

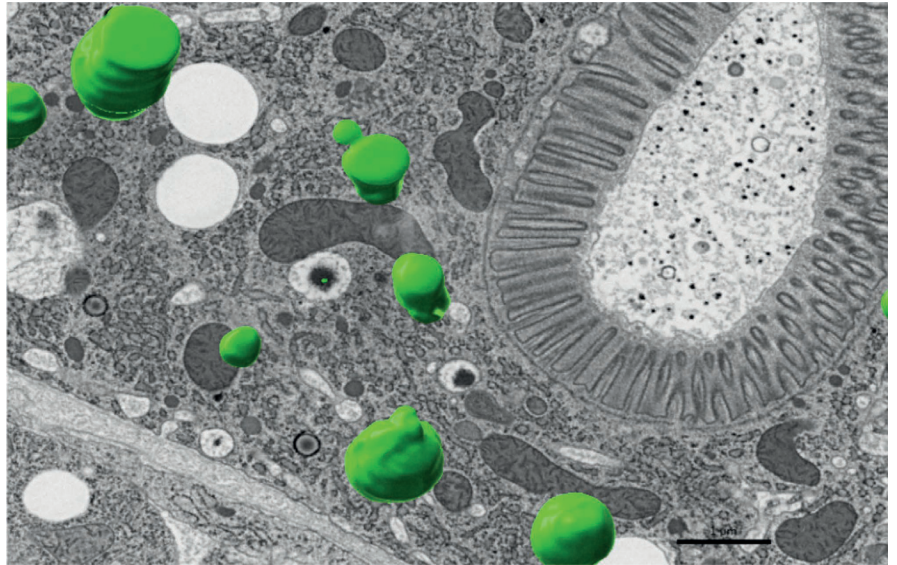
DiATOME

at the forefront of innovation

ultra sonic Maxi

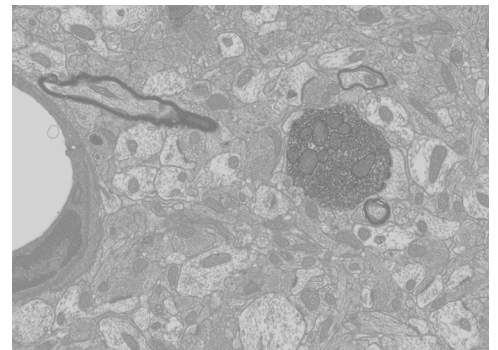
The ultra sonic Maxi is a new wider ultra sonic knife specifically for serial sectioning in biological applications. The knife comes in 3.0mm and 4.0mm sizes with 35° angle.

- Ultrathin sections without compression
- All embedding resins (Epoxyes and Acrylates)
- The same control unit as for the ultra sonic usable
- Automatic setting of the resonance frequency
- Knife angle 35°
- Boat (inside 17 x 25 mm) made from titanium
- Easy wetting of the cutting edge



Section obtained with the ultra sonic Maxi knife. Scale bar 1 µm.

More details on the next page.



Biocytin-labeled giant bouton from the auditory cortex of a Mongolian gerbil acquired with an SEM. Saldeitis et al., 2019 Eur. J. Neurosci. Vol.50-9:3445-3453.

Knife Type	Knife Angle	Size [mm]	Thickness Range	Boat Type	Code (new knife)*	Application
ultra sonic Maxi (with control unit)	35°	3.0mm 4.0mm	30–150	Special boat	30-ULTSONM 40-ULTSONM	• Compression-free sections • Serial sectioning in
ultra sonic Maxi (knife only)		3.0mm 4.0mm			30-ULTSONMK 40-ULTSONMK	biological applications

*** Product Codes shown are for new knives.**

To order a resharpened knife, add "R" to the Product Code that corresponds to your knife.

Example: Product Code 30-ULTSONMR = Resharpened ultra sonic Maxi 3.0mm Knife.

