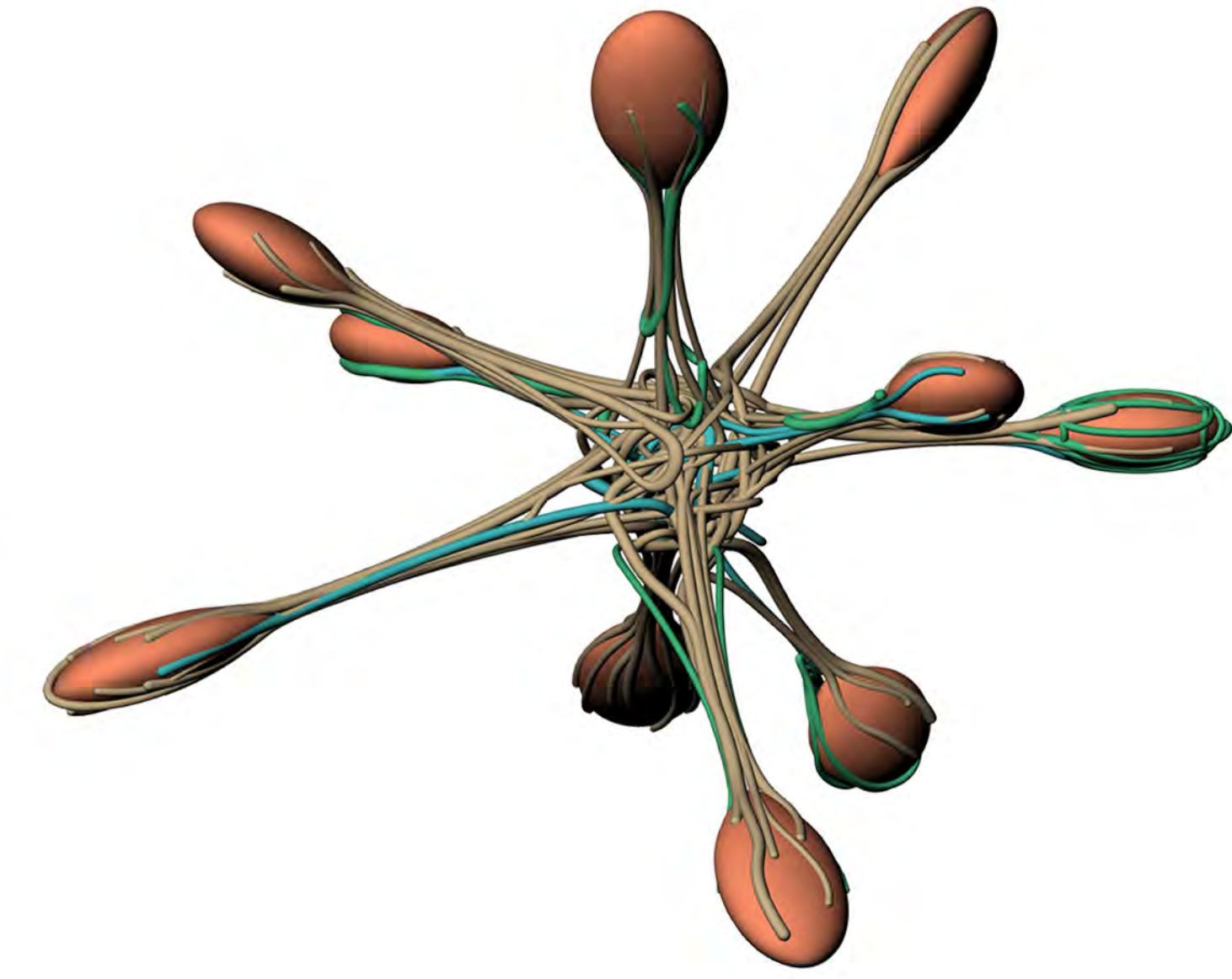


fig.7



fig.10



fig.8

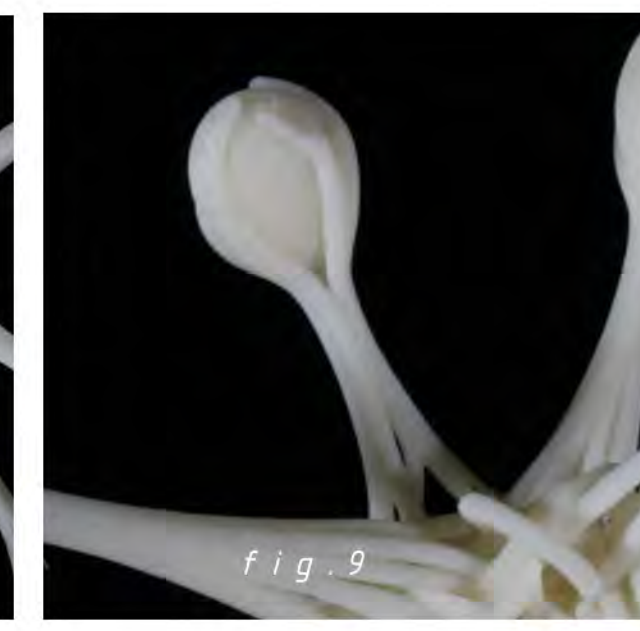


fig.9

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2011 - Wee Yen Lynn

fig.1: Duku - Points - Scale 1:1 - Dimension mm.37 # fig.2: Sections - Photoscan - Scale 1:1 # fig.3: Sections - 2D Graphic Reconstruction - Scale 1:1 # fig.4: From Outlines - 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Renderings # fig.7: Final 3D Rendering # fig.8: Final Output Image # fig.9: Final Output Image # fig.10: Final Output Image



fig.1

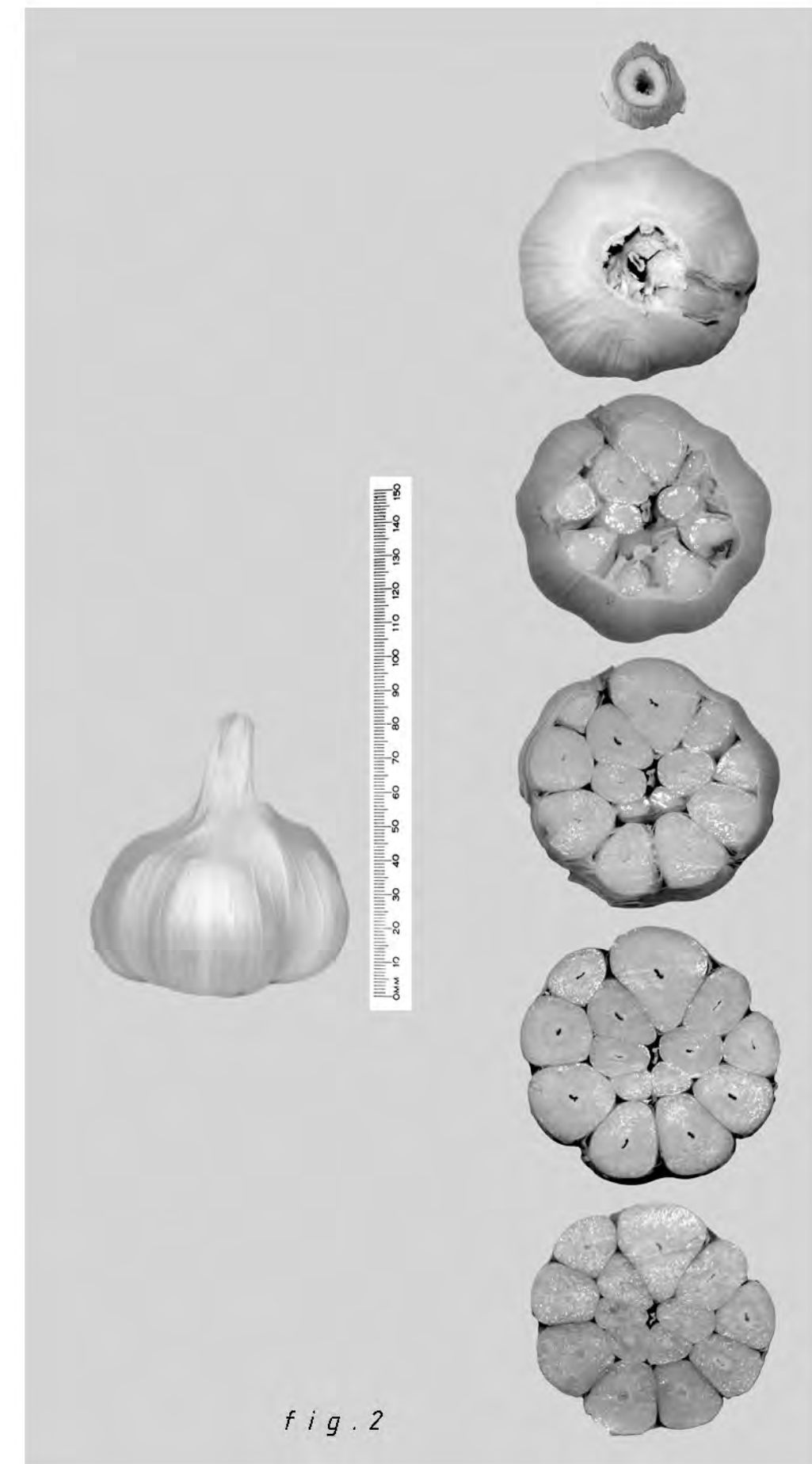


fig.2

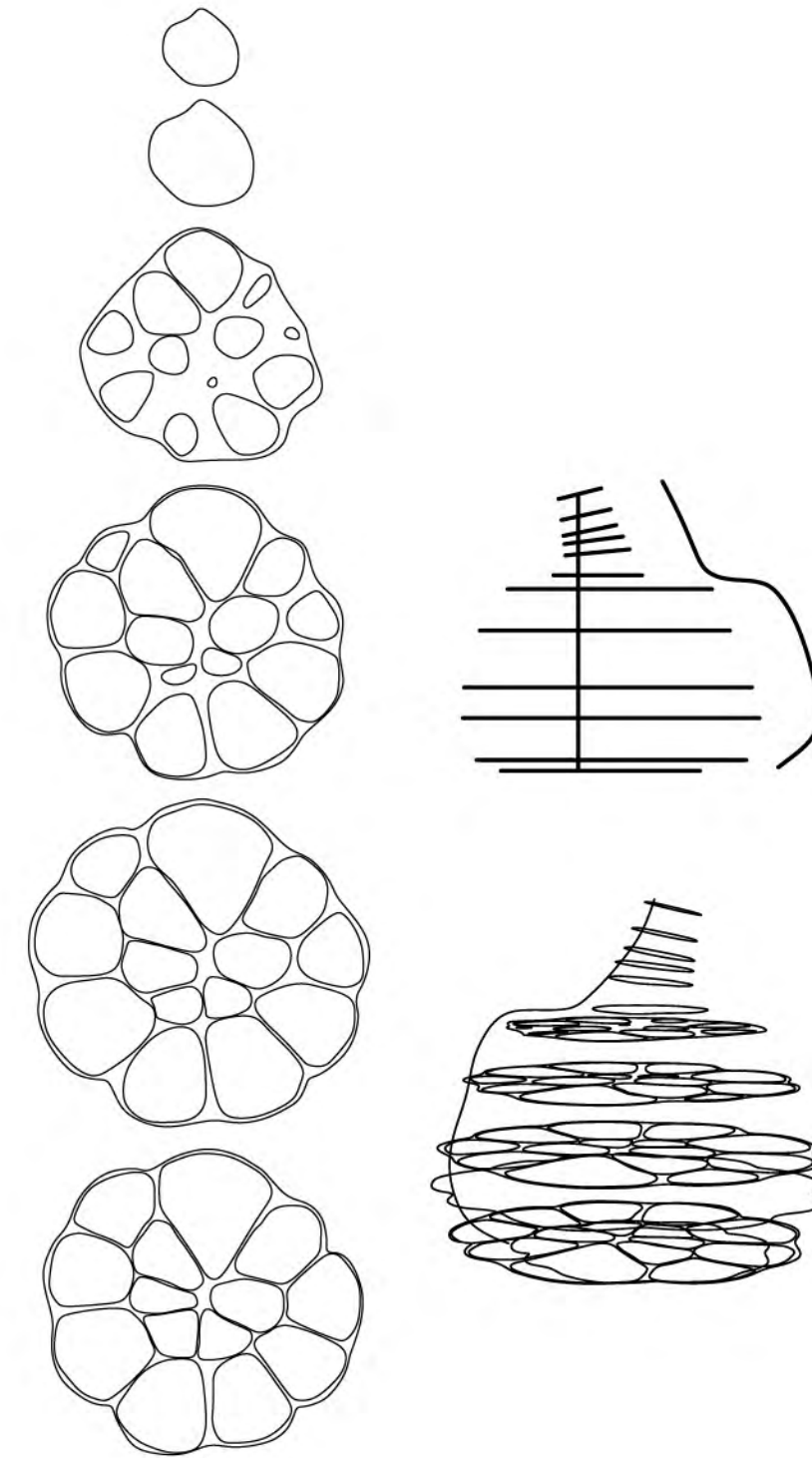


fig.3



fig.4

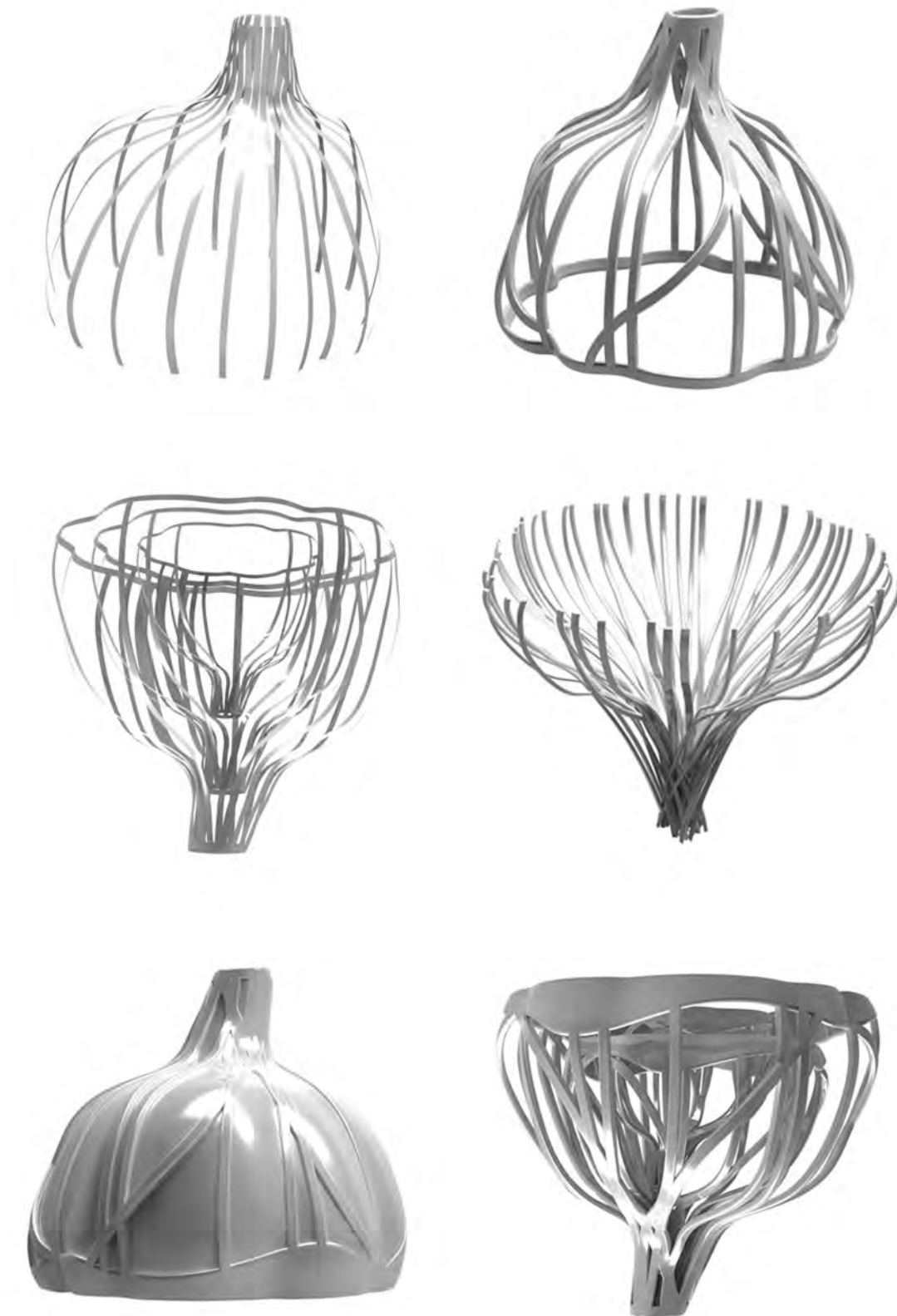


fig.5

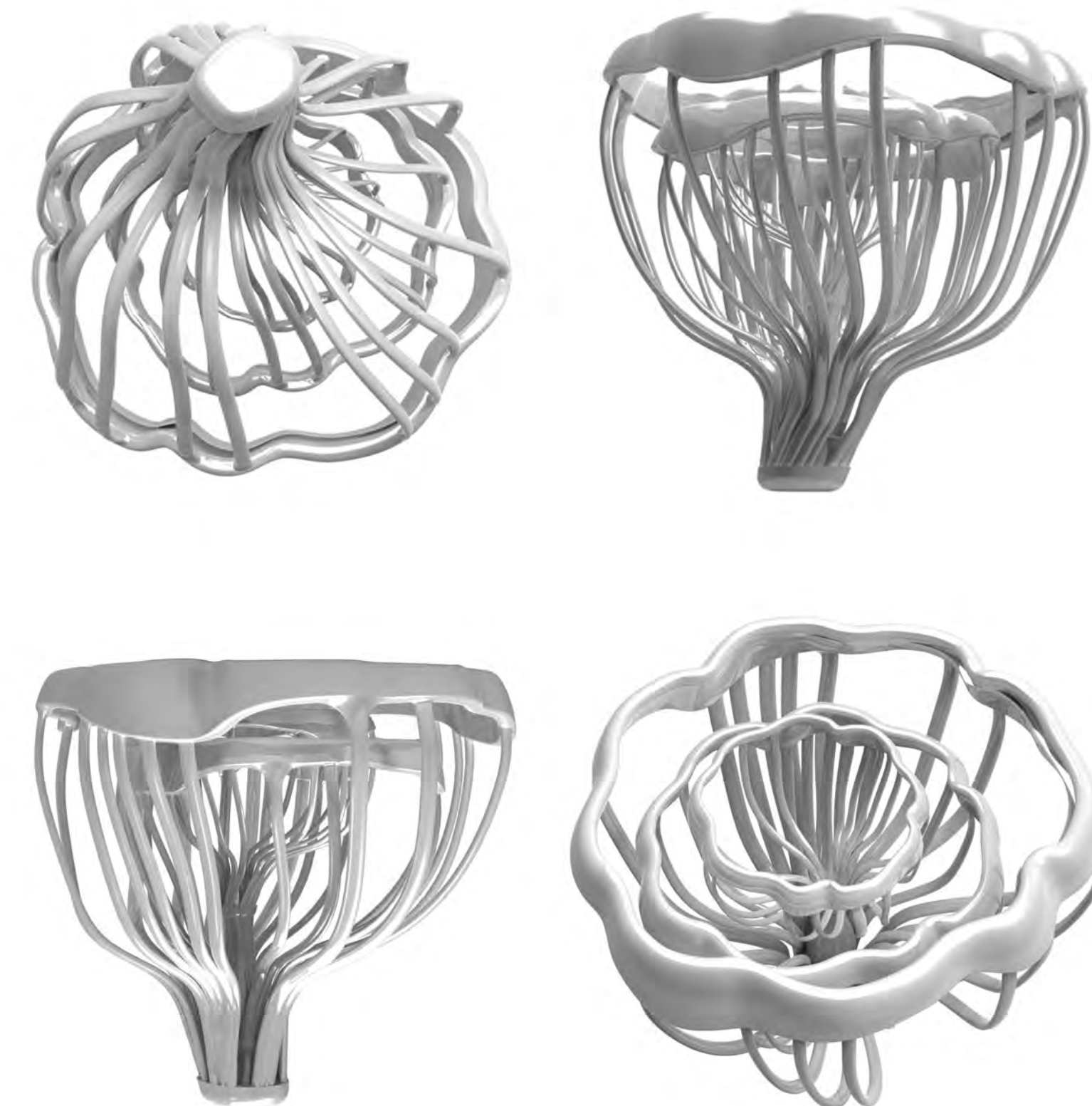


fig.6



fig.7



fig.8

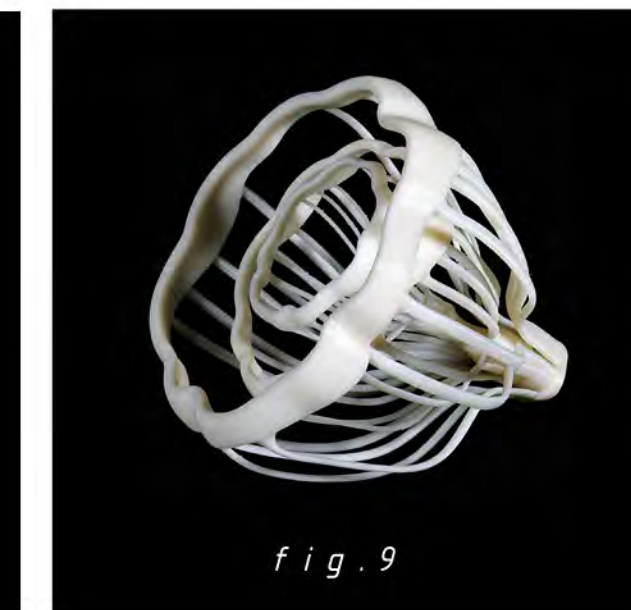


fig.9

from Natural to Artificial - PR0330 - Advanced Form Workshop - Fall 2011 - Tay Zane Eston

fig.1: Garlic - Dimension 140x110mm # fig.2: Points & Sections - Photoscan # fig.3: Sections - 2D Graphic Reconstruction # fig.4: 3D Rhino Model Reconstruction # fig.5: 3D Rhino Transformation Process # fig.6: 3D Renderings # fig.7: Final Output Image # fig.8: Final Output Image # fig.9: Final Output Image



fig.1



fig.2

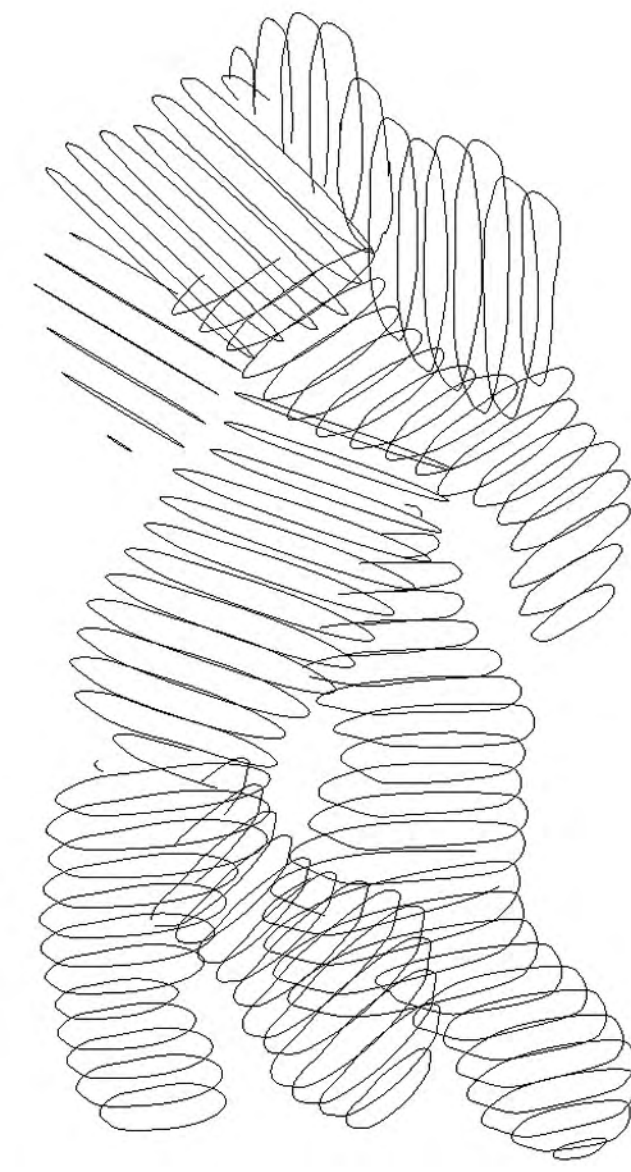


fig.3



fig.4

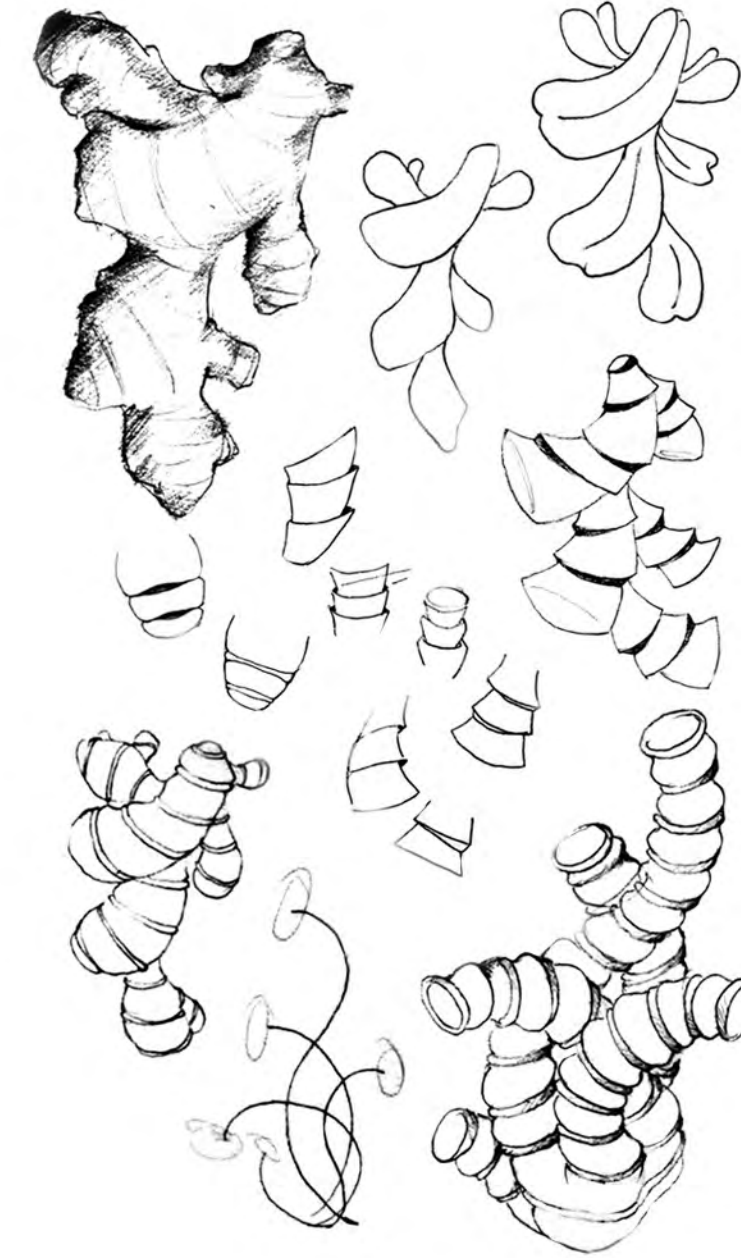


fig.5

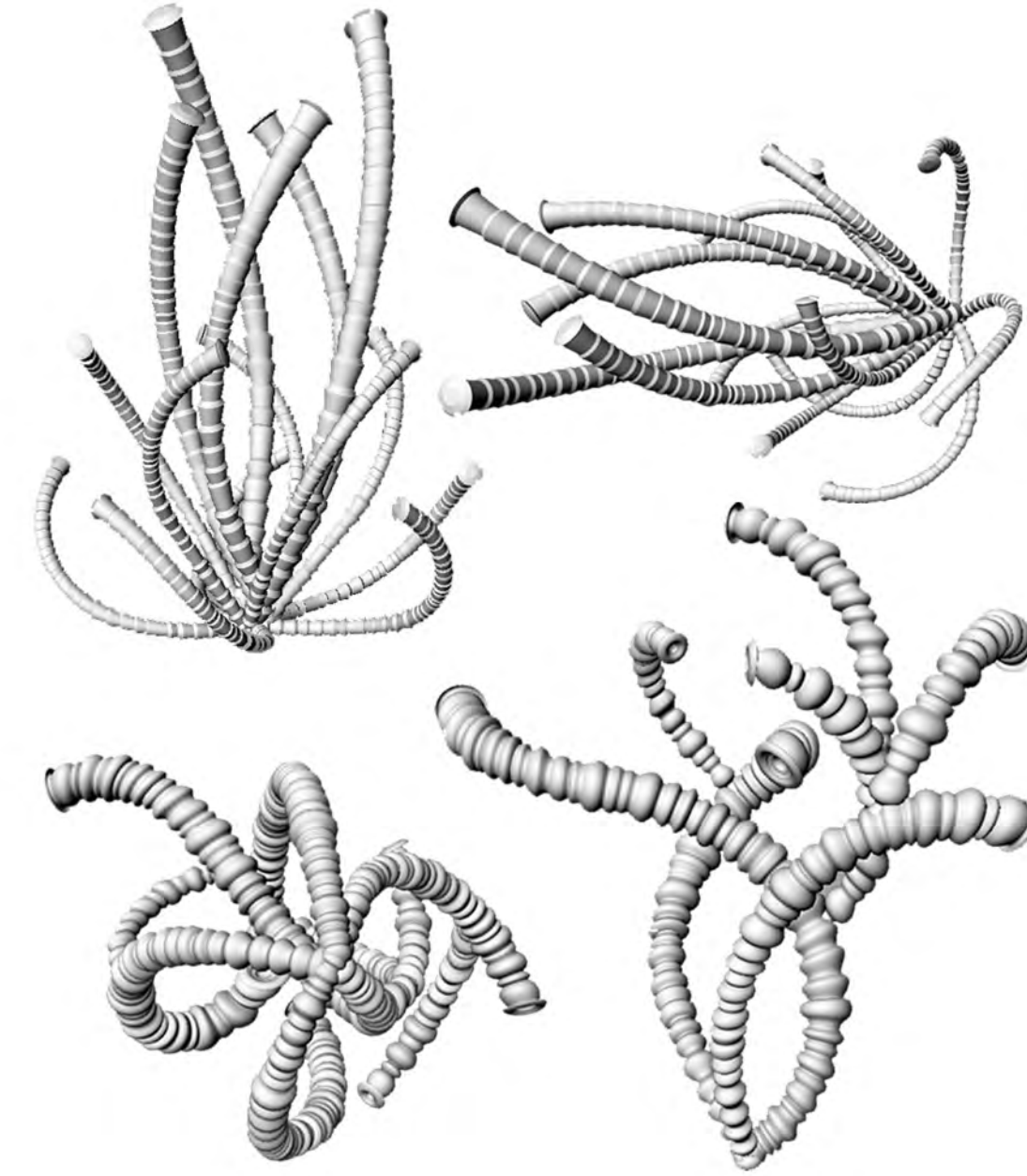


fig.6



fig.7



fig.10



fig.8



fig.9

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fig.1: Ginger - Scale 1:1 - Dimension mm.200 # fig.2: Points & Sections - Photoscan - Scale 1:1 # fig.3: Sections - 3D Graphic Reconstruction - Scale 1:1 # fig.4: 3D Rhino Model Reconstruction # fig.5: 2D Sketches # fig.6: 3D Rhino Transformation Process # fig.7: 3D Renderings # fig.8: Final Output Image # fig.9: Final Output Image # fig.10: Final Output Image



fig.1

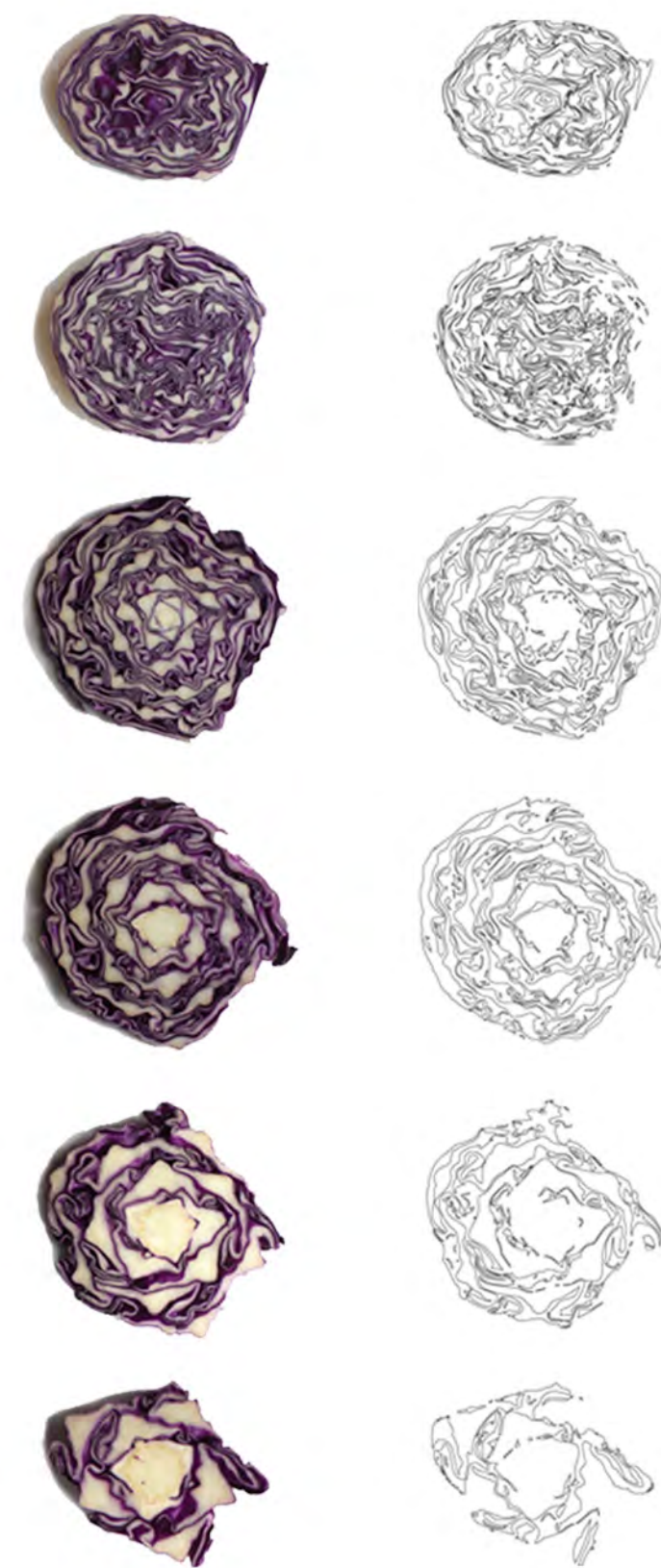


fig.2

fig.3



fig.4a

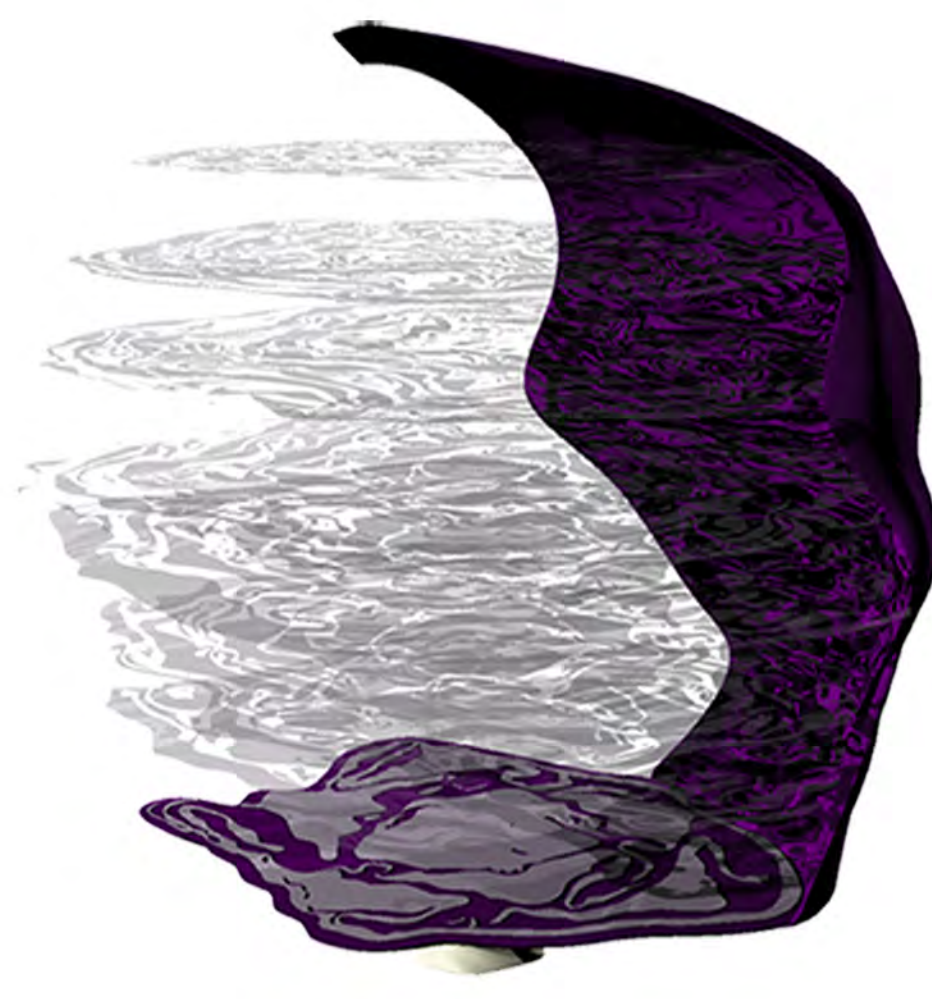


fig.4b

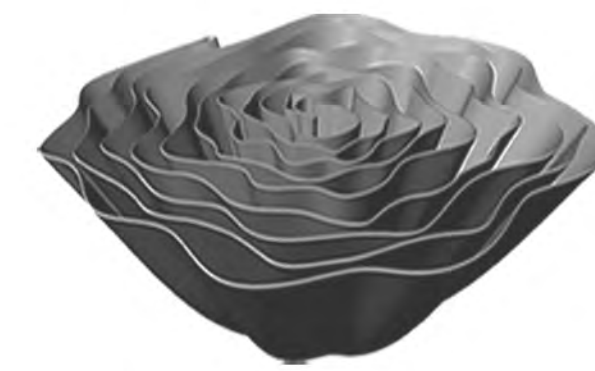


fig.5a

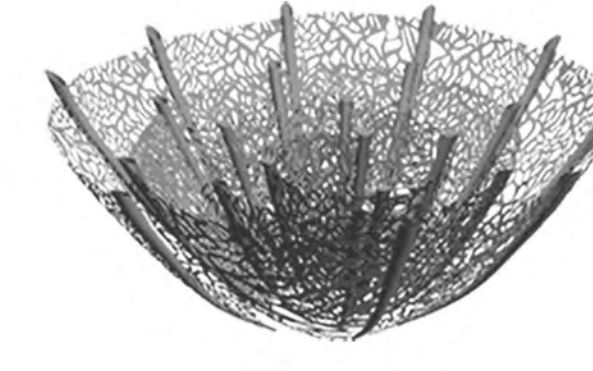


fig.5d

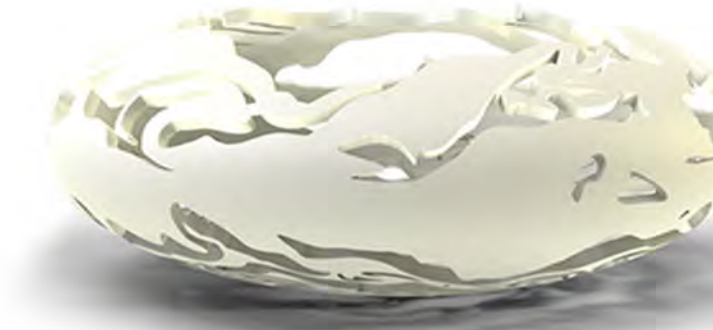


fig.6a

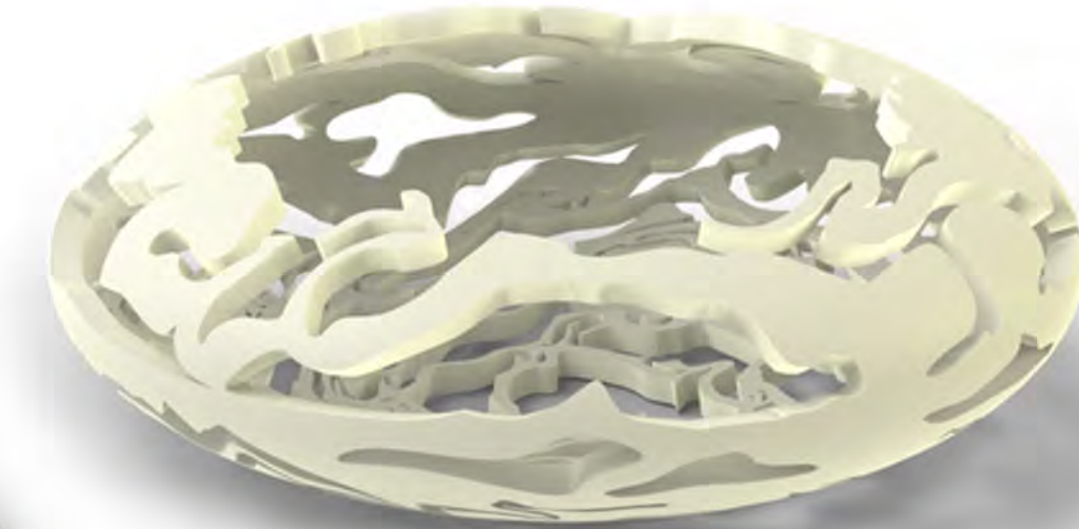


fig.6c



fig.9

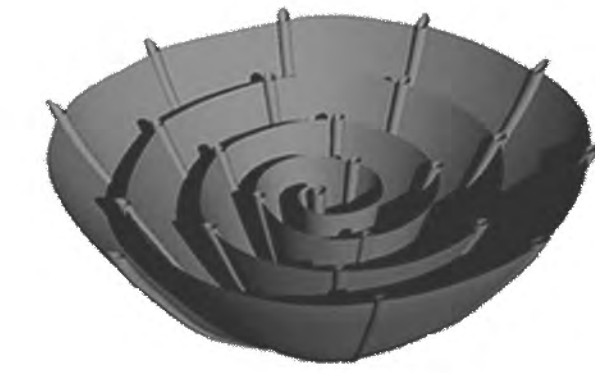


fig.5b

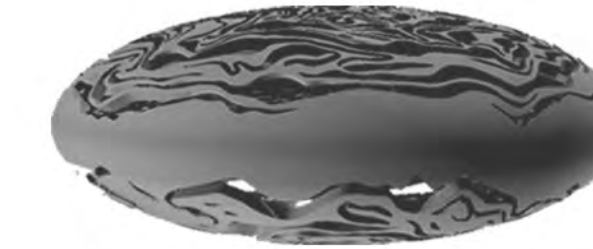


fig.5e

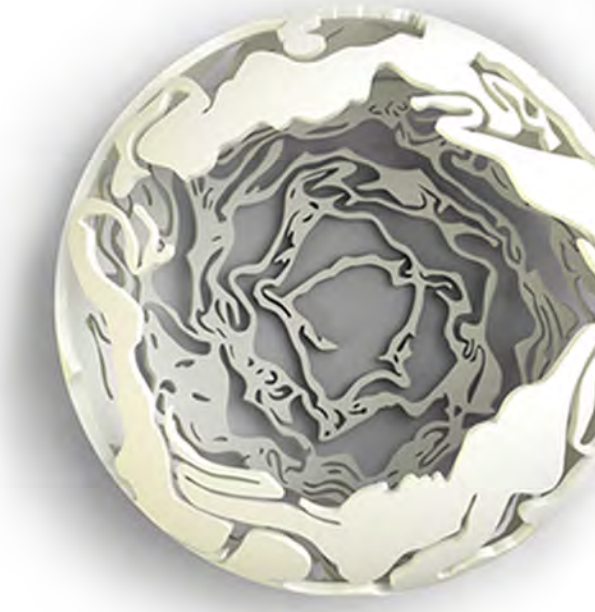


fig.6b



fig.7



fig.8

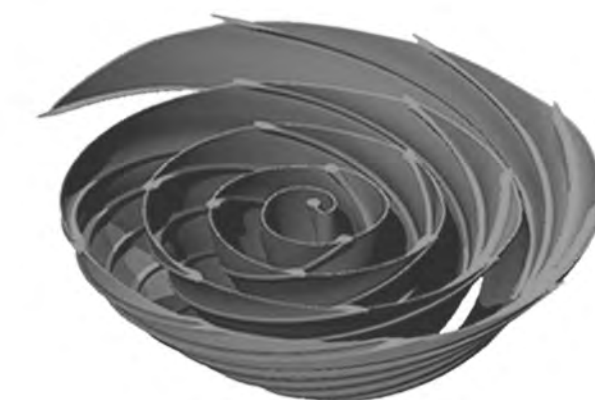


fig.5c

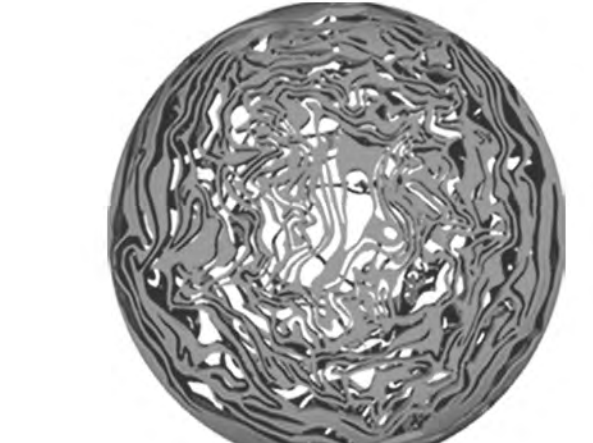


fig.5f

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fig.1: Red Cabbage - Scale 1:1 - Dimension mm.150 # fig.2: Points & Sections - Top View Photoscan - Scale 1:5 # fig.3: Top View Vector Sections - 2D Graphic Reconstruction - Scale 1:5

fig.4a-b: 3D Rhino Model Reconstruction # fig.5a-f: 3D Rhino Transformation Process

fig.6a-c: 3D Renderings # fig.7: Final Output Image

fig.8: Final Output Image # fig.9: Final Output Image