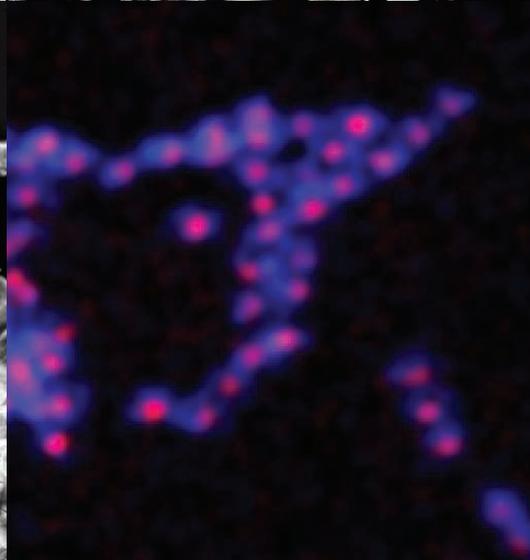
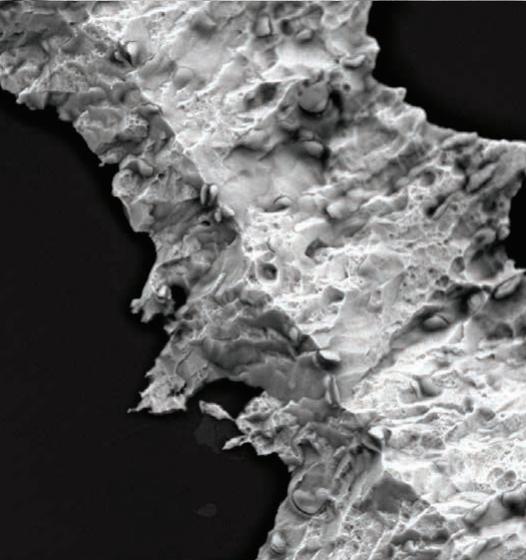
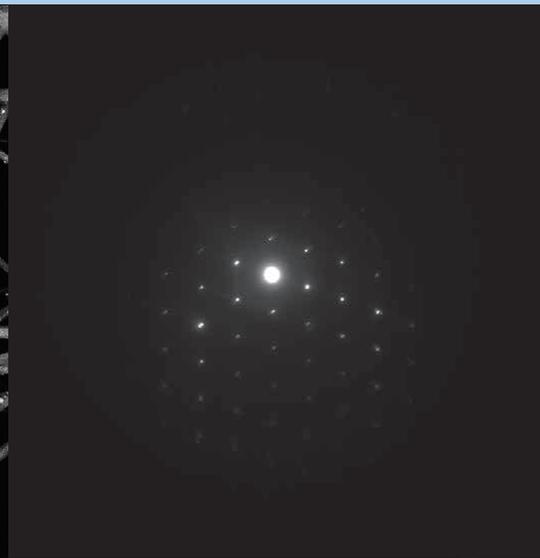
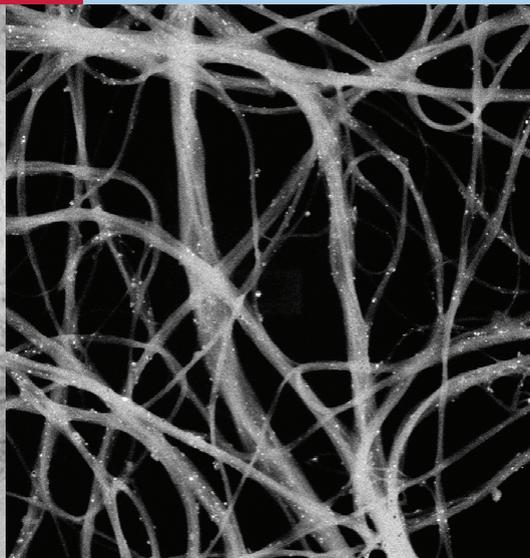
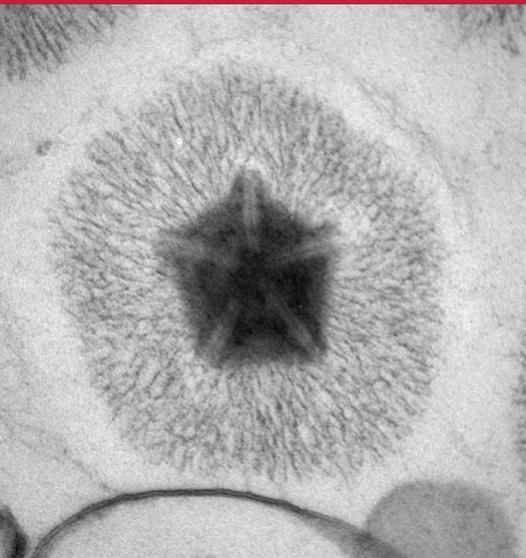


LVEM 25E

Low Voltage Electron Microscopes
Applications Brochure



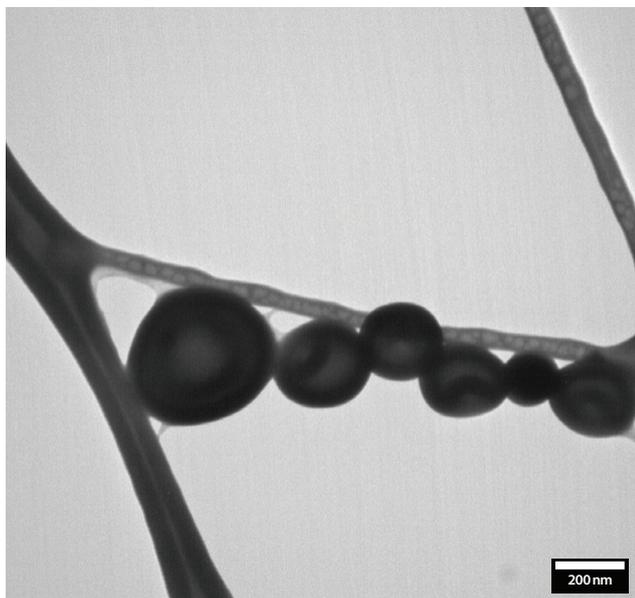
LVEM 25E APPLICATIONS

Material Sciences

- Polymers
- Chemistry
- Nanomaterials
- Combined Materials
- Semiconductors

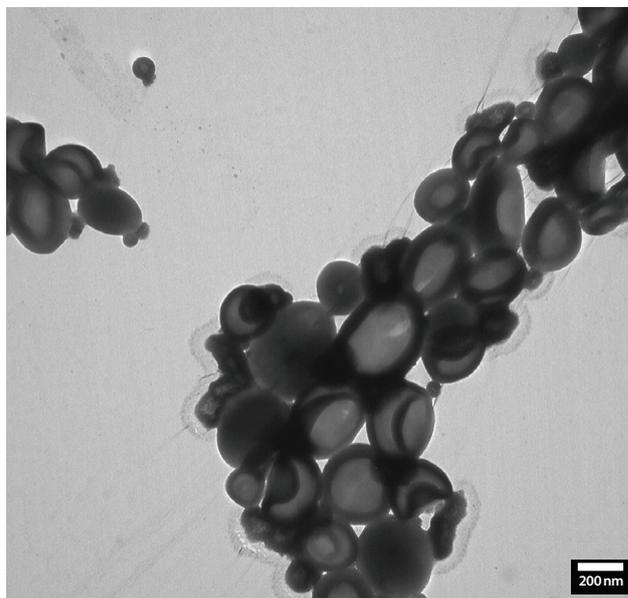
Life Sciences

- Virology
- Bacteriology
- Pathology
- Pharmaceuticals
- Proteins
- Biochemistry
- Biomimetics
- Agriculture
- Biotechnology
- Biology
- Imunology



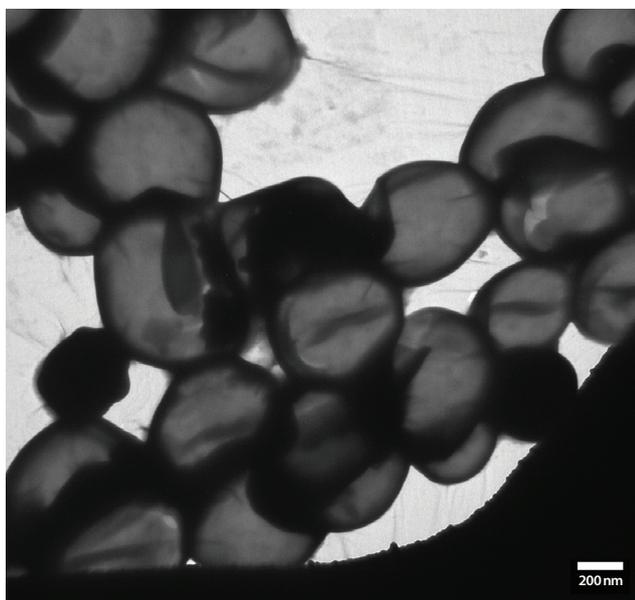
TEM: Polymer Vesicles

Particles on carbon film



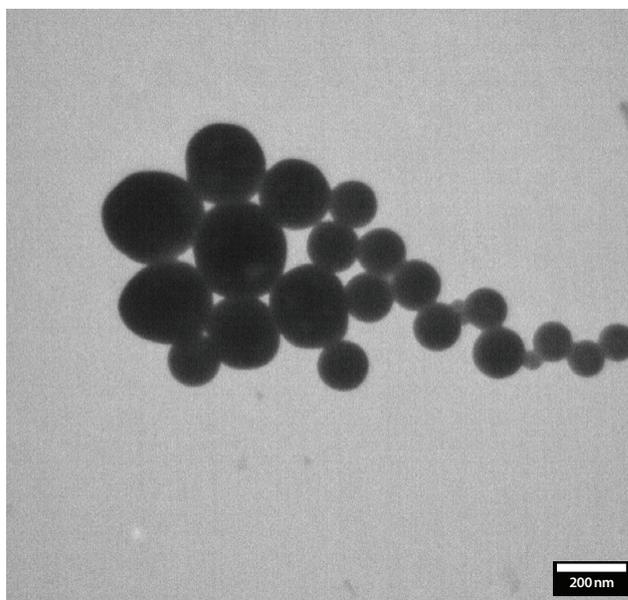
TEM: Polymer Vesicles

Particles on carbon film



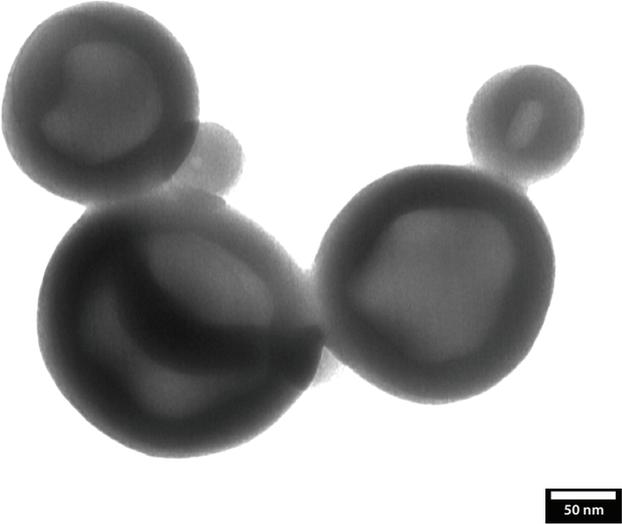
TEM: Polymer Vesicles

Particles on carbon film



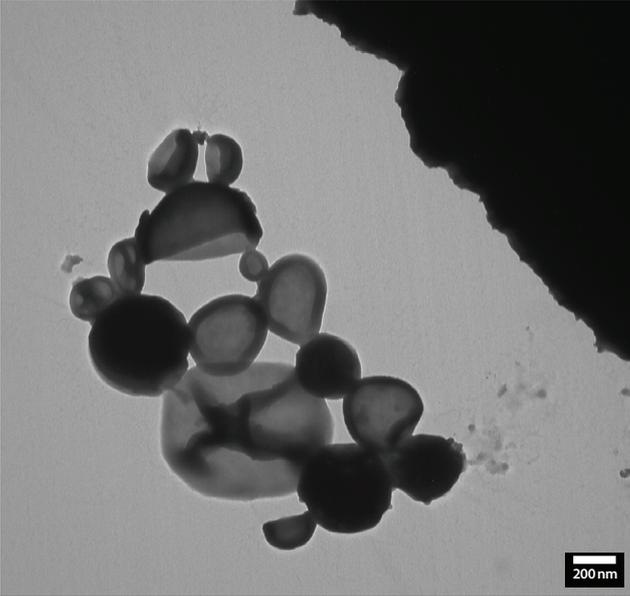
TEM: Polymer Vesicles

Particles on carbon film



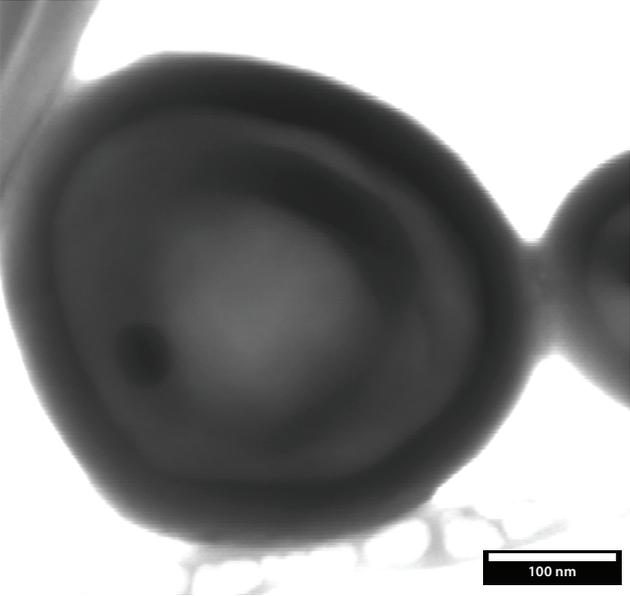
TEM: Polymer Vesicles

Particles on carbon film



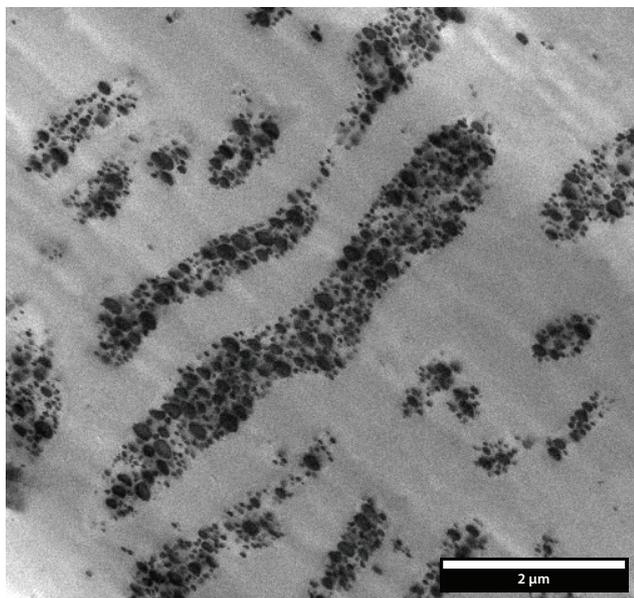
TEM: Polymer Vesicles

Particles on carbon film



TEM: Polymer Spheres

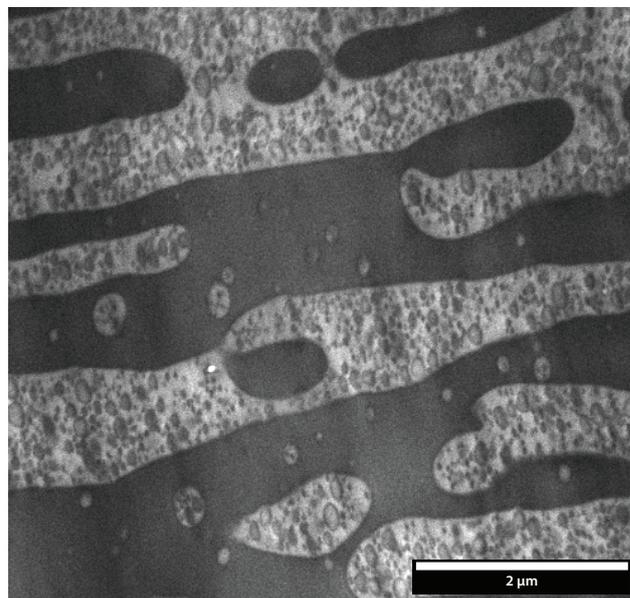
Particles on carbon film



STEM 10 kV: Copolymer

Stained section

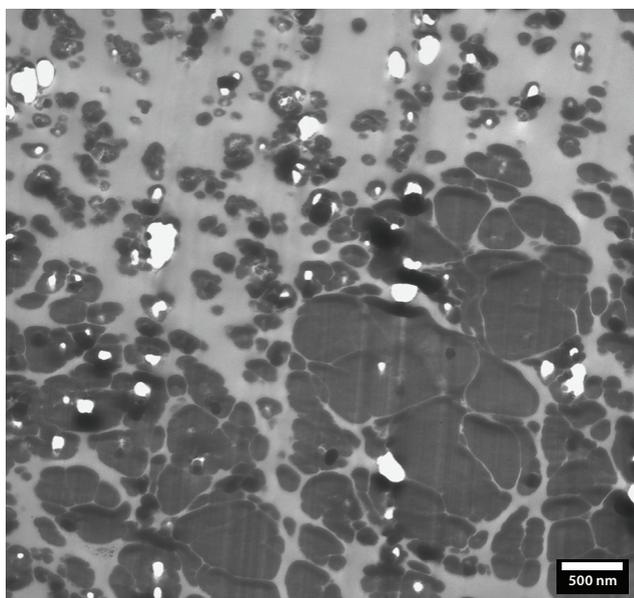
Single stained polymer



STEM 10 kV: Copolymer

Stained section

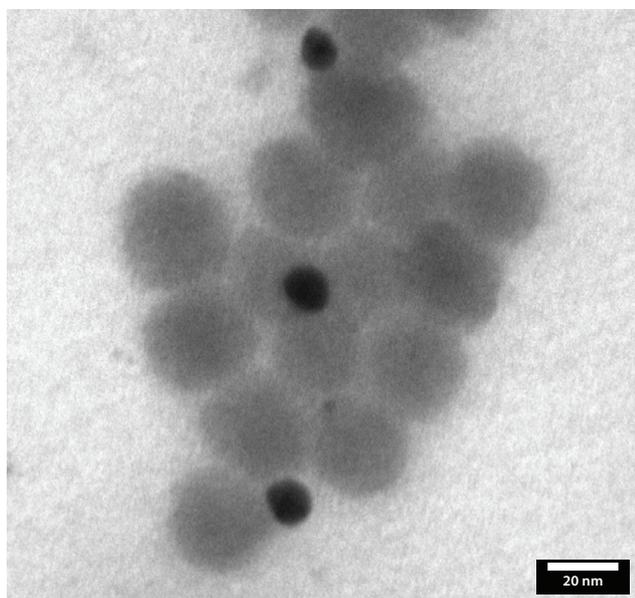
Double stained polymer



TEM: Microtomed Rubber

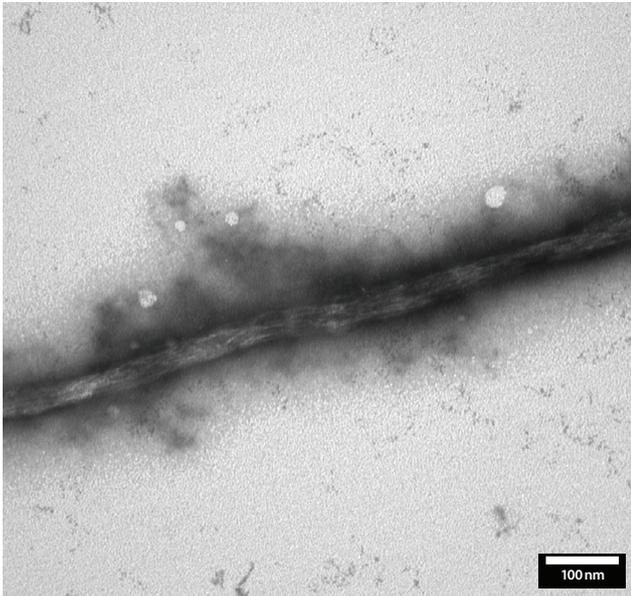
Unstained section

Polymer section



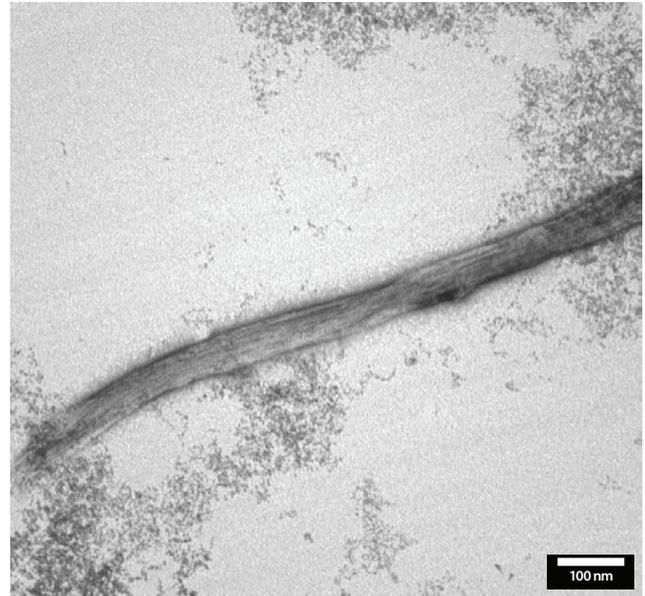
TEM: Molecular Imprinted Polymers

Particles on carbon film



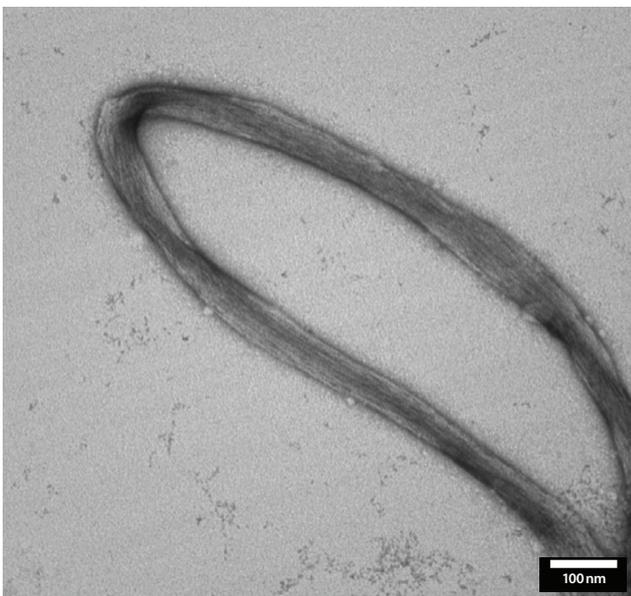
TEM: Cellulose Nanofibers

Particles on carbon film
Stained with uranyl acetate



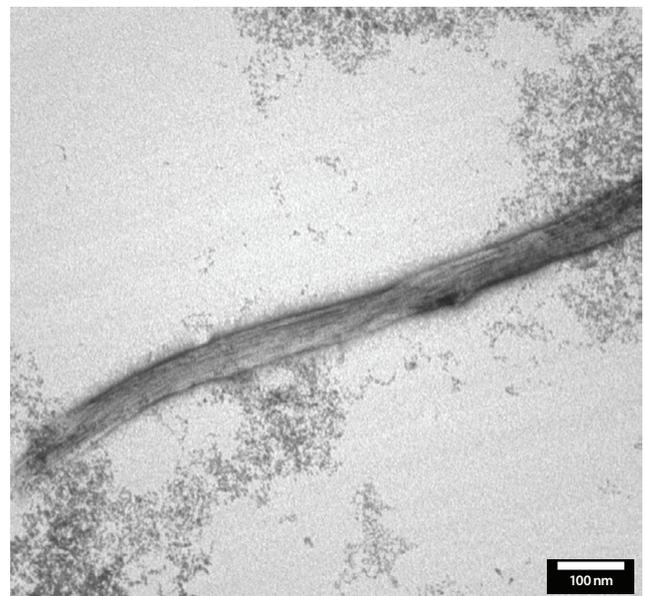
TEM: Cellulose Nanofibers

Particles on carbon film
Stained with uranyl acetate



TEM: Cellulose Nanofibers

Particles on carbon film
Stained with uranyl acetate



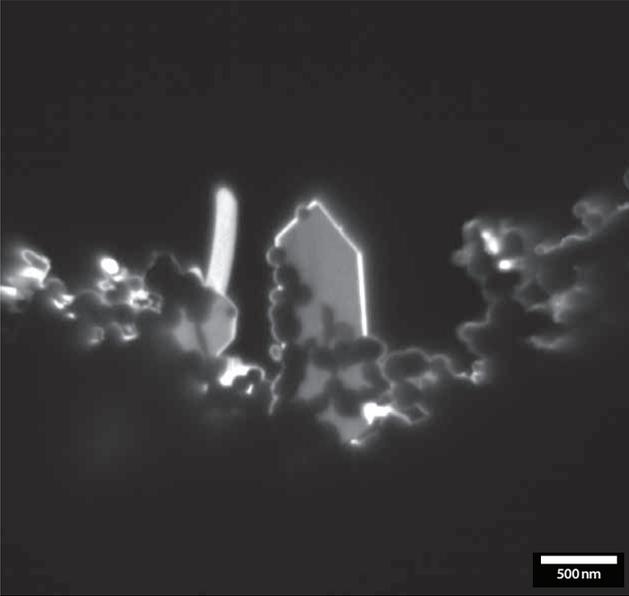
TEM: Cellulose Nanofibers

Particles on carbon film
Stained with uranyl acetate



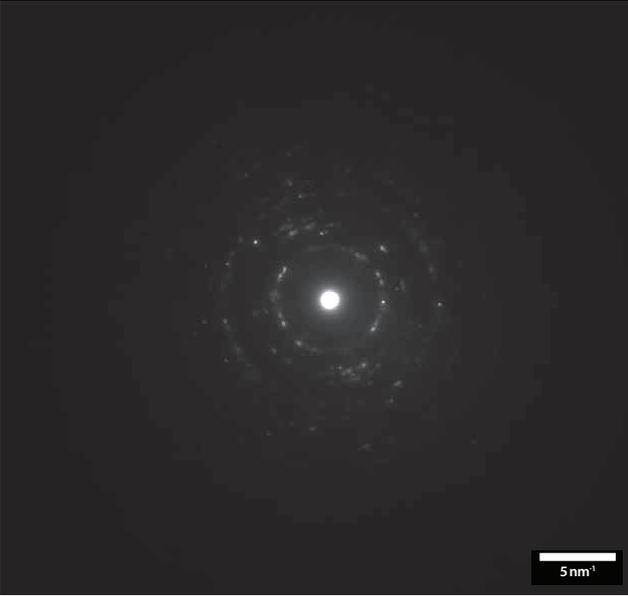
TEM: Molybden Crystal

Evaporated film
Bright field



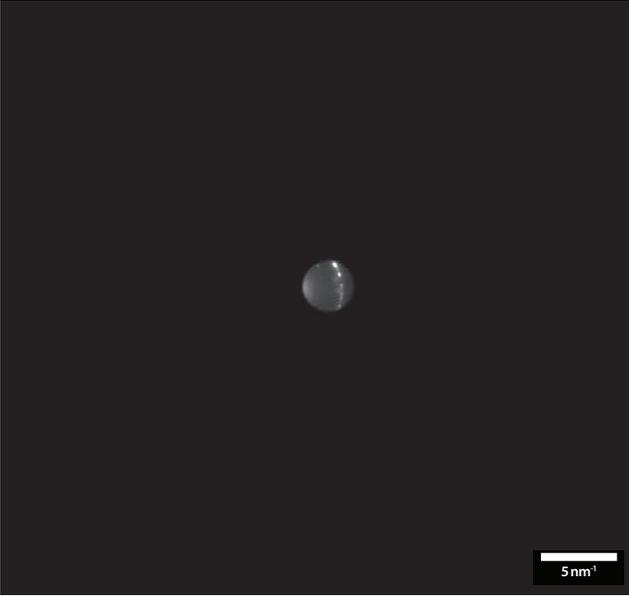
TEM: Molybden Crystal

Evaporated film
Dark field



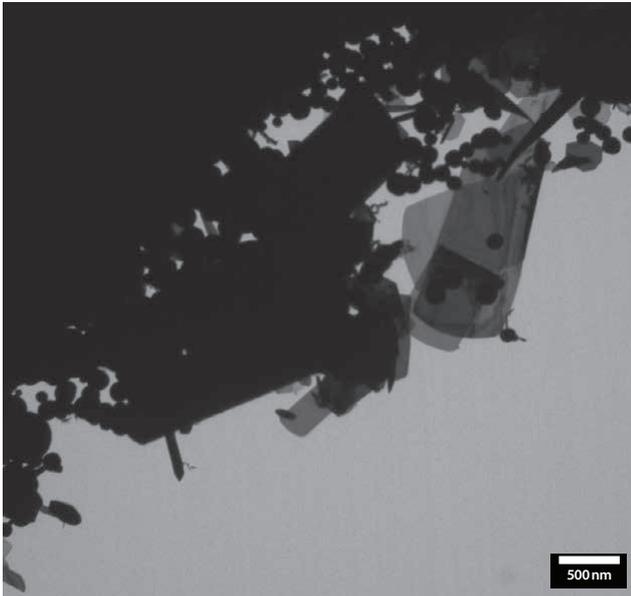
ED: Molybden Crystal

Evaporated film
Corresponding diffraction



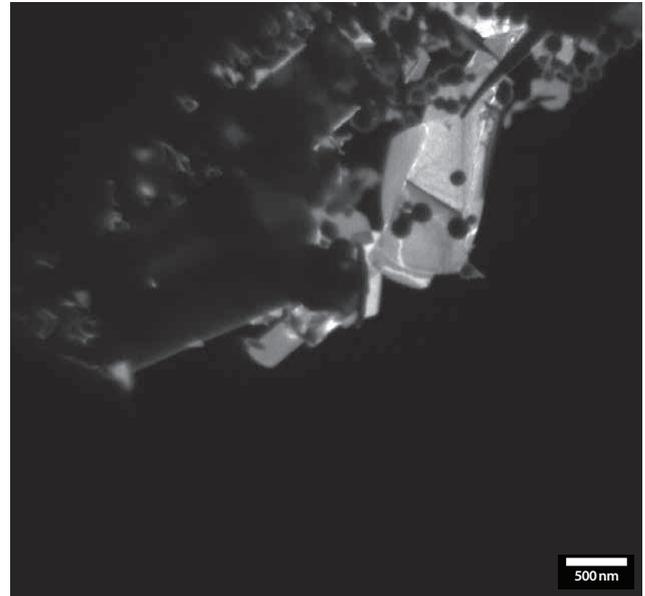
ED: Molybden Crystal

Evaporated film
Corresponding diffraction



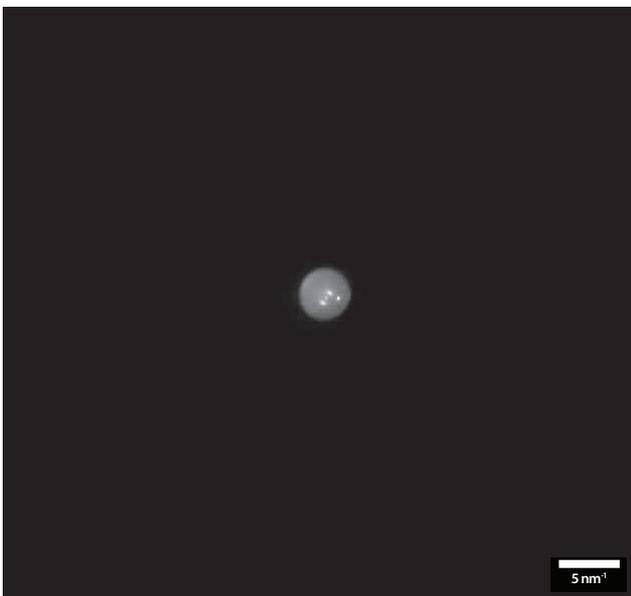
TEM: Molybden Crystal

Evaporated film
Bright field



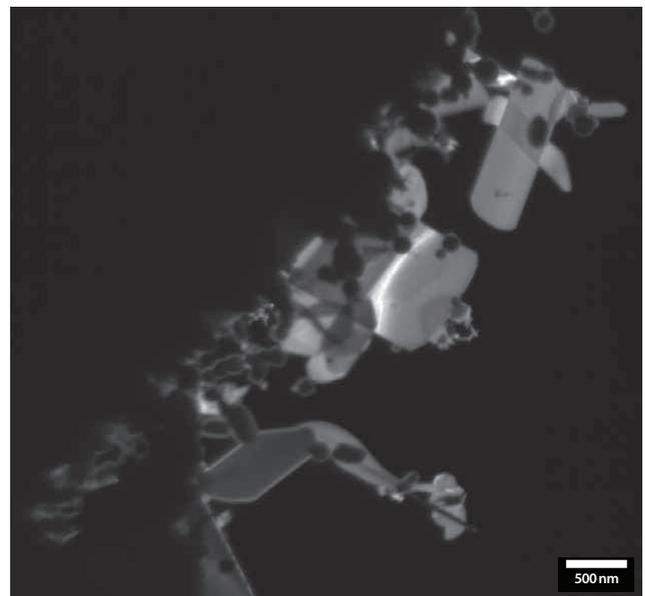
TEM: Molybden Crystal

Evaporated film
Dark field



ED: Molybden Crystal

Evaporated film
Corresponding diffraction



ED: Molybden Crystal

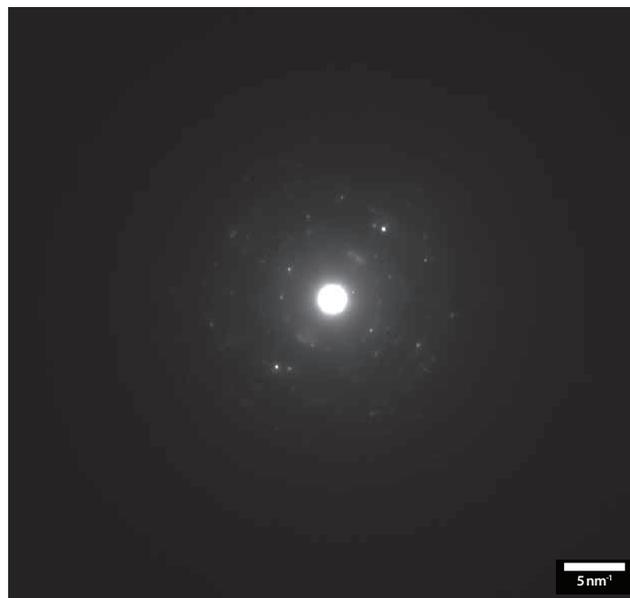
Evaporated film
Corresponding diffraction



TEM: Molybden Crystal

Evaporated film

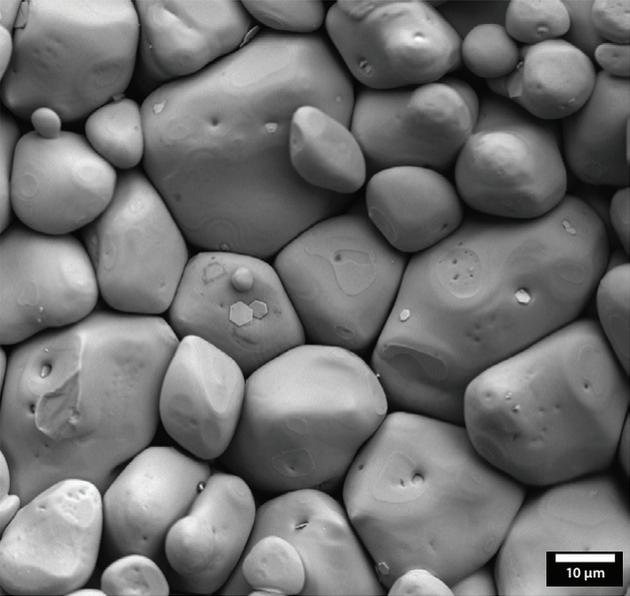
Bright field



ED: Molybden Crystal

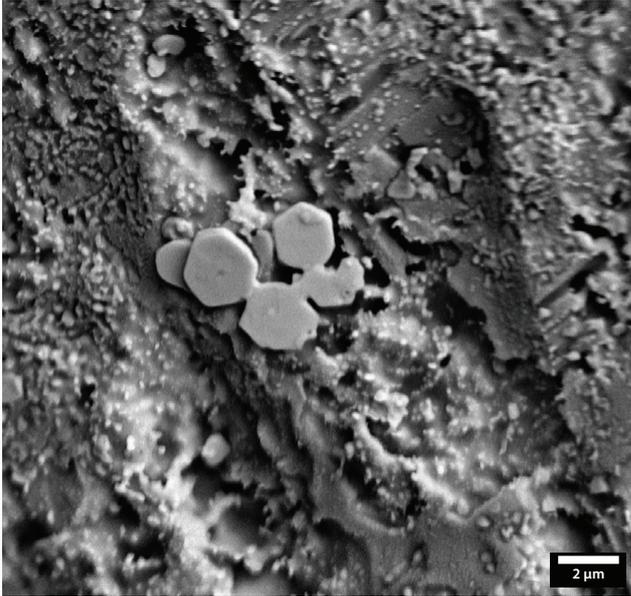
Evaporated film

Corresponding diffraction



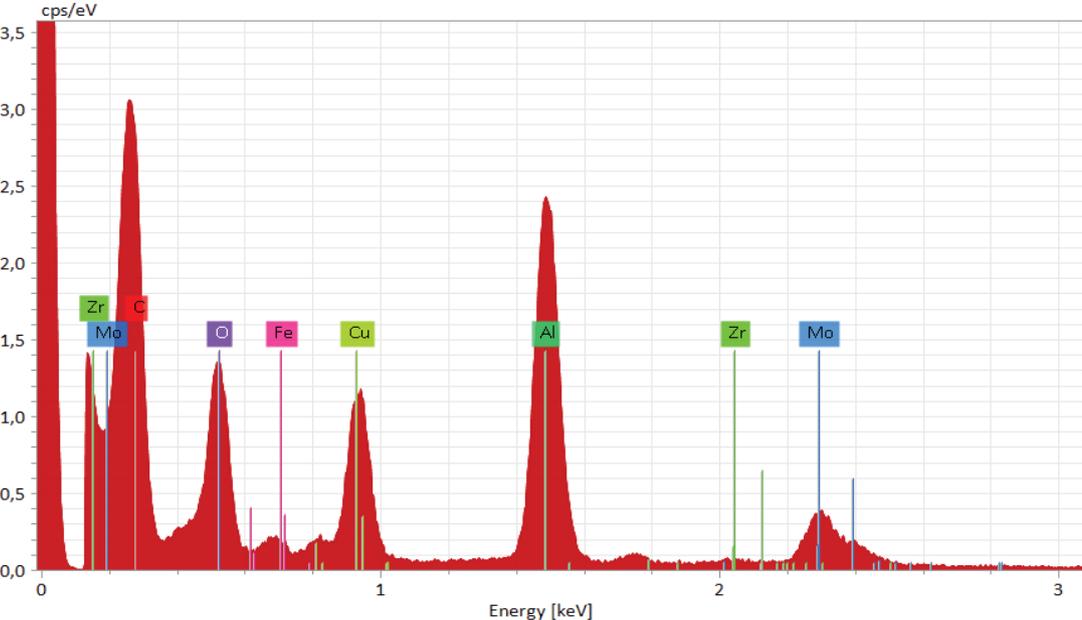
SEM: Al Crystals

Sample on grid
BSE. Bulk material



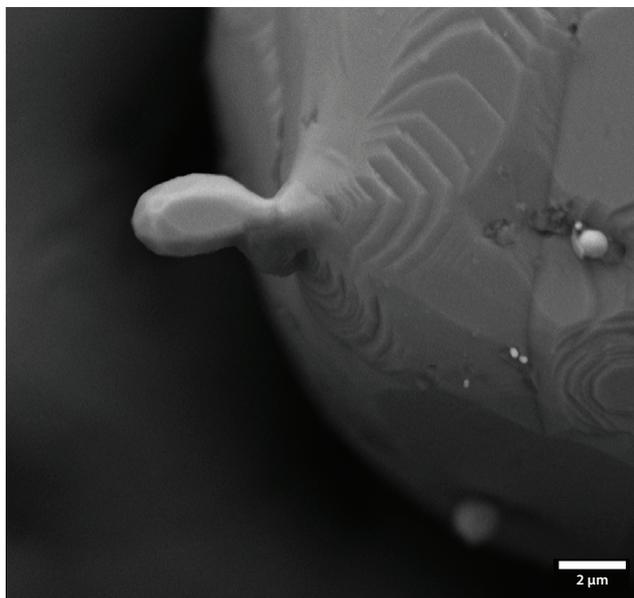
SEM: Al Crystals

Sample on grid
BSE. Bulk material



SEM: Al Crystals

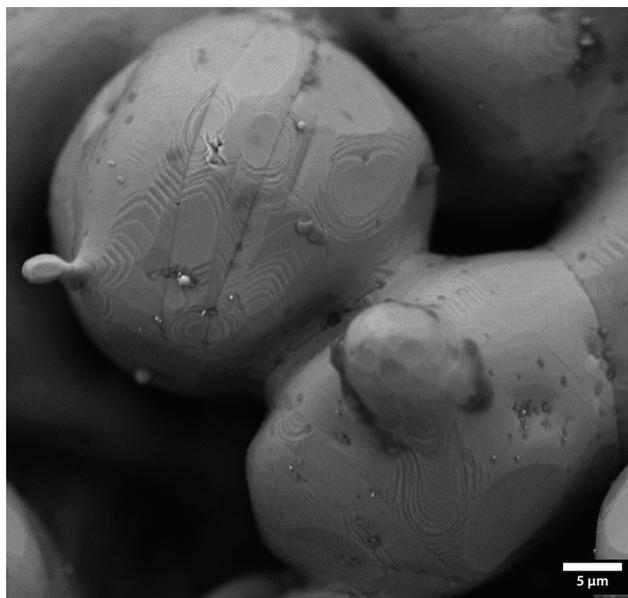
Sample on grid
BSE. EDS spectrum



SEM: Cu Annealed

Sample on grid

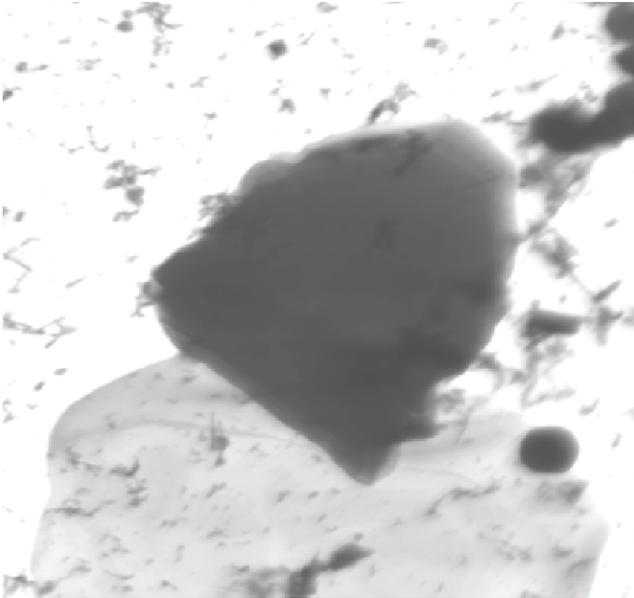
BSE. Bulk material



SEM: Cu Annealed

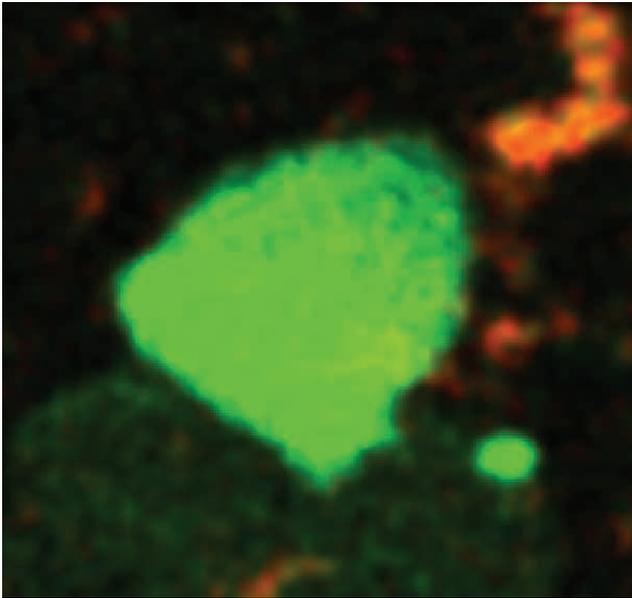
Sample on grid

BSE. Bulk material



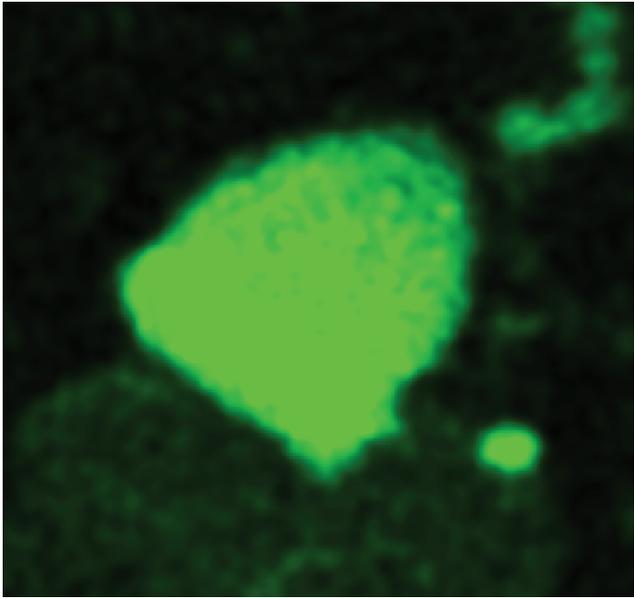
EDS: W Ta Mo

Particles on carbon
EDS STEM



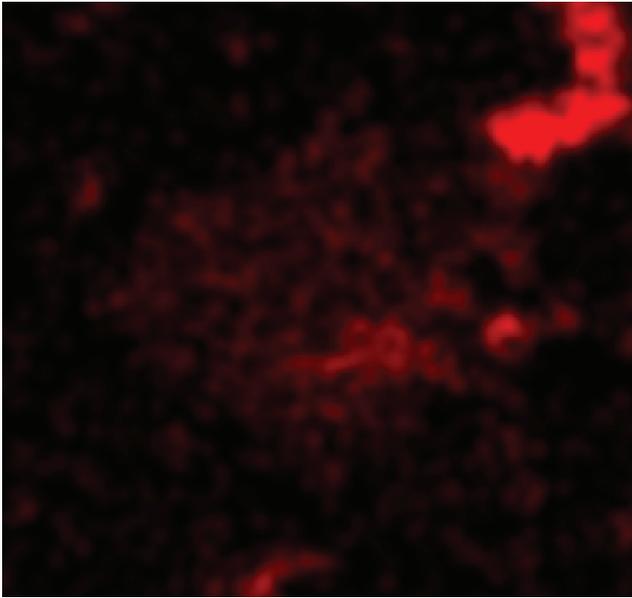
EDS: W Ta Mo

Particles on carbon
Sample mapping



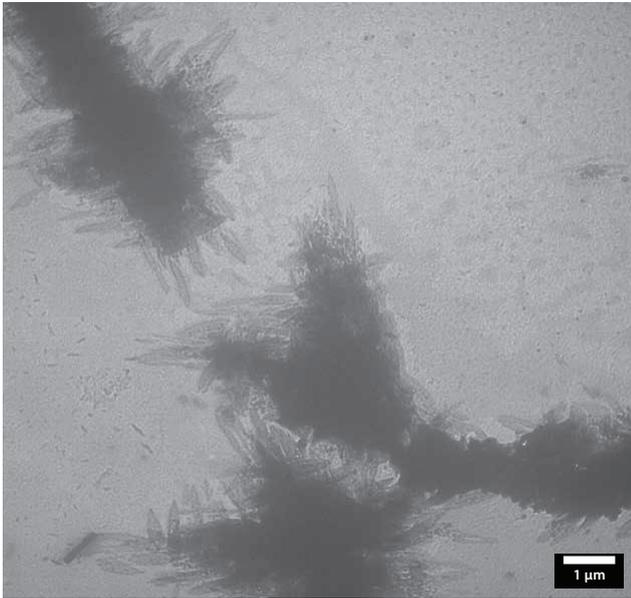
EDS: W Ta Mo

Particles on carbon
Mo mapping



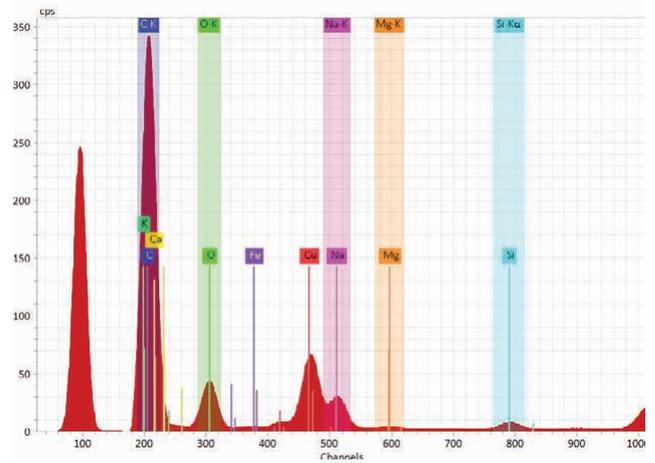
EDS: W Ta Mo

Particles on carbon
W mapping



TEM: Asbestos

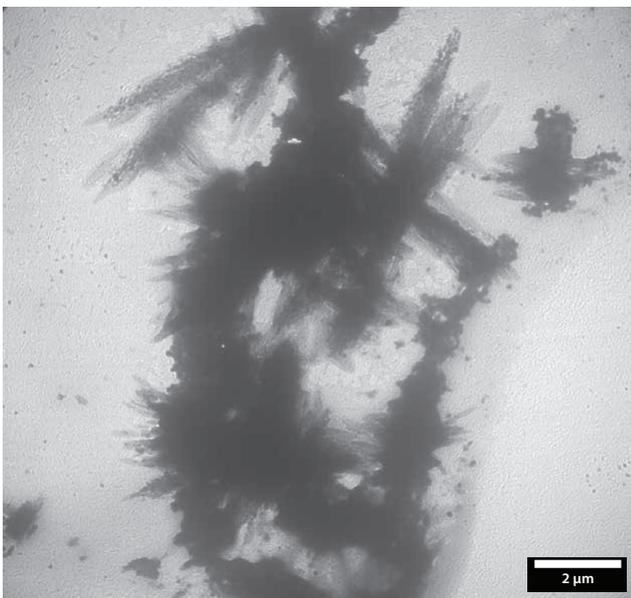
Particles on carbon



EDS: Asbestos

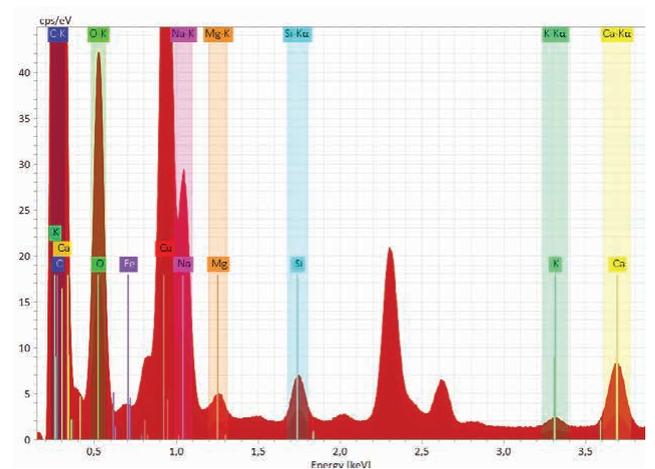
Particles on carbon

EDS spectrum



TEM: Asbestos

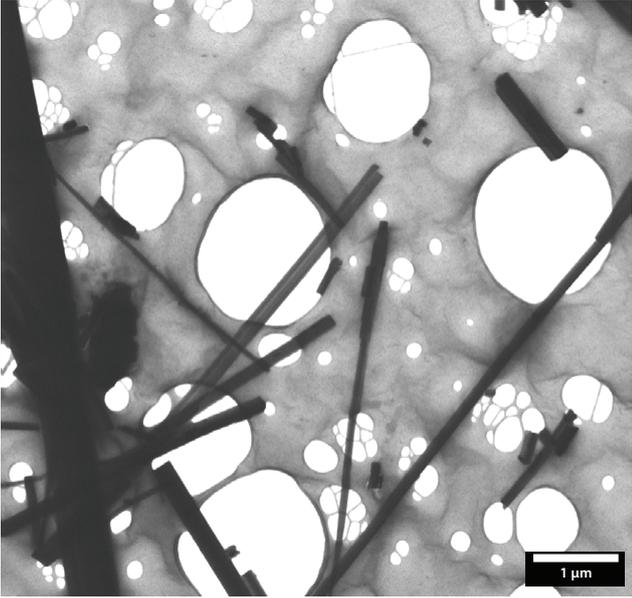
Particles on carbon



EDS: Asbestos

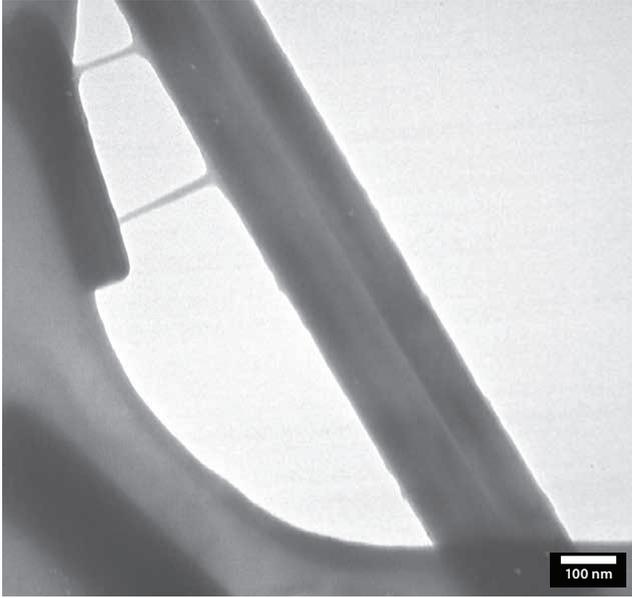
Particles on carbon

EDS spectrum



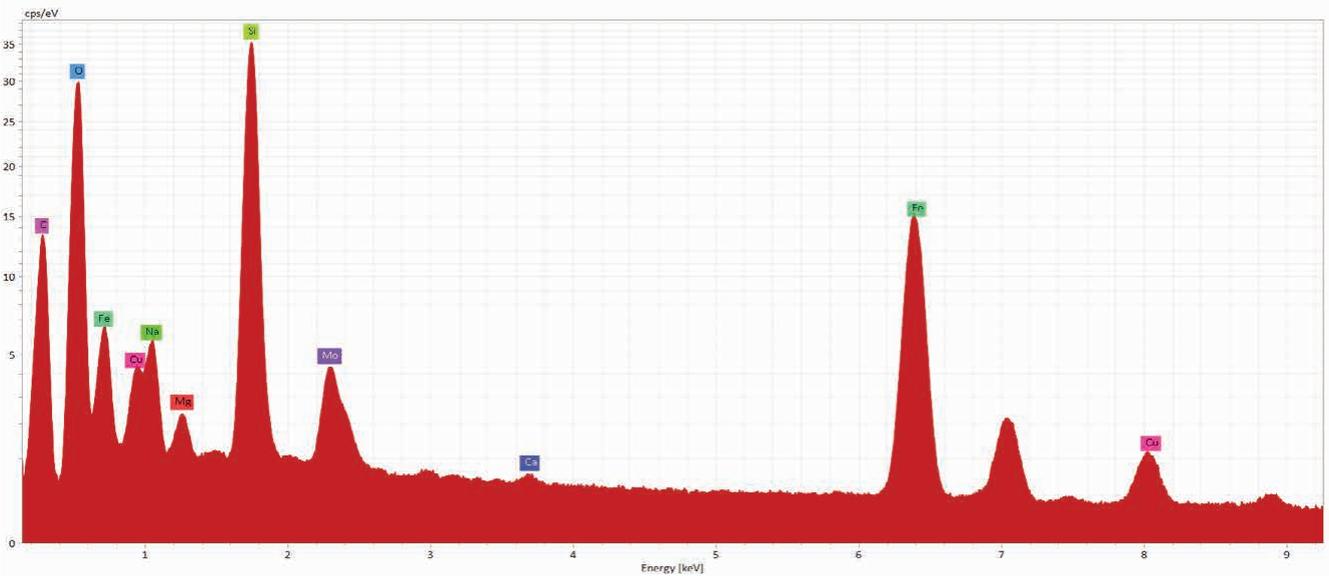
STEM: Asbestos

Particles on carbon



TEM: Asbestos

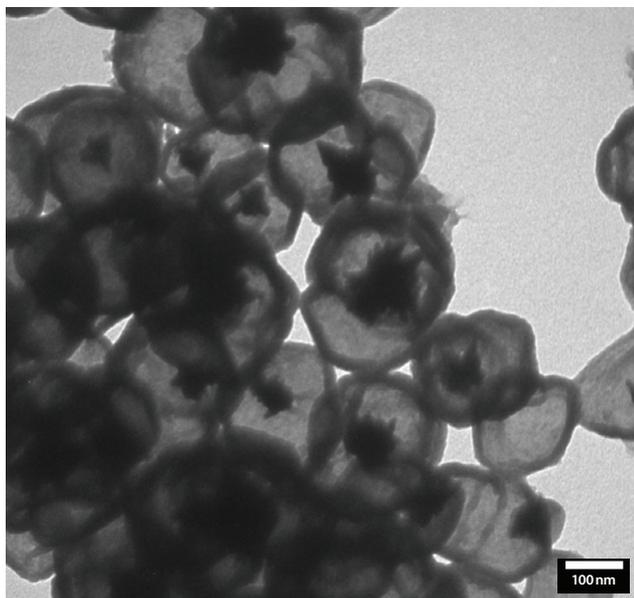
Particles on carbon



EDS: Asbestos

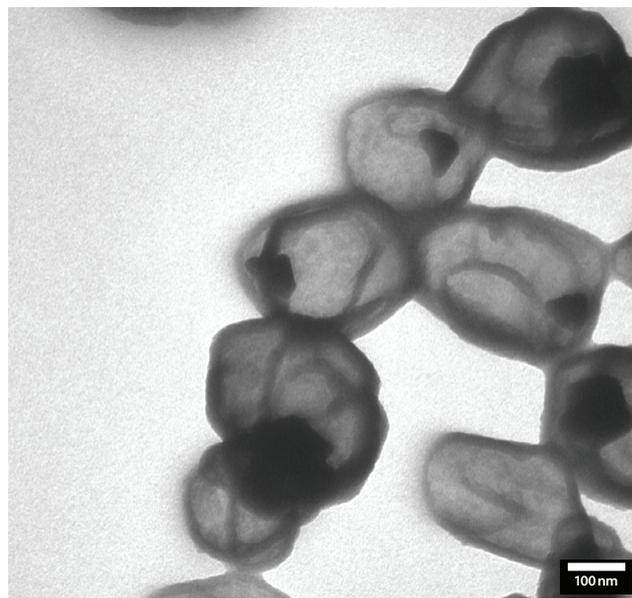
Particles on carbon

EDS spectrum



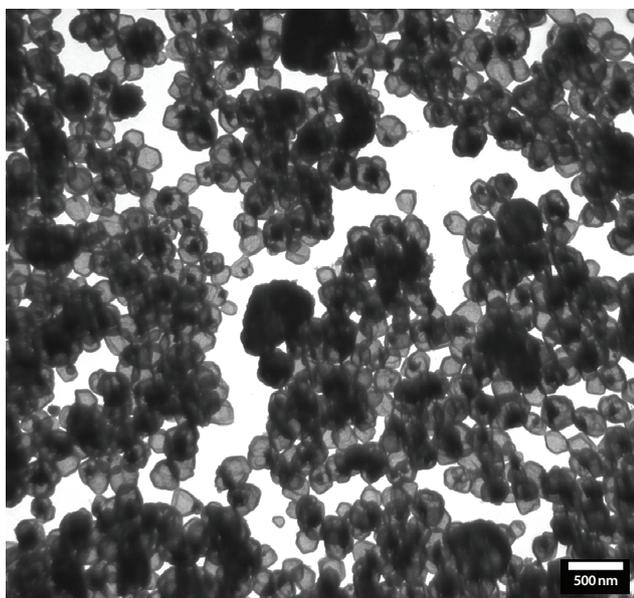
TEM: Covalent Organic Frameworks

Particles on carbon film



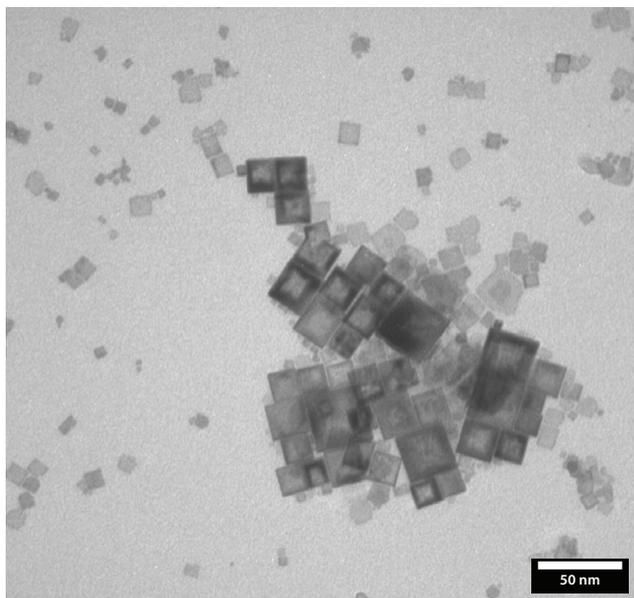
TEM: Covalent Organic Frameworks

Particles on carbon film



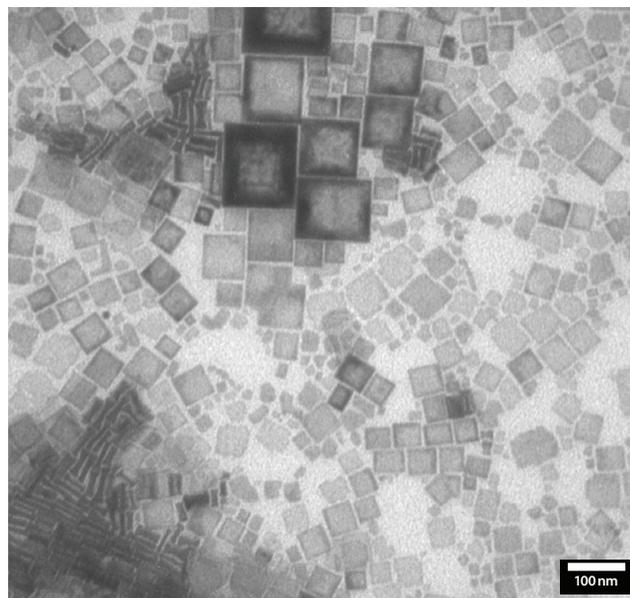
TEM: Covalent Organic Frameworks

Particles on carbon film



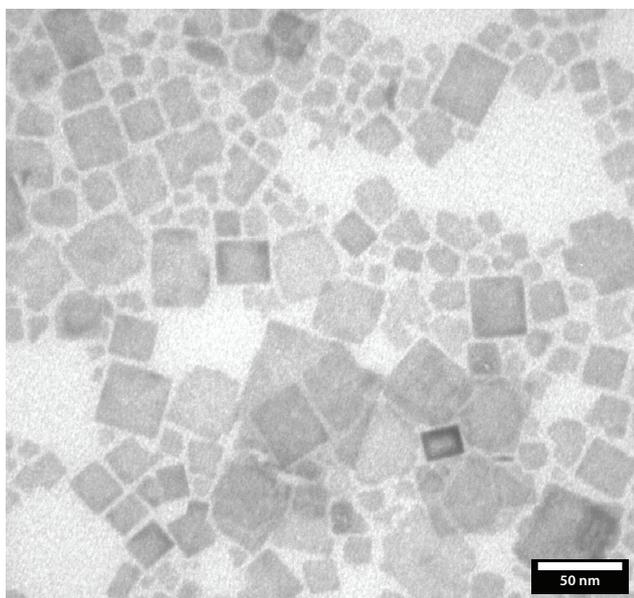
TEM: Metal Organic Framework

Particles on carbon film



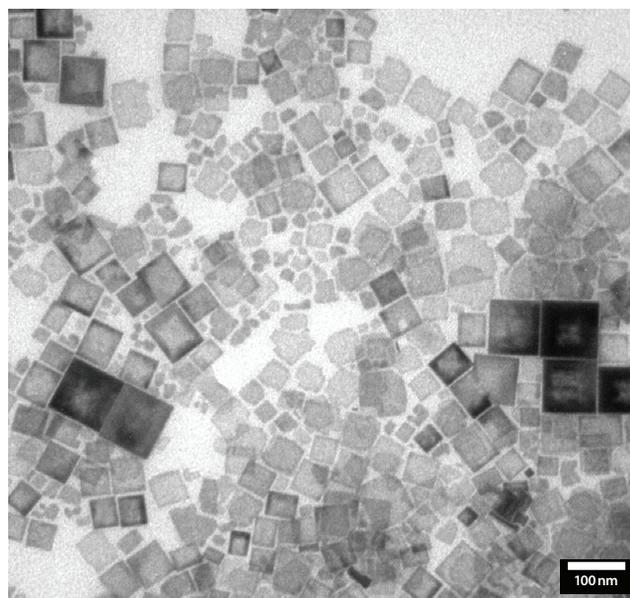
TEM: Metal Organic Framework

Particles on carbon film



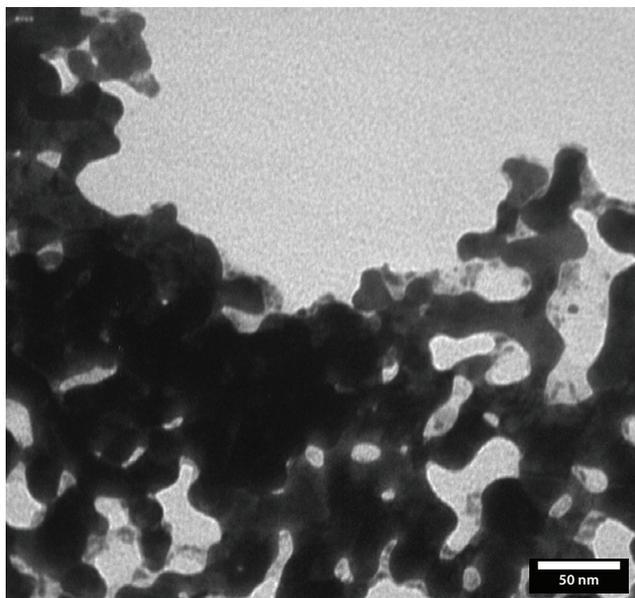
TEM: Metal Organic Framework

Particles on carbon film



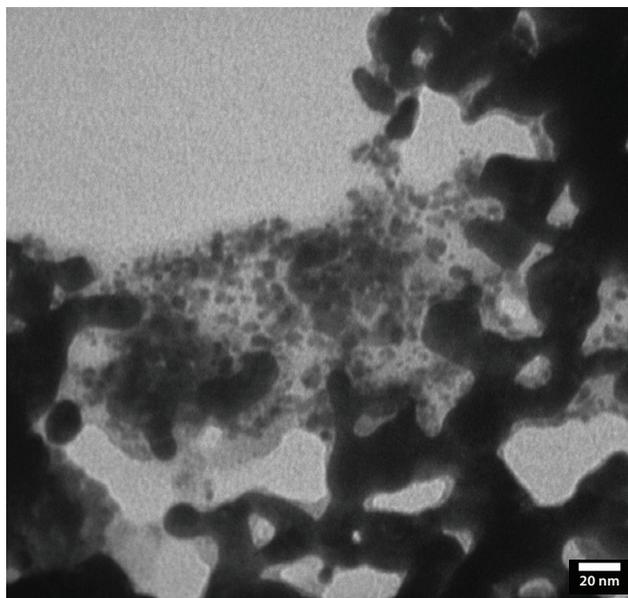
TEM: Metal Organic Framework

Particles on carbon film



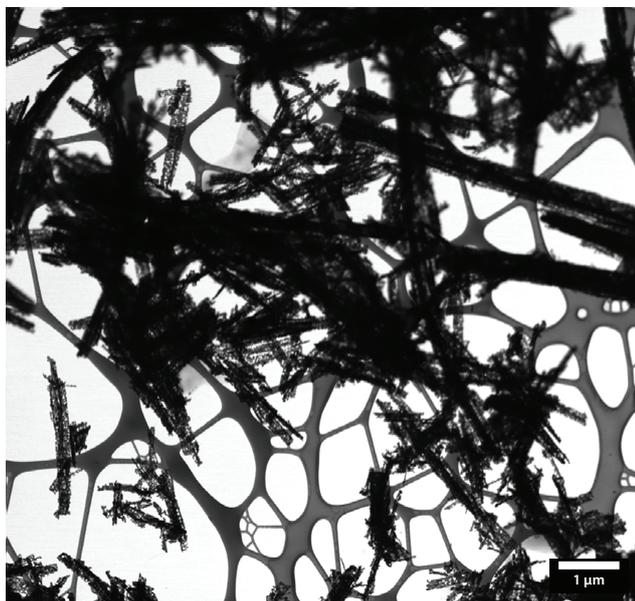
**TEM: FAPbBr₃/Bi₂WO₆
Hybrid Material**

Particles on carbon film



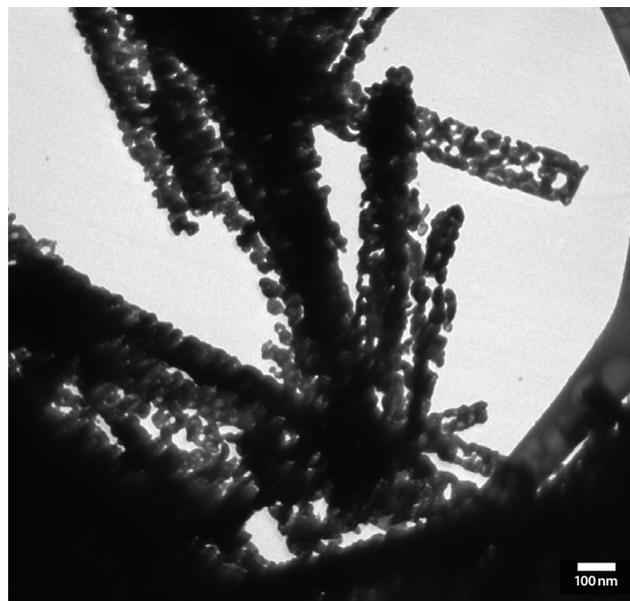
**TEM: FAPbBr₃/Bi₂WO₆
Hybrid Material**

Particles on carbon film



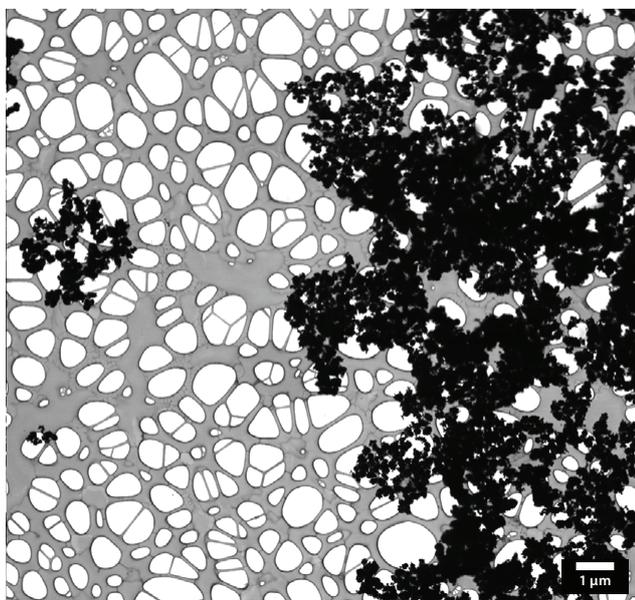
STEM 15 kV: TiN Bars

Particles on carbon film



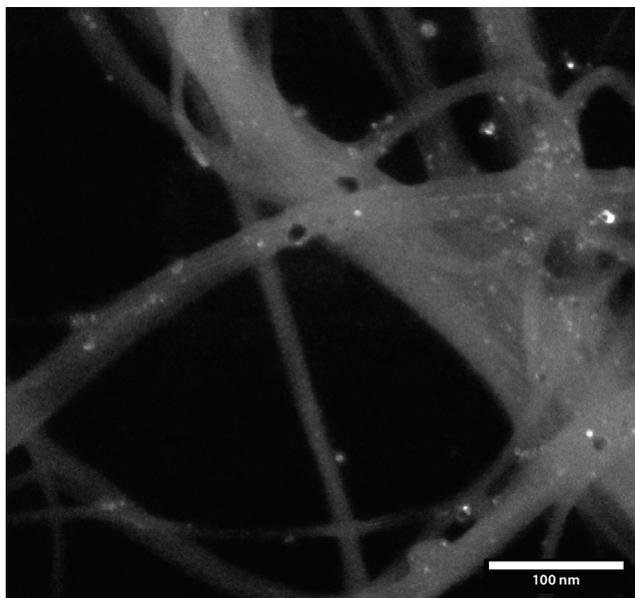
STEM 15 kV: TiN Bars

Particles on carbon film



STEM 15 kV: TiN Spheres

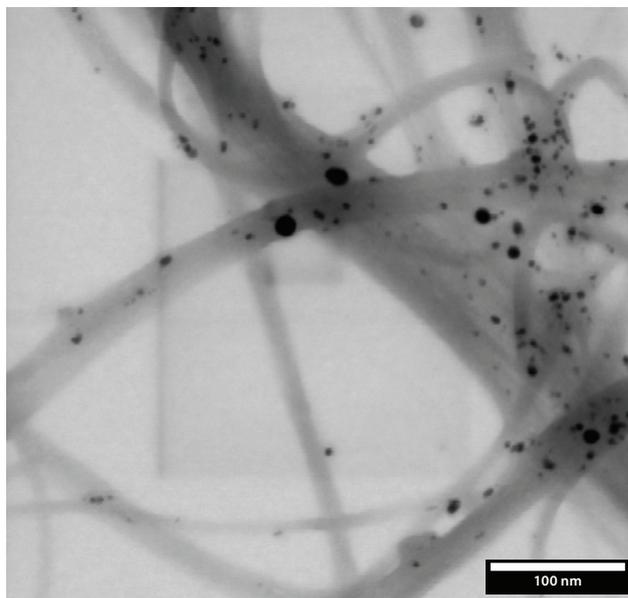
Particles on carbon film



STEM: Pt Nanoparticles with CNT

Particles on carbon film

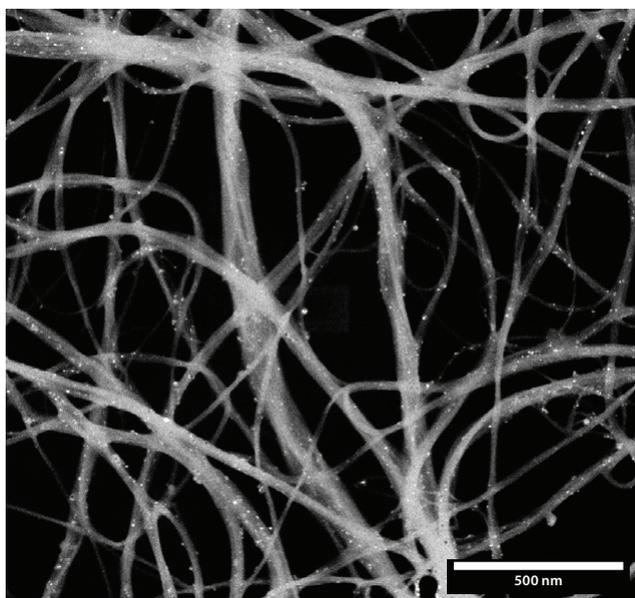
Dark field



STEM: Pt Nanoparticles with CNT

Particles on carbon film

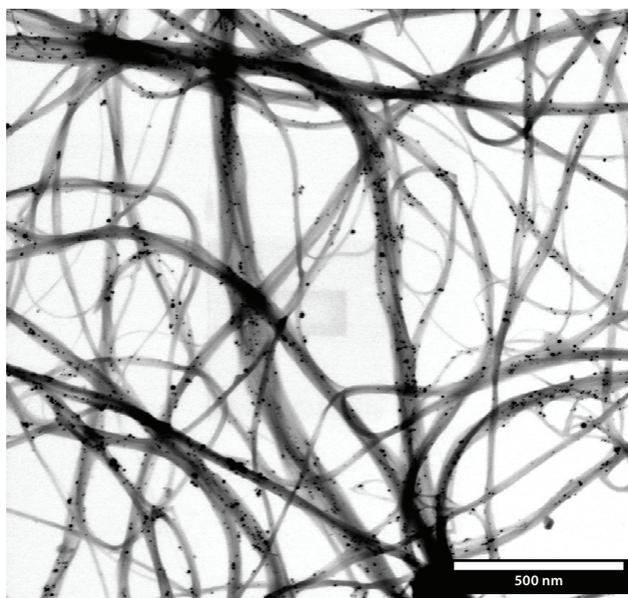
Bright field



STEM: Pt Nanoparticles with CNT

Particles on carbon film

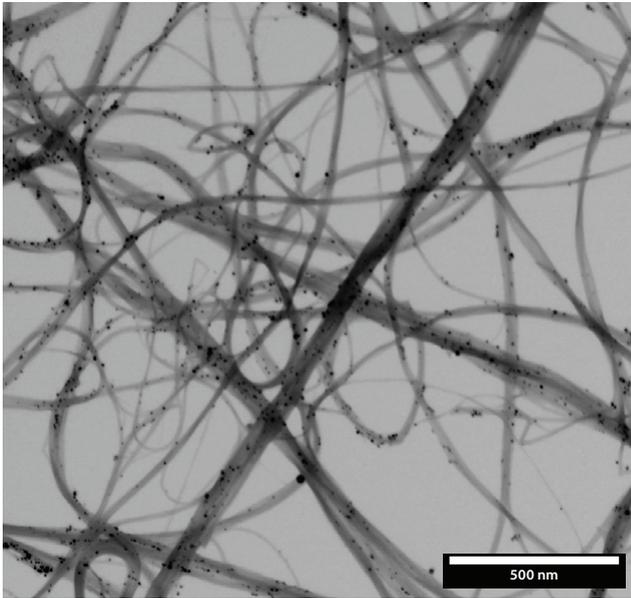
Dark field



STEM: Pt Nanoparticles with CNT

Particles on carbon film

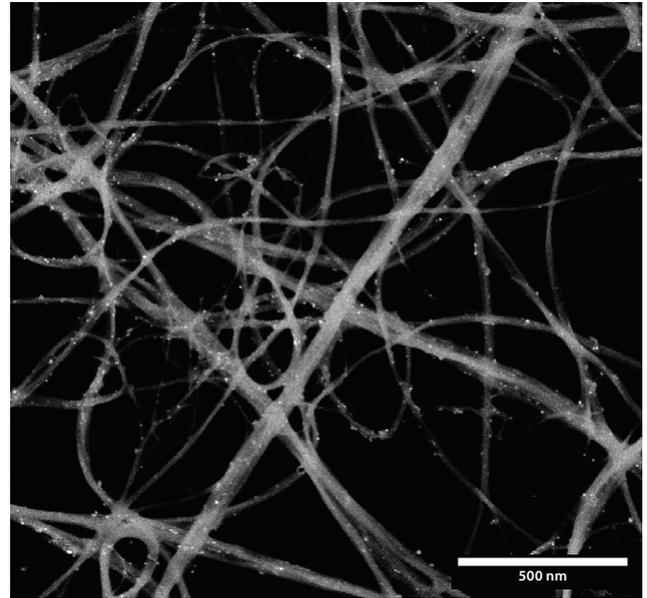
Bright field



STEM: Pt Nanoparticles with CNT

Particles on carbon film

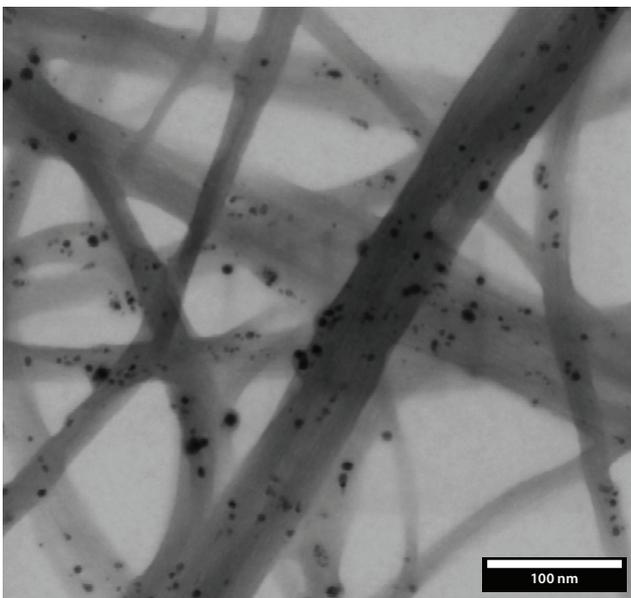
Bright field



STEM: Pt Nanoparticles with CNT

Particles on carbon film

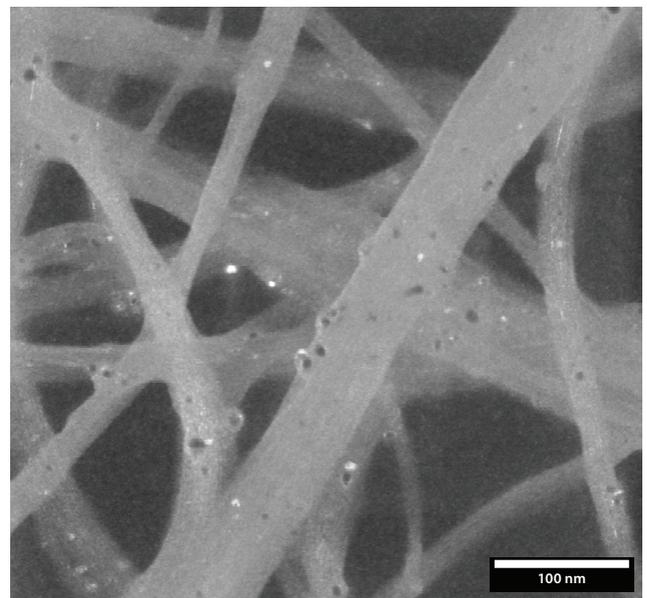
Dark field



STEM: Pt Nanoparticles with CNT

Particles on carbon film

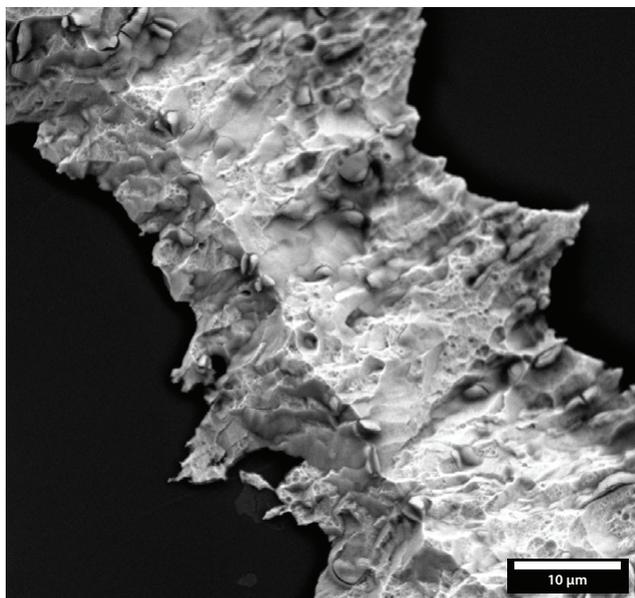
Bright field



STEM: Pt Nanoparticles with CNT

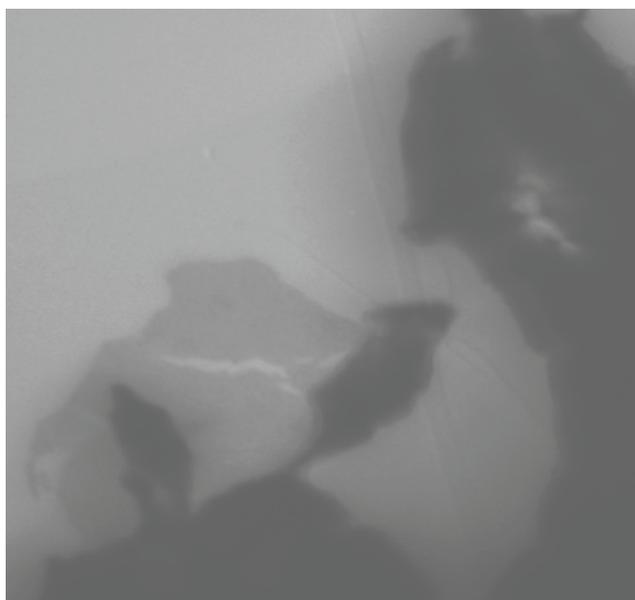
Particles on carbon film

Dark field



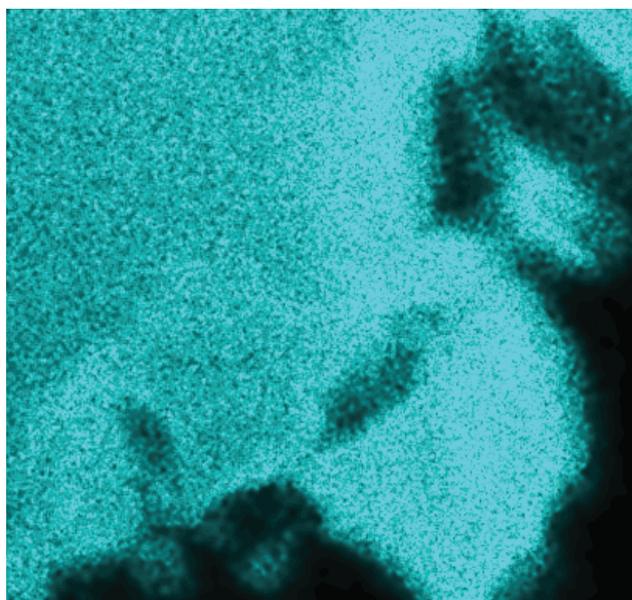
SEM: NiOx

BSE. Sample on grid



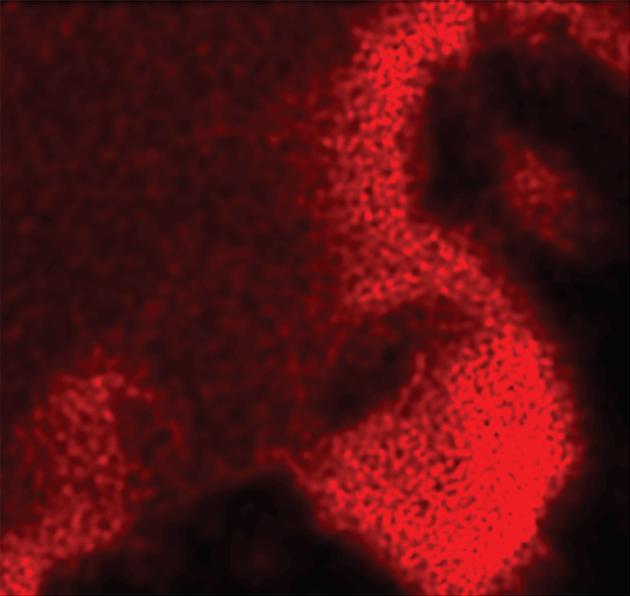
EDS: NiOx

Sample on grid
EDS STEM



EDS: NiOx

Sample on grid
Ni mapping



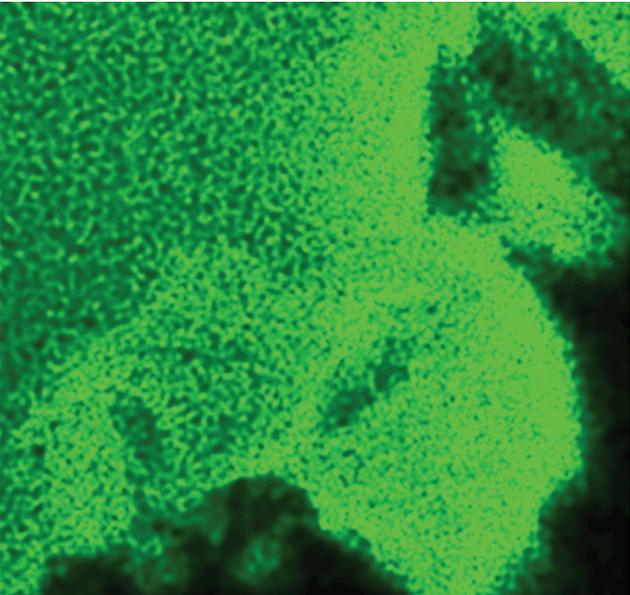
EDS: NIOx

Sample on grid
C mapping



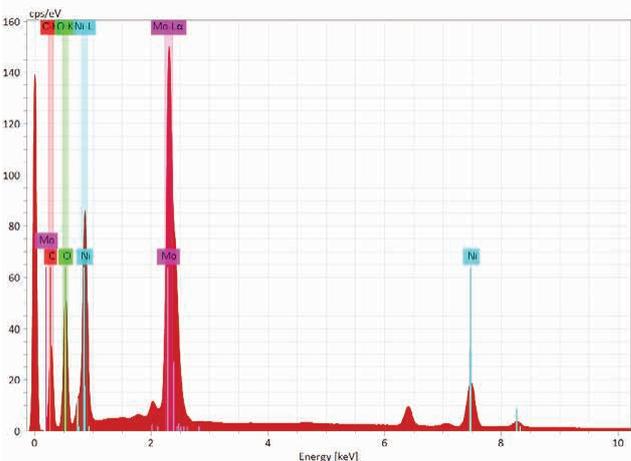
EDS: NIOx

Sample on grid
Mo mapping



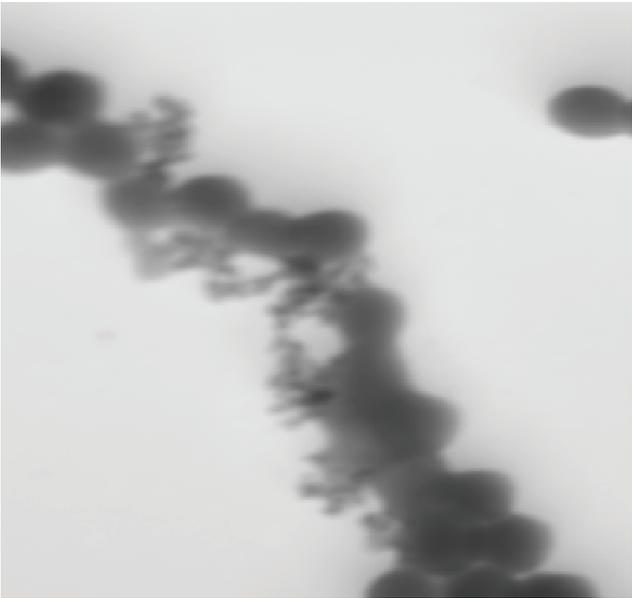
EDS: NIOx

Sample on grid
O mapping



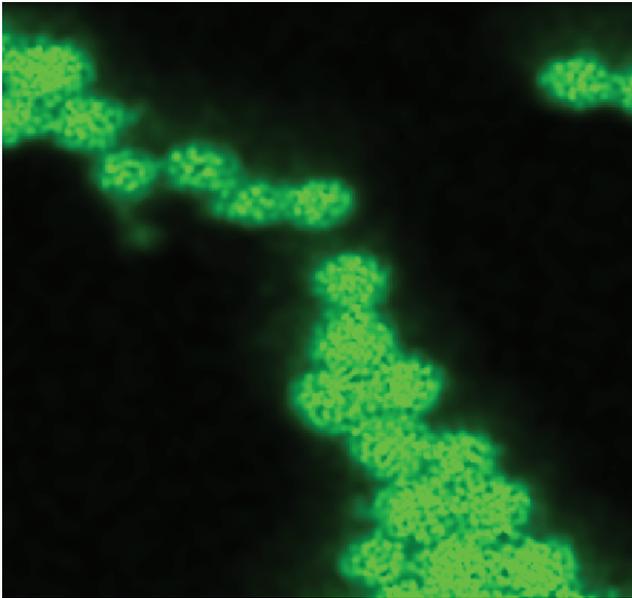
EDS: NIOx

Sample on grid
EDS spectrum



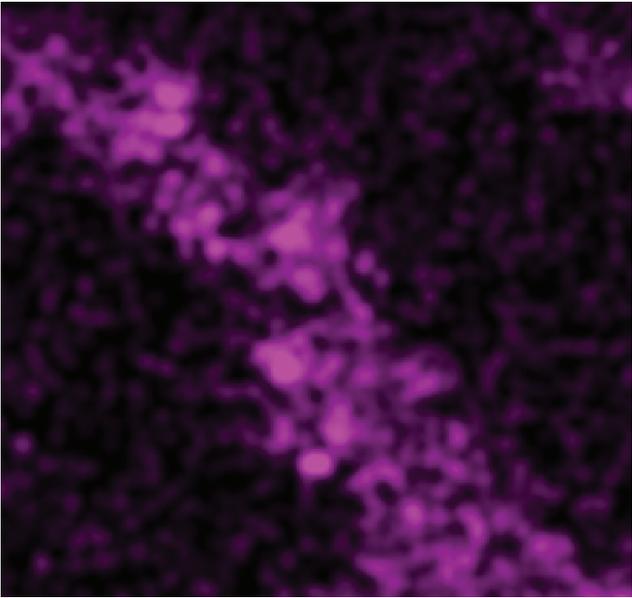
EDS: SiTiAg

particles on carbon
EDS STEM



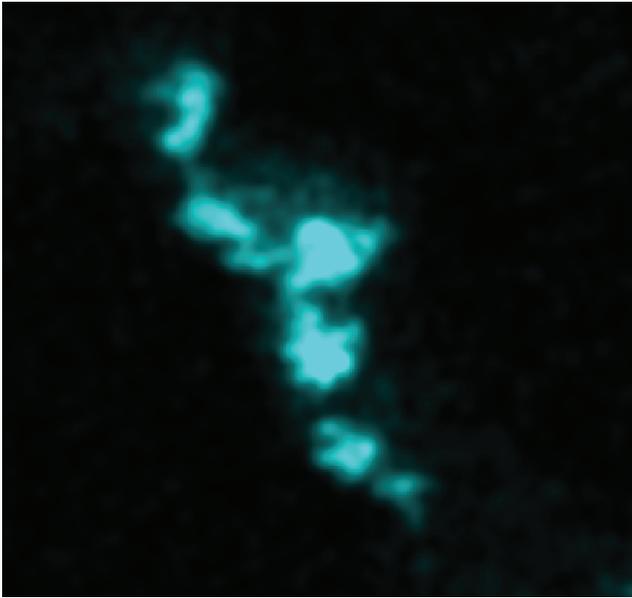
EDS: SiTiAg

particles on carbon
Si mapping



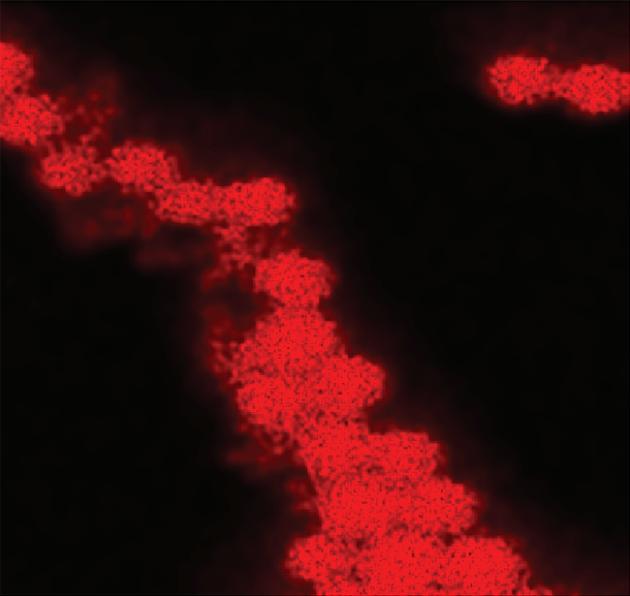
EDS: SiTiAg

particles on carbon
Ag mapping



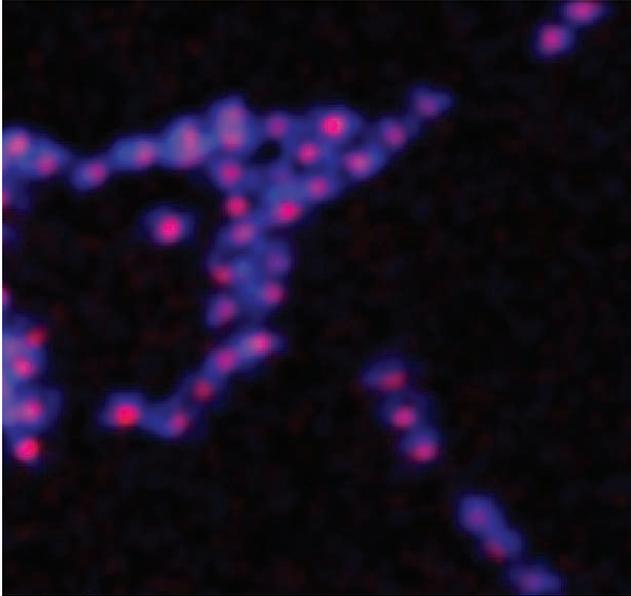
EDS: SiTiAg

particles on carbon
Ti mapping



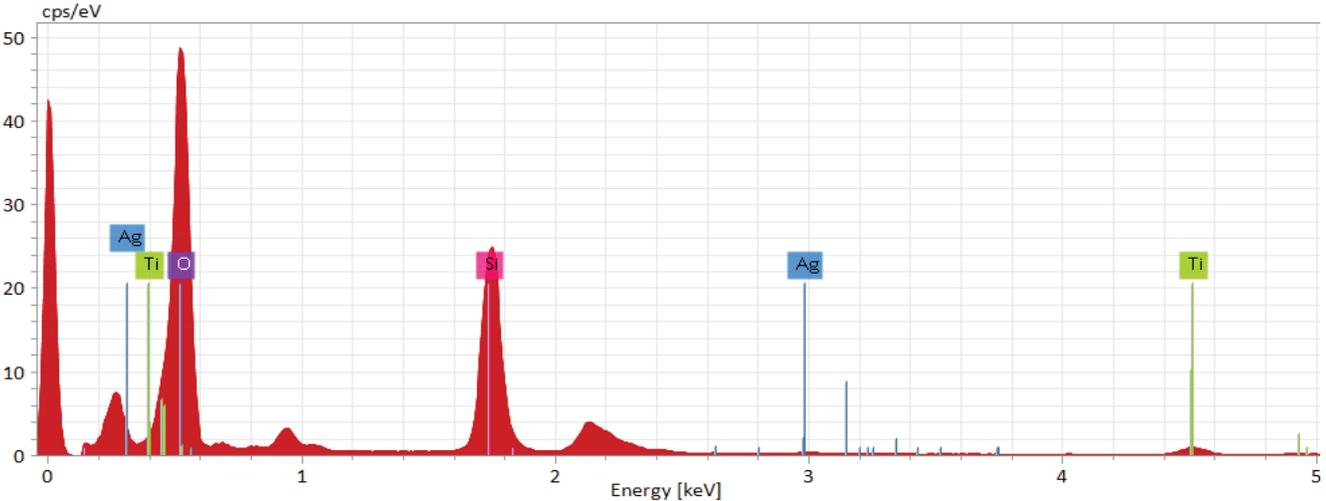
EDS: SiTiAg

particles on carbon
O mapping



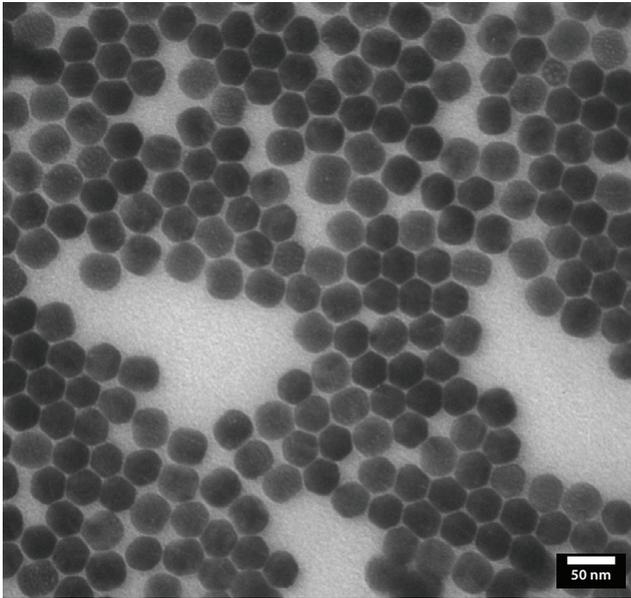
EDS: Silica Coated Gold

particles on carbon
SiAu mapping



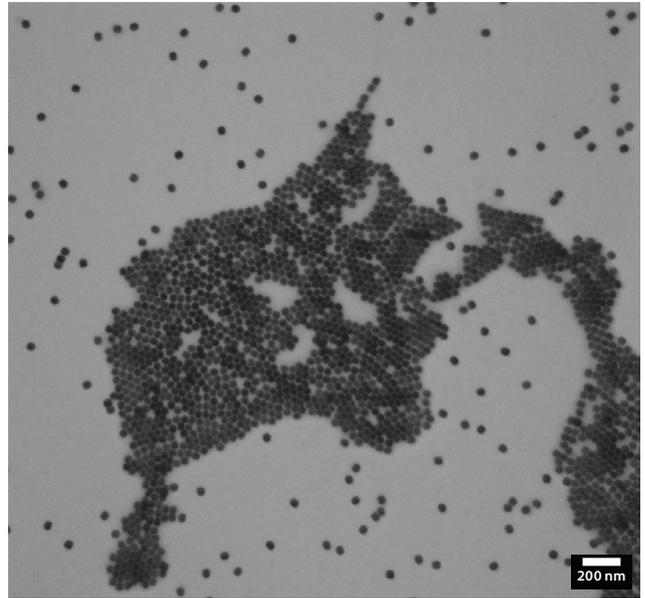
EDS: SiTiAg

Particles on carbon
EDS spectrum



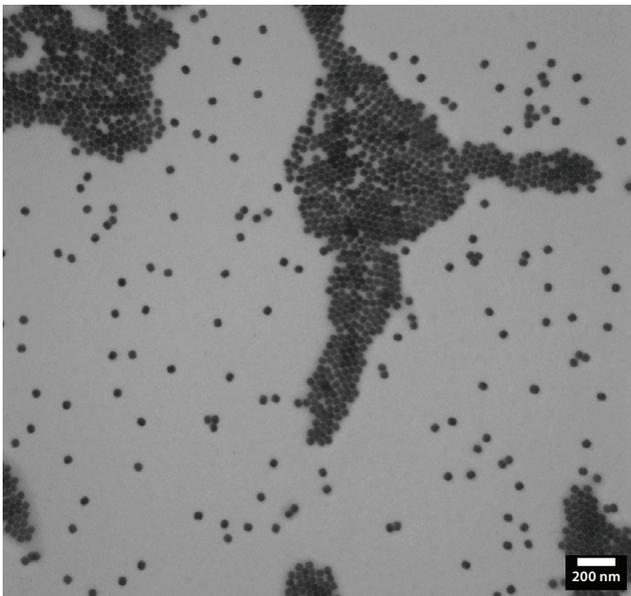
TEM: Earth Metal Nanoparticle

Particles on carbon film



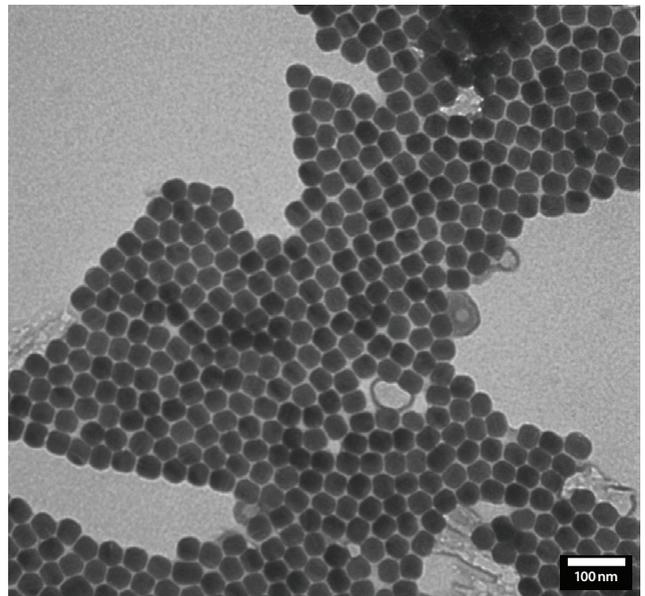
TEM: Earth Metal Nanoparticle

Particles on carbon film



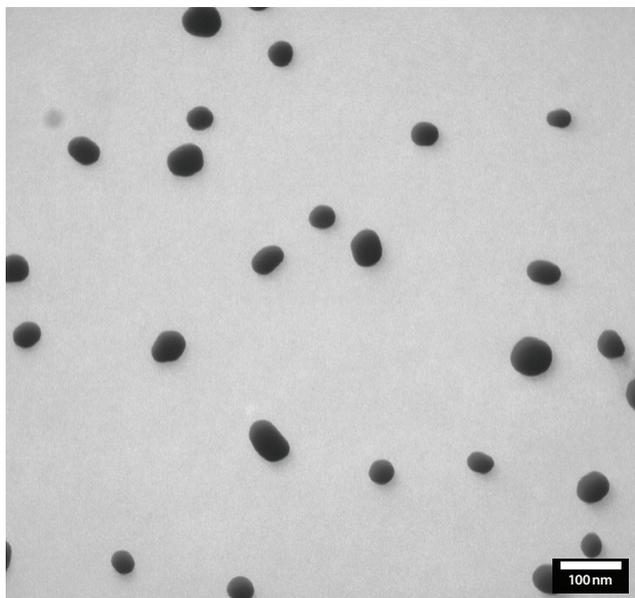
TEM: Earth Metal Nanoparticle

Particles on carbon film



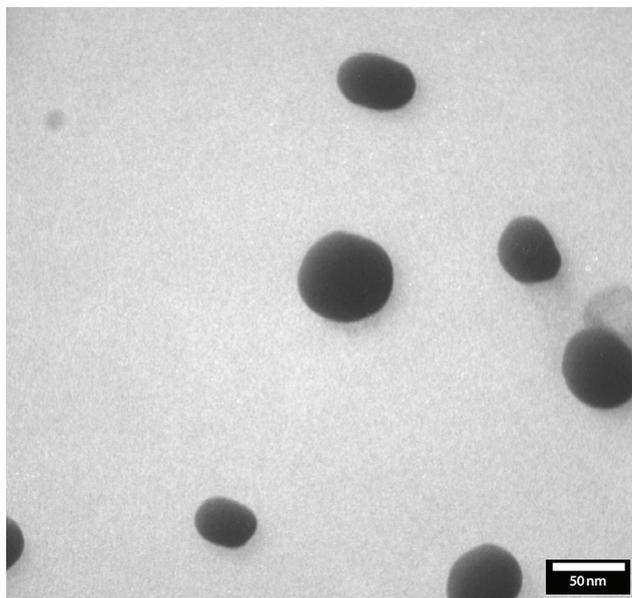
TEM: Earth Metal Nanoparticle

Particles on carbon film



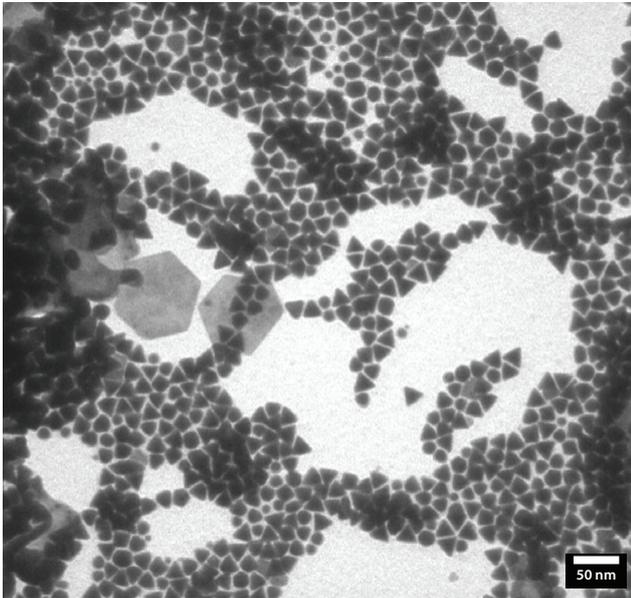
TEM: Au Nanoparticles

Particles on carbon film



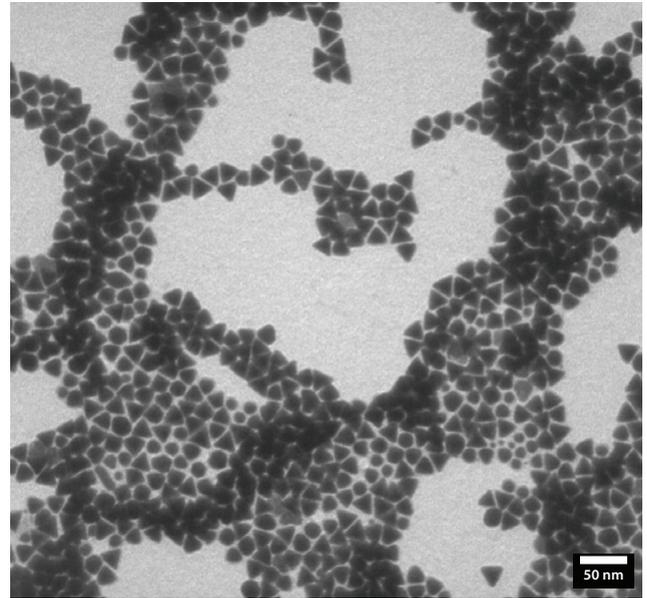
TEM: Au Nanoparticles

Particles on carbon film



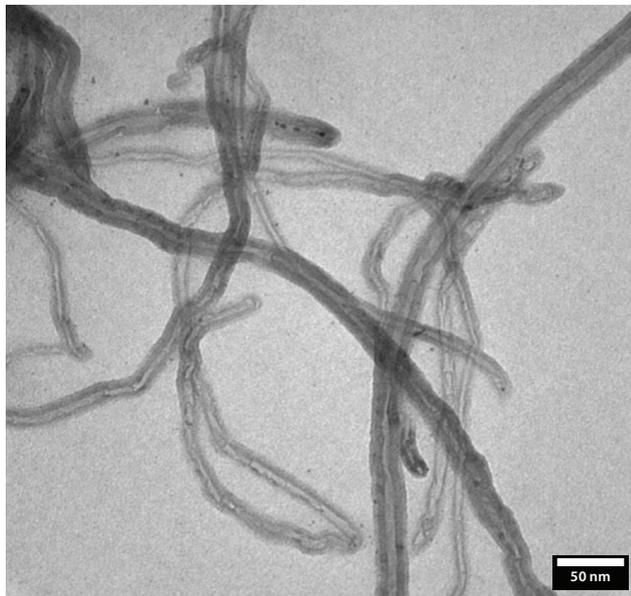
TEM: Pd Nanoparticles

Particles on carbon film



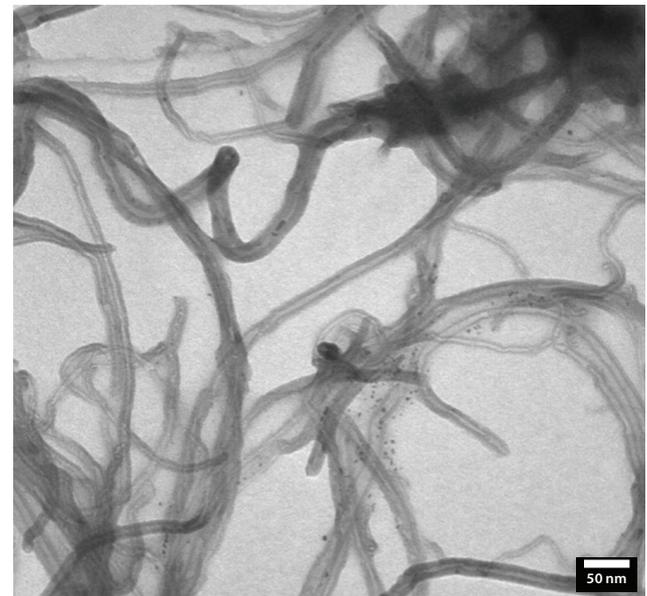
TEM: Pd Nanoparticles

Particles on carbon film



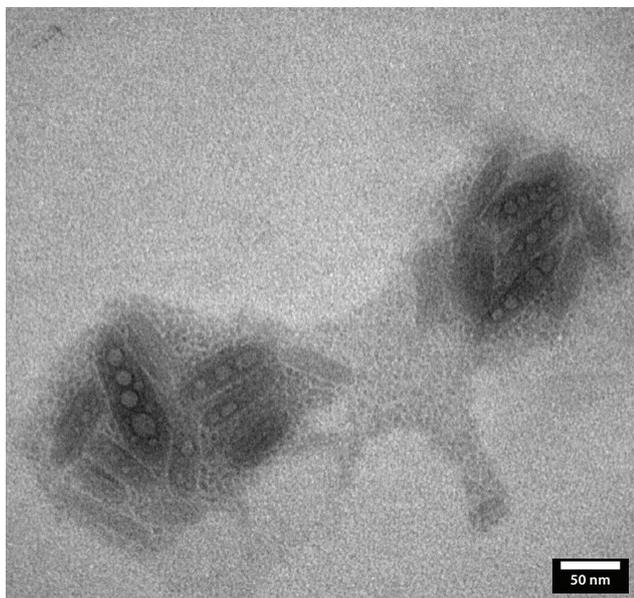
TEM: Pt Nanoparticles with CNT

Particles on carbon film



TEM: Pt Nanoparticles with CNT

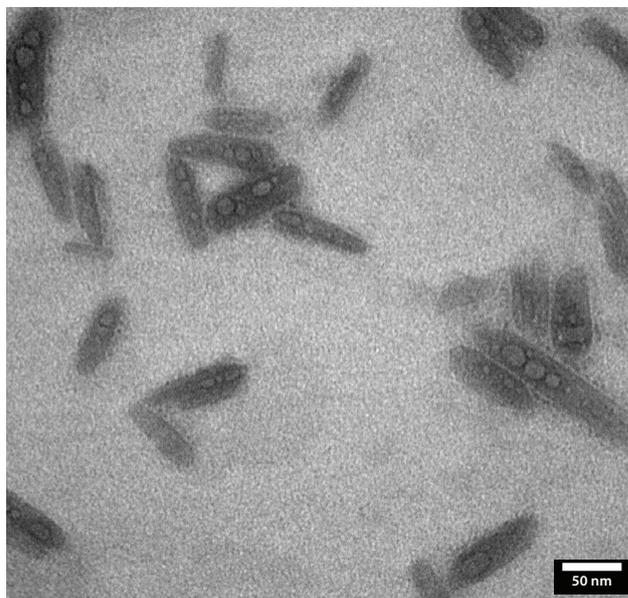
Particles on carbon film



TEM: AMN and ACC Particles

Particles on carbon film

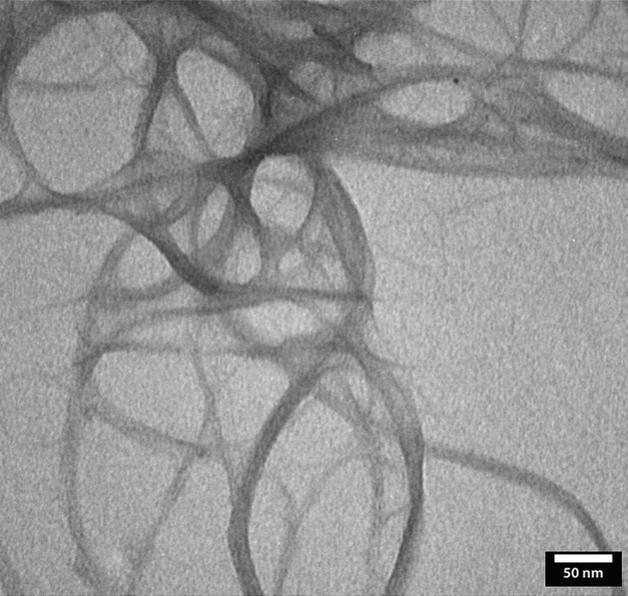
Colloidally stabilized amorphous magnesium carbonate and calcium carbonate particles



TEM: AMN and ACC Particles

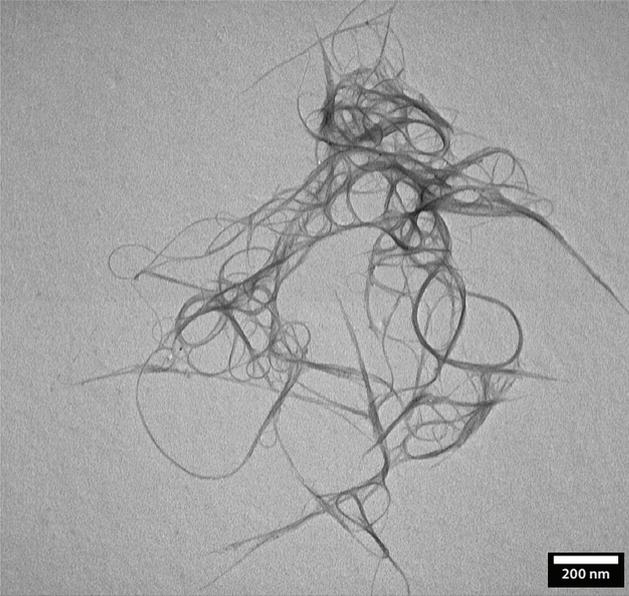
Particles on carbon film

Colloidally stabilized amorphous magnesium carbonate and calcium carbonate particles



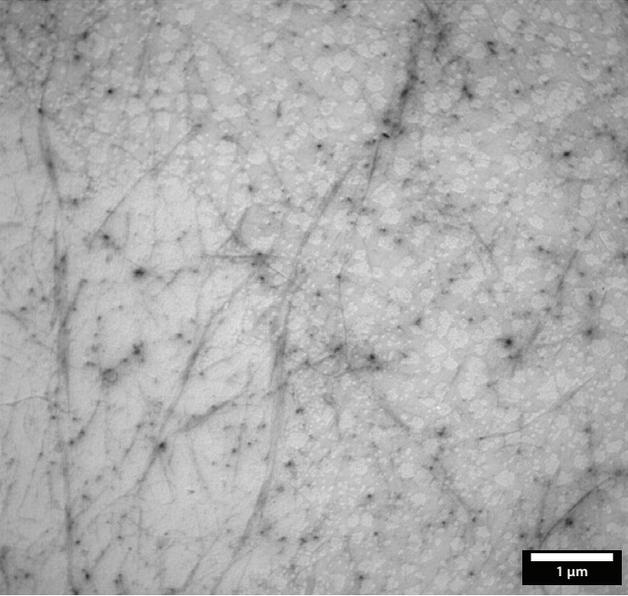
TEM: Nanotubes (SWCNT)

Particles on carbon film
Single-wall carbon nanotubes



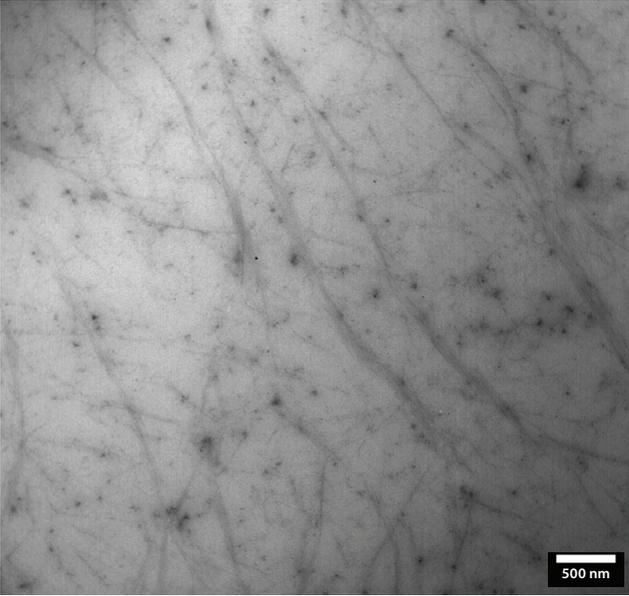
TEM: Nanotubes (SWCNT)

Particles on carbon film
Single-wall carbon nanotubes



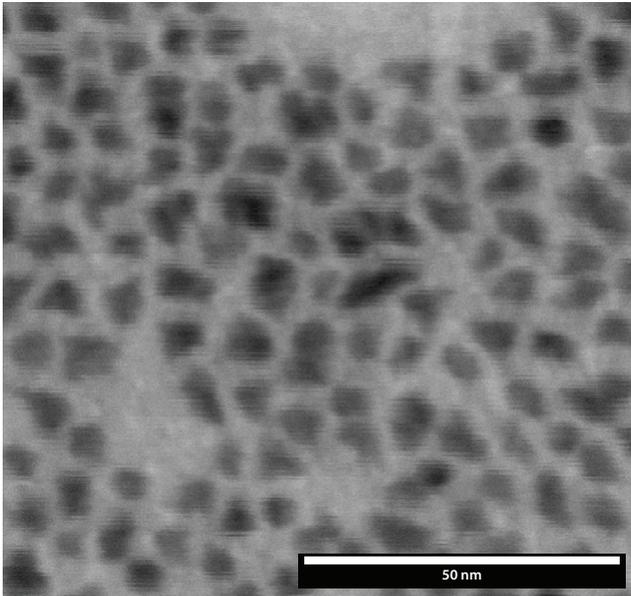
TEM: Nanotubes (SWCNT)

Particles on carbon film
Single-wall carbon nanotubes



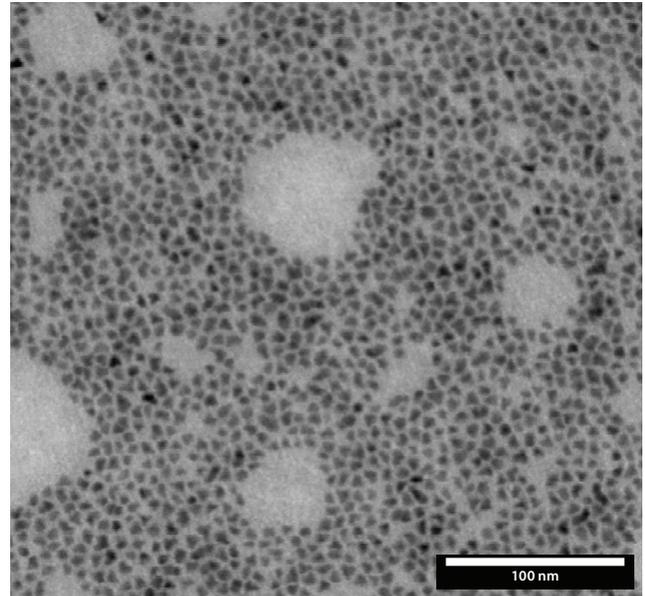
TEM: Nanotubes (SWCNT)

Particles on carbon film
Single-wall carbon nanotubes



STEM 10 kV: 6nm ZnS Qdots

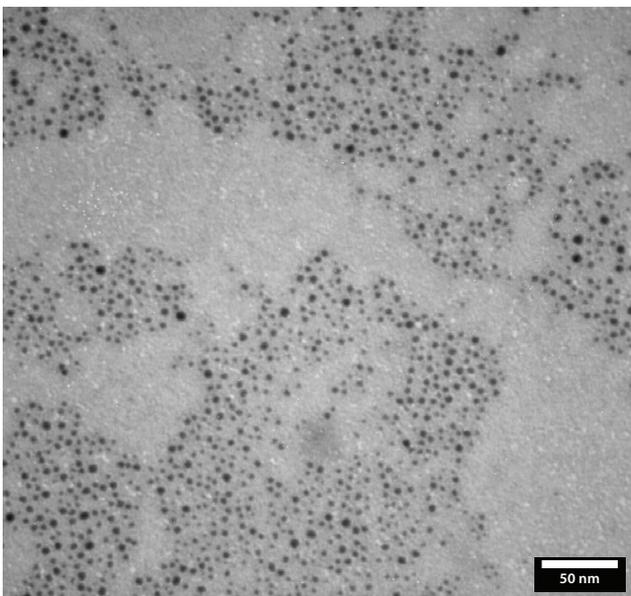
Particles on carbon film



STEM 10 kV: 6nm ZnS Qdots

Particles on carbon film

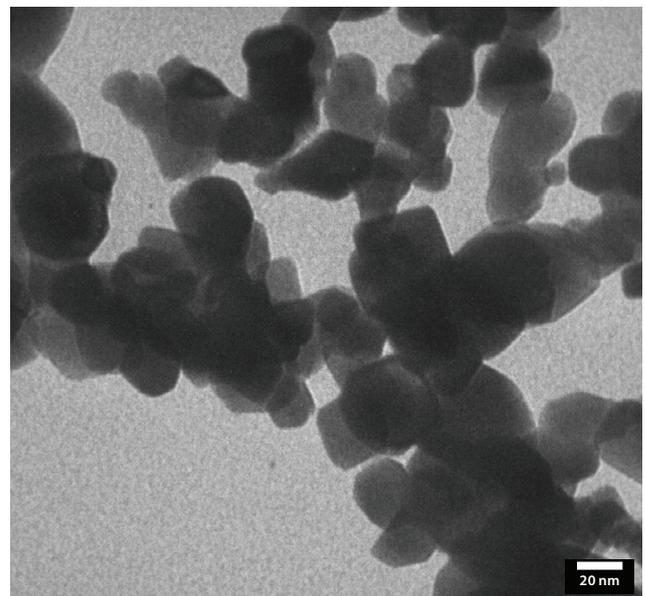
#136 C1, C2 a 11



TEM: Ag Nanoparticles with PVP

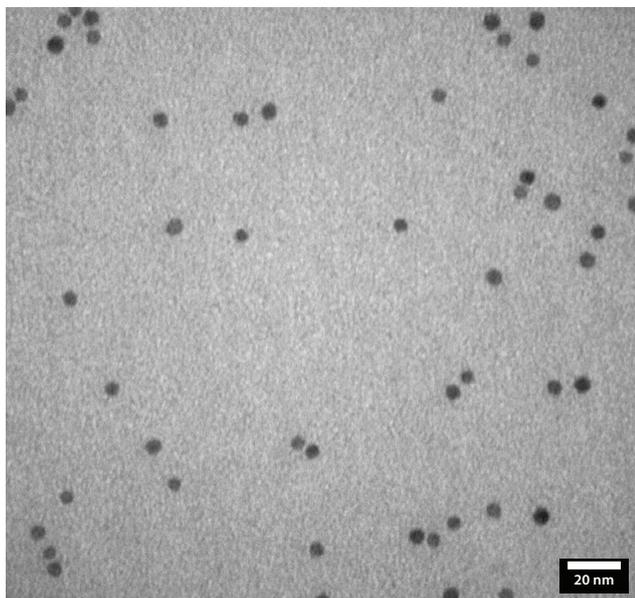
Particles on carbon film

PVP coated silver nanoparticles



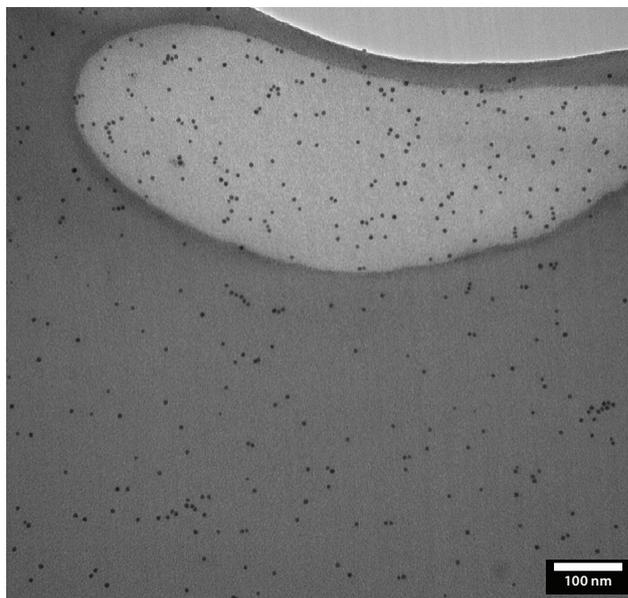
TEM: TiO₂ Nanoparticles

Particles on carbon film



TEM: Fe₃O₄ Nanoparticles

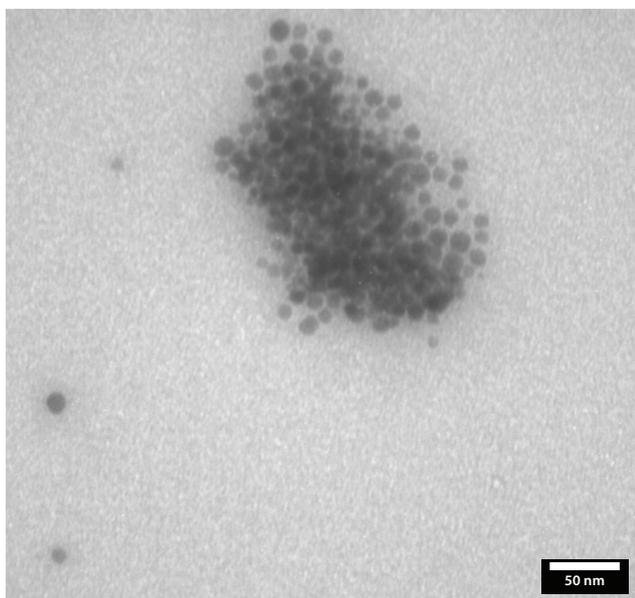
Particles on carbon film



TEM: Fe₃O₄ Nanoparticles

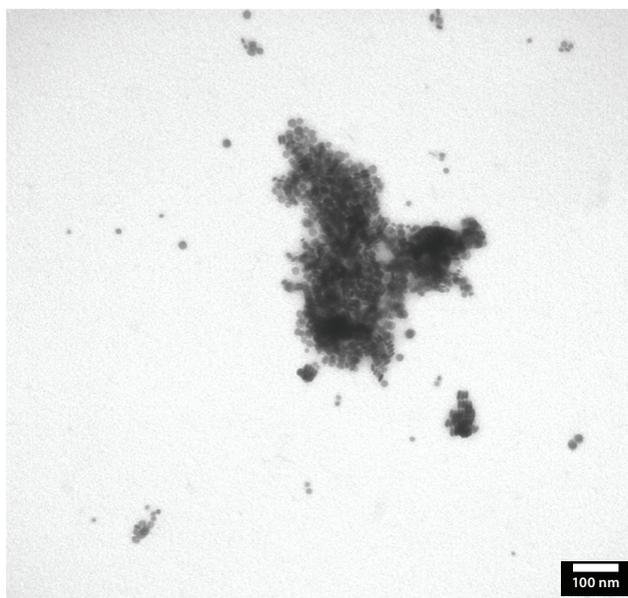
Particles on carbon film

#109



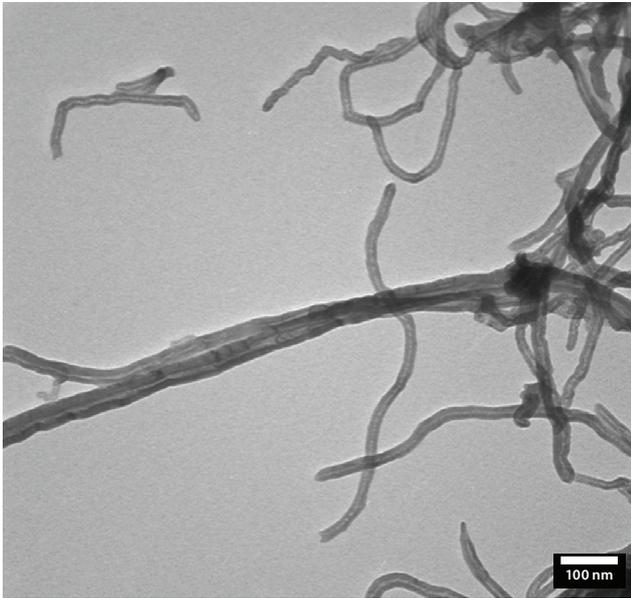
TEM: Semiconducting Nanoparticles

Particles on carbon film



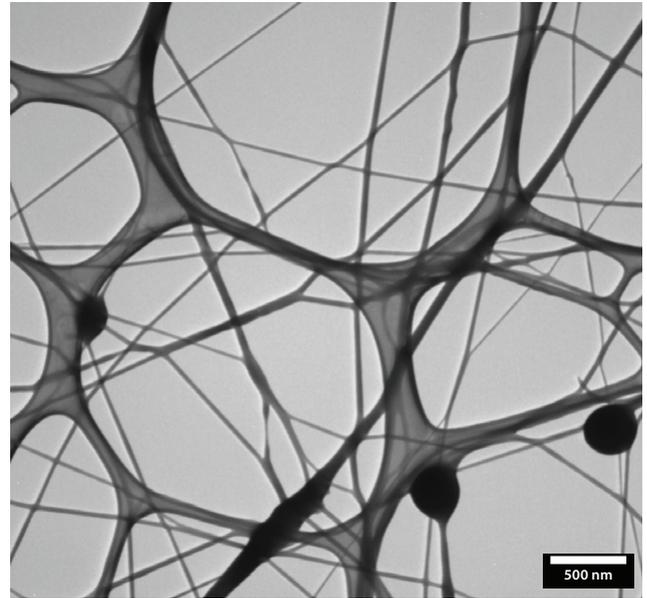
TEM: Semiconducting Nanoparticles

Particles on carbon film



TEM: Nanotubes (MWCNT)

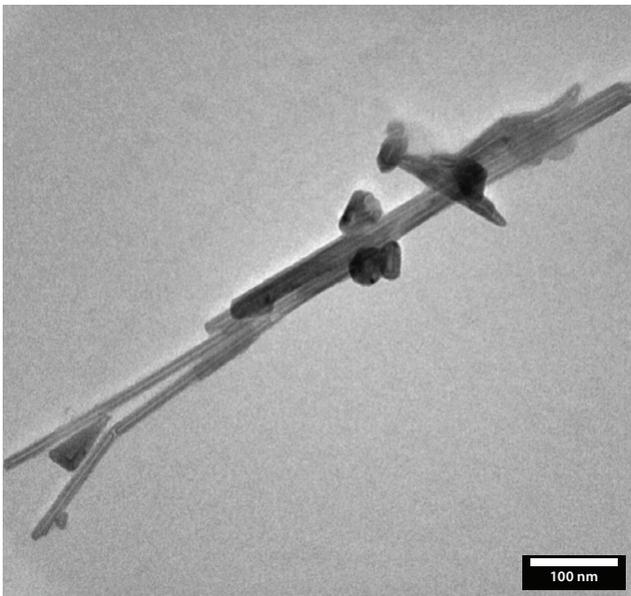
Particles on carbon film
Multi-wall carbon nanotubes



TEM: Nylon fibres

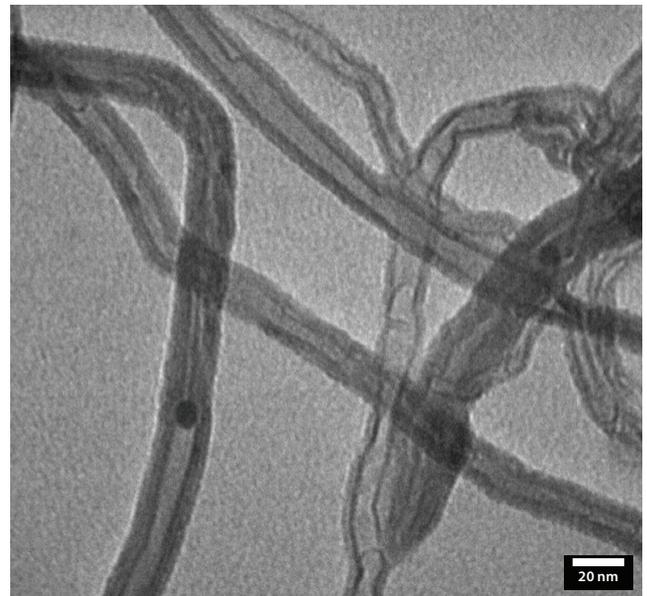
Particles on carbon film
Carbon nanotubes with nylon fibres

#NO NUMBER



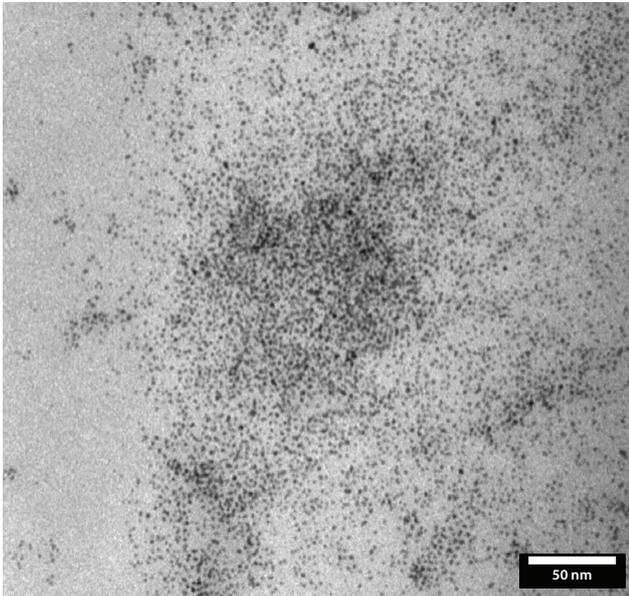
TEM: Nanotubes (SWCNT)

Particles on carbon film
Single-wall carbon nanotubes



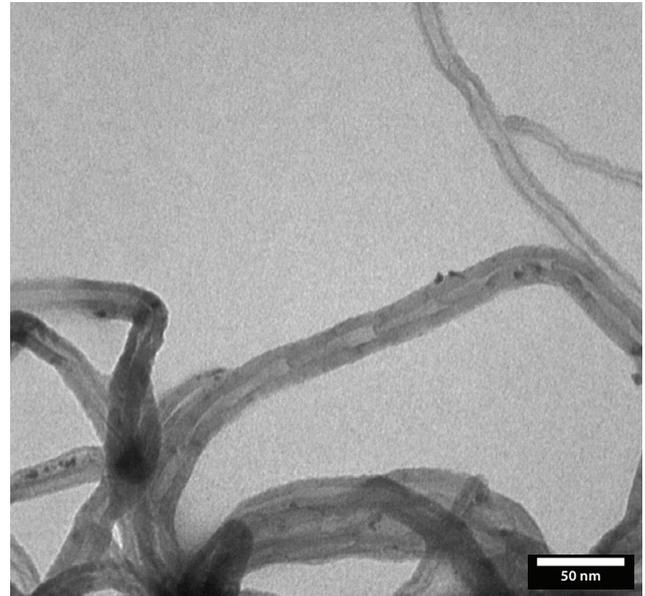
TEM: Nanotubes (CNT)

Particles on carbon film



TEM: 4 nm Pt Nanoparticles

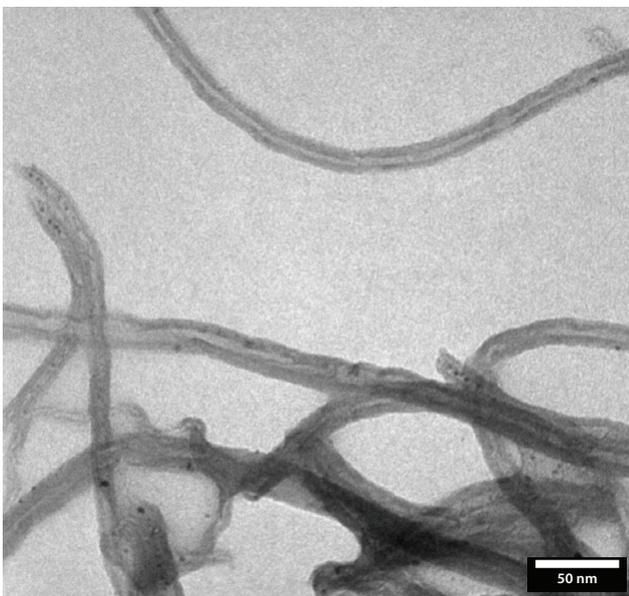
Particles on carbon film



TEM: Pt Nanoparticles with CNT

Particles on carbon film

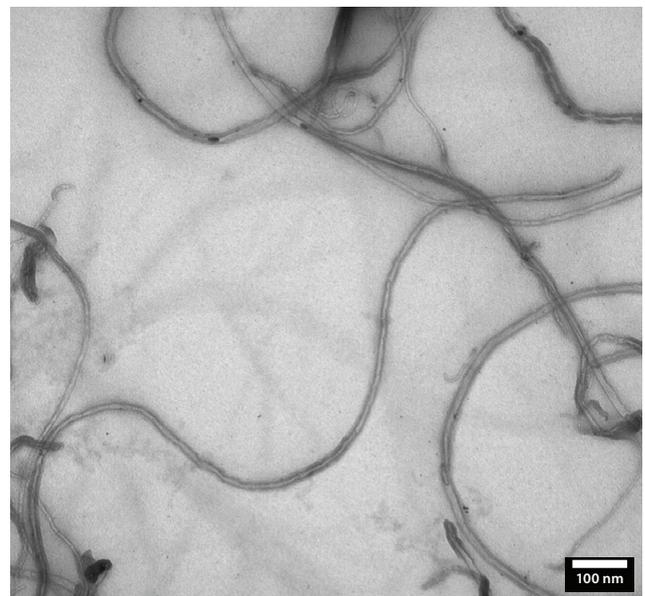
Carbon nanotubes with platinum nanoparticles embedded – particles resolved inside nanotubes



TEM: Pt Nanoparticles with CNT

Particles on carbon film

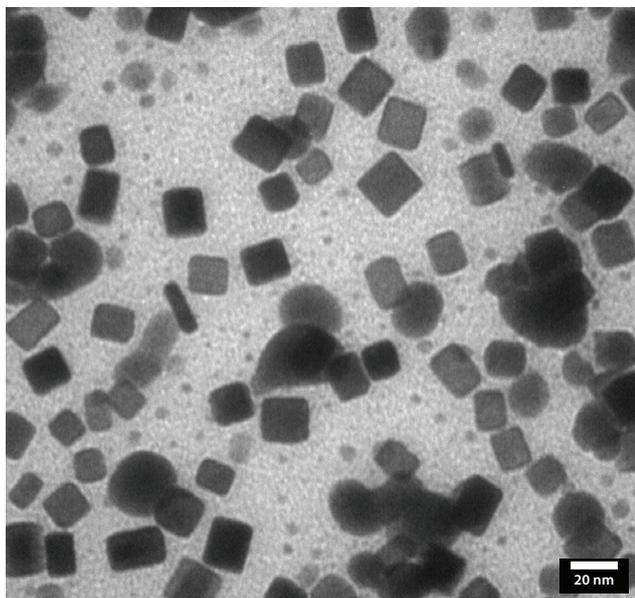
Carbon nanotubes with platinum nanoparticles embedded – particles resolved inside nanotubes



TEM: Pt Nanoparticles with CNT

Particles on carbon film

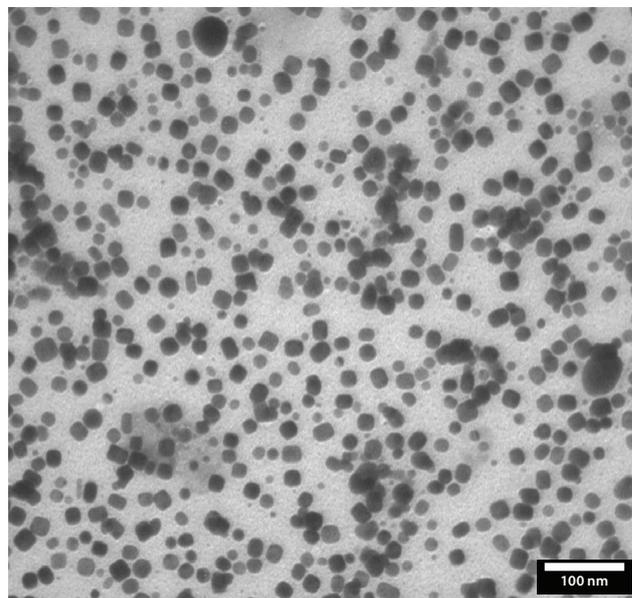
Carbon nanotubes with platinum nanoparticles embedded – particles resolved inside nanotubes



TEM: Colloidal Pd-Ag

Particles on carbon film

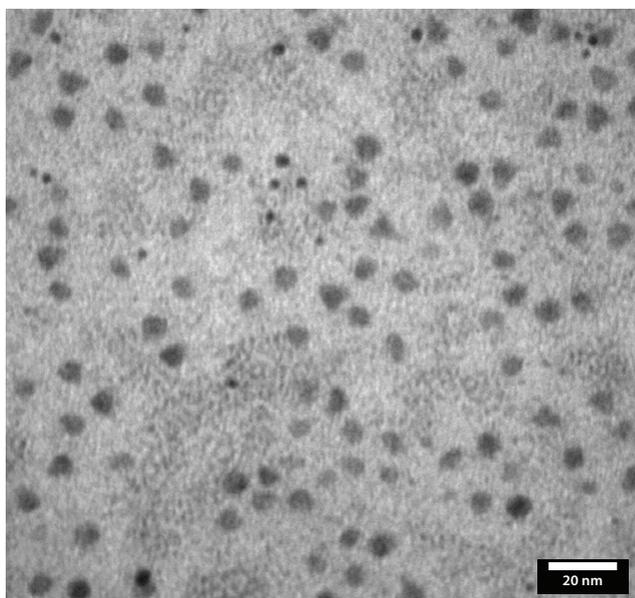
Mixture of colloidal Pd-Ag nanoparticles (1:5)



TEM: Colloidal Pd-Ag

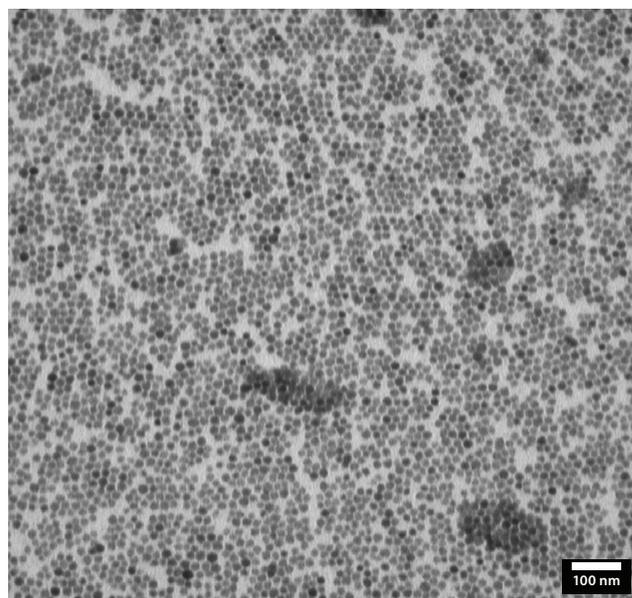
Particles on carbon film

Mixture of colloidal Pd-Ag nanoparticles (1:5)



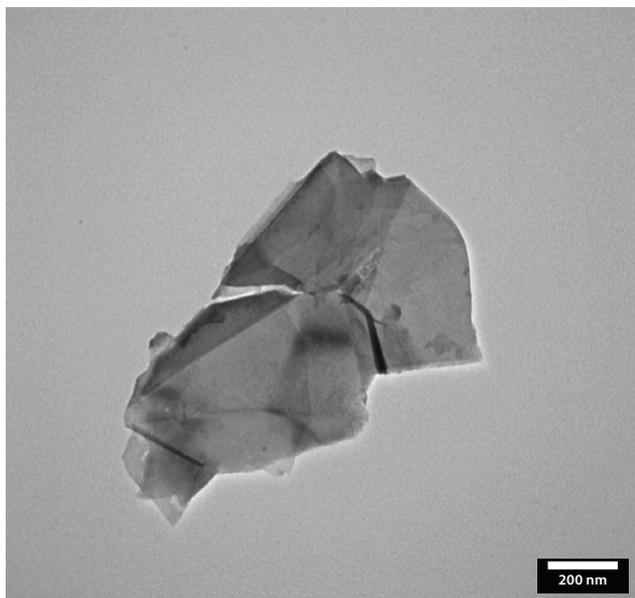
TEM: Quantum Dots

Particles on carbon film



TEM: 8 nm PbS Nanoparticles

Particles on carbon film



TEM: Graphene Nanoplates

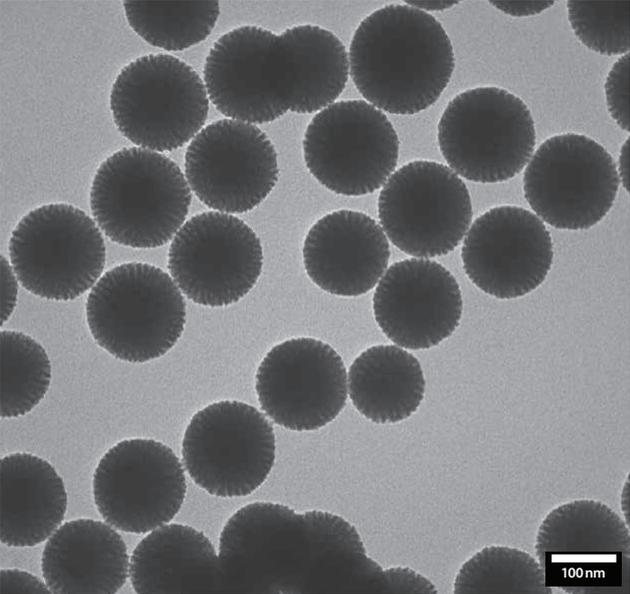
Particles on carbon film



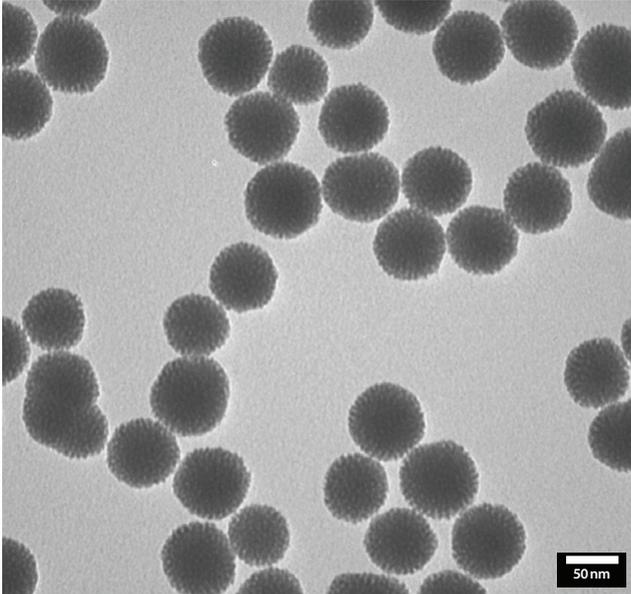
TEM: Graphene Oxide Crystal

Particles on carbon film

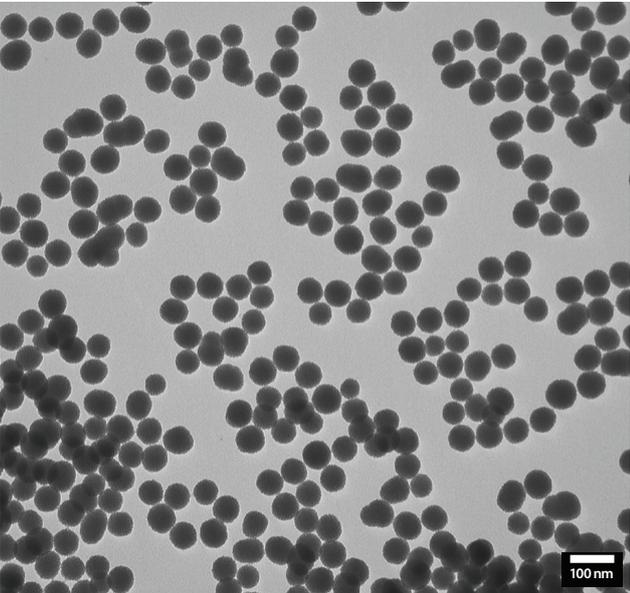
Dark field



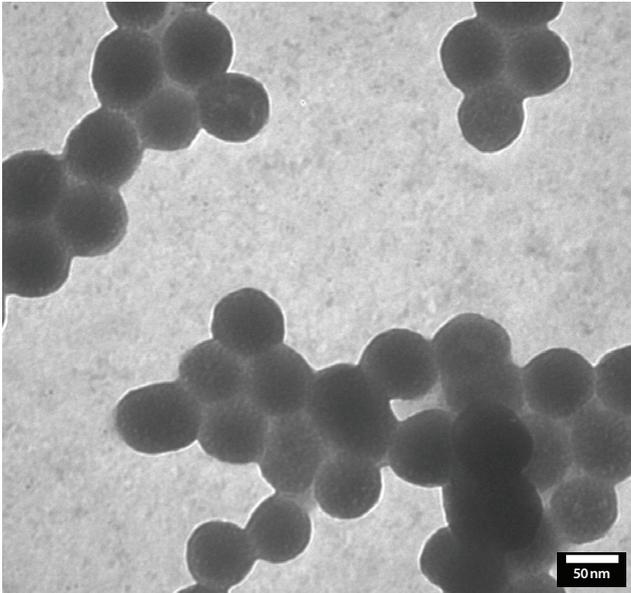
TEM: Mesoporous Silica
Particles on carbon film



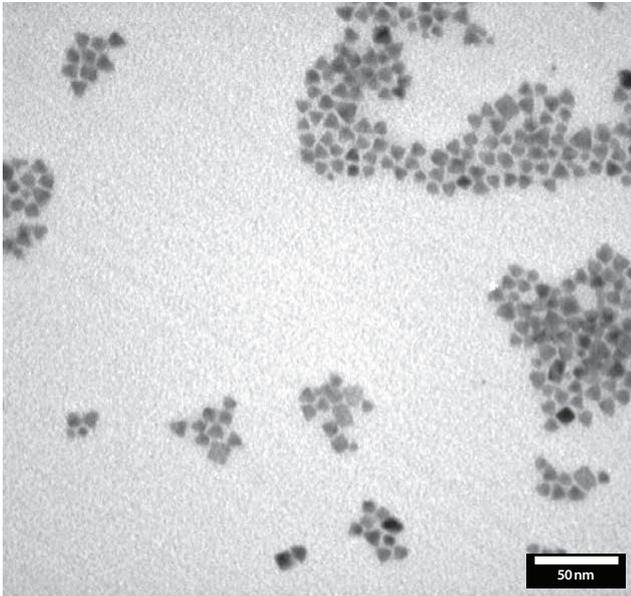
TEM: Mesoporous Silica
Particles on carbon film



TEM: Mesoporous Silica
Particles on carbon film



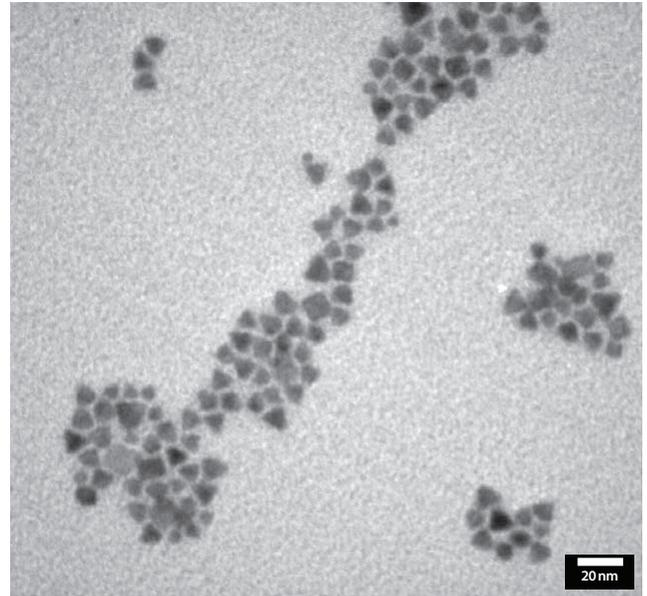
TEM: Mesoporous Silica
Particles on carbon film



TEM: CdSe/CdS Quantum Dots

Particles on carbon film

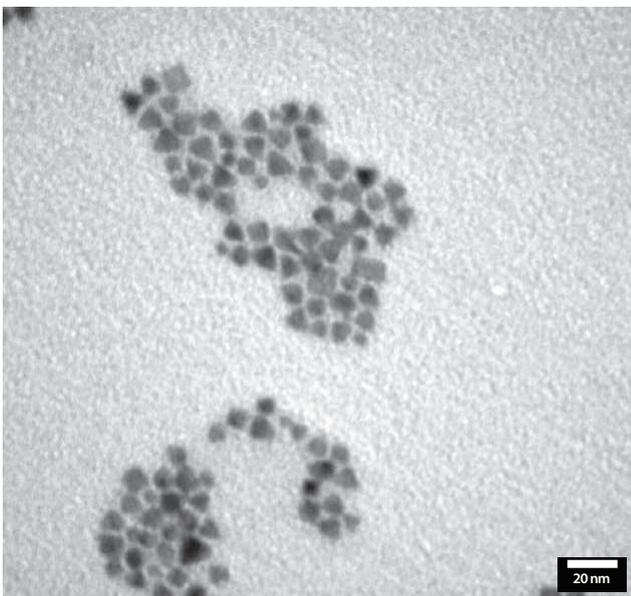
CdSe core covered by CdS shell



TEM: CdSe/CdS Quantum Dots

Particles on carbon film

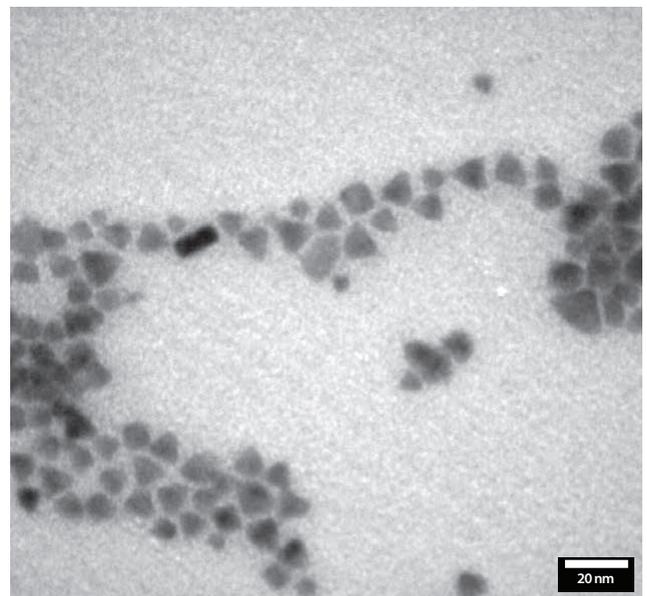
CdSe core covered by CdS shell



TEM: CdSe/CdS Quantum Dots

Particles on carbon film

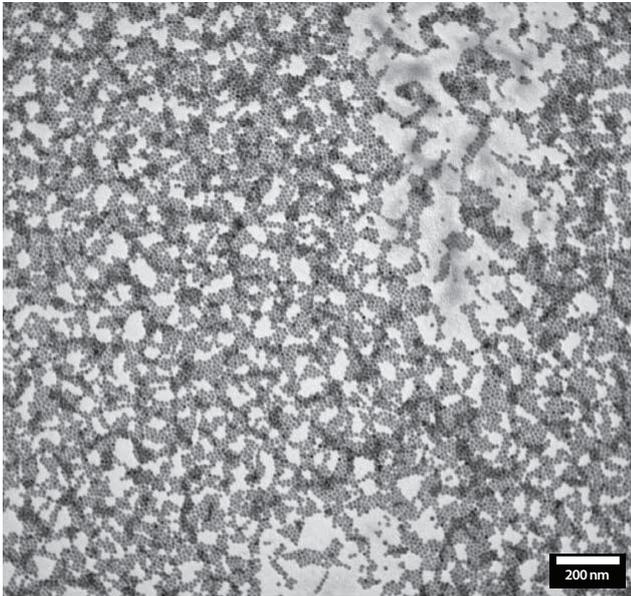
CdSe core covered by CdS shell



TEM: CdSe/CdS Quantum Dots

Particles on carbon film

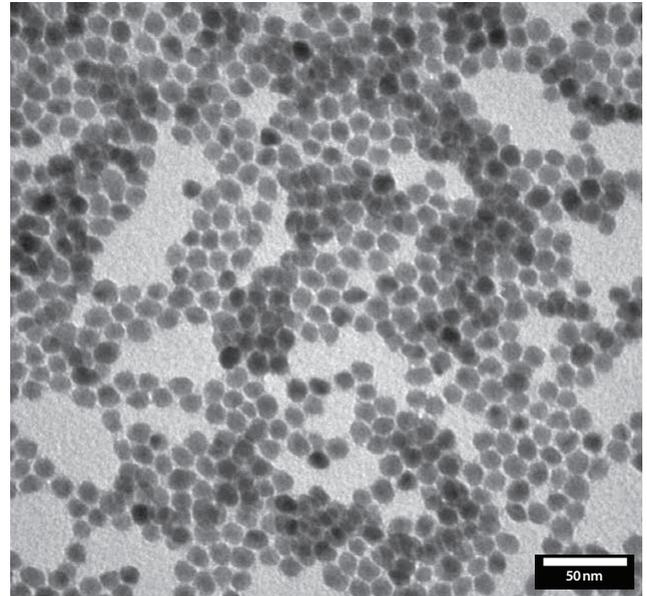
CdSe core covered by CdS shell



TEM: CdSe/ZnS Quantum Dots

Particles on carbon film

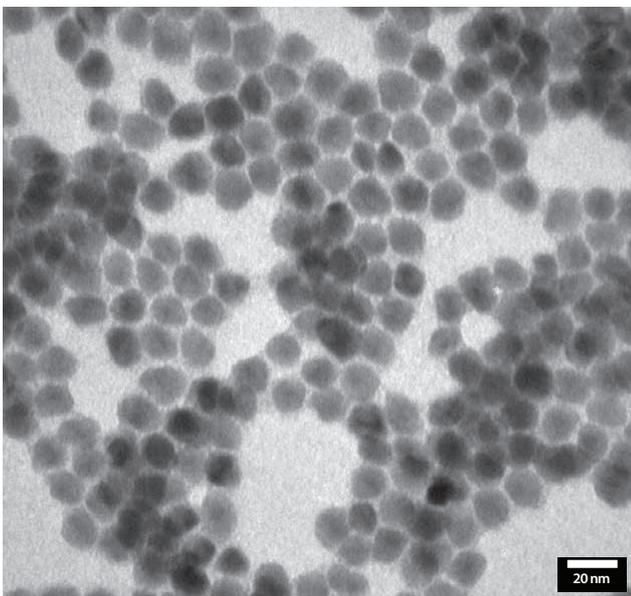
Core covered by a gradient ZnS shell



TEM: CdSe/ZnS Quantum Dots

Particles on carbon film

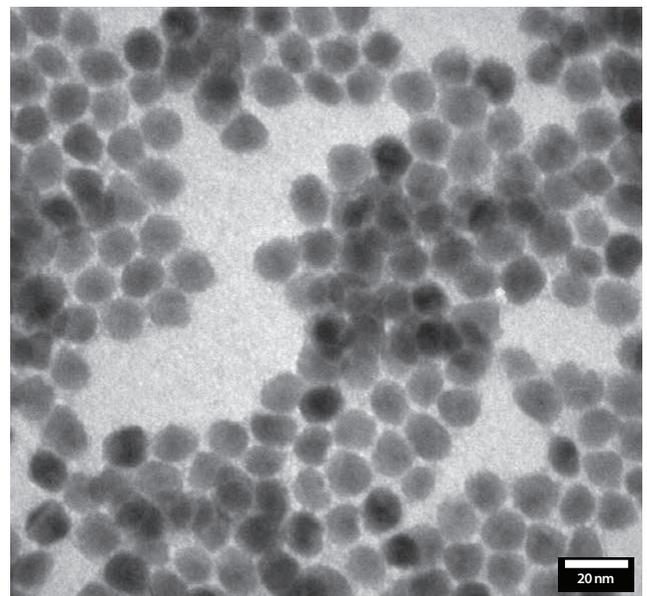
Core covered by a gradient ZnS shell



TEM: CdSe/ZnS Quantum Dots

Particles on carbon film

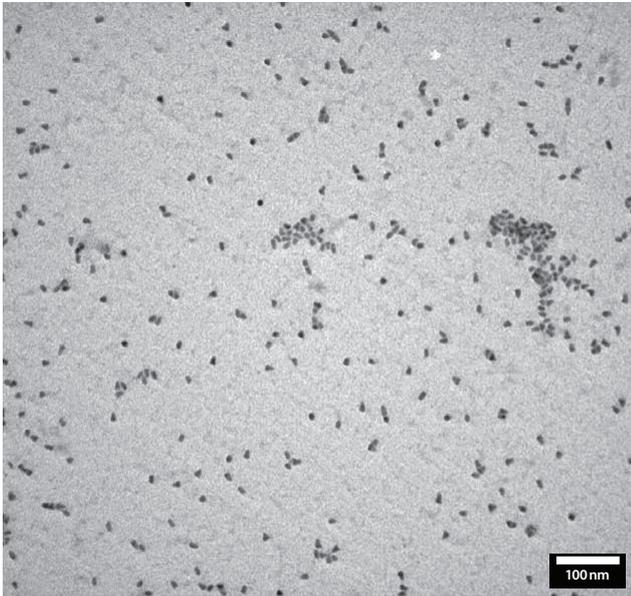
Core covered by a gradient ZnS shell



TEM: CdSe/ZnS Quantum Dots

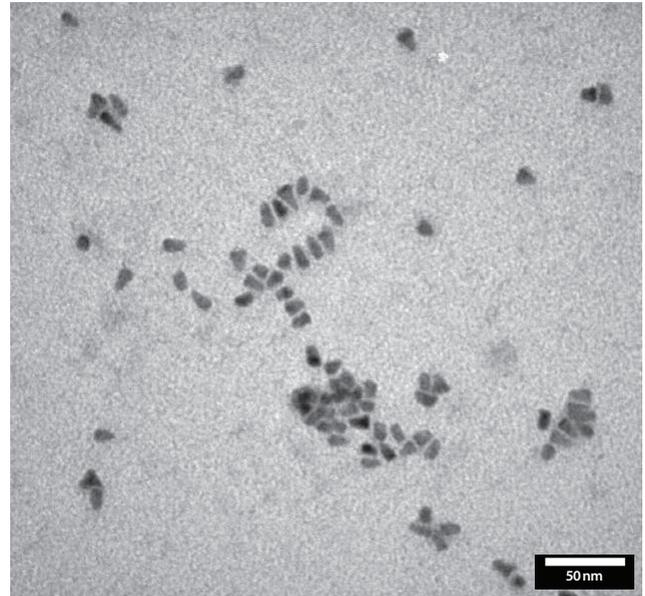
Particles on carbon film

Core covered by a gradient ZnS shell



TEM: Quantum dots

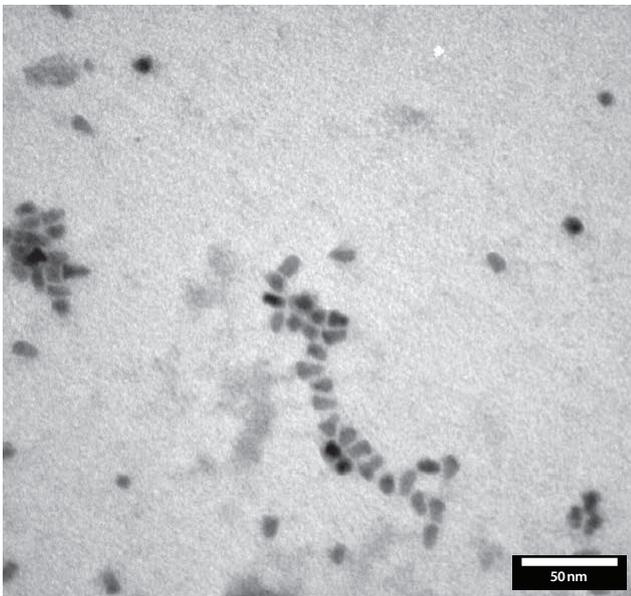
Particles on carbon film



TEM: Quantum dots

Particles on carbon film

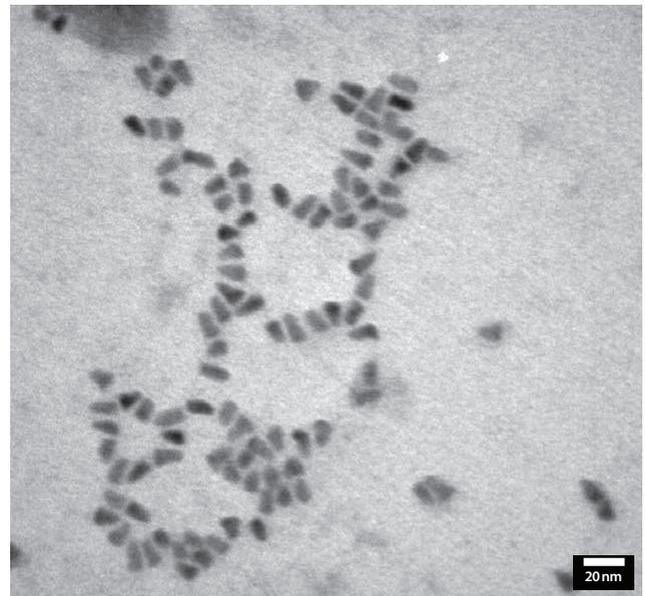
Clearly visible shape



TEM: Quantum dots

Particles on carbon film

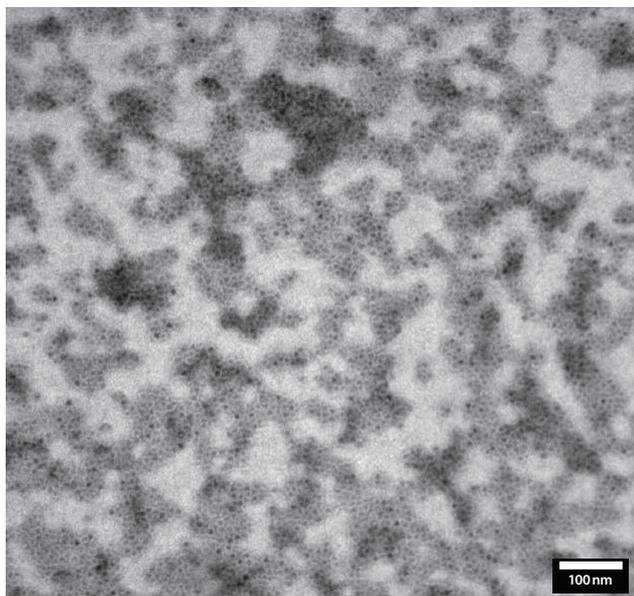
Clearly visible shape



TEM: Quantum dots

Particles on carbon film

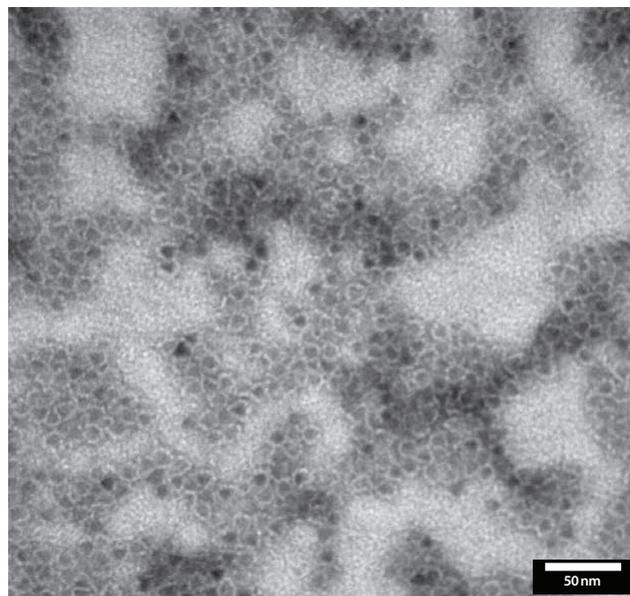
Clearly visible shape



TEM: Quantum dots

Particles on carbon film

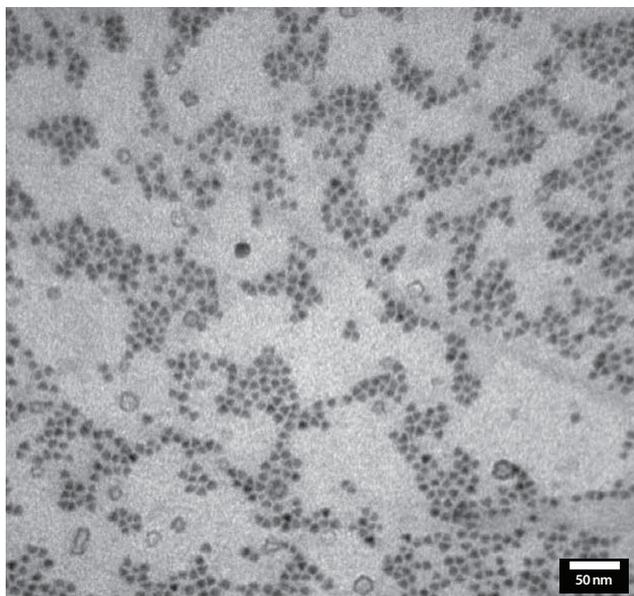
10 nm particles, 605 ITK carboxyl, stained by 1.2% UAc.
Point of interest: inorganic core and carboxyl shell



TEM: Quantum dots

Particles on carbon film

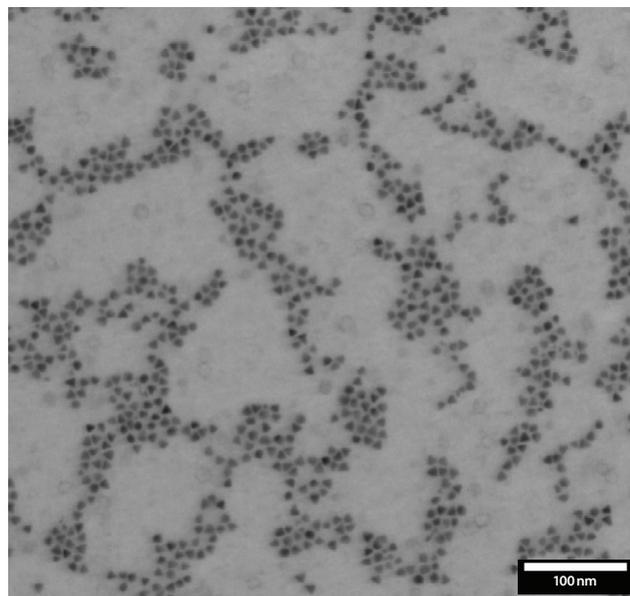
10 nm particles, 605 ITK carboxyl, stained by 1.2% UAc.
Point of interest: inorganic core and carboxyl shell



TEM: Quantum dots

Particles on carbon film

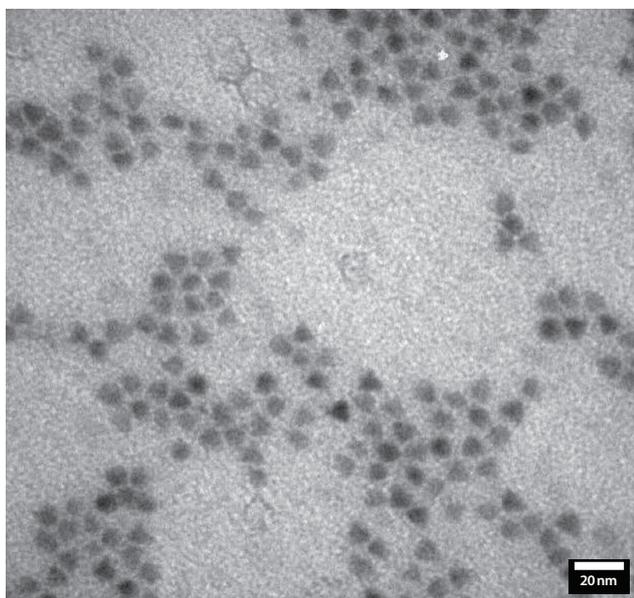
10 nm particles, 605 ITK carboxyl, unstained



STEM 15 kV: Quantum Dots

Particles on carbon film

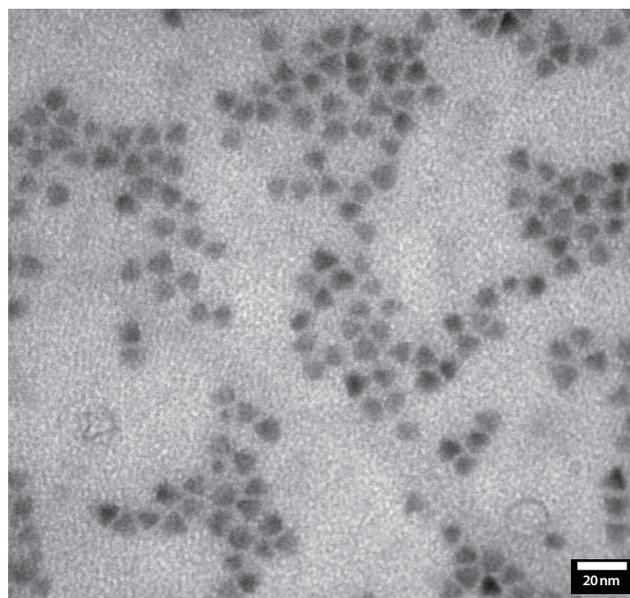
10 nm particles, 605 ITK carboxyl, unstained



TEM: Quantum dots

Particles on carbon film

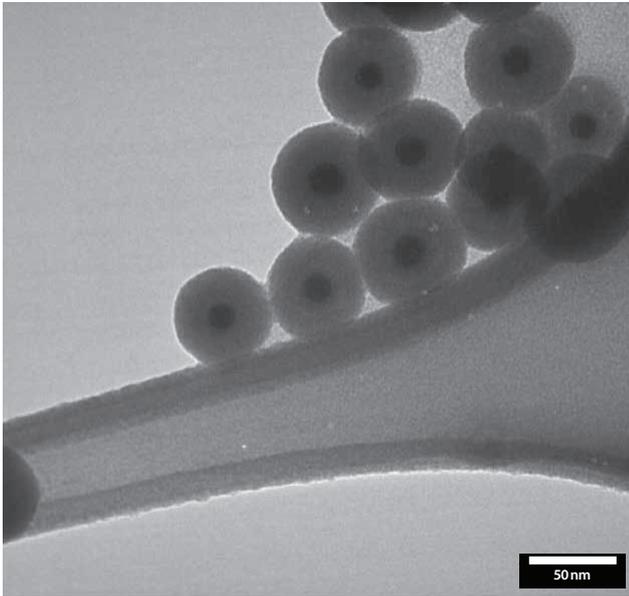
10 nm particles, 605 ITK carboxyl, unstained



TEM: Quantum dots

Particles on carbon film

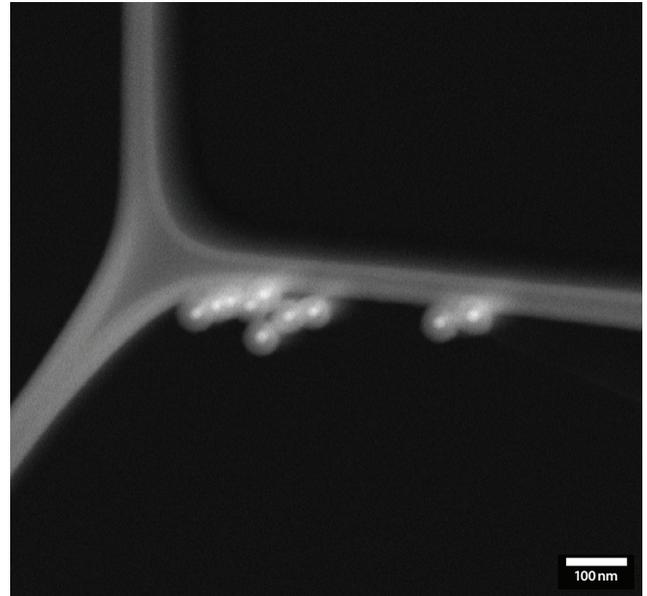
10 nm particles, 605 ITK carboxyl, unstained



TEM: Silica-Coated Gold

Particles on carbon film

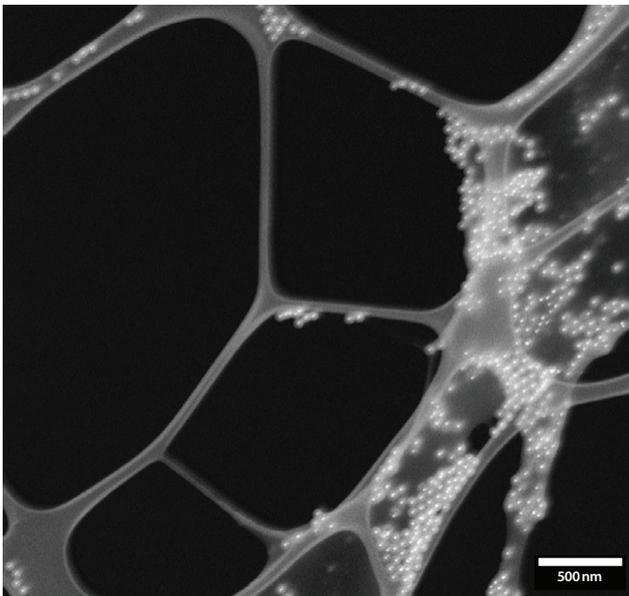
Gold colloids with 20 nm silica shell



SEM: Silica-Coated Gold

Particles on carbon film

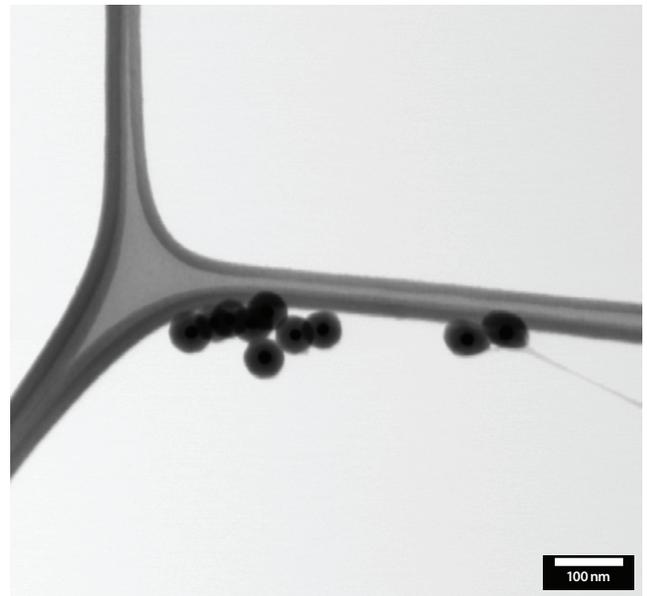
BSE. Gold colloids with 20 nm silica shell



SEM: Silica-Coated Gold

Particles on carbon film

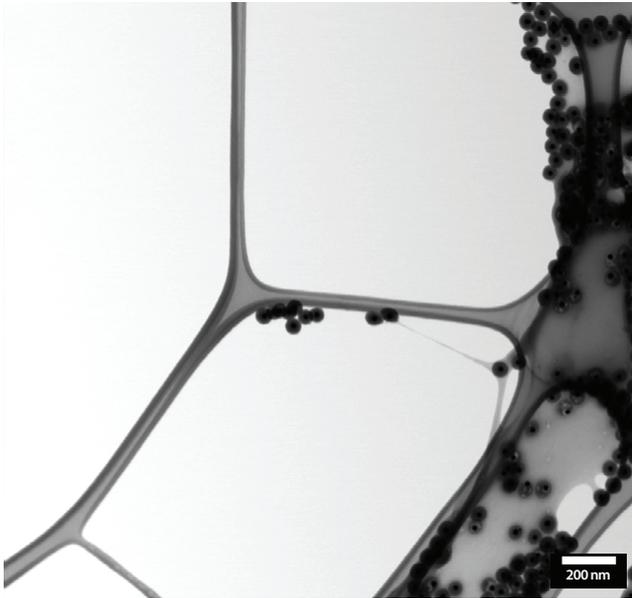
BSE. Gold colloids with 20 nm silica shell



STEM 15 kV: Silica-Coated Gold

Particles on carbon film

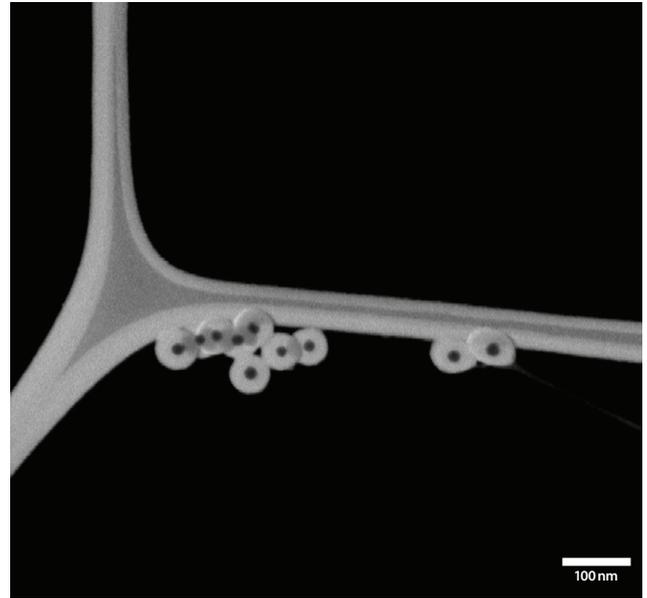
Gold colloids with 20 nm silica shell



STEM 15 kV: Silica-Coated Gold

Particles on carbon film

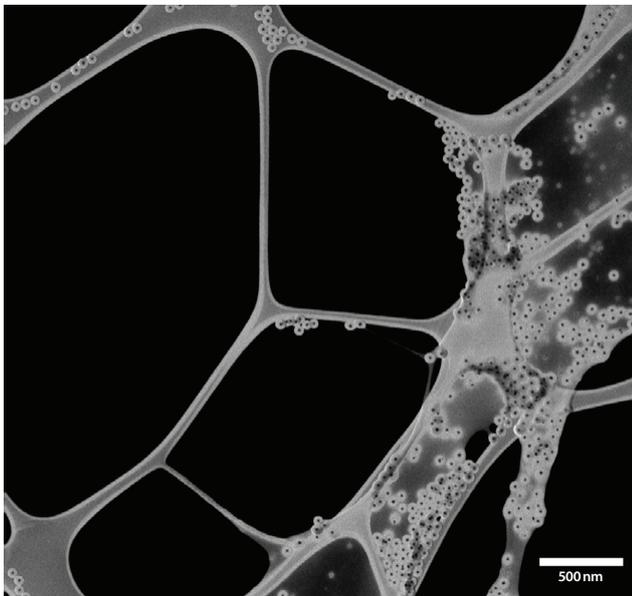
Gold colloids with 20 nm silica shell



STEM 15 kV: Silica-Coated Gold

Particles on carbon film

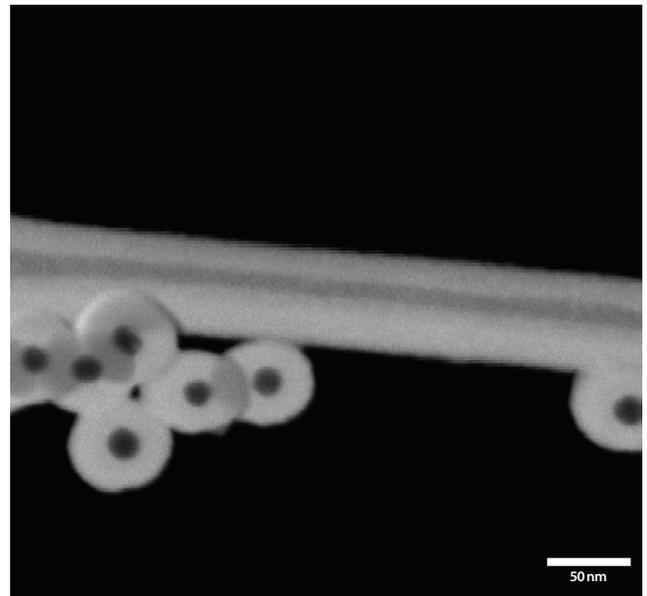
Dark field; Gold colloids with 20 nm silica shell



STEM 15 kV: Silica-Coated Gold

Particles on carbon film

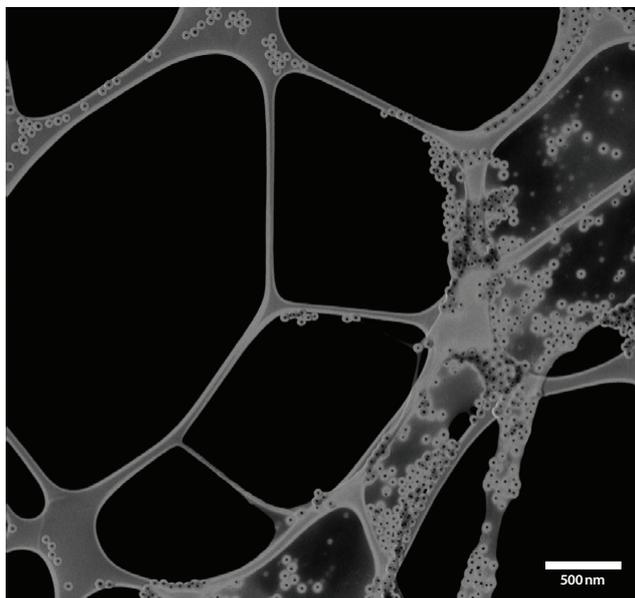
Dark field; Gold colloids with 20 nm silica shell



STEM 15 kV: Silica-Coated Gold

Particles on carbon film

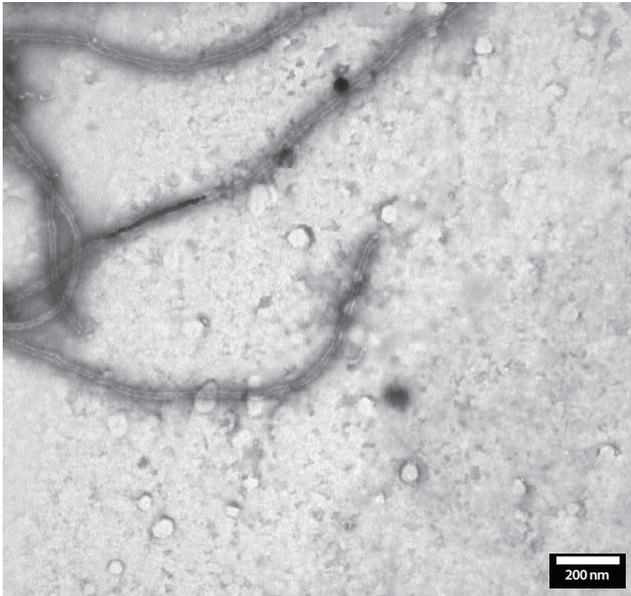
Dark field; Gold colloids with 20 nm silica shell



STEM 15 kV: Silica-Coated Gold

Particles on carbon film

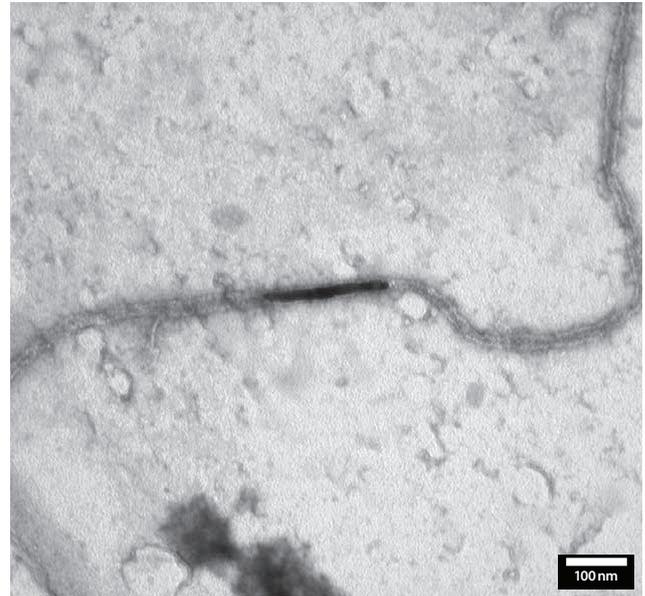
Dark field; Gold colloids with 20 nm silica shell



TEM: Au Nanowires Inside Microtubules

Particles on carbon film

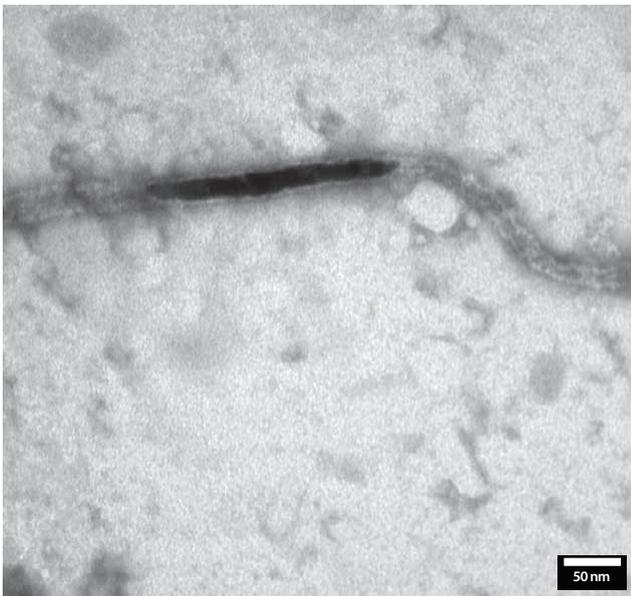
0.75 % UF stained gold nanowires inside microtubules



TEM: Au Nanowires Inside Microtubules

Particles on carbon film

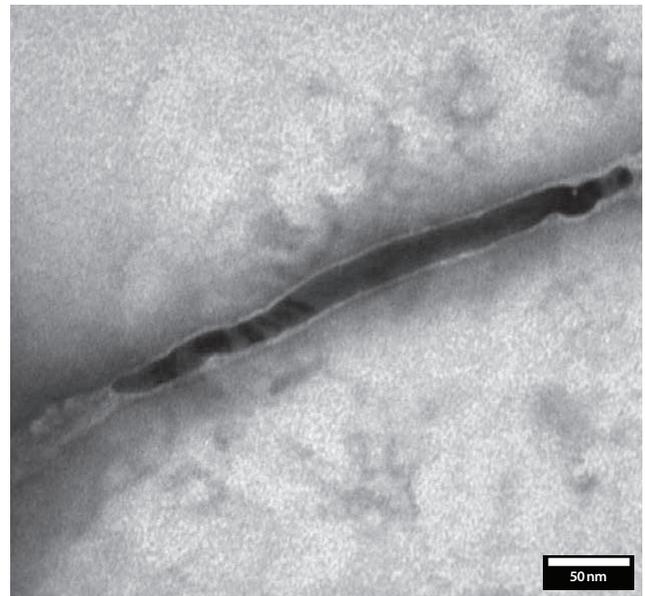
0.75 % UF stained gold nanowires inside microtubules



TEM: Au Nanowires Inside Microtubules

Particles on carbon film

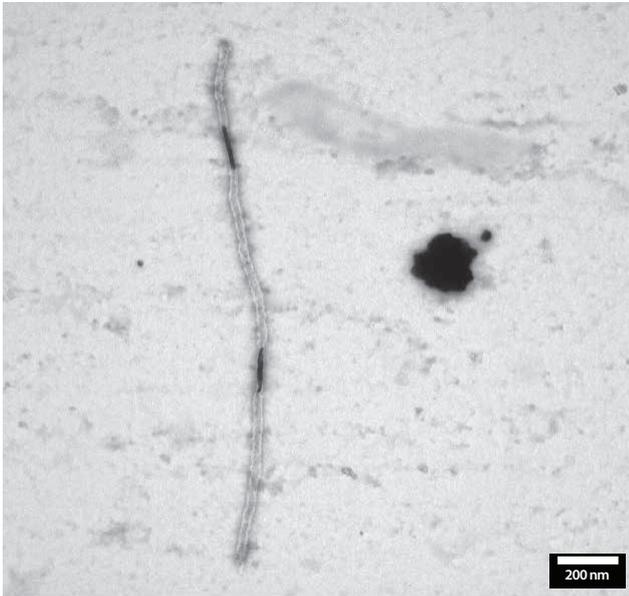
0.75 % UF stained gold nanowires inside microtubules



TEM: Au Nanowires Inside Microtubules

Particles on carbon film

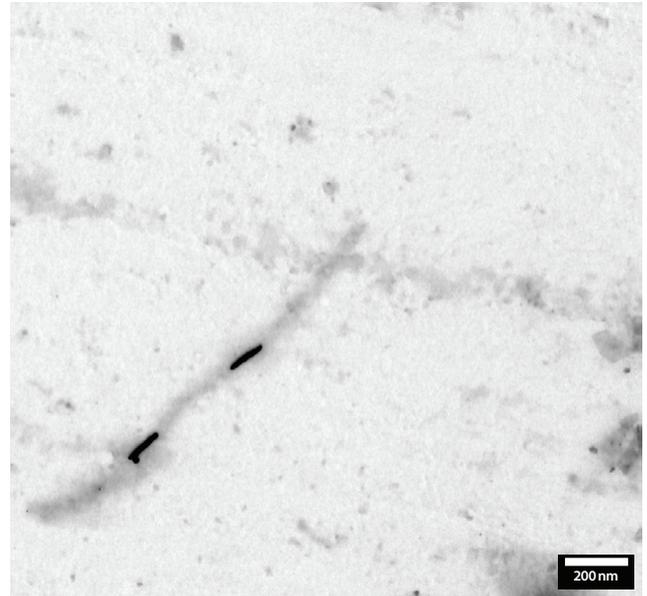
0.75 % UF stained gold nanowires inside microtubules



TEM: Au Nanowires in Protein Tubes

Particles on carbon film

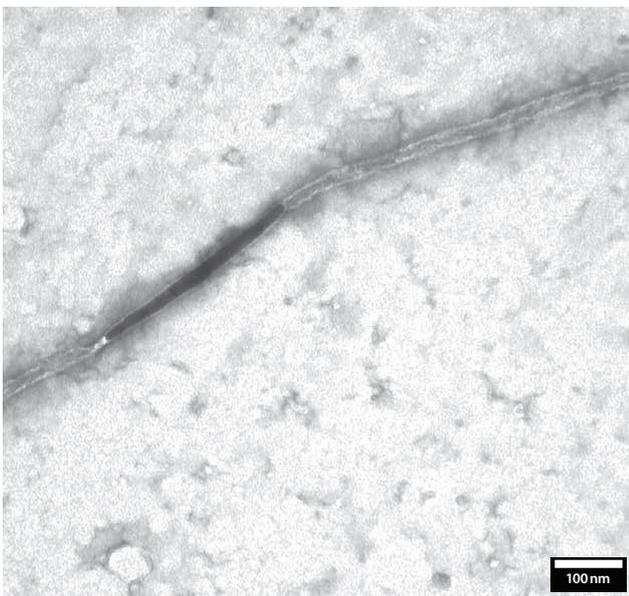
0.08% UF stained gold nanowires inside microtubules



STEM 15 kV: Au Nanowires in Protein Tubes

Particles on carbon film

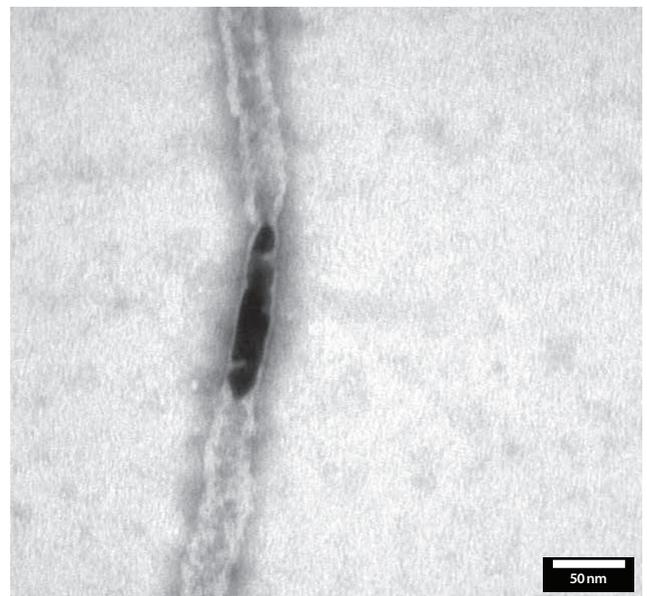
Unstained gold nanowires inside microtubules



TEM: Au Nanowires in Protein Tubes

Particles on carbon film

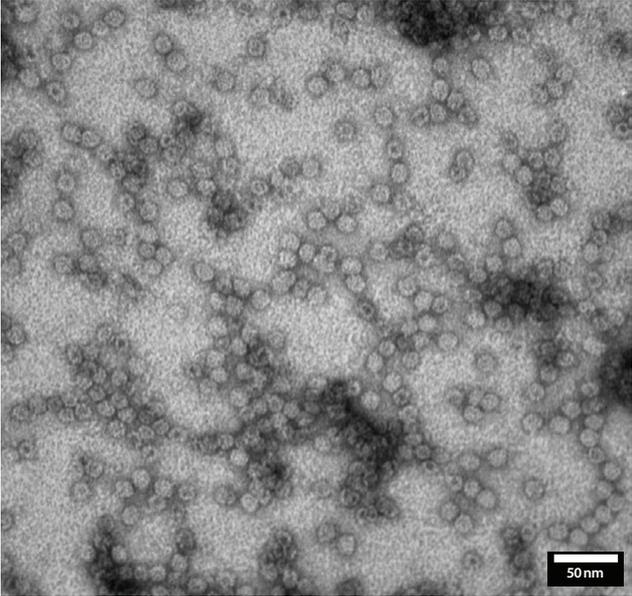
0.75 % UF stained gold nanowires inside microtubules



TEM: Au Nanowires in Protein Tubes

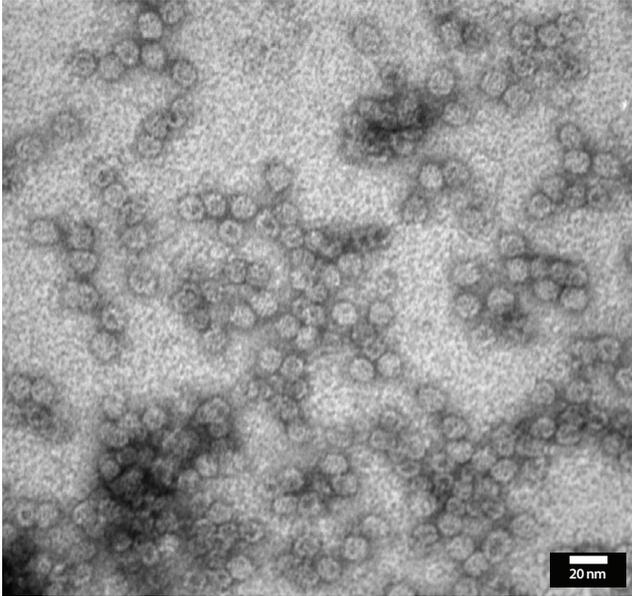
Particles on carbon film

0.08% UF stained gold nanowires inside microtubules



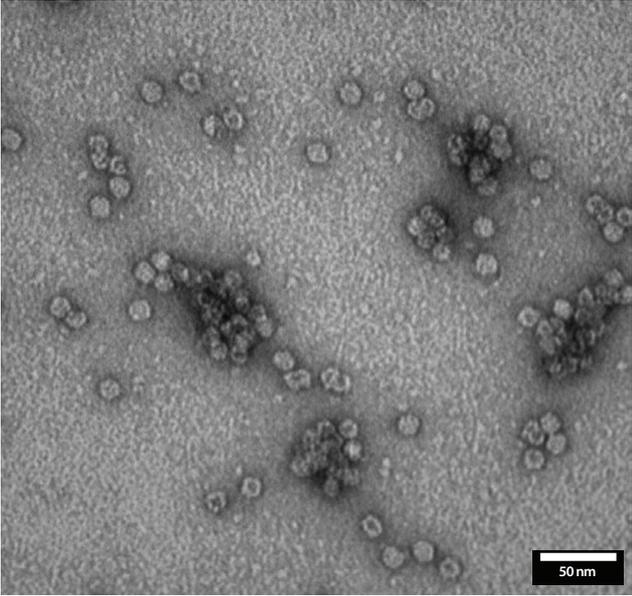
TEM: Ferritin

Particles on carbon film
Stained UAc 0.5%



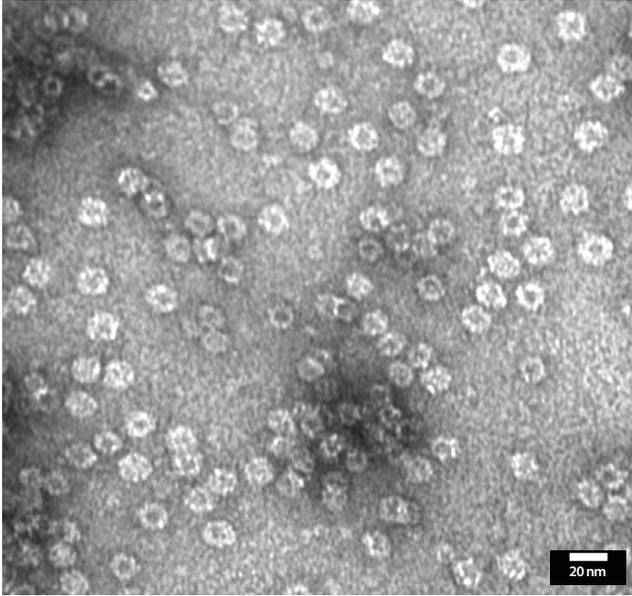
TEM: Ferritin

Particles on carbon film
Stained UAc 0.5%



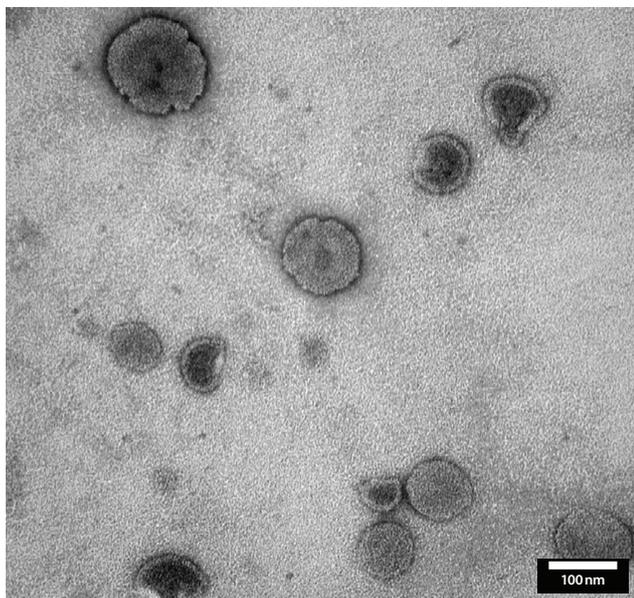
TEM: Ferritin

Particles on carbon film
Stained UAc 0.5%



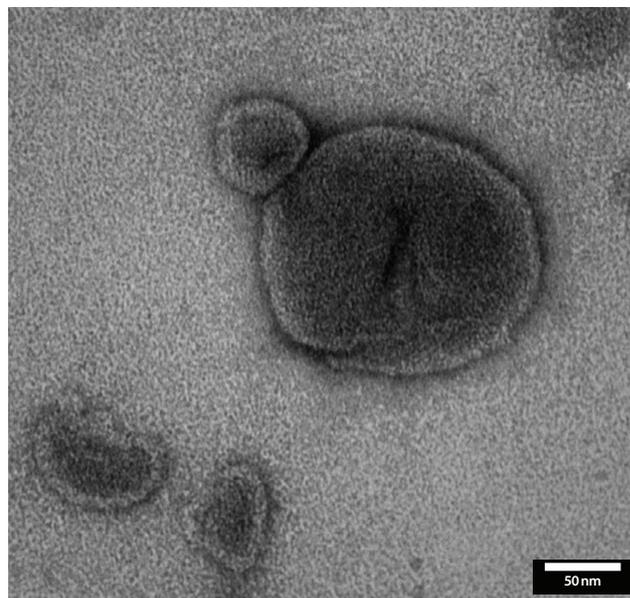
TEM: Ferritin

Particles on carbon film
Stained UAc 0.5%



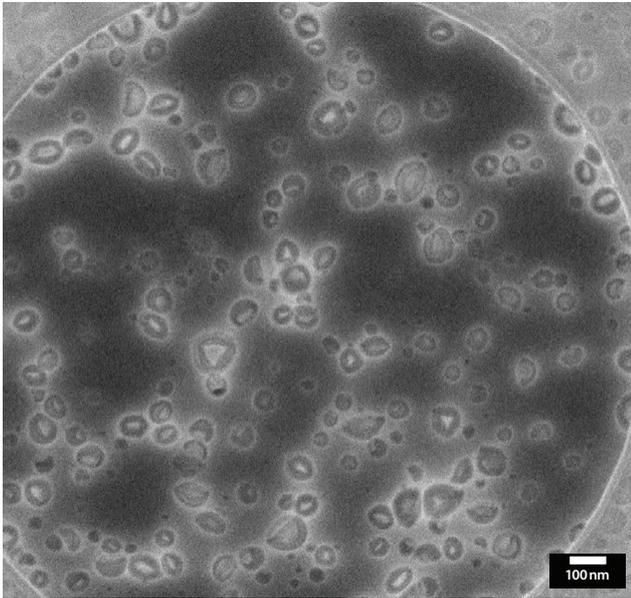
TEM: Liposomes

Particles on carbon film
Stained UAc 0.5%



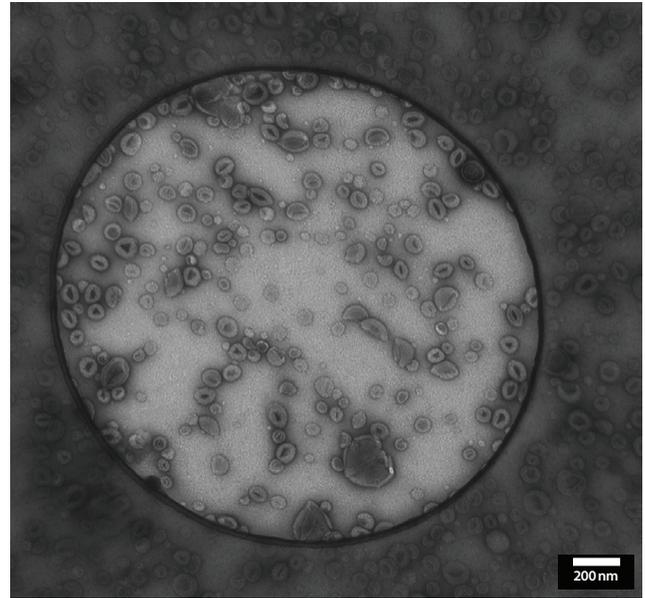
TEM: Liposomes

Particles on carbon film
Stained UAc 0.5%



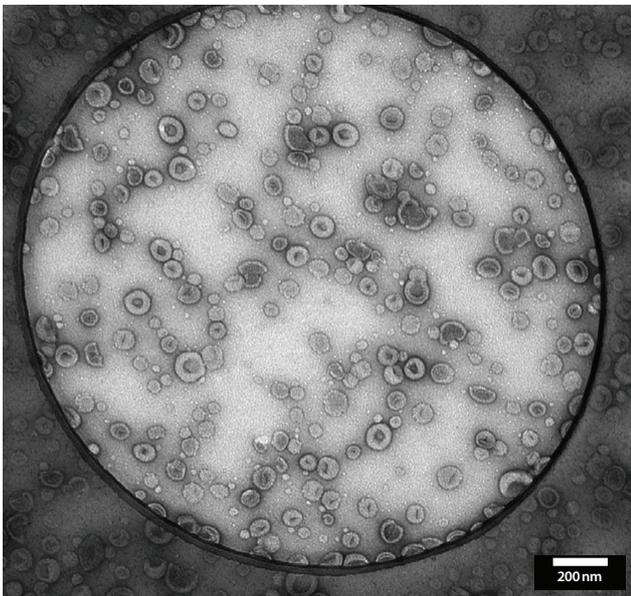
SEM: Liposomes

Particles on carbon film
Stained UAc 2%



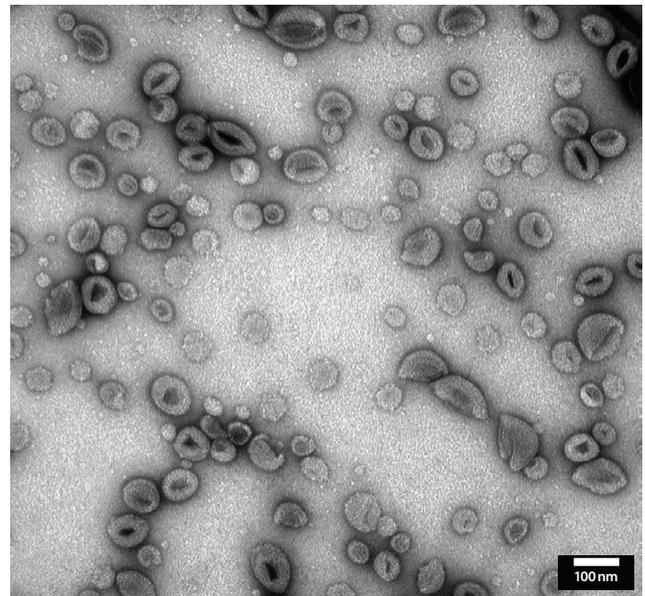
TEM: Liposomes

Particles on carbon film
Stained UAc 2%



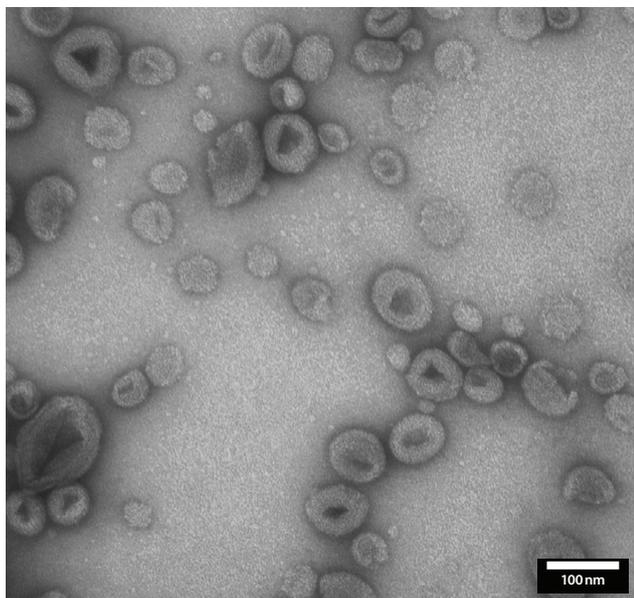
TEM: Liposomes

Particles on carbon film
Stained UAc 2%



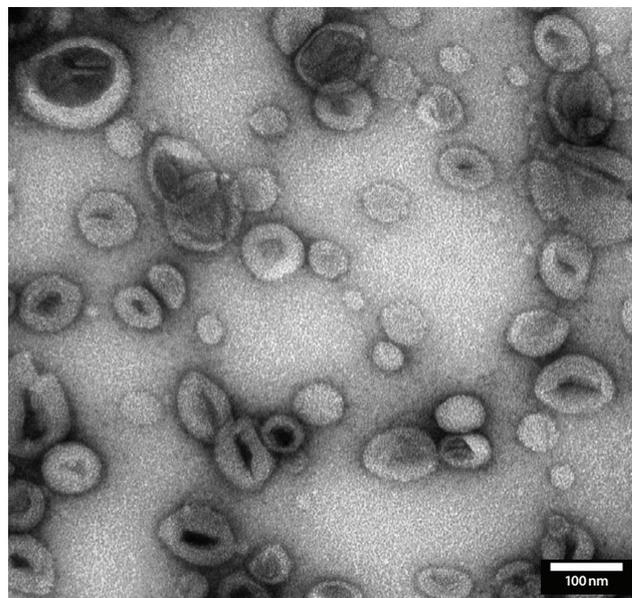
TEM: Liposomes

Particles on carbon film
Stained UAc 2%



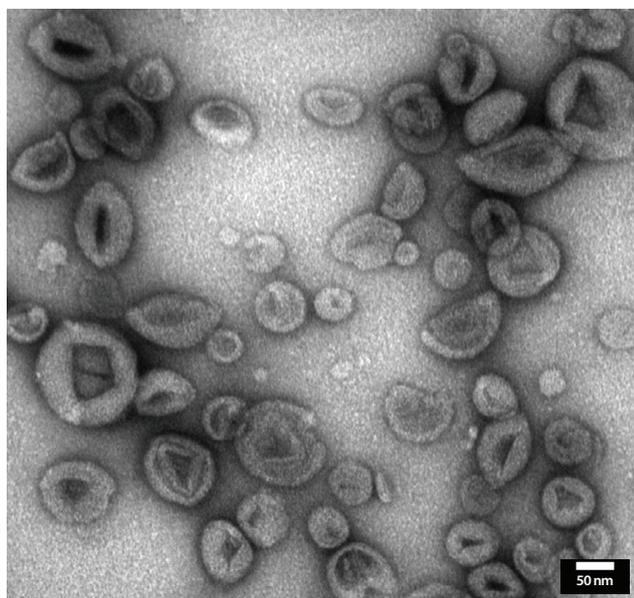
SEM: Liposomes

Particles on carbon film
Stained UAc 2%



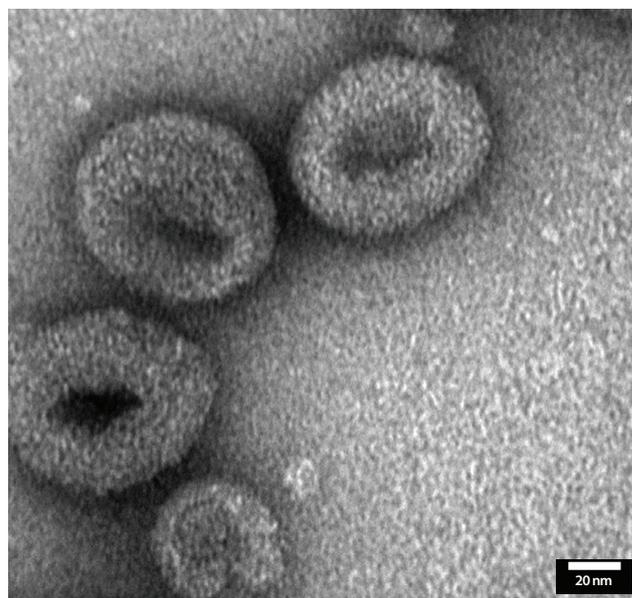
TEM: Liposomes

Particles on carbon film
Stained UAc 2%



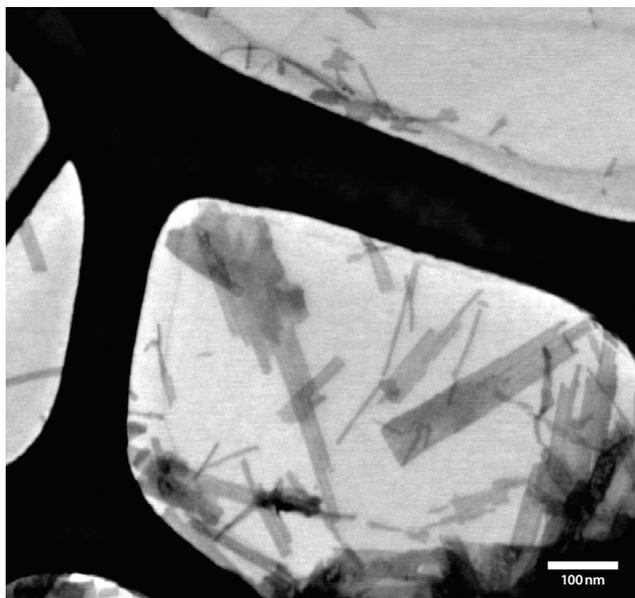
TEM: Liposomes

Particles on carbon film
Stained UAc 2%



TEM: Liposomes

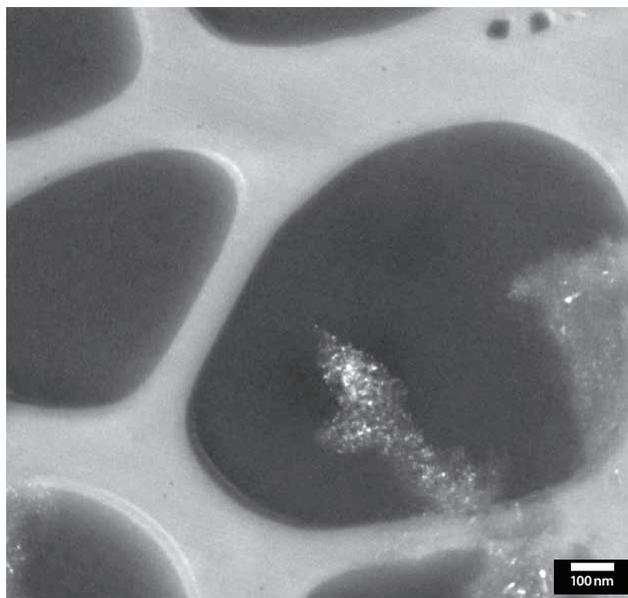
Particles on carbon film
Stained UAc 2%



STEM 15 kV: Reduced Graphene Oxide with Zn Nanoparticles

Particles on carbon film

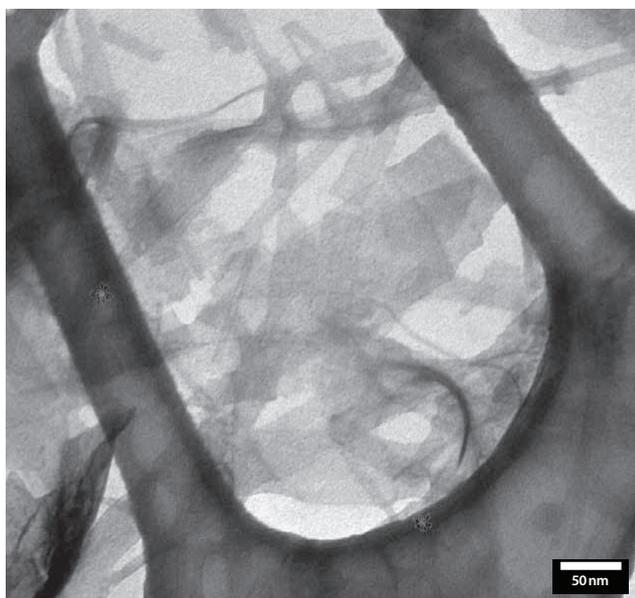
Point of interest: contrast between zinc nanoparticles and carbon material



TEM DF: Reduced Graphene Oxide with Zn Nanoparticles

Particles on carbon film

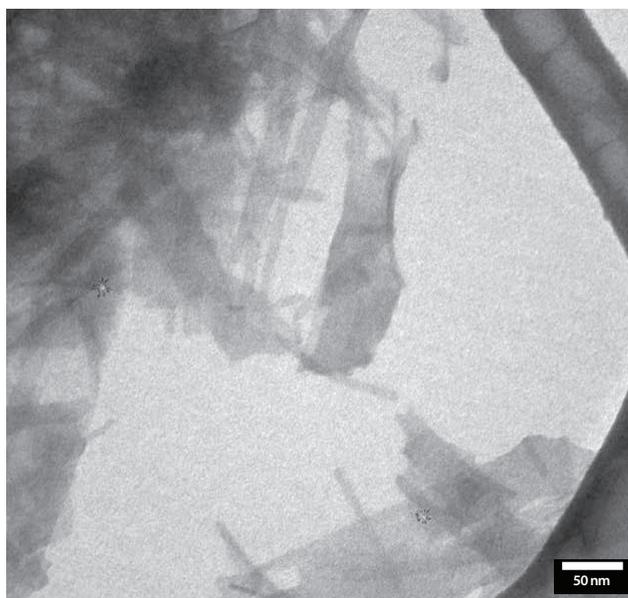
Point of interest: contrast between zinc nanoparticles and carbon material



TEM: Reduced Graphene Oxide with Zn Nanoparticles

Particles on carbon film

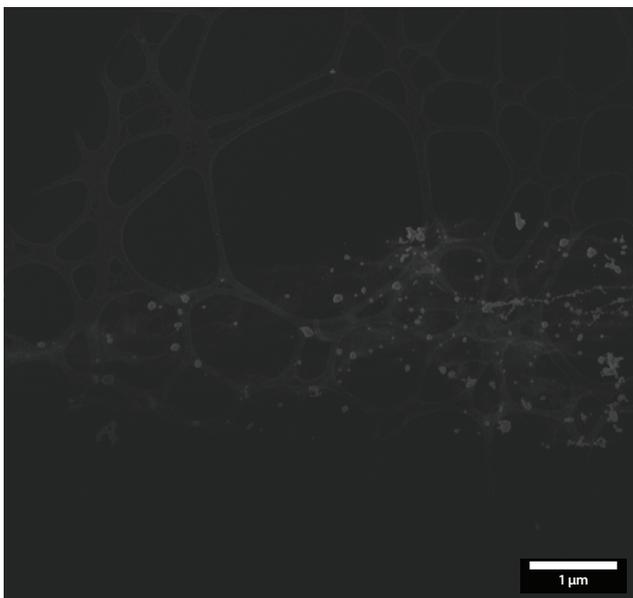
Point of interest: contrast between zinc nanoparticles and carbon material



TEM: Reduced Graphene Oxide with Zn Nanoparticles

Particles on carbon film

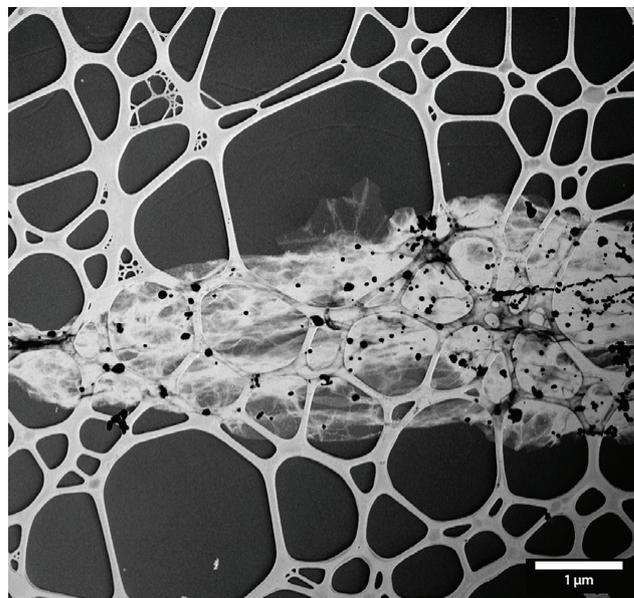
Point of interest: contrast between zinc nanoparticles and carbon material



STEM 15 kV: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film

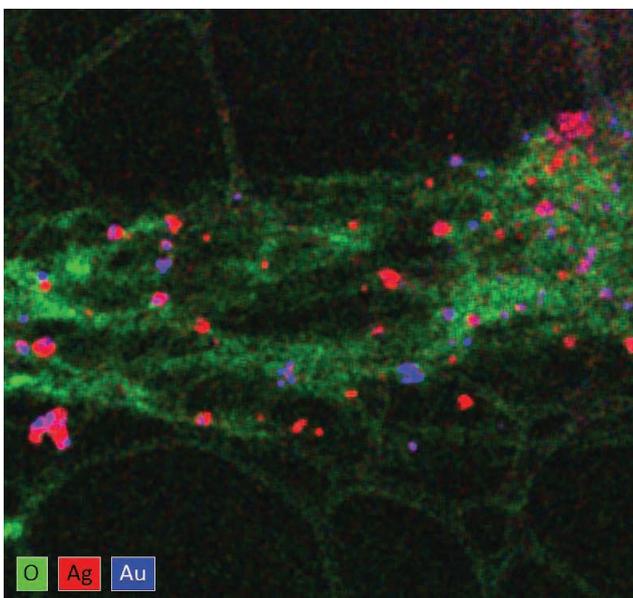
Dark field; Point of interest: Material tests electrode sensitivity



STEM 15 kV: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film

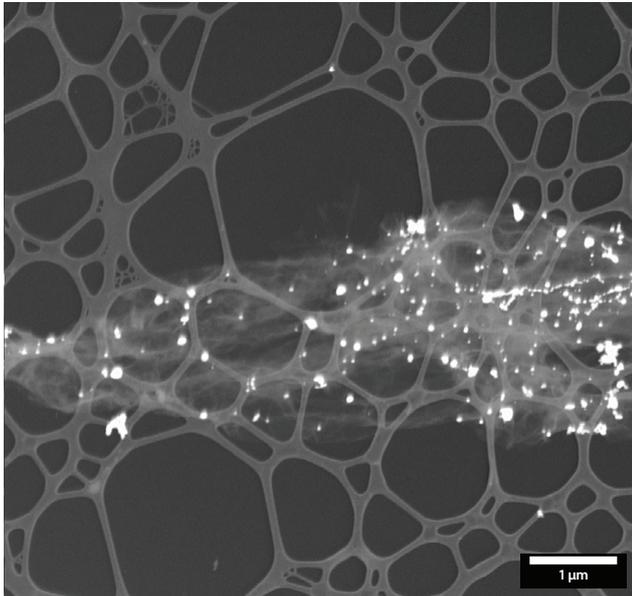
Dark field; Point of interest: Material tests electrode sensitivity



EDS: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film

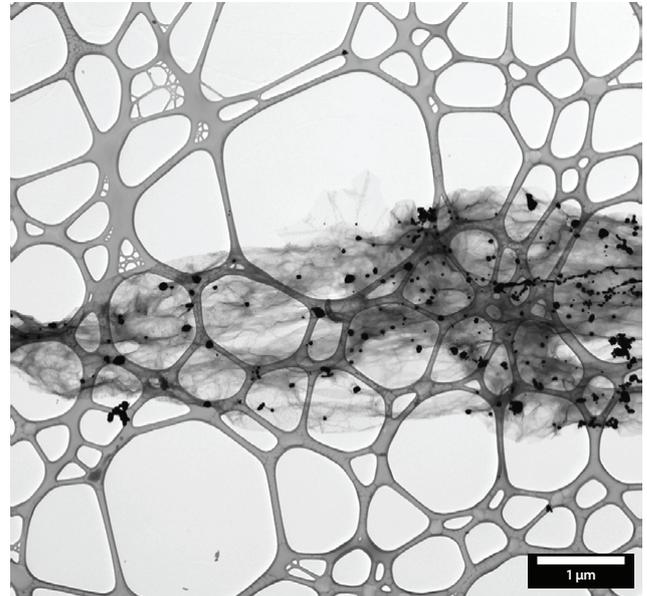
Point of interest: Material tests electrode sensitivity



SEM: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film

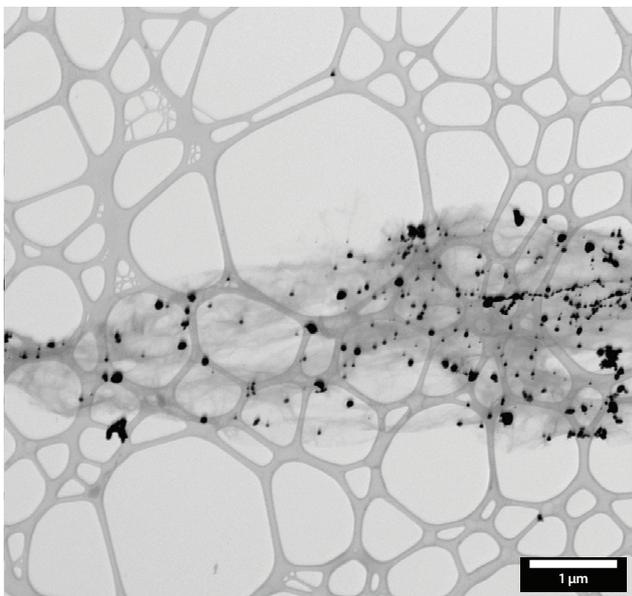
Point of interest: Material tests electrode sensitivity



STEM 15 kV: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film

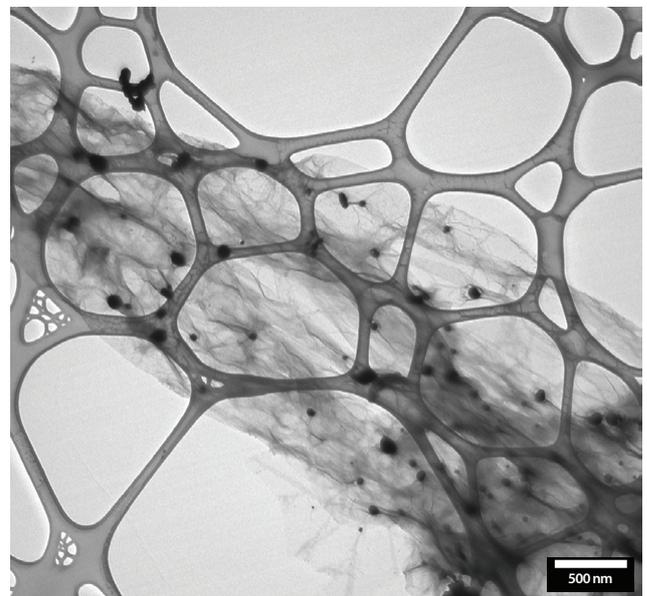
Point of interest: Material tests electrode sensitivity



SEM: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film

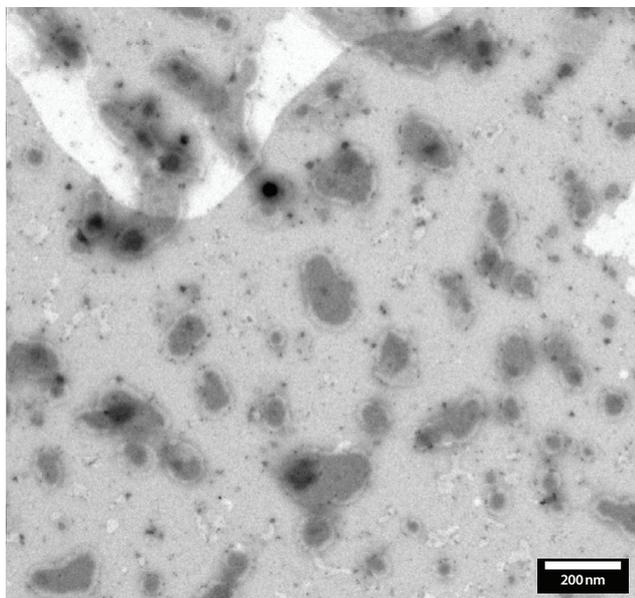
Inverted image. Point of interest: Material tests electrode sensitivity



TEM: Reduced Graphene Oxide with AuAg Nanoparticles

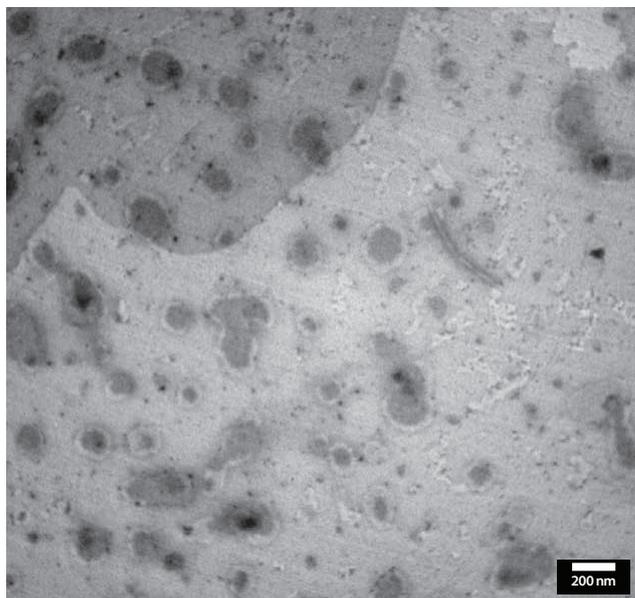
Particles on carbon film

Point of interest: Material tests electrode sensitivity



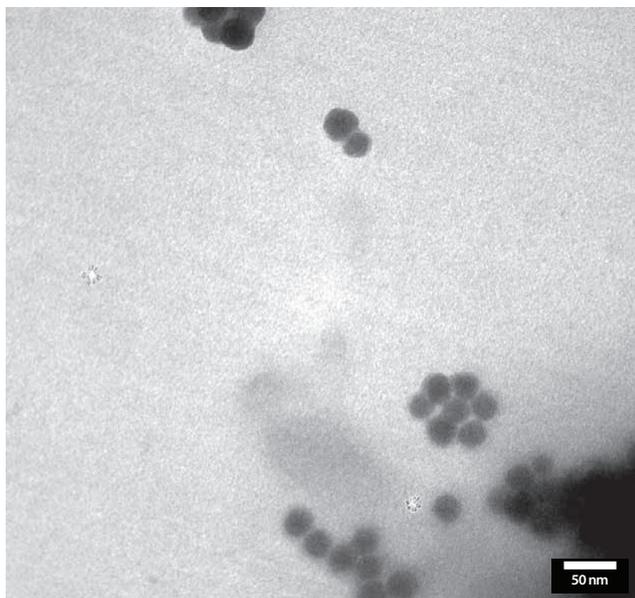
TEM: Lipid Nanoparticles with Chelated Gd

Particles on carbon film

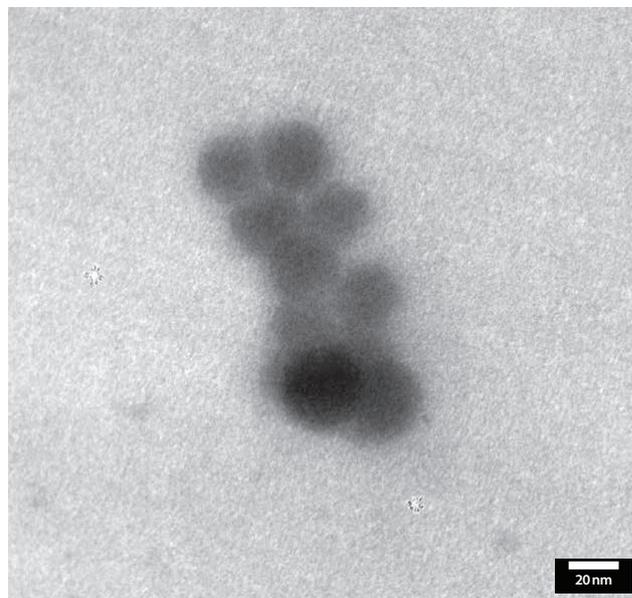


TEM: Lipid Nanoparticles with Chelated Gd

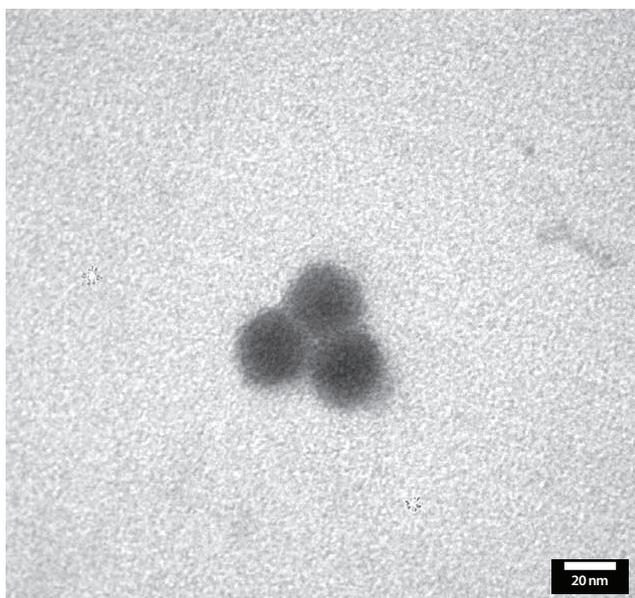
Particles on carbon film



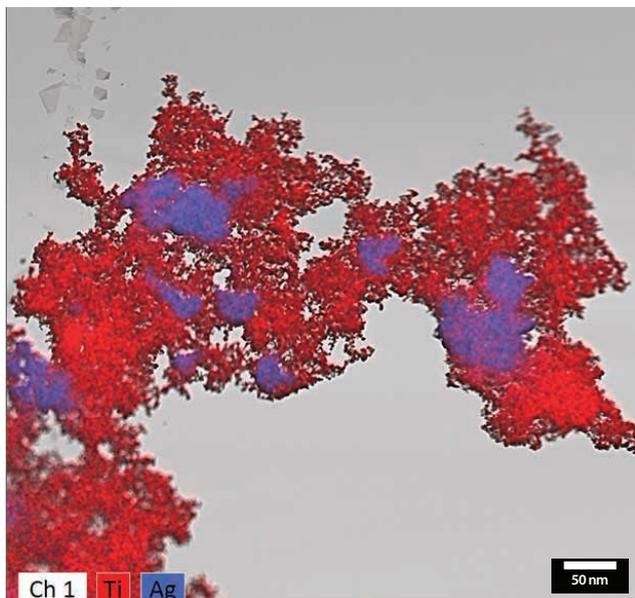
TEM: Qdots
Particles on carbon film



TEM: Qdots
Particles on carbon film

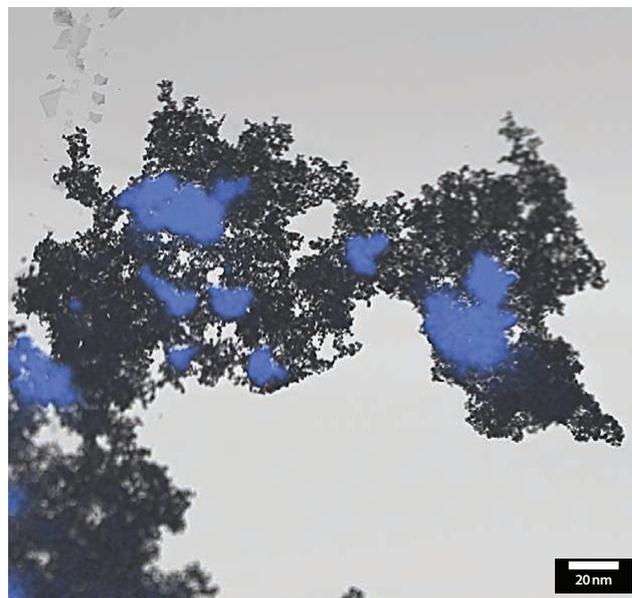


TEM: Carbon Quantum Dots
Particles on carbon film



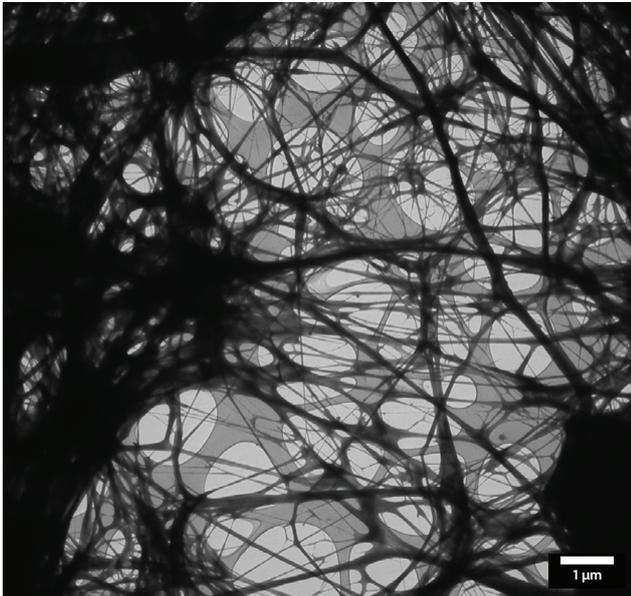
EDS: Ti + Ag NPs

STEM mapping



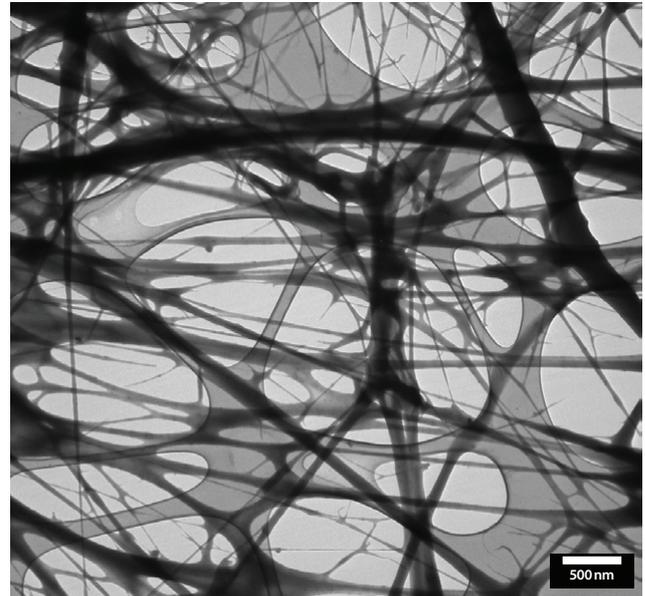
EDS: Ti + Ag NPs

STEM mapping



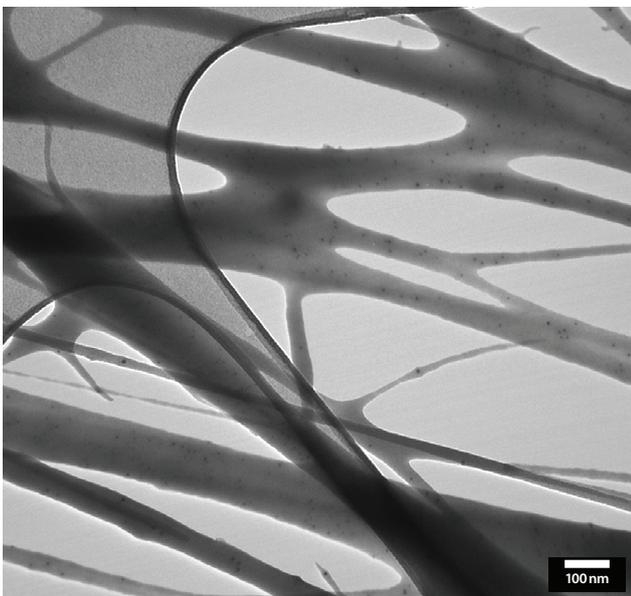
TEM: Cellulose with Boron Nitride Nanoparticles

Particles on carbon film, unstained



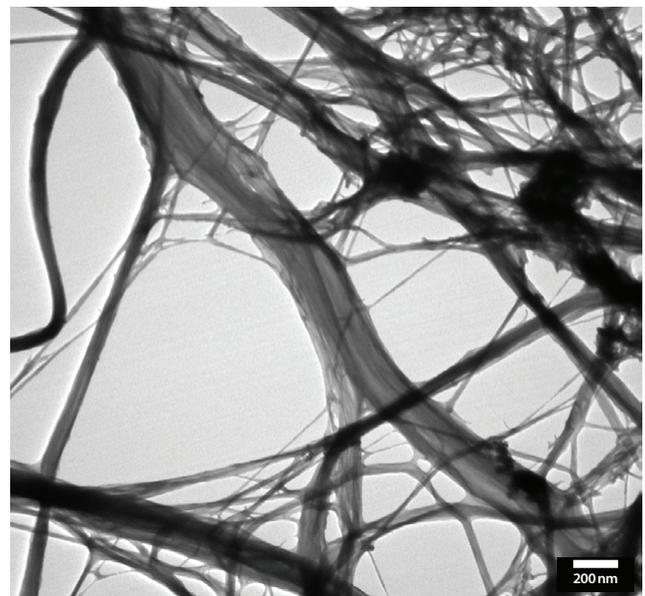
TEM: Cellulose with Boron Nitride Nanoparticles

Particles on carbon film, unstained



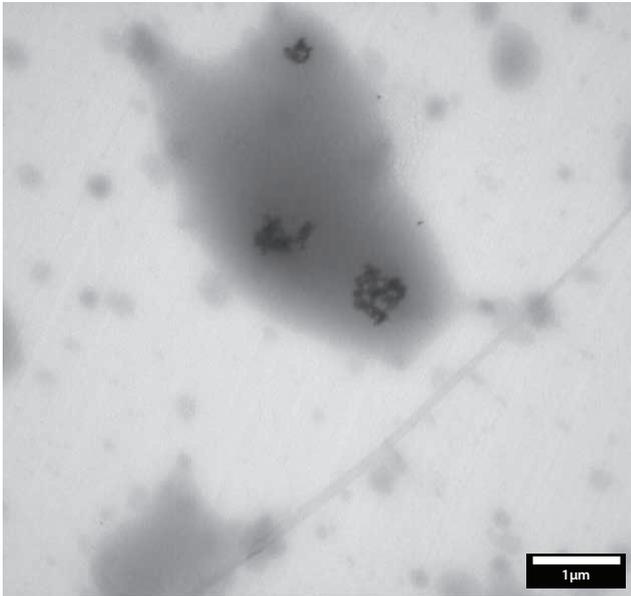
TEM: Cellulose with Boron Nitride Nanoparticles

Particles on carbon film, unstained



TEM: Cellulosic Microfibrils Defibrillated into Nanometric fibrils

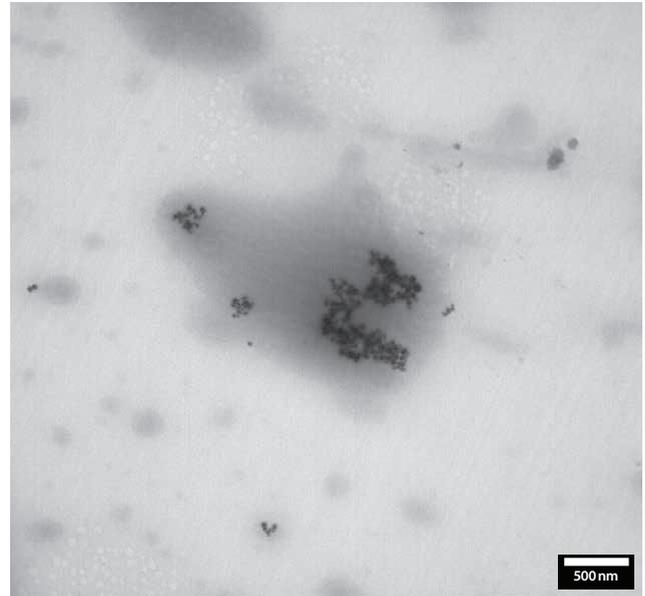
Particles on carbon film, unstained



TEM: TiSiO₄ Nanoparticles

Particles on carbon film

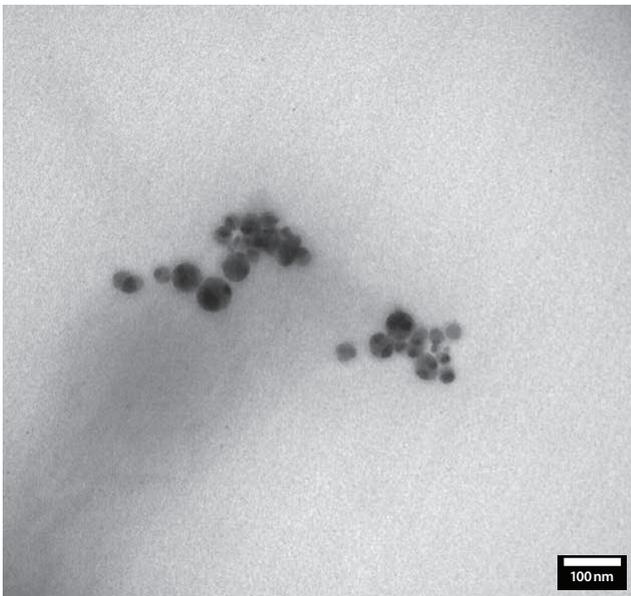
30 nm nanoparticles in wheat flour



TEM: TiSiO₄ Nanoparticles

Particles on carbon film

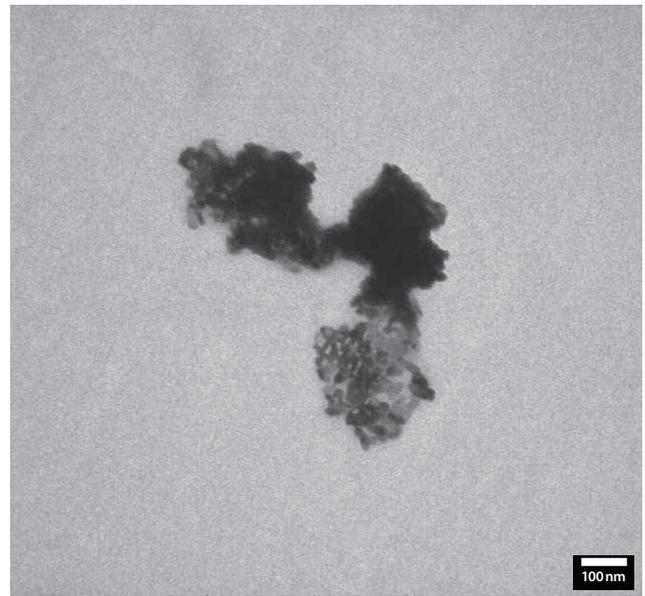
30 nm nanoparticles in wheat flour



TEM: TiSiO₄ Nanoparticles

Particles on carbon film

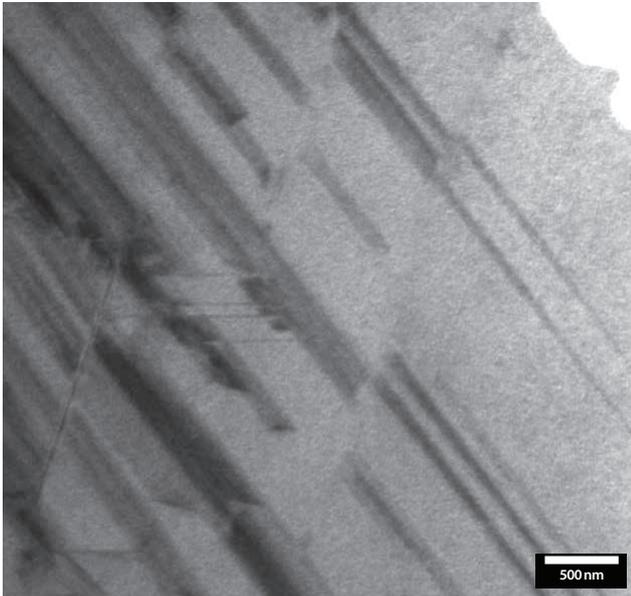
30 nm nanoparticles in wheat flour



TEM: ZnO Nanoparticles

Particles on carbon film

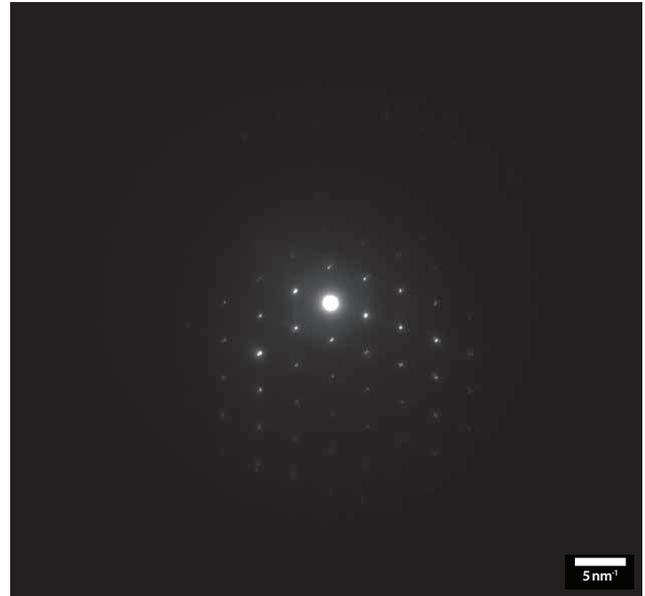
Nanoparticles in yoghurt



TEM: GaN on SiC

FIB lamela

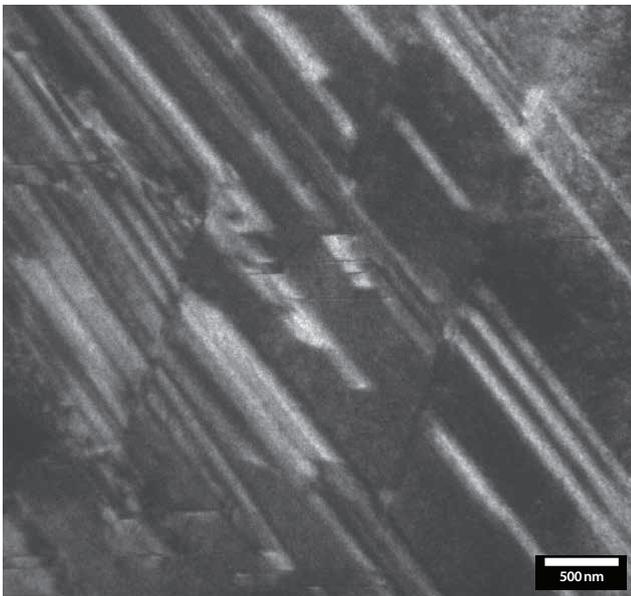
Bright field; zincblende GaN on zincblende SiC



ED: GaN on SiC

FIB lamela

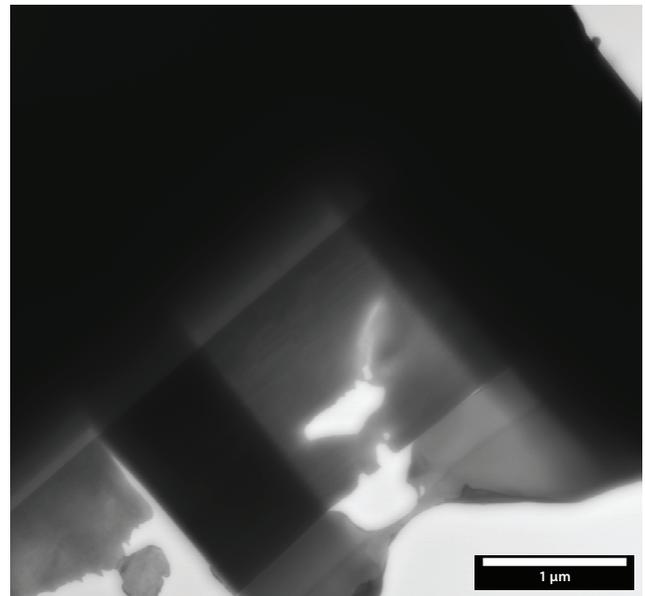
Corresponding diffraction



TEM: GaN on SiC

FIB lamela

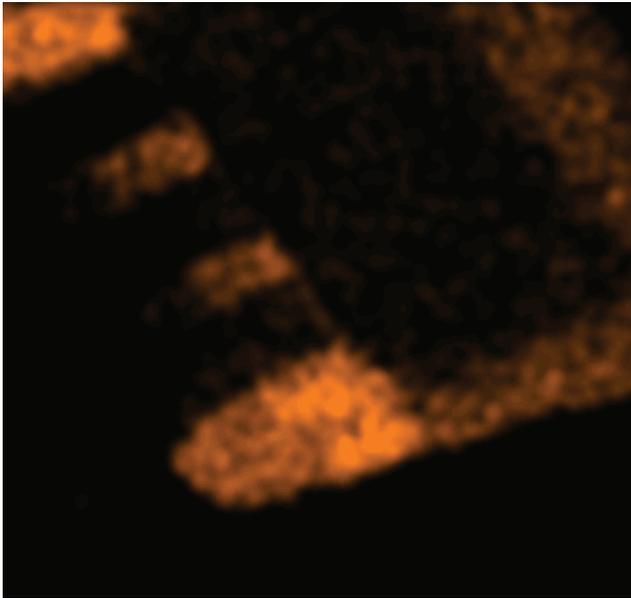
Dark field; zincblende GaN on zincblende SiC



STEM: GaN on SiC

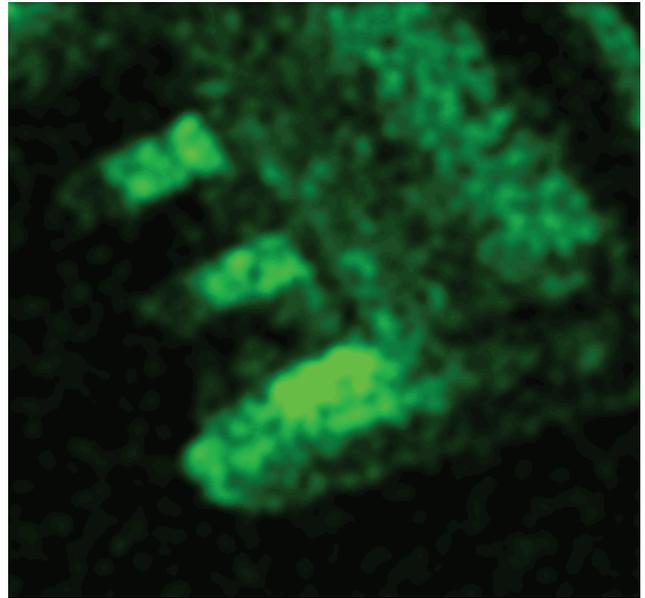
FIB lamela

Bright field; zincblende GaN on zincblende SiC



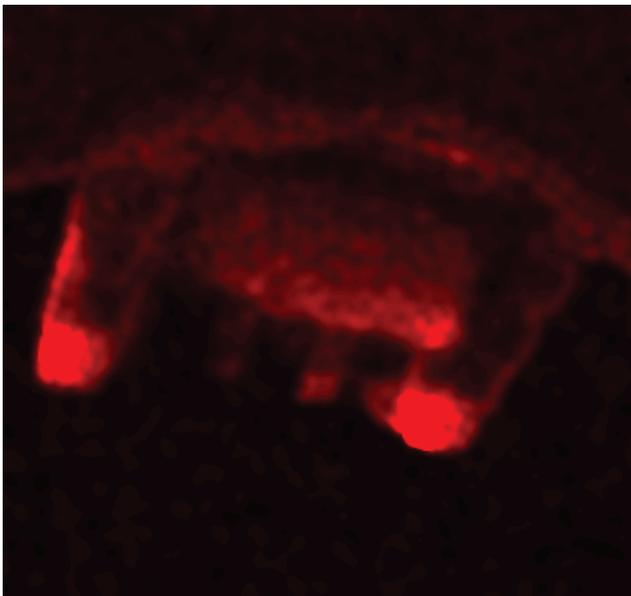
EDS: GaN on SiC

FIB lamella
Ga mapping



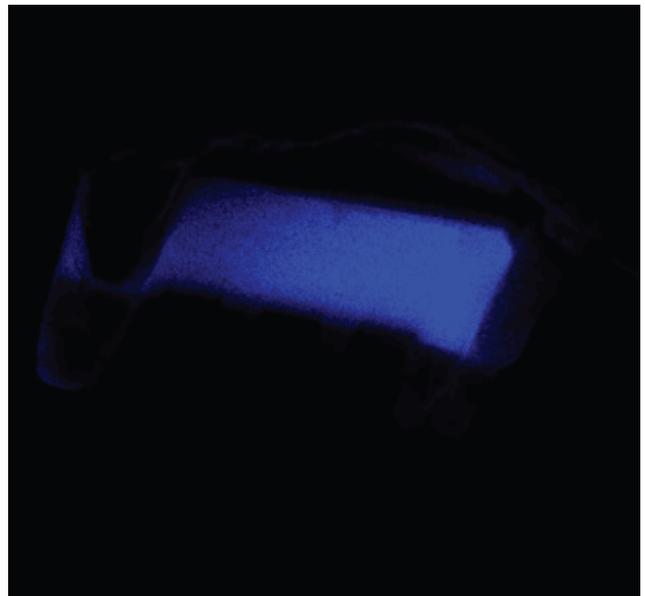
EDS: GaN on SiC

FIB lamella
N mapping



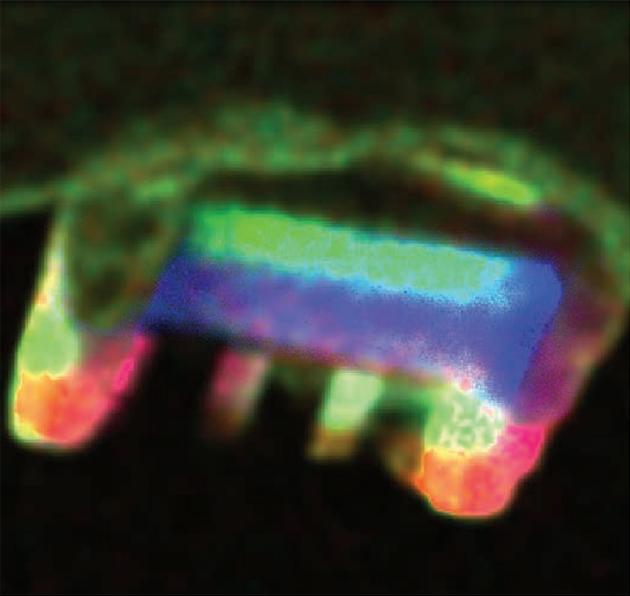
EDS: GaN on SiC

FIB lamella
C mapping



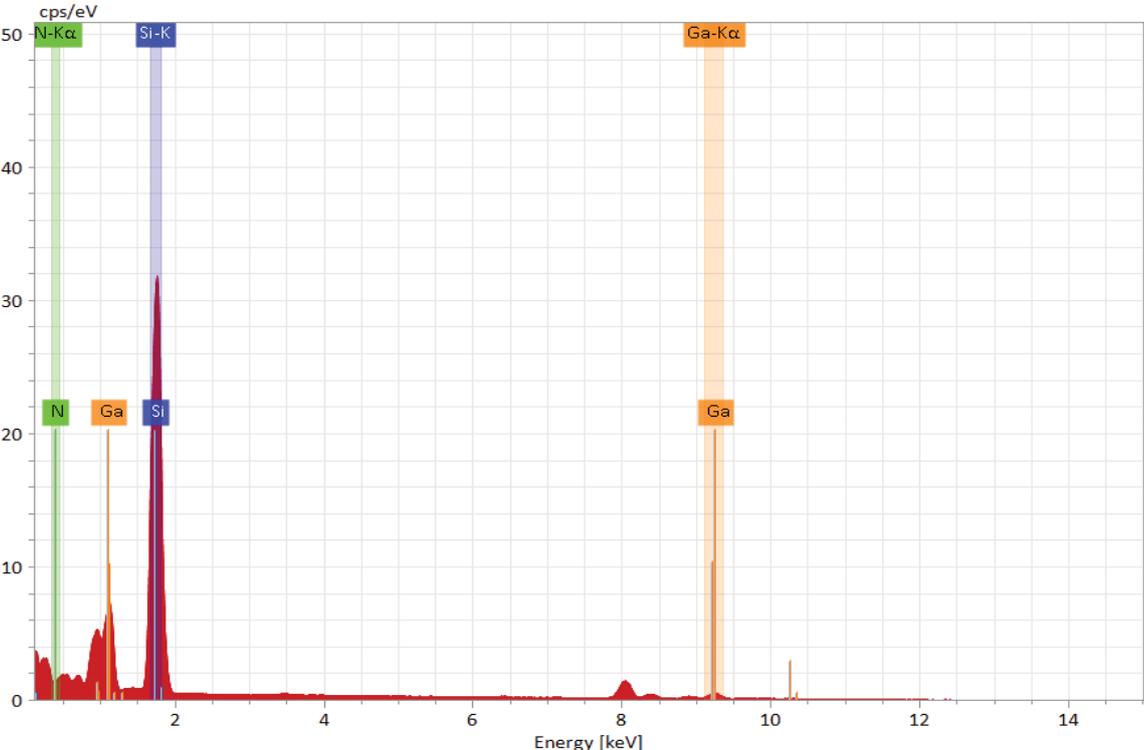
EDS: GaN on SiC

FIB lamella
Si mapping



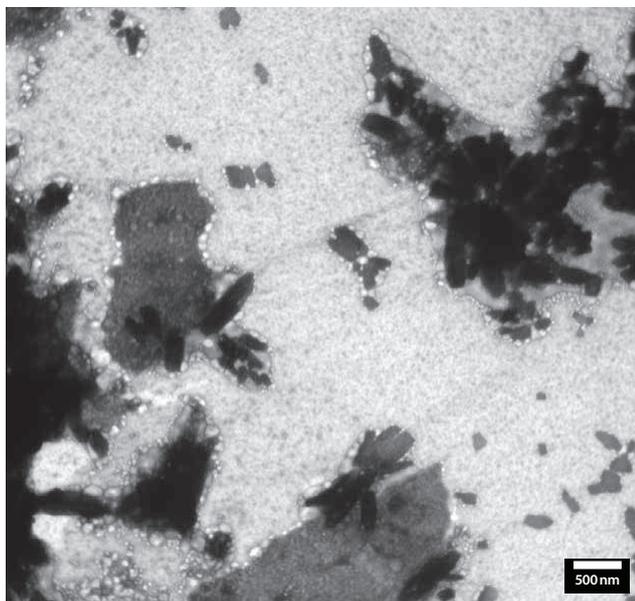
EDS: GaN on SiC

FIB lamella
Sample mapping



EDS: GaN on SiC

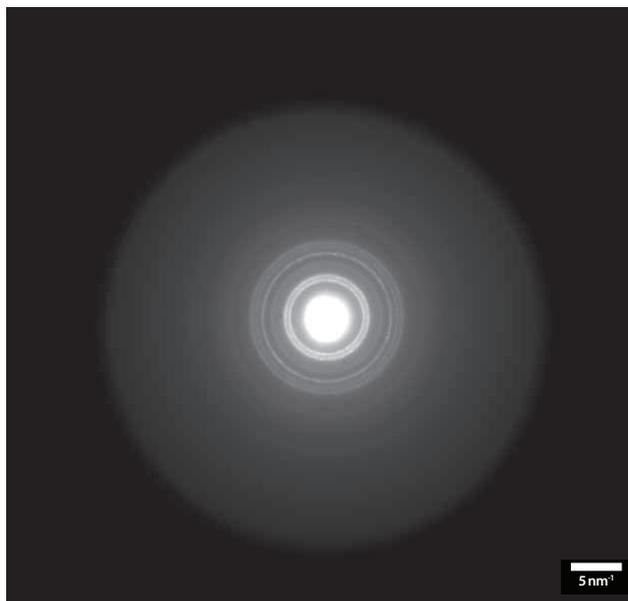
FIB lamella
EDS spectrum



TEM: ZnO Nanoparticles

Particles on carbon film

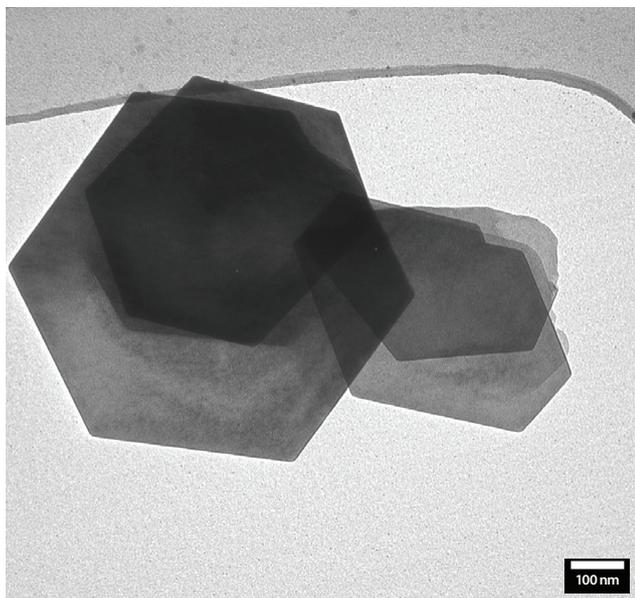
Prepared from plant extract and $Zn(NO_3)_2$



ED: ZnO Nanoparticles

Particles on carbon film

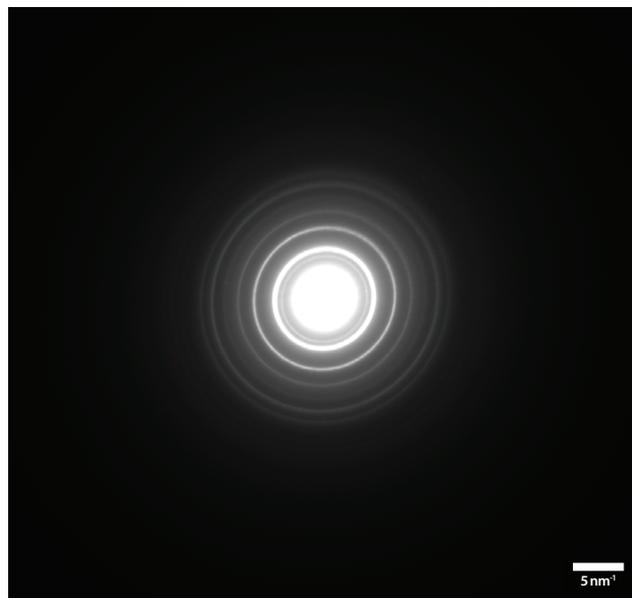
Prepared from plant extract and $Zn(NO_3)_2$



TEM: Mg(OH)₂ Hexagons

Particles on carbon film

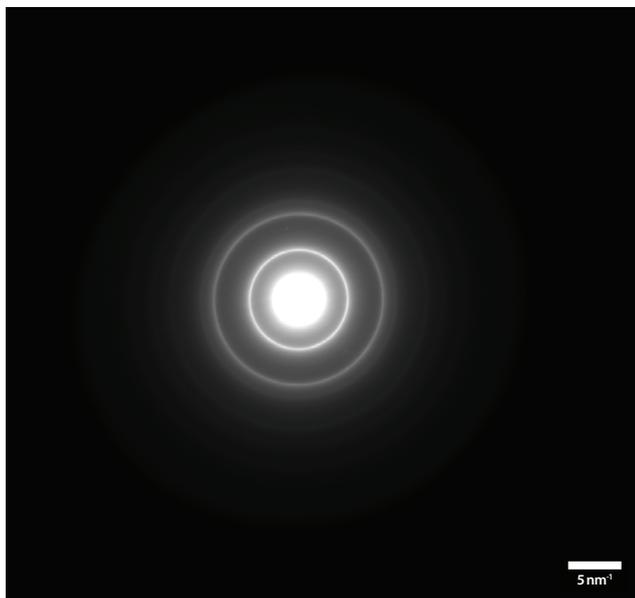
Fire retardant



ED: Mg(OH)₂ Hexagons

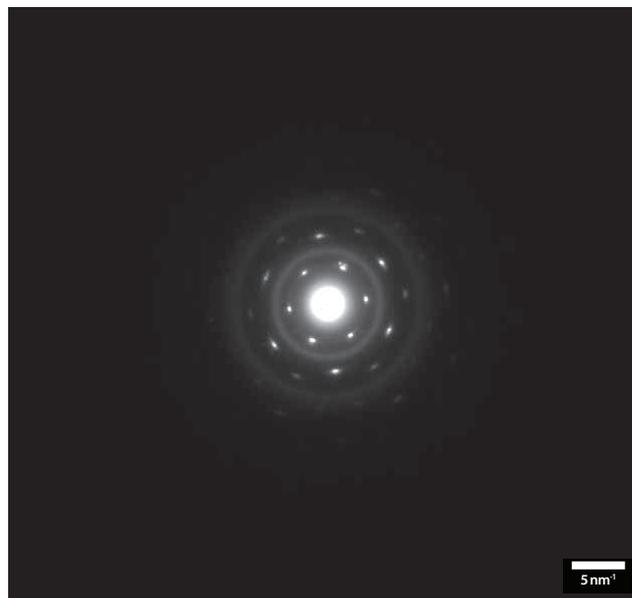
Particles on carbon film

Fire retardant



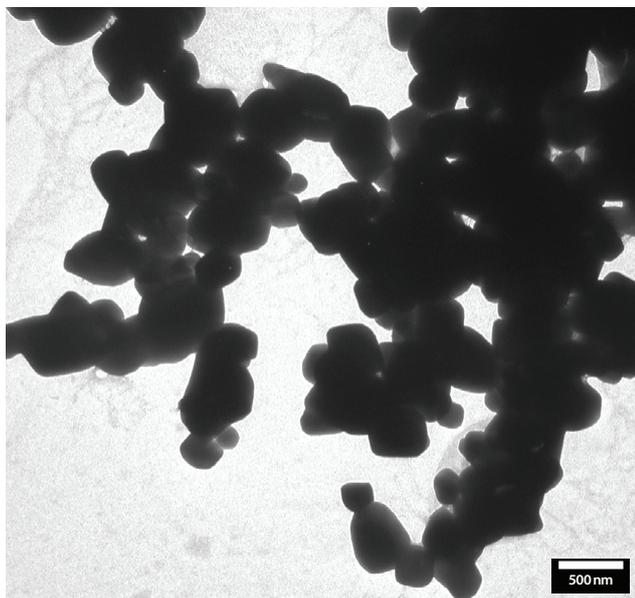
ED: Reduced Graphene Oxide with AuAg Nanoparticles

Particles on carbon film



ED: Reduced Graphene Oxide with Zn Nanoparticles

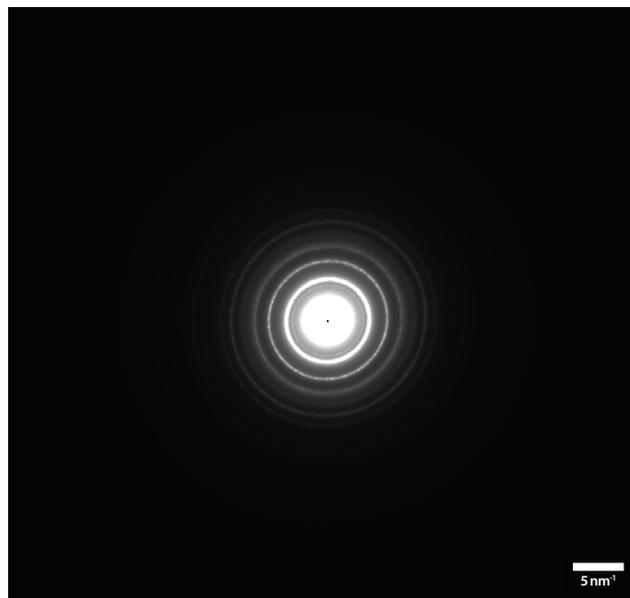
Particles on carbon film



TEM: PVP coated MnO

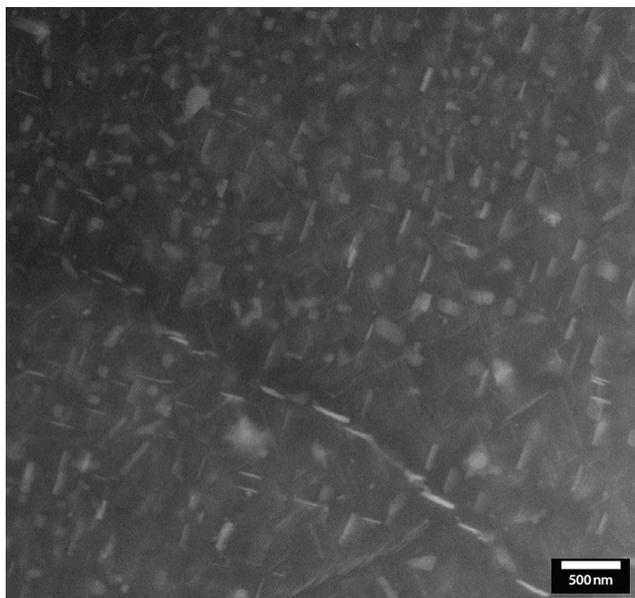
Particles on carbon film

Point of interest: particle distribution in the nanorange



ED: PVP coated MnO

Particles on carbon film



SEM: Al-Cu-Li-Mg Alloy with Precipitates

Electrolytic polishing

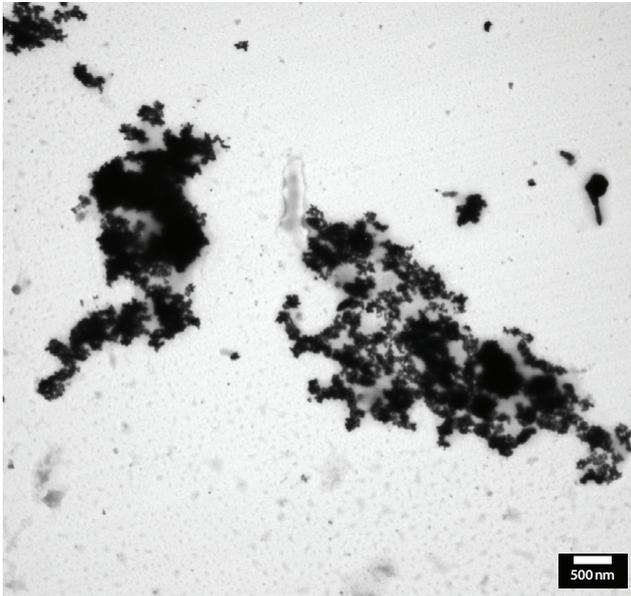
Point of interest: aerospace industry alloy



ED: Al-Cu-Li-Mg Alloy with Precipitates

Electrolytic polishing

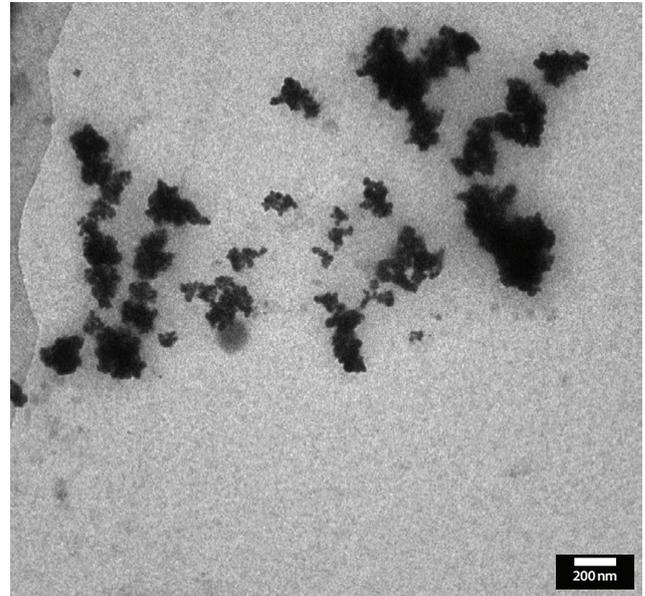
Point of interest: aerospace industry alloy



TEM: Ag NPs in Sugar Pearls

Particles on carbon film

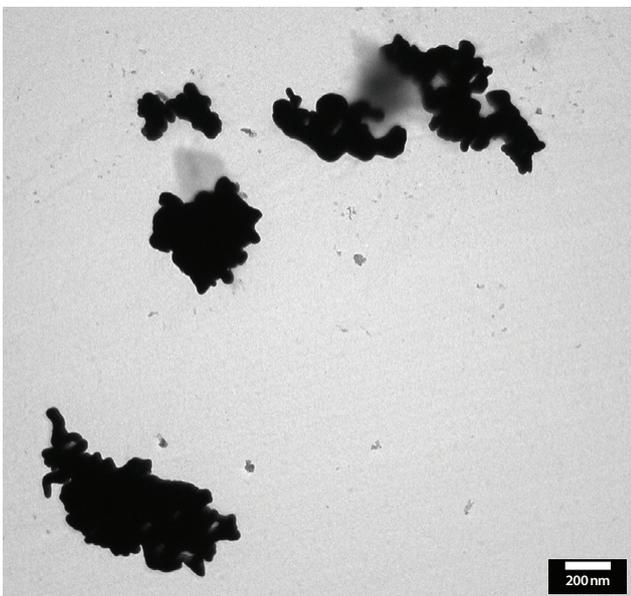
Point of interest: food diagnostics



TEM: Ag NPs in Sugar Pearls

Particles on carbon film

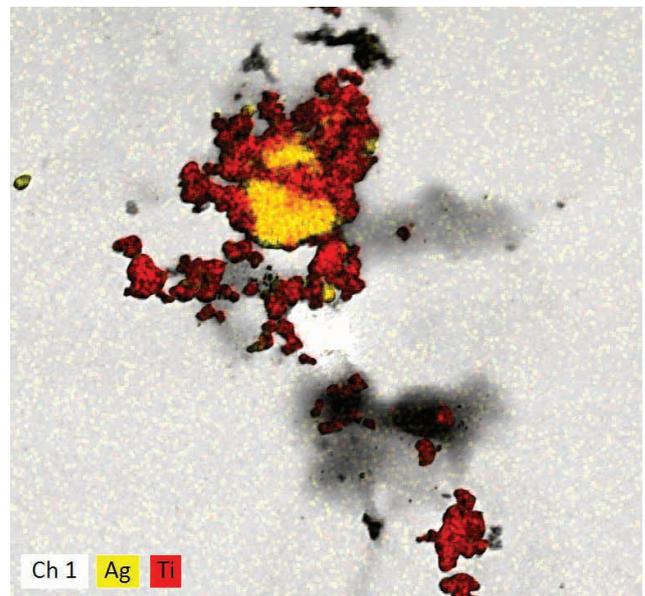
Point of interest: food diagnostics



TEM: Ag NPs in Sugar Pearls

Particles on carbon film

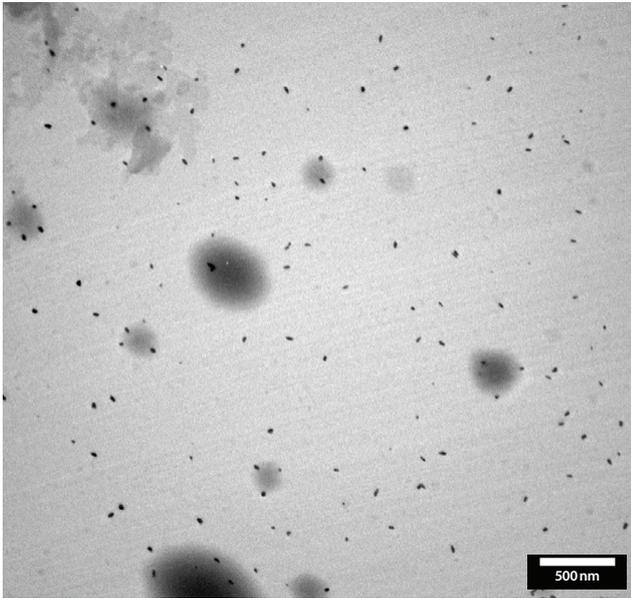
Point of interest: food diagnostics



EDS: Ag NPs in Sugar Pearls

Particles on carbon film

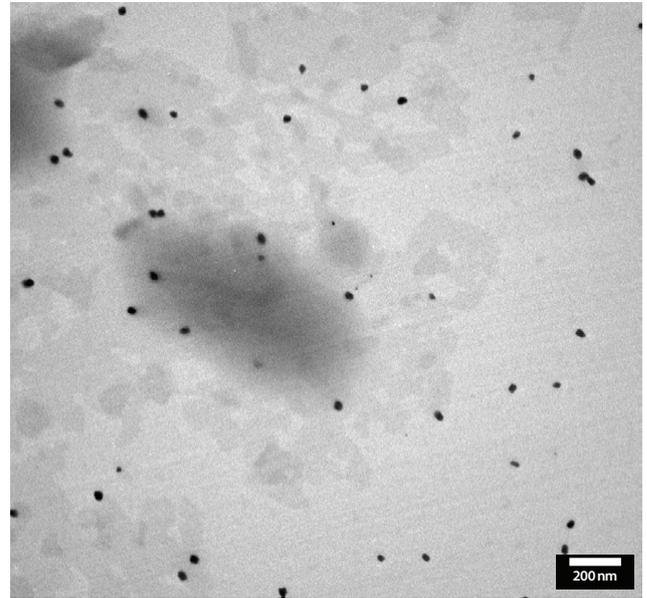
Point of interest: food diagnostics



TEM: Ti NPs in Light Silver Powder

Particles on carbon film

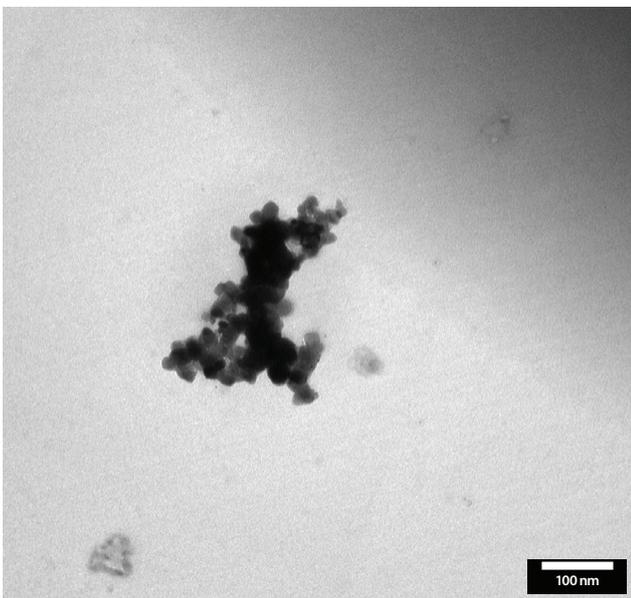
Point of interest: food diagnostics



TEM: Ti NPs in Light Silver Powder

Particles on carbon film

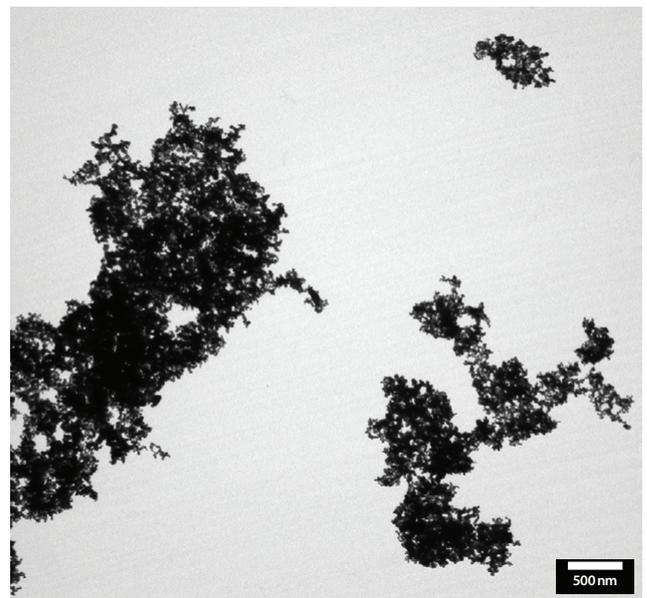
Point of interest: food diagnostics



TEM: Ti NPs in Light Silver Powder

Particles on carbon film

Point of interest: food diagnostics

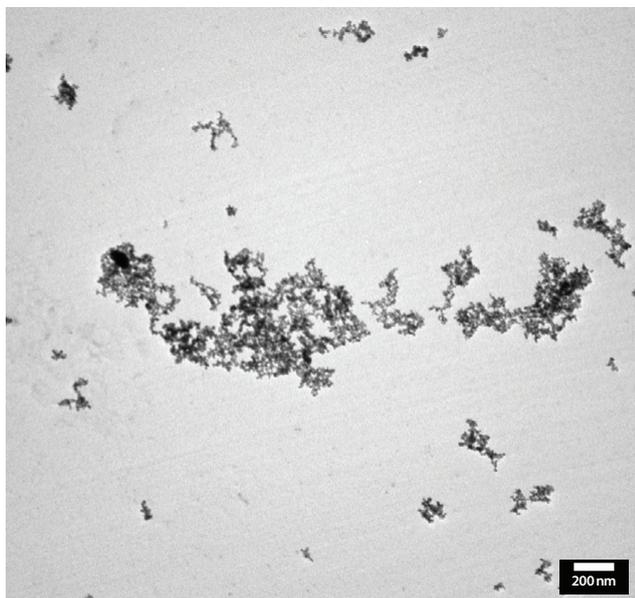


TEM: Ti NPs in Light Silver Powder

Particles on carbon film

Added 0.75 wt% of Ti NPs to light silver powder

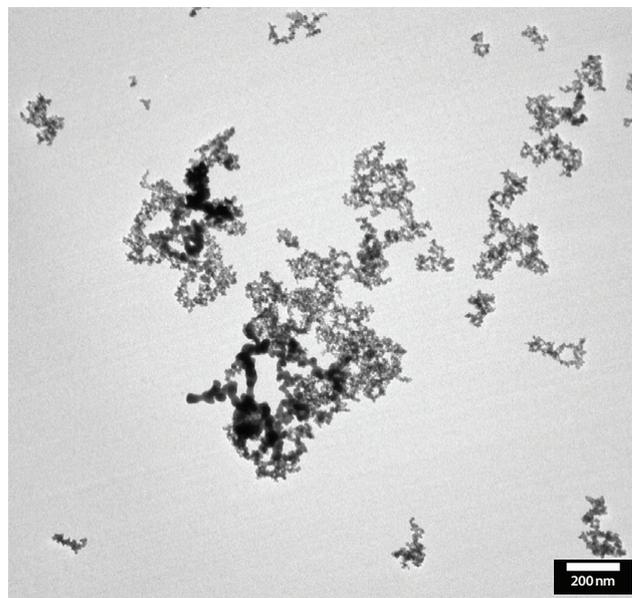
Point of interest: food diagnostics



TEM: Calcium Carbonate NPs

Particles on carbon film

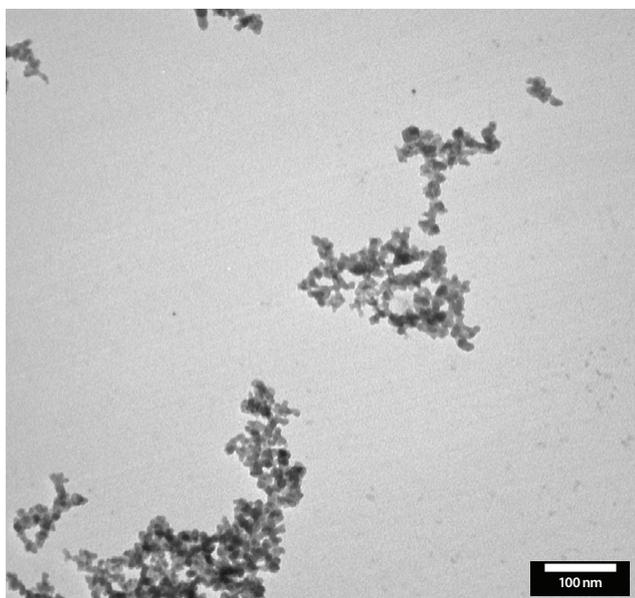
White Concentrated Food Coloring Paste,
food diagnostics, Calcium Carbonate CaCO_3 E170



TEM: Calcium Carbonate NPs

Particles on carbon film

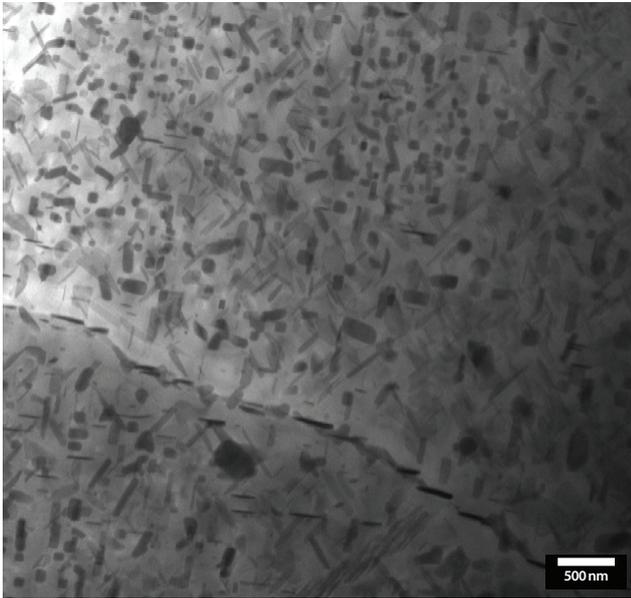
White Concentrated Food Coloring Paste,
food diagnostics, Calcium Carbonate CaCO_3 E170



TEM: Calcium Carbonate NPs

Particles on carbon film

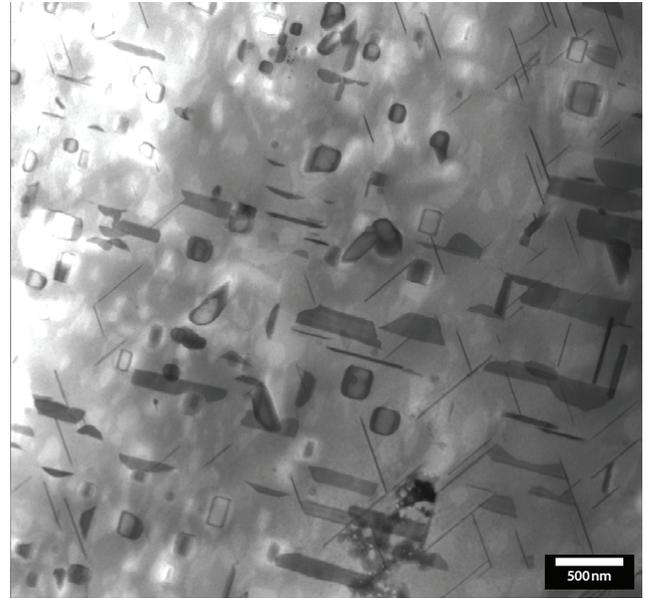
White Concentrated Food Coloring Paste,
food diagnostics, Calcium Carbonate CaCO_3 E170



STEM 15 kV: Al-Cu-Li-Mg Alloy with Precipitates

Electrolytic polishing

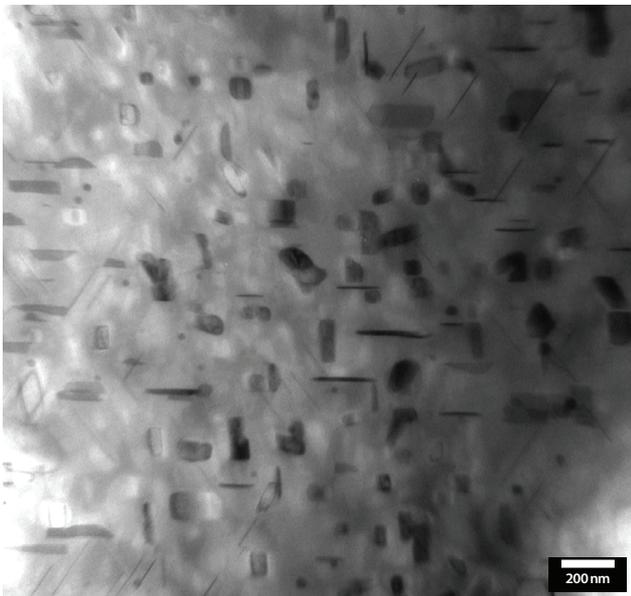
Point of interest: aerospace industry alloy



STEM 10 kV: Al-Cu-Li-Mg Alloy with Precipitates

Electrolytic polishing

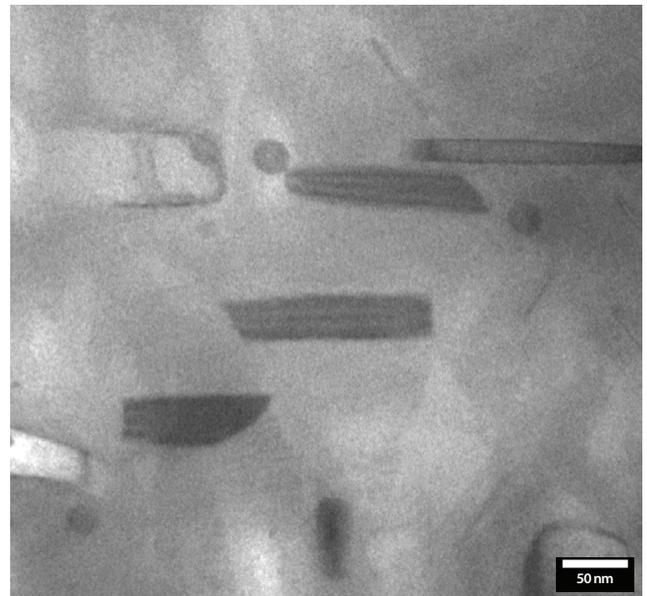
Point of interest: aerospace industry alloy



TEM: Al-Cu-Li-Mg Alloy with Precipitates

Electrolytic polishing

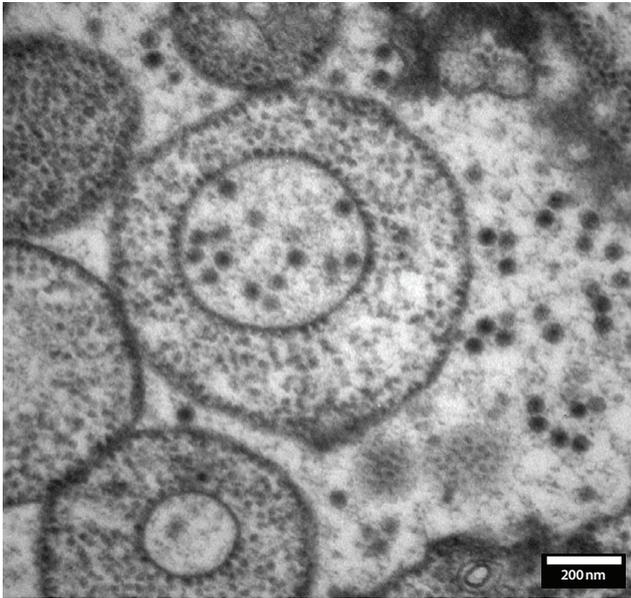
Point of interest: aerospace industry alloy



TEM: Al-Cu-Li-Mg Alloy with Precipitates

Electrolytic polishing

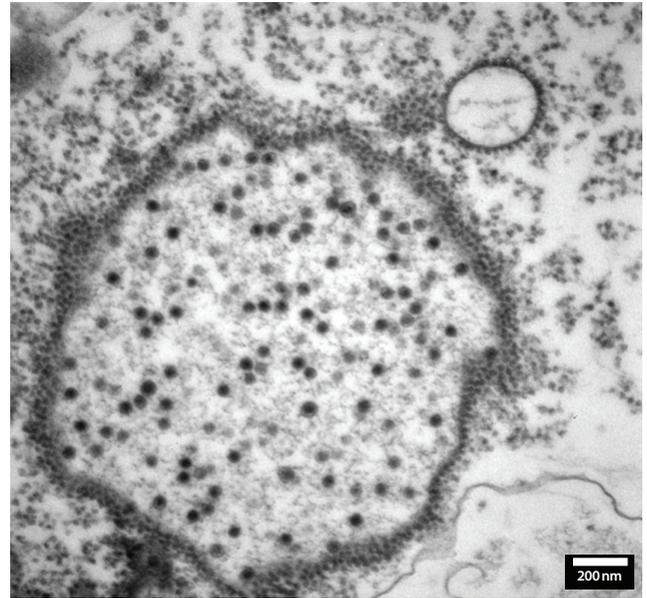
Point of interest: aerospace industry alloy



**TEM: Portugal Mosquito
Flavivirus Marim**

Stained section

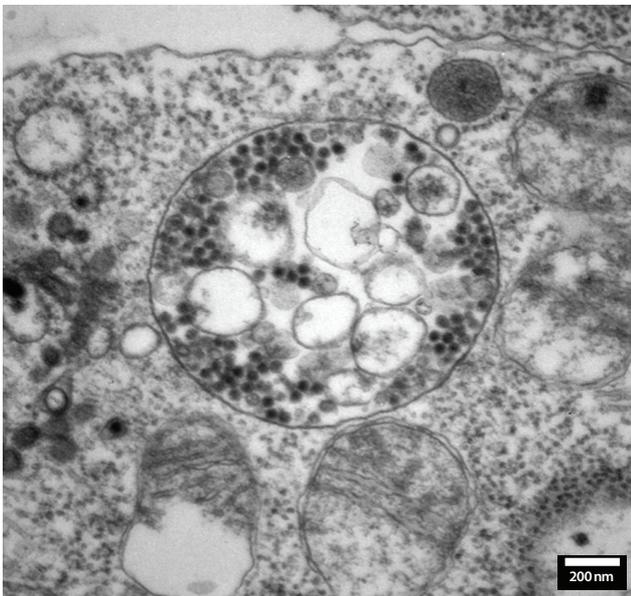
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), poststained (UA-LC), carbon reinforced



**TEM: Portugal Mosquito
Flavivirus Marim**

Stained section

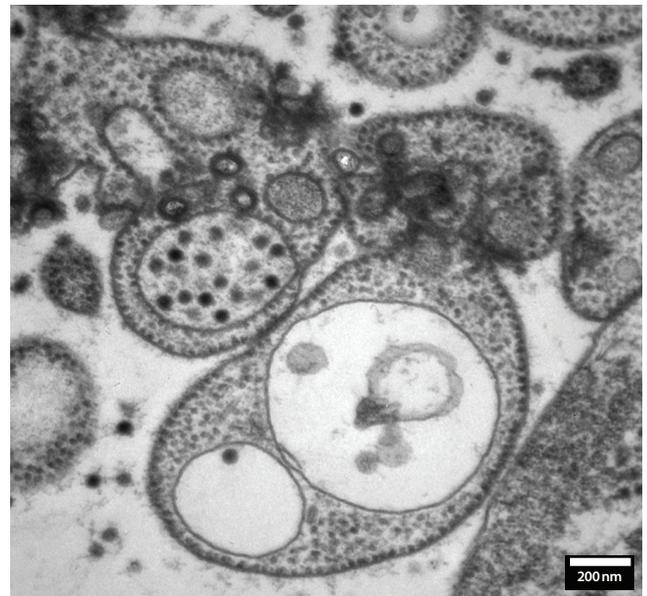
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), poststained (UA-LC), carbon reinforced



**TEM: Portugal Mosquito
Flavivirus Marim**

Stained section

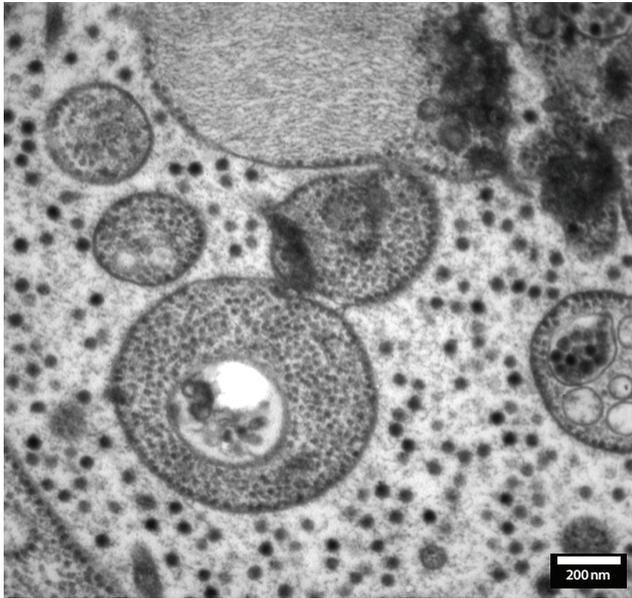
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), poststained (UA-LC), carbon reinforced



**TEM: Portugal Mosquito
Flavivirus Marim**

Stained section

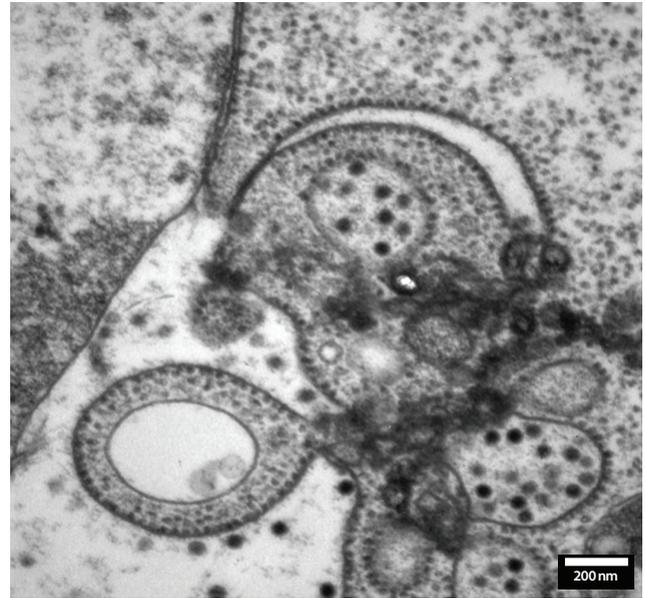
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Portugal Mosquito Flavivirus Marim

Stained section

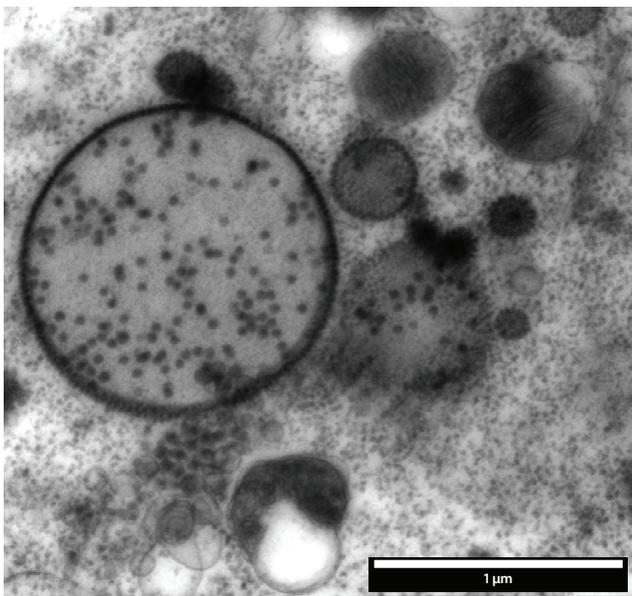
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Portugal Mosquito Flavivirus Marim

Stained section

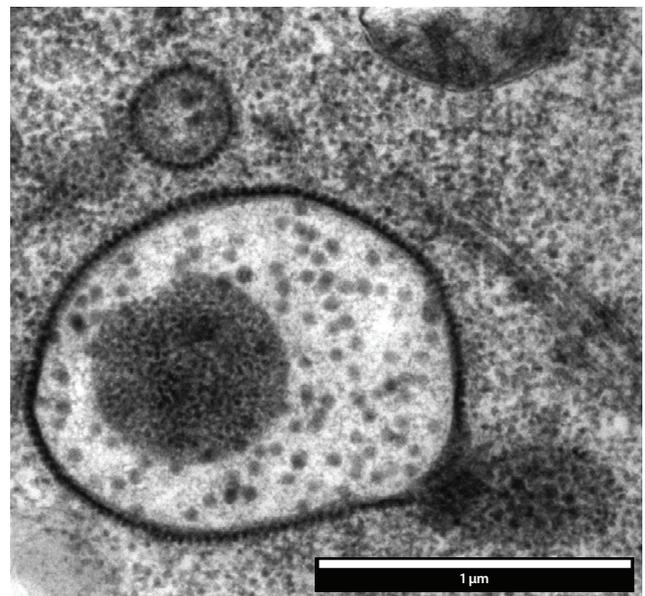
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



STEM 10 kV: Portugal Mosquito Flavivirus Marim

Stained section

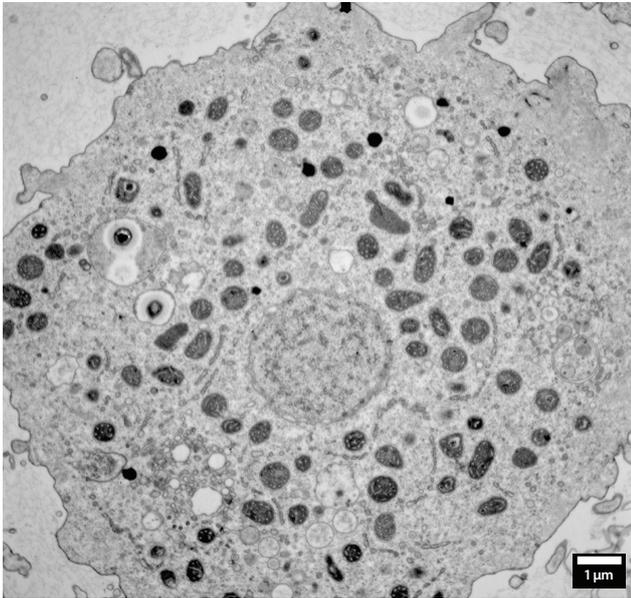
Epon embedded, 200 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



STEM 10 kV: Portugal Mosquito Flavivirus Marim

Stained section

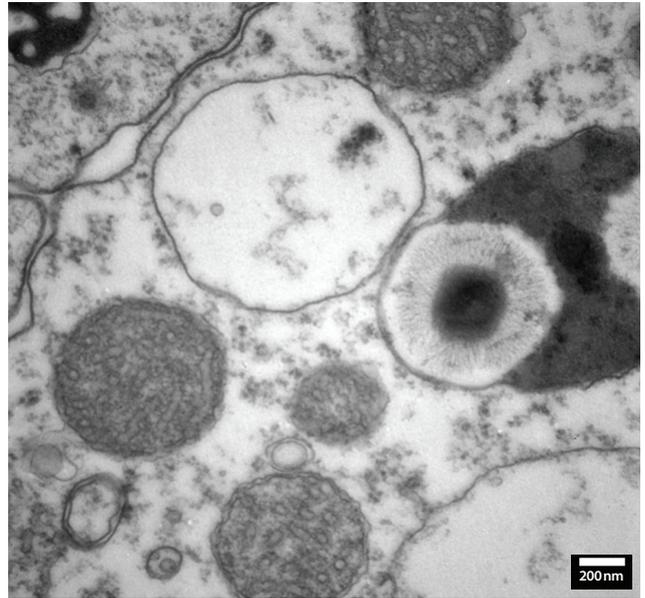
Epon embedded, 200 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

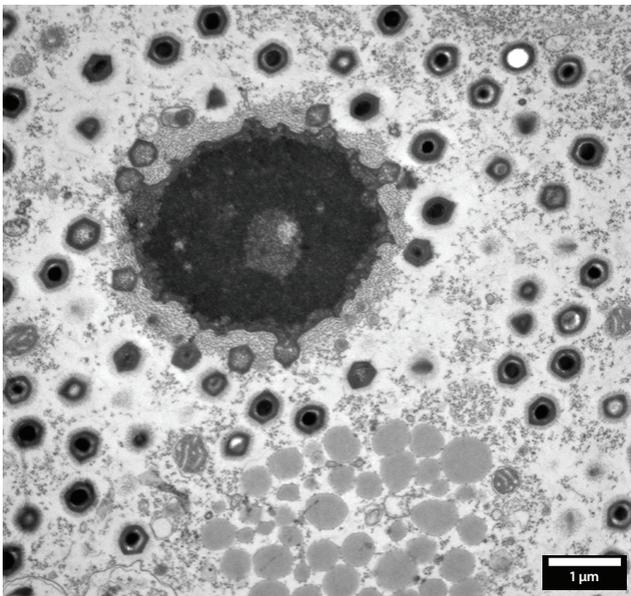
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), poststained (UA-LC), carbon reinforced



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

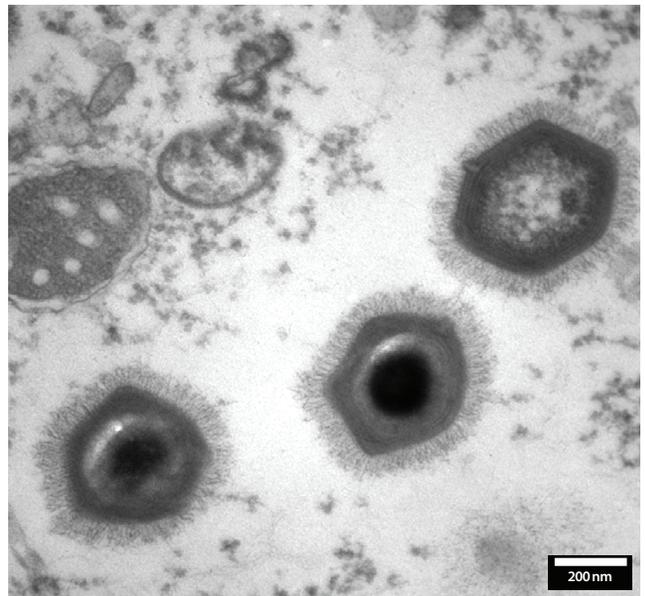
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), poststained (UA-LC), carbon reinforced



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

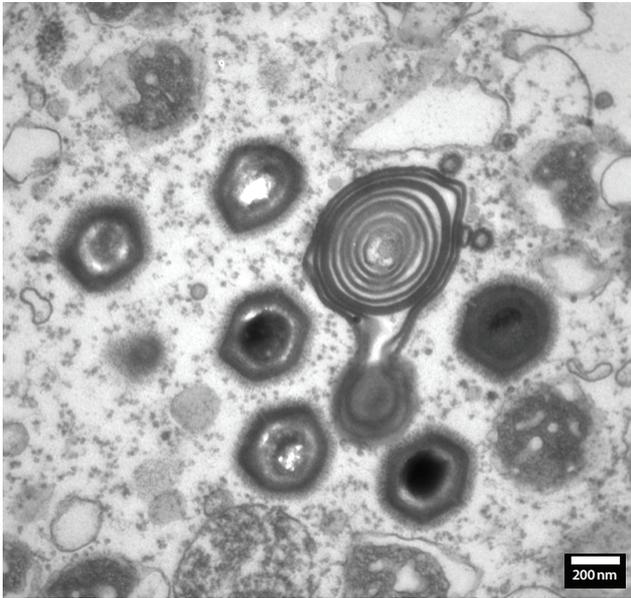
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

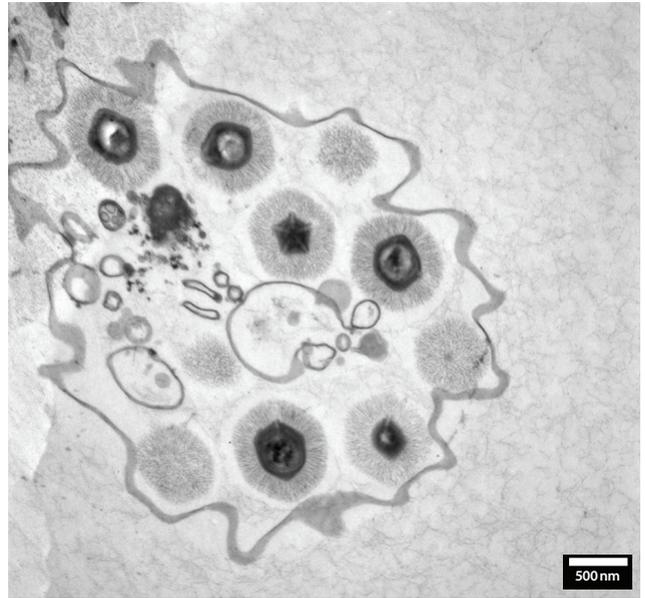
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

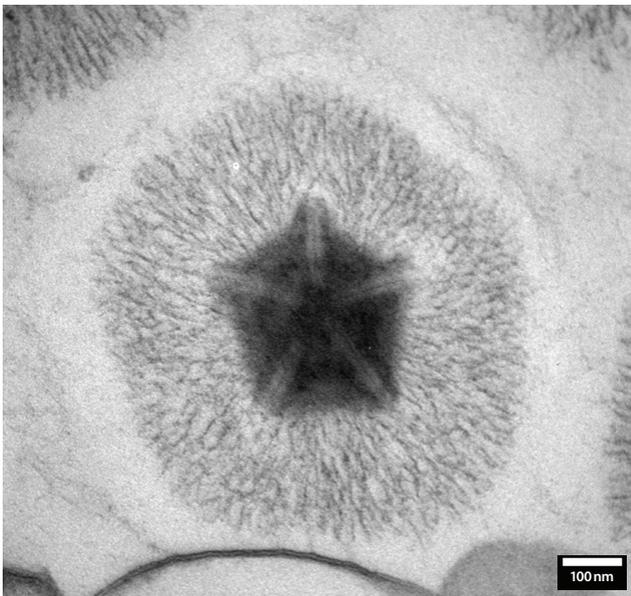
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

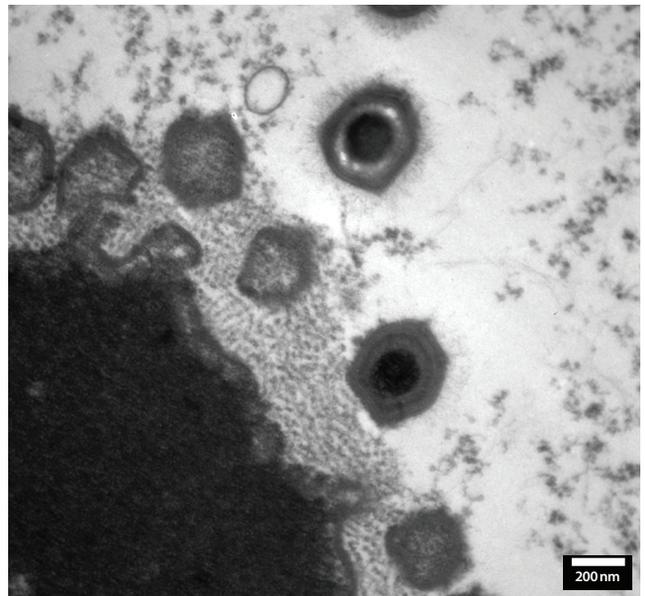
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

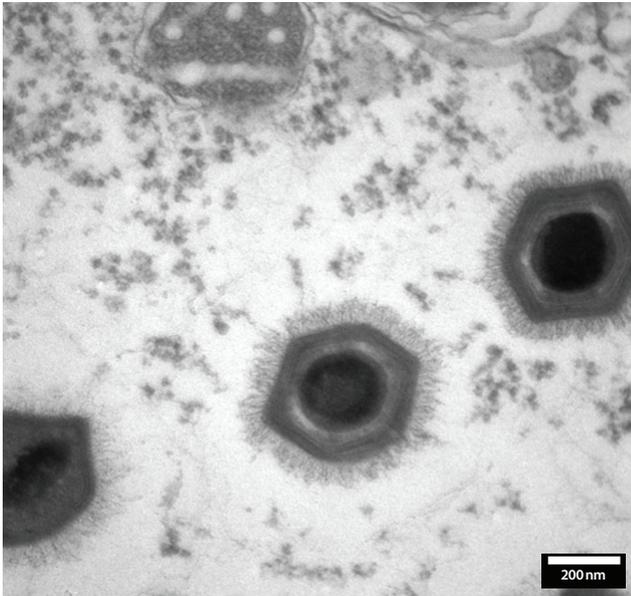
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

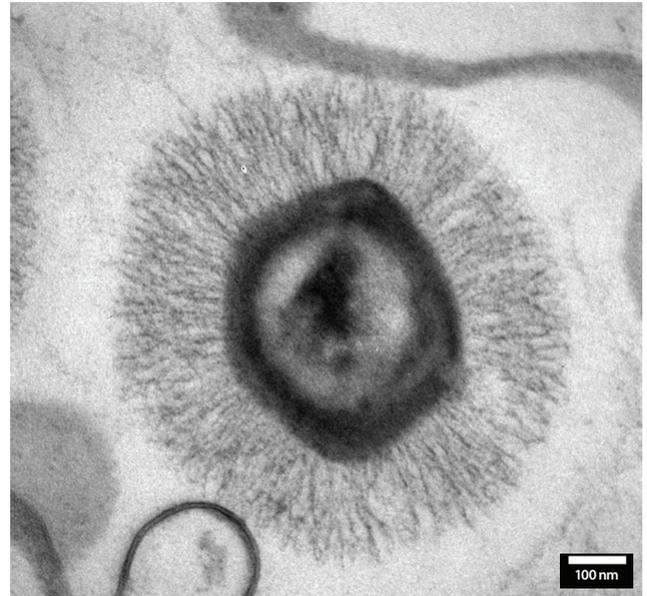
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

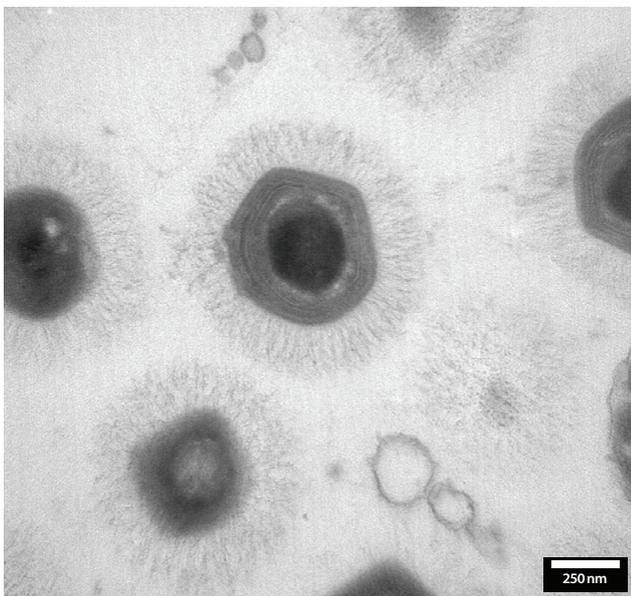
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

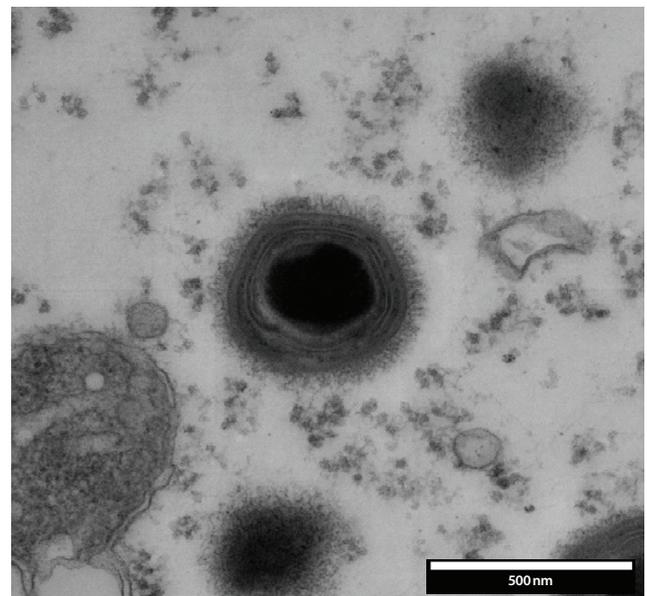
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

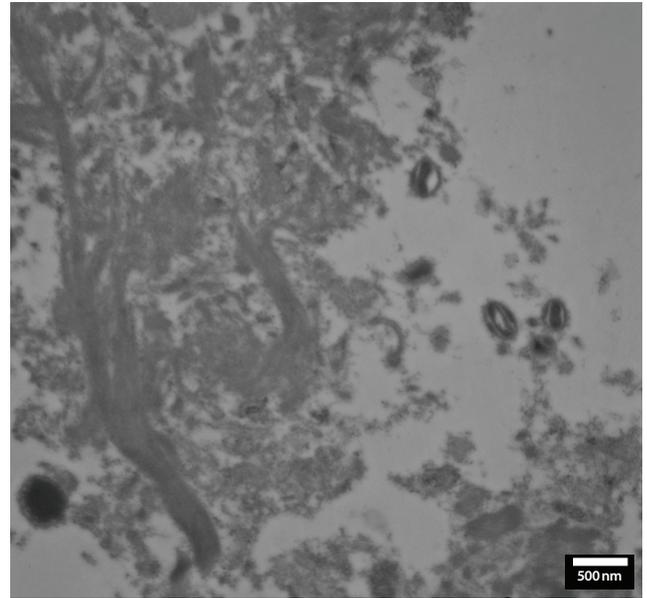
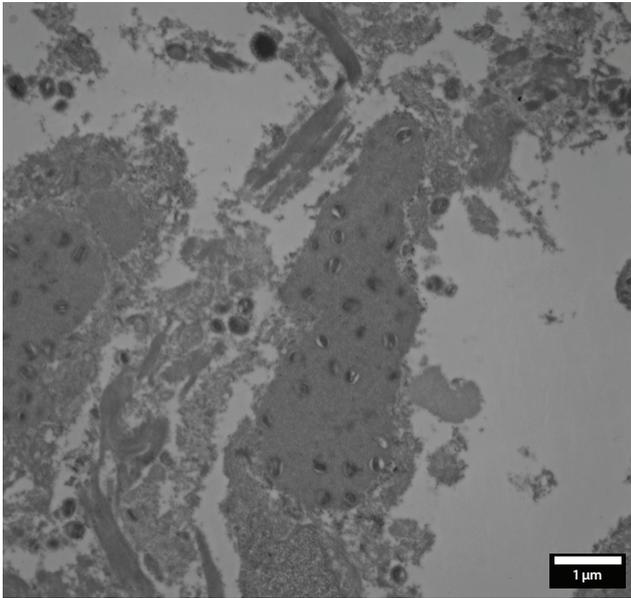
Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Acanthamoeba Polyphaga Mimivirus

Stained section

Epon embedded, 70 nm, block contrasted (1% OsO₄ + 2% UAc), without poststaining and carbon reinforcement



TEM: Cowpox Virus on an Elephant Tongue

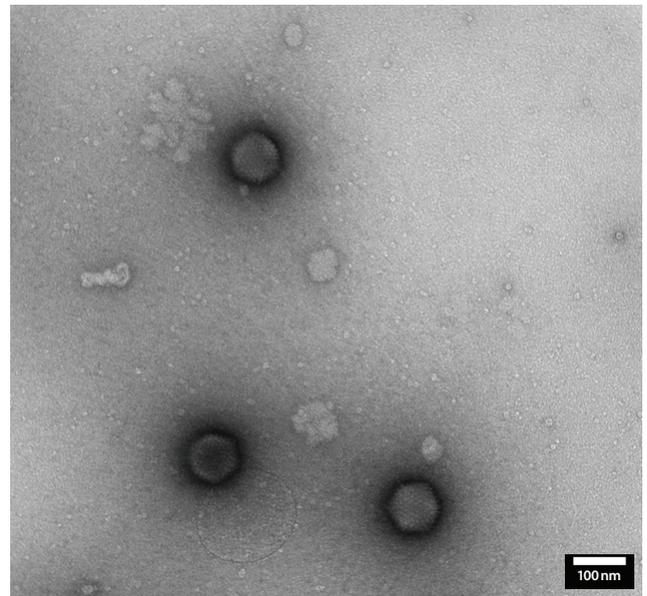
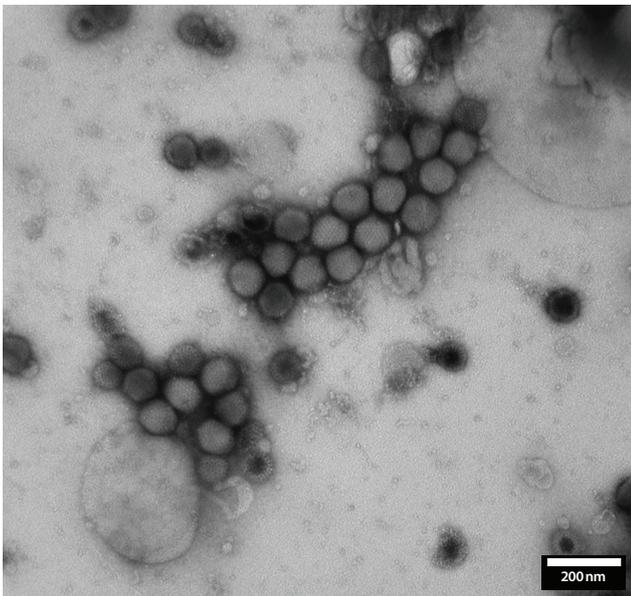
Stained section

LR-White embedded, 70 nm, no block contrast, post stained with UA-LC, carbon reinforced

TEM: Cowpox Virus on an Elephant Tongue

Stained section

LR-White embedded, 70 nm, no block contrast, post stained with UA-LC, carbon reinforced



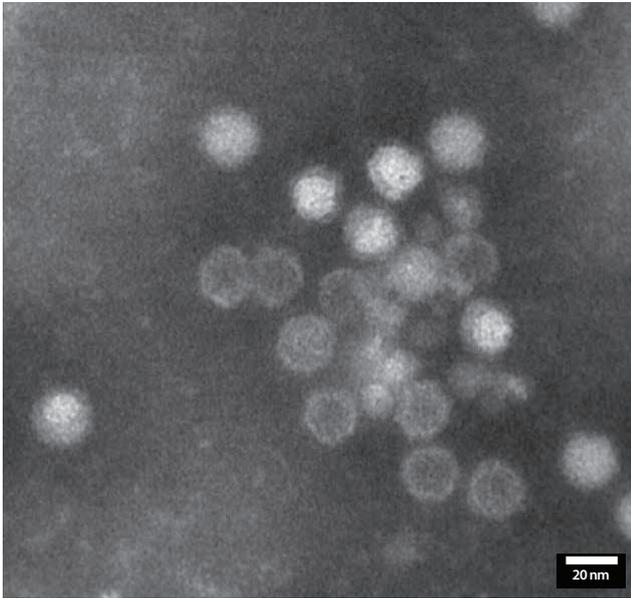
TEM: Adenovirus and rotavirus

Stained particles on carbon film

Virus with UA staining

TEM: Adenovirus

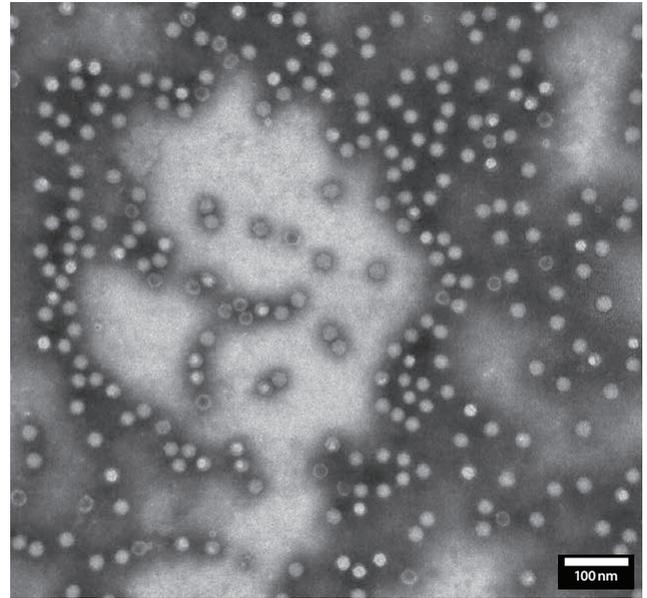
Stained particles on carbon film



TEM: Adeno-Associated Viruses

Stained particles on carbon film

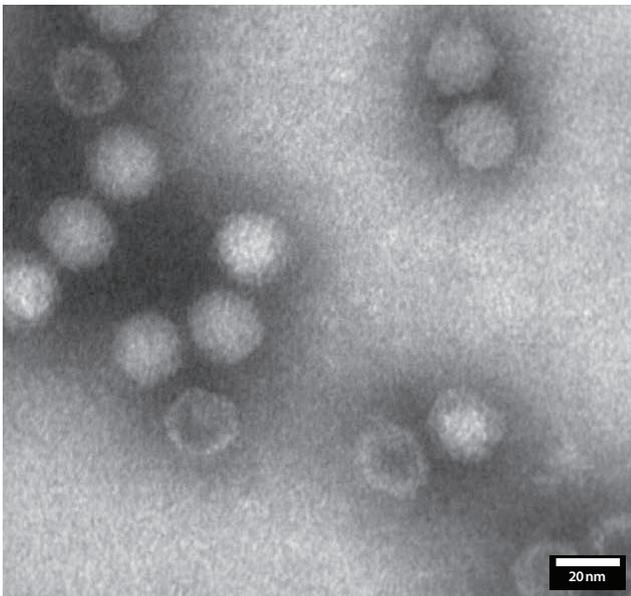
Negative stained AAV (1 minute PTA 2%),
diameter of about 20 nm



TEM: Adeno-Associated Viruses

Stained particles on carbon film

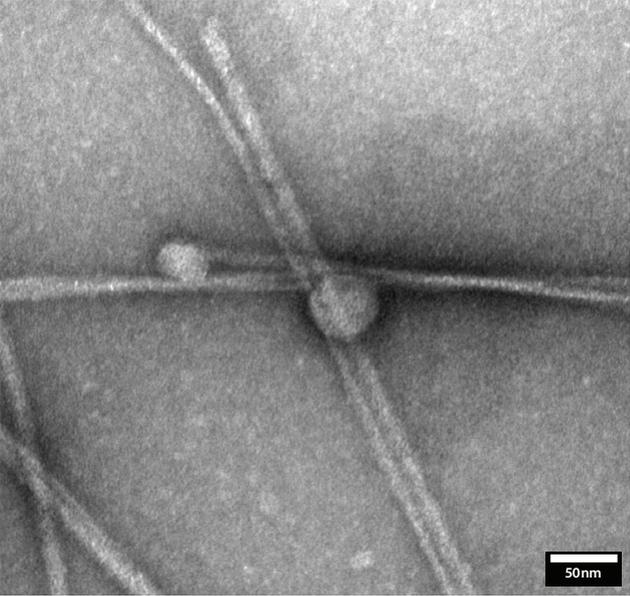
Negative stained AAV (1 minute PTA 2%),
diameter of about 20 nm



TEM: Adeno-Associated Viruses

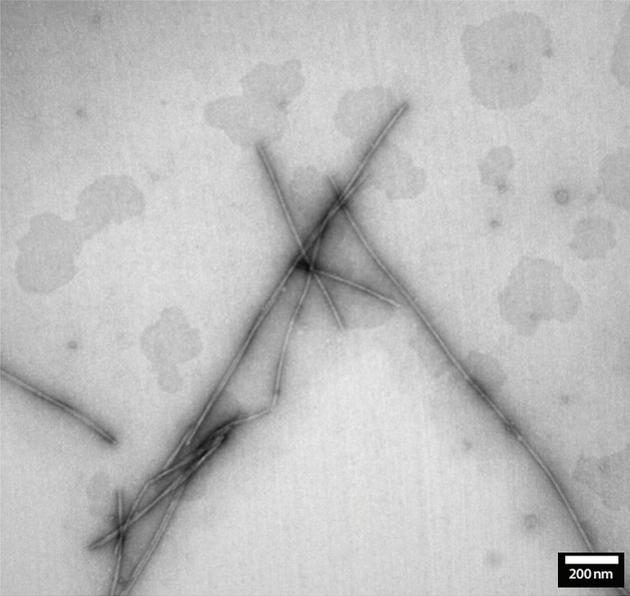
Stained particles on carbon film

Negative stained AAV (1 minute PTA 2%),
diameter of about 20 nm



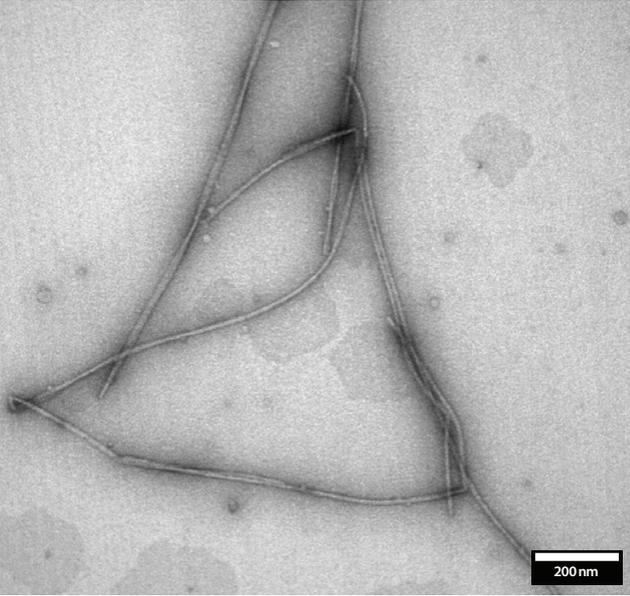
TEM: Nano Filaments

Stained particles on carbon film
Viral nucleoprotein ring



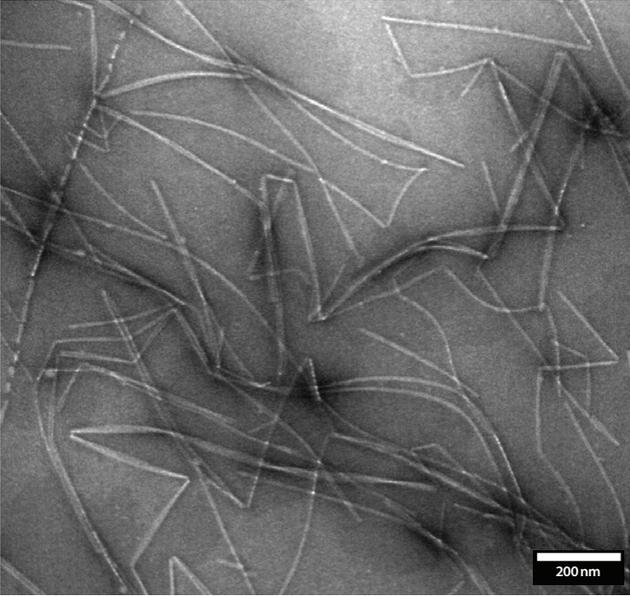
TEM: Nano Filaments

Stained particles on carbon film
Viral nucleoprotein ring



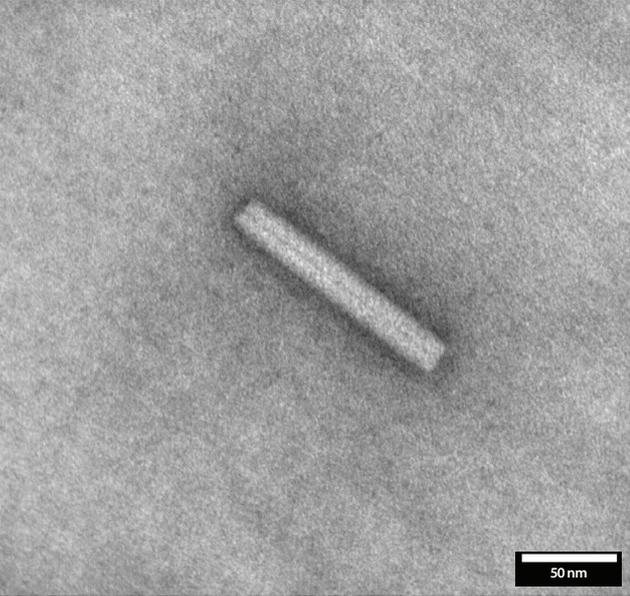
TEM: Nano Filaments

Stained particles on carbon film
Viral nucleoprotein ring

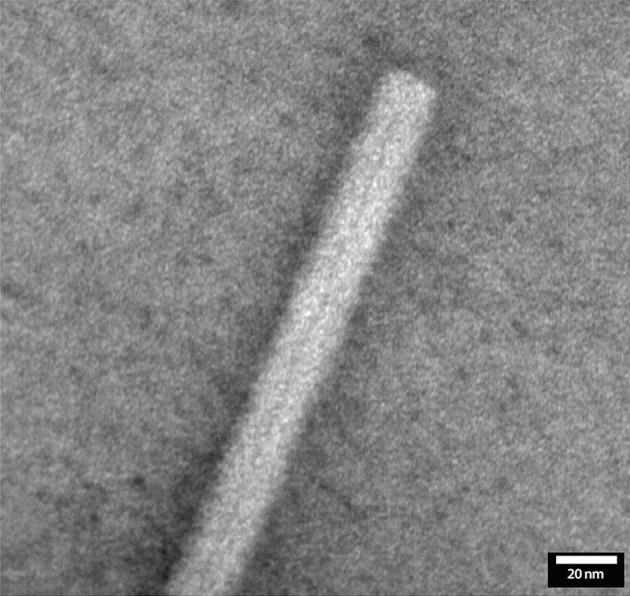


TEM: Nano Filaments

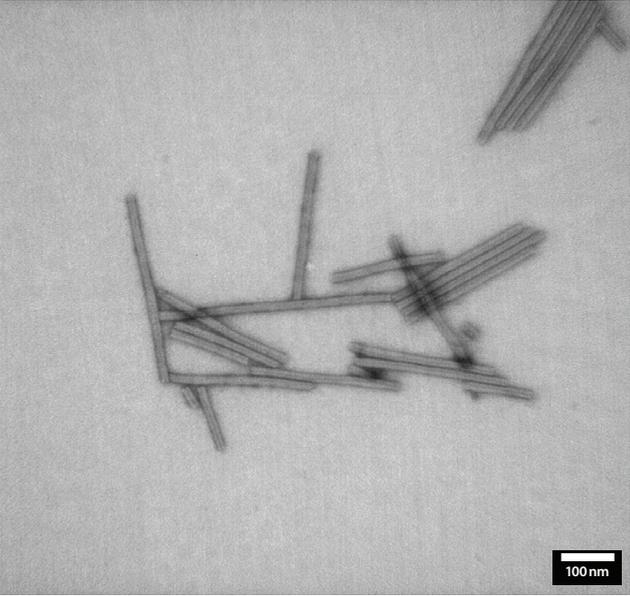
Stained particles on carbon film
Viral nucleoprotein ring



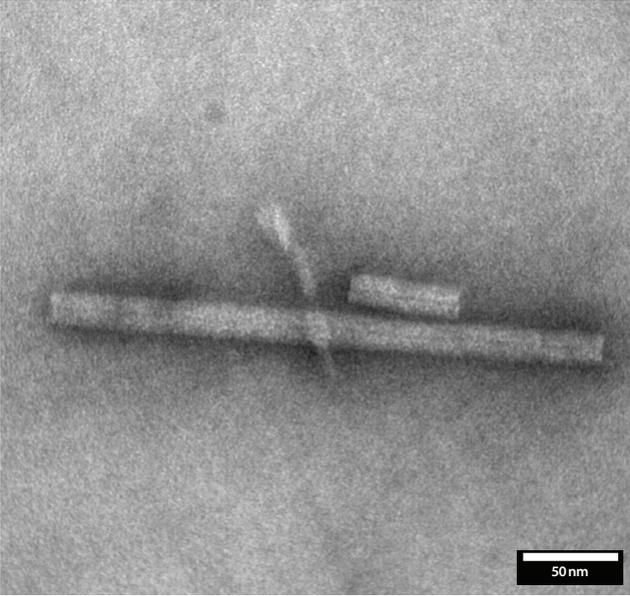
TEM: Tobacco Mosaic Virus
Stained particles on carbon film



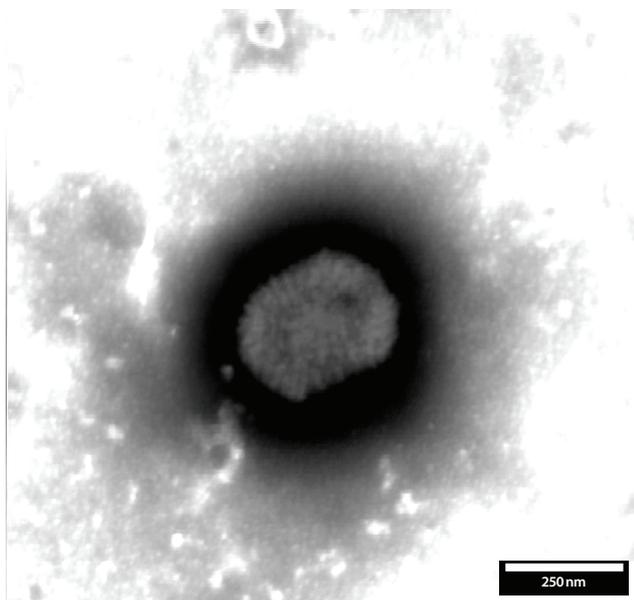
TEM: Tobacco Mosaic Virus
Stained particles on carbon film



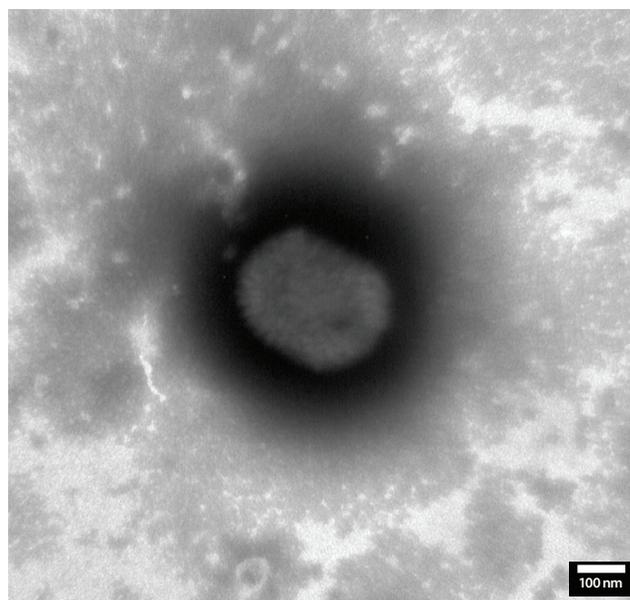
TEM: Tobacco Mosaic Virus
Stained particles on carbon film



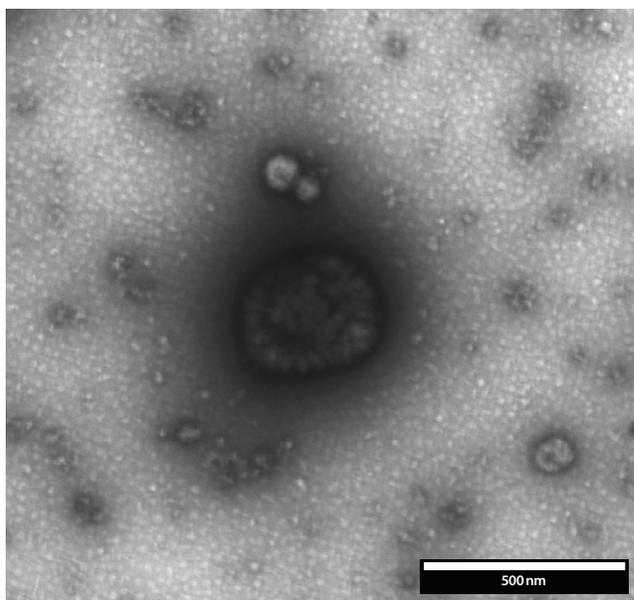
TEM: Tobacco Mosaic Virus
Stained particles on carbon film

**STEM 15 kV: Pox Virus**

Stained particles on carbon film

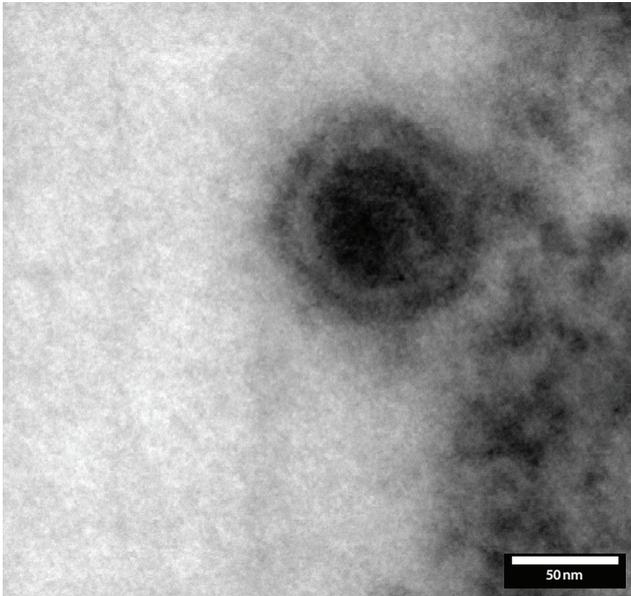
**STEM 15 kV: Pox Virus**

Stained particles on carbon film

**STEM 15 kV: Vaccinia Virus VR-1536**

Stained particles on carbon film

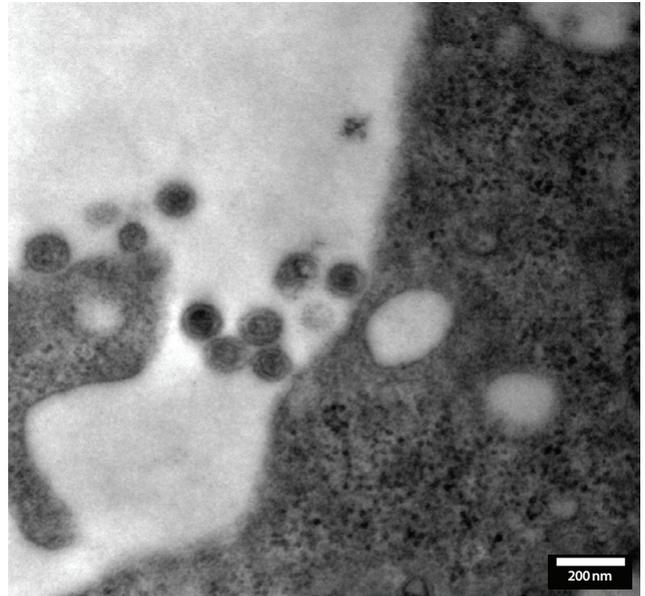
Carbon reinforced pioloform coated grid,
70nm, pretreated (alcian blue), washed 3X,
neg. stained (1% UAc)



STEM 15 kV: Coronavirus

Stained section

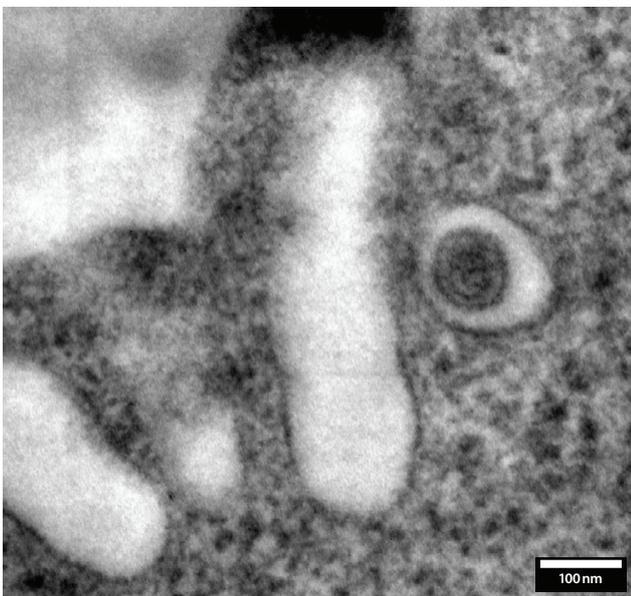
Ducurpan embedded, 80 nm, block contrasted.
Point of Interest: SARS-CoV-2 interaction with the cells.



STEM 15 kV: Coronavirus

Stained section

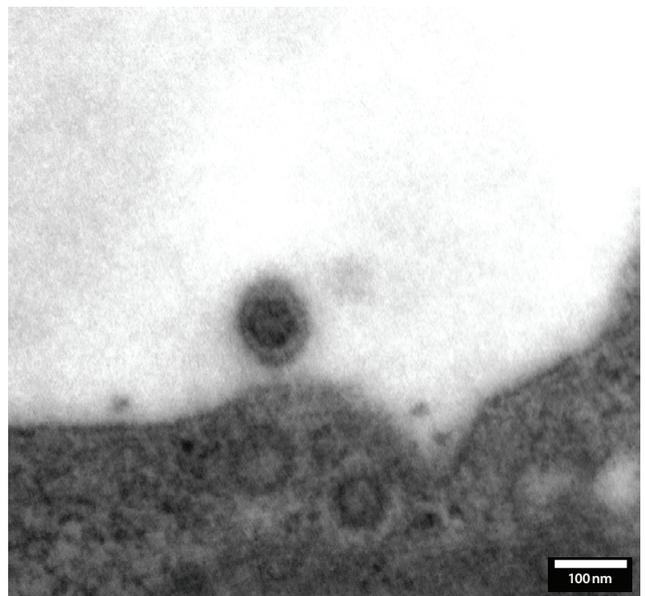
Ducurpan embedded, 80 nm, block contrasted.
Point of Interest: SARS-CoV-2 interaction with the cells.



STEM 15 kV: Coronavirus

Stained section

Ducurpan embedded, 80 nm, block contrasted.
Point of Interest: SARS-CoV-2 interaction with the cells.



STEM 15 kV: Coronavirus

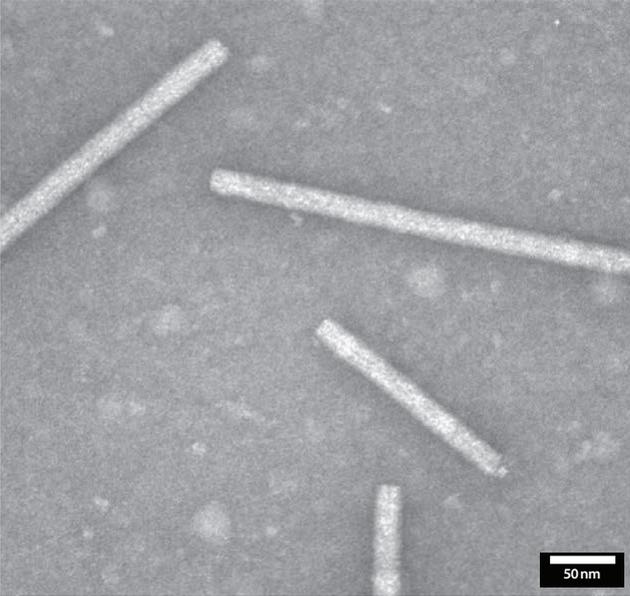
Stained section

Ducurpan embedded, 80 nm, block contrasted.
Point of Interest: SARS-CoV-2 interaction with the cells.



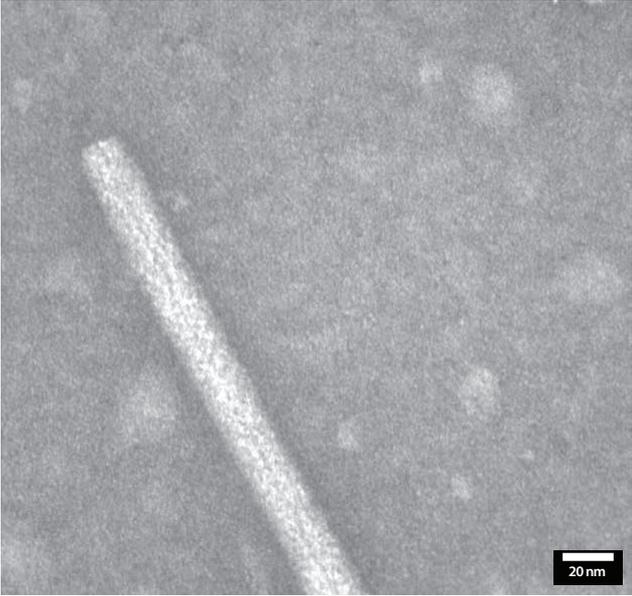
TEM: Tobacco Mosaic Virus

Particles on formvar
Negative staining



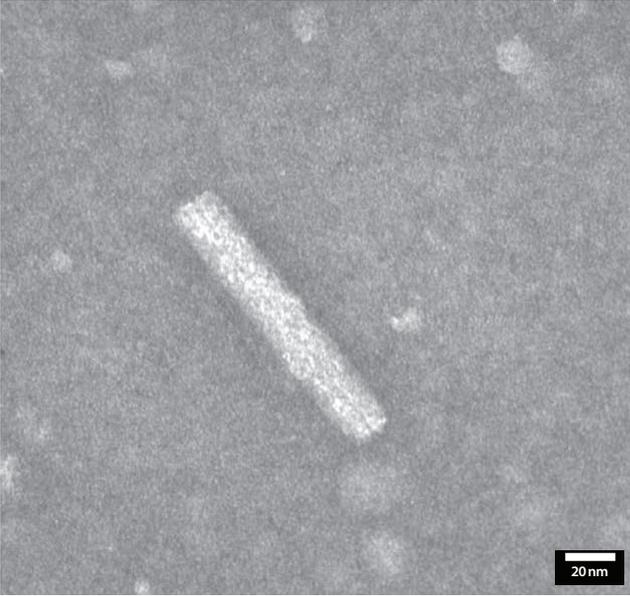
TEM: Tobacco Mosaic Virus

Particles on formvar
Negative staining



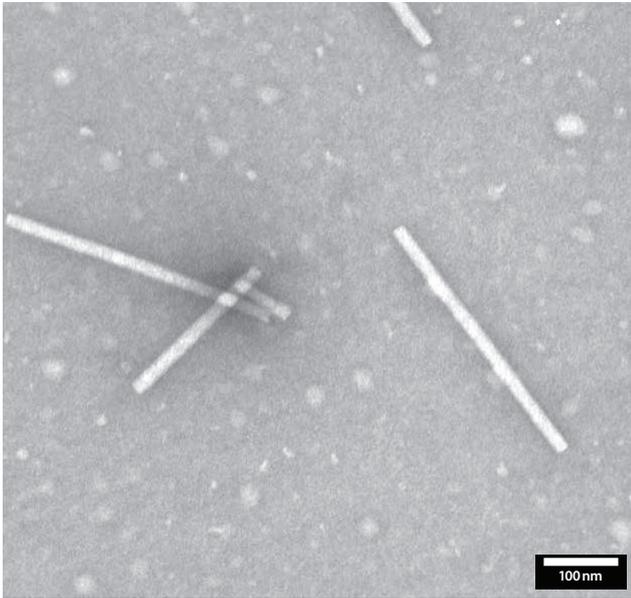
TEM: Tobacco Mosaic Virus

Particles on formvar
Negative staining



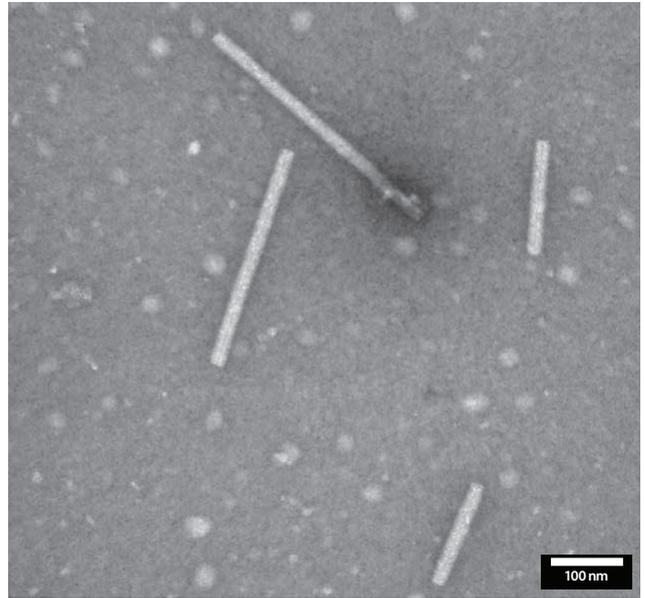
TEM: Tobacco Mosaic Virus

Particles on formvar
Negative staining



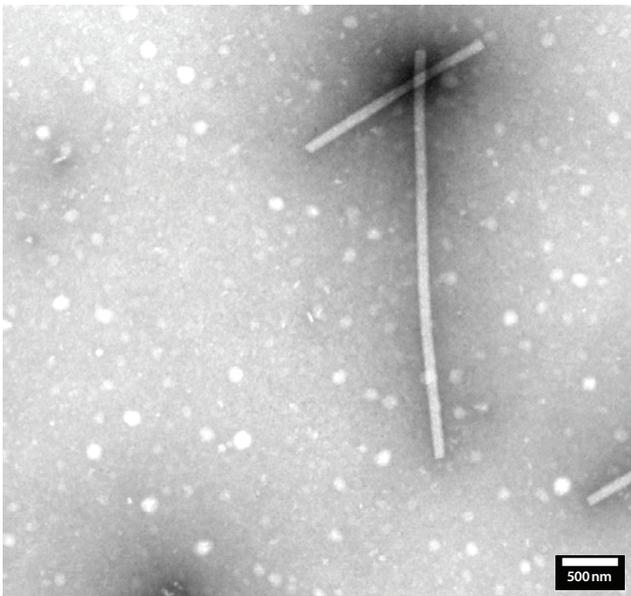
TEM: Tobacco Mosaic Virus

Particles on formvar
Negative staining



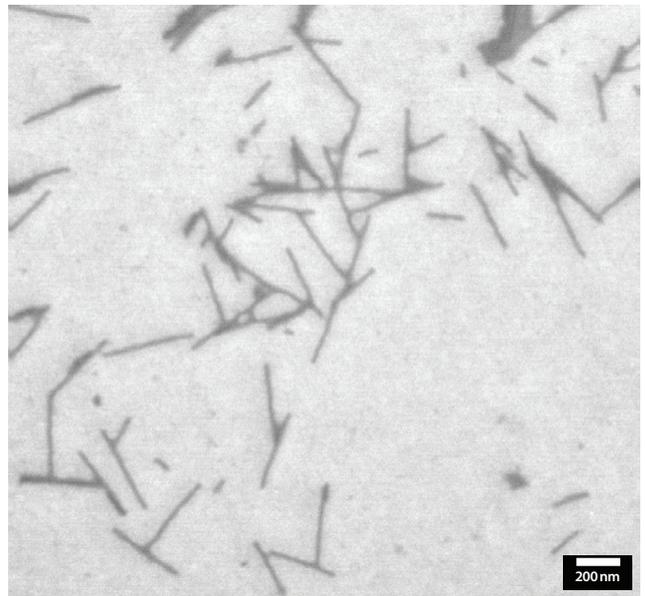
TEM: Tobacco Mosaic Virus

Particles on formvar
Negative staining



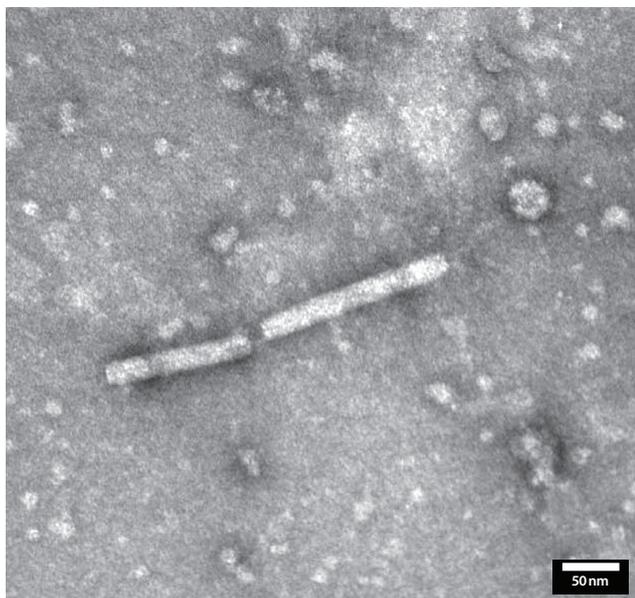
**STEM 15 kV:
Tobacco Mosaic Virus**

Particles on formvar
Without staining



**STEM 15 kV:
Tobacco Mosaic Virus**

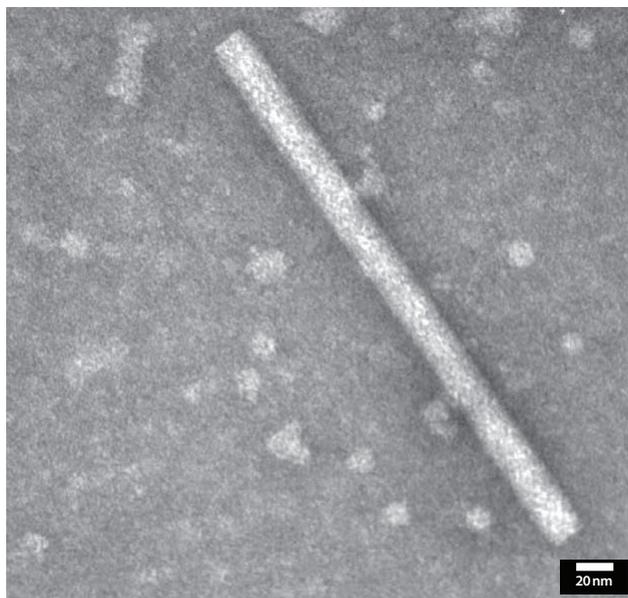
Particles on formvar
Without staining



TEM: Tobacco Mosaic Virus

Particles on formvar

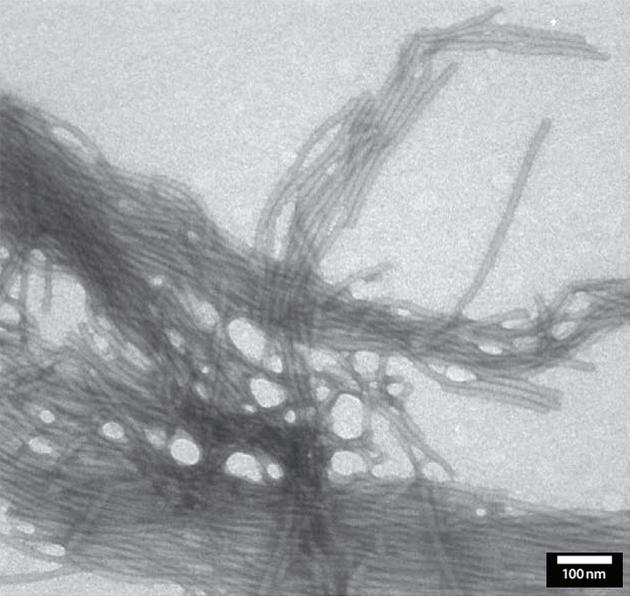
Raw extract from infected leaves, negatively stained with 0.5% UAc in water



TEM: Tobacco Mosaic Virus

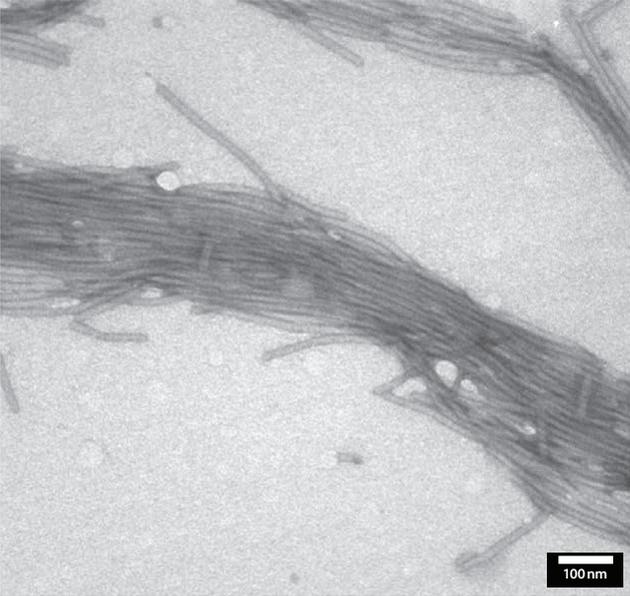
Particles on formvar

Raw extract from infected leaves, negatively stained with 0.5% UAc in water



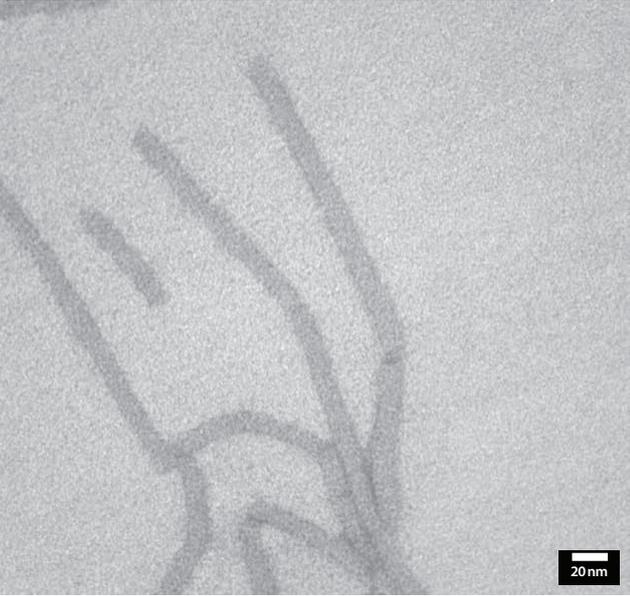
TEM: Pepino Mosaic Virus

Particles on formvar
Negatively stained with 0.5% uranyl acetate



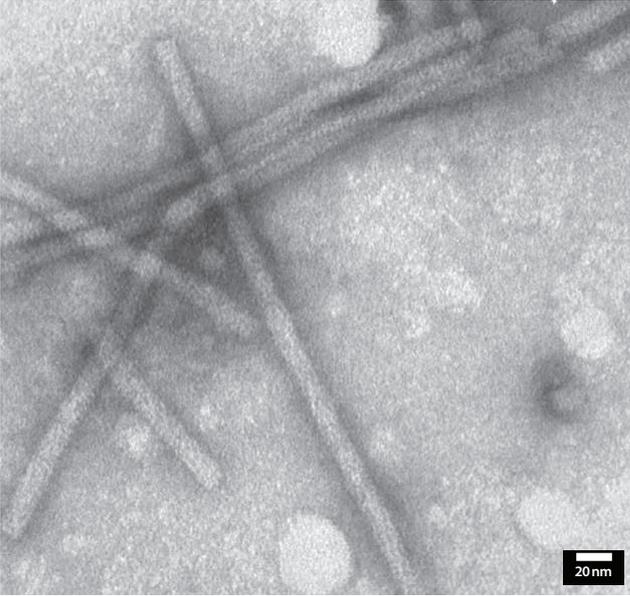
TEM: Pepino Mosaic Virus

Particles on formvar
Negatively stained with 0.5% uranyl acetate



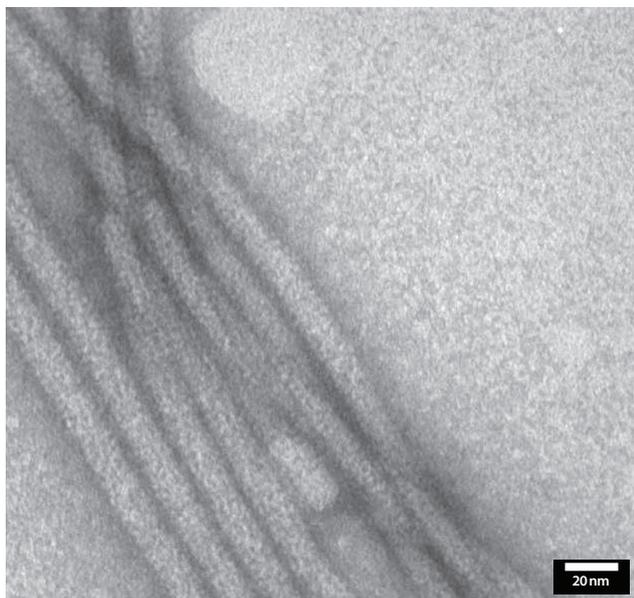
TEM: Pepino Mosaic Virus

Particles on formvar
Negatively stained with 0.5% uranyl acetate



TEM: Pepino Mosaic Virus

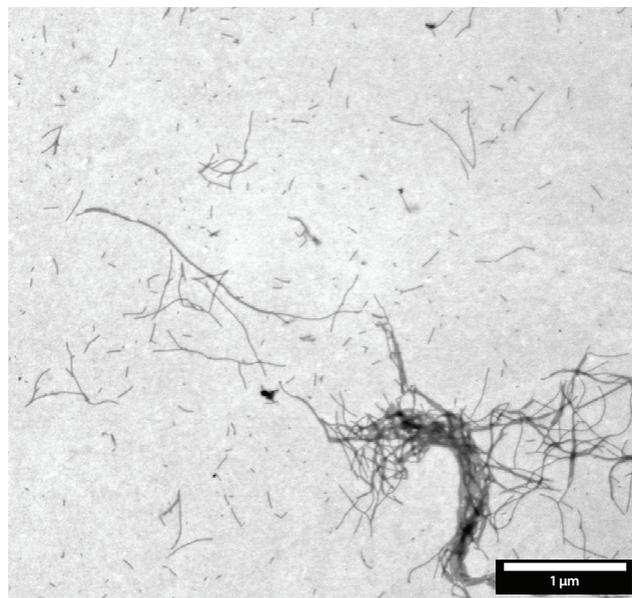
Particles on formvar
Negatively stained with 0.5% uranyl acetate



TEM: Pepino Mosaic Virus

Particles on formvar

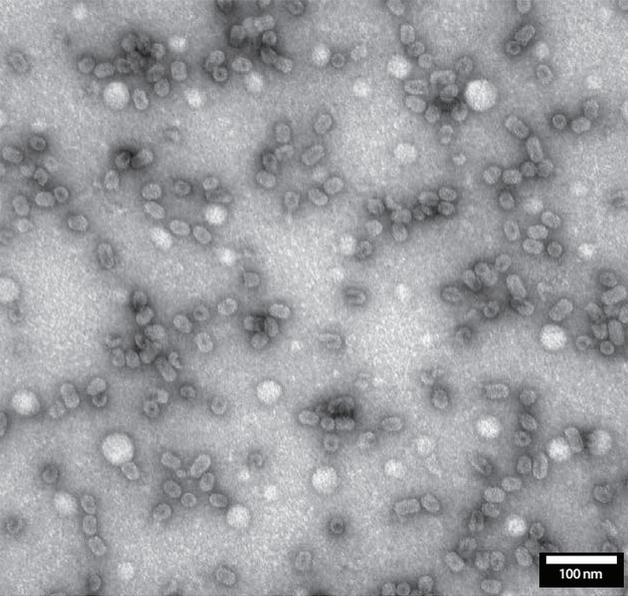
Negatively stained with 0.5% uranyl acetate



TEM: Pepino Mosaic Virus

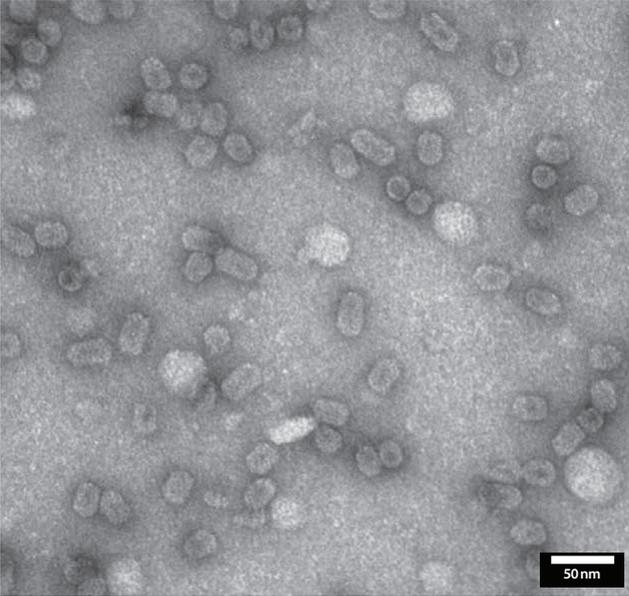
Particles on formvar

Without staining



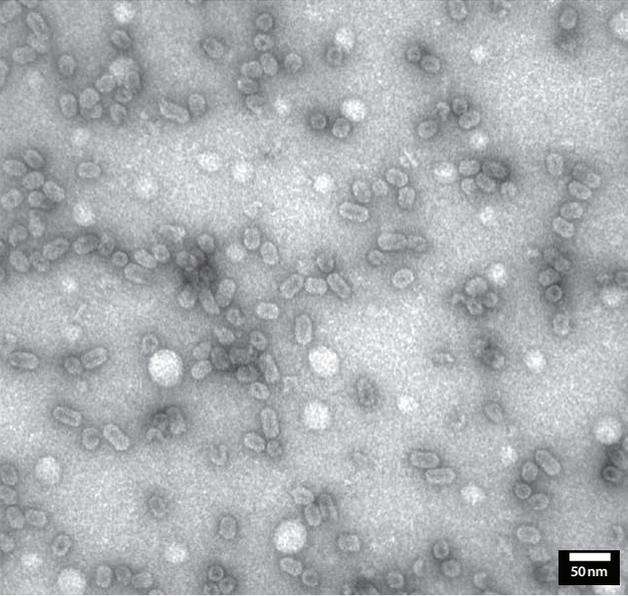
TEM: Ourmia Melon Virus

Particles on formvar
Negatively stained with 0.5% UAc in water



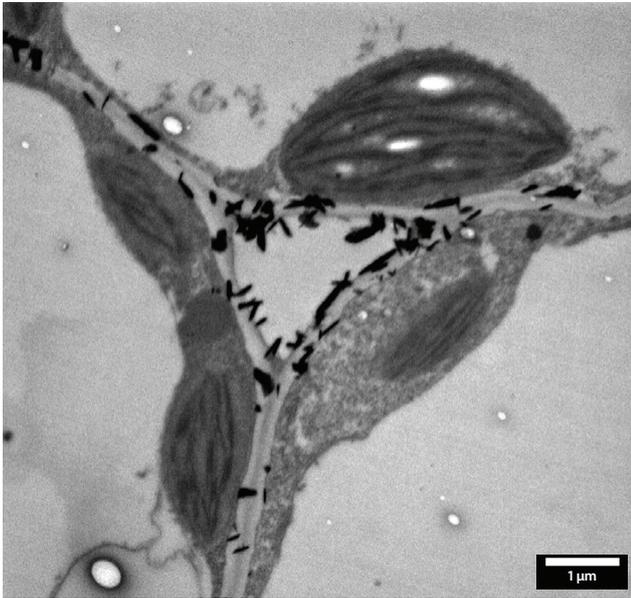
TEM: Ourmia Melon Virus

Particles on formvar
Negatively stained with 0.5% UAc in water



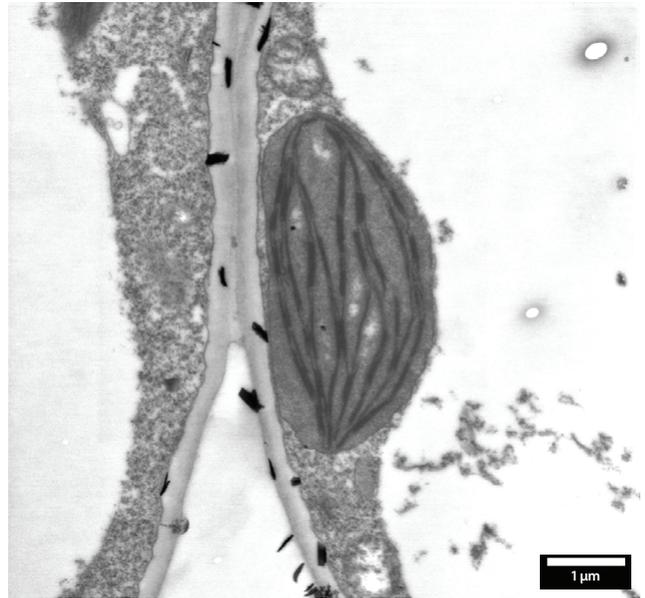
TEM: Ourmia Melon Virus

Particles on formvar
Negatively stained with 0.5% UAc in water



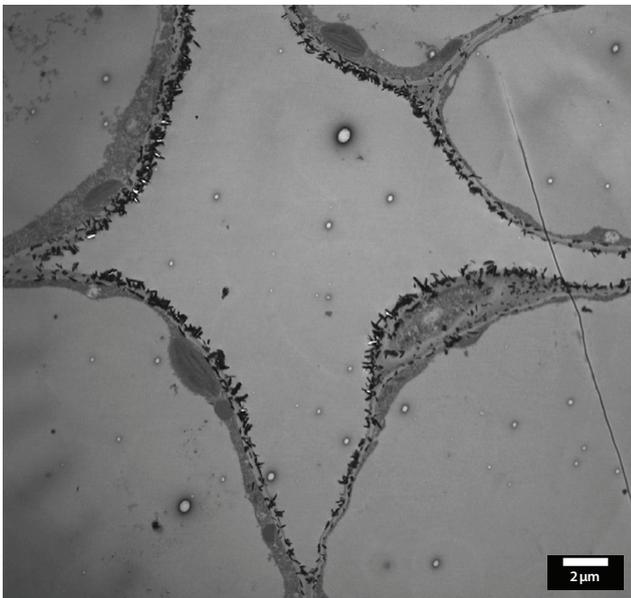
TEM: Central Leaf Vein

Section on formvar
From herbaceous plant



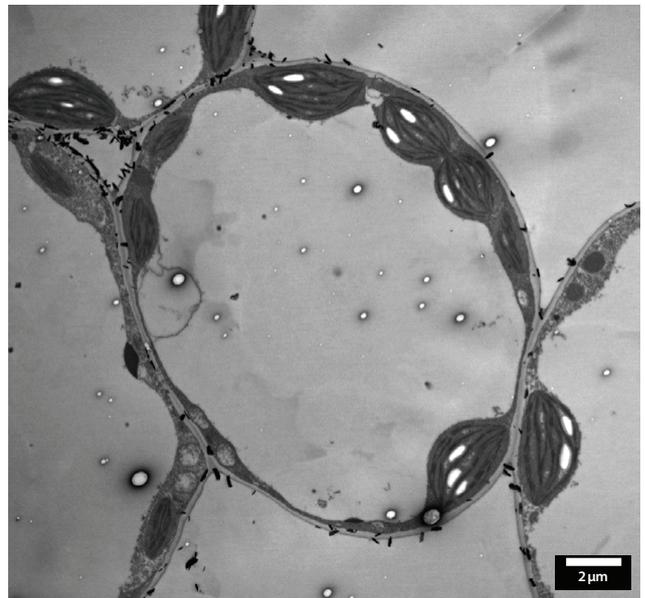
STEM 10 kV: Central Leaf Vein

Section on formvar
From herbaceous plant



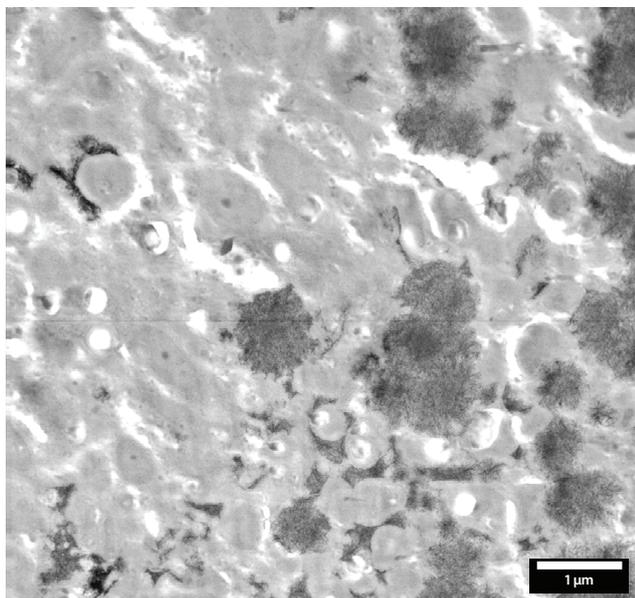
STEM 10 kV: Central Leaf Vein

Section on formvar
From herbaceous plant



STEM 10 kV: Central Leaf Vein

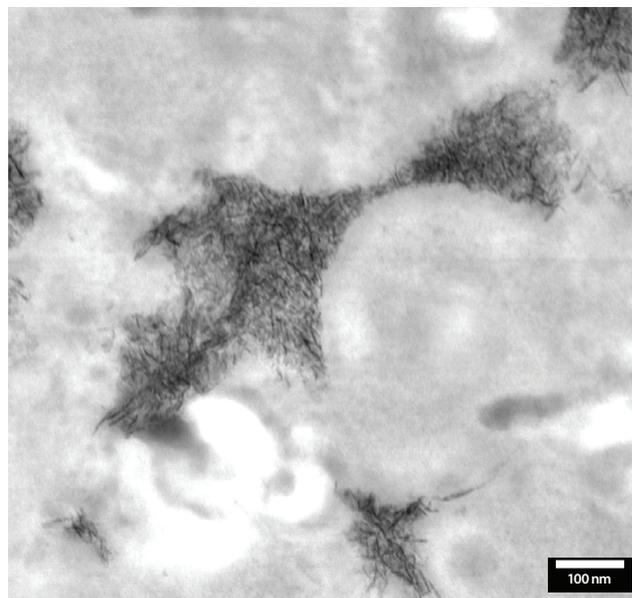
Section on formvar
From herbaceous plant



STEM: Bacteria and Crystals

Stained section

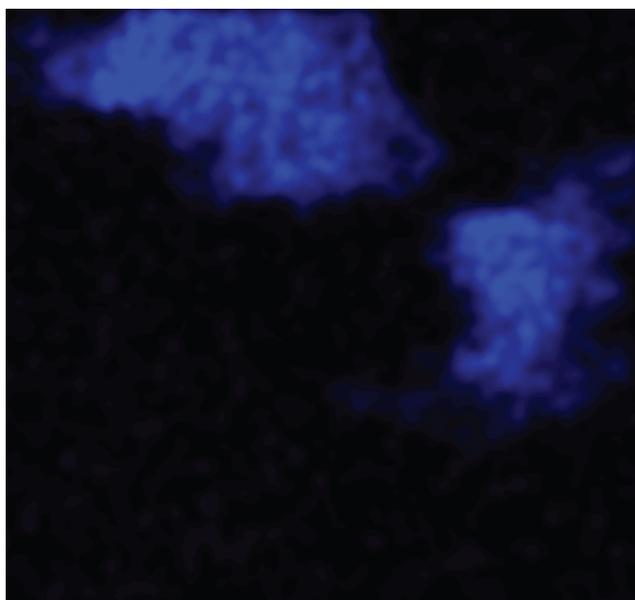
View of a colony with cross section profiles of bacteria and crystalline Mn deposits



STEM: Bacteria and Crystals

Stained section

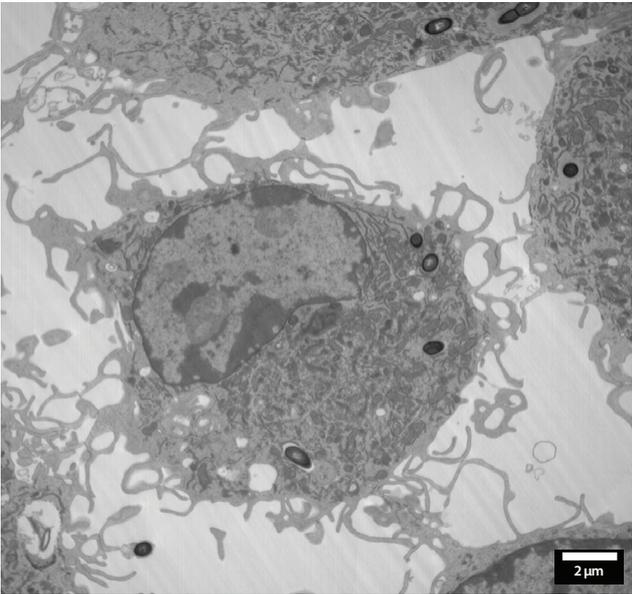
Cross section profiles of bacteria and crystalline Mn deposits



EDS: Bacteria and Crystals

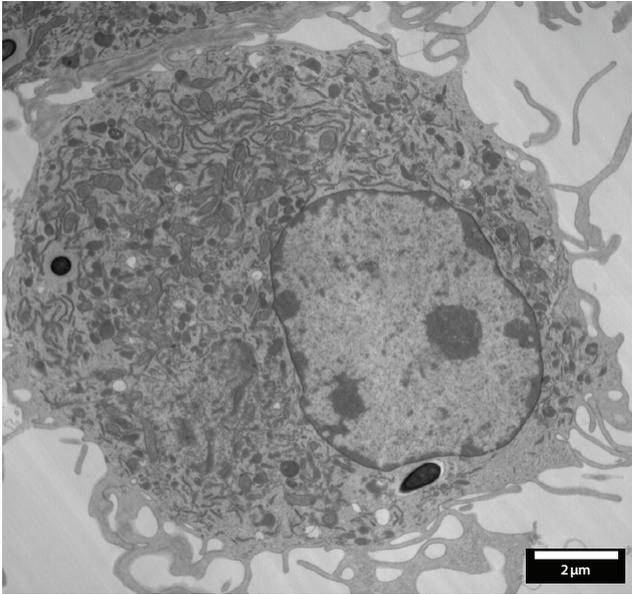
Stained section

Mn mapping