DiATOME

at the forefront of innovation

ultra sonic Maxi

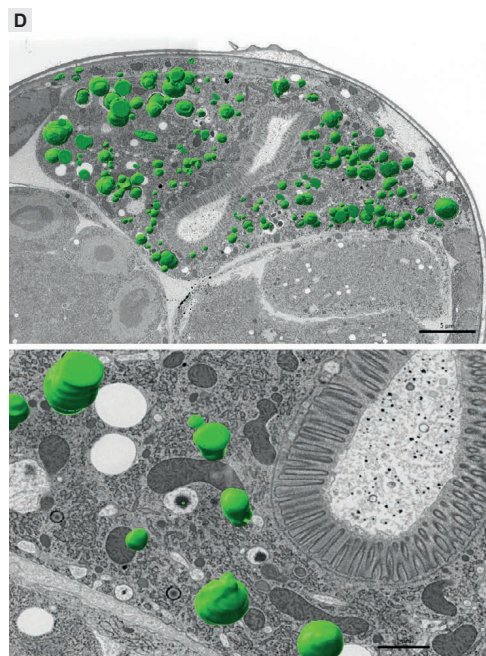
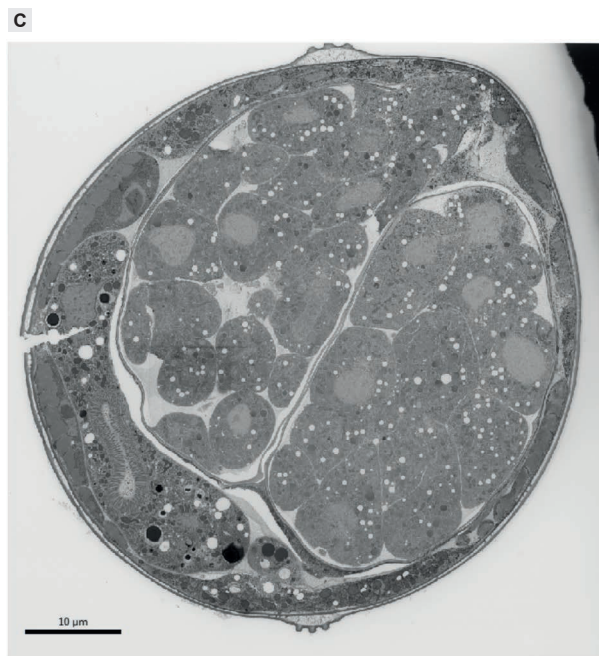
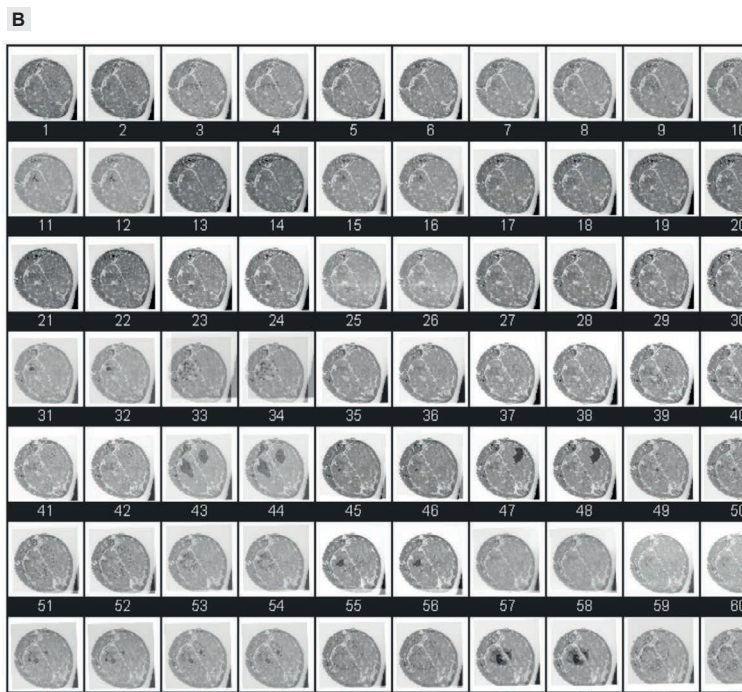
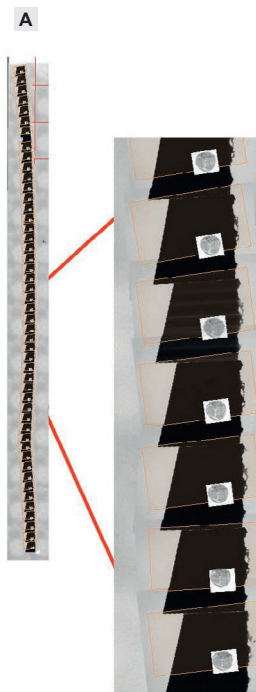
Serial sections obtained with the ultra sonic Maxi knife at 55 nm from a high pressure frozen nematode sample.

A) Long ribbons collected on silicon wafers imaged using a SEM

B) Gallery of serial sections

C) Single section from the series. Scale bar 10 μm

D) Yolk granules and lysosomes were segmented shown in green. Scale bar 5 μm ; detail image: 1 μm
Center for Microscopy and Image Analysis, University of Zürich, Switzerland



DiATOME U.S.

314 West Broad Street, Suite 203
Quakertown, PA 18951
Tel: (215) 412-8390 or 215-646-1478
Fax: (267)-730-6091
email: info@diatomeknives.com



www.diatomeknives.com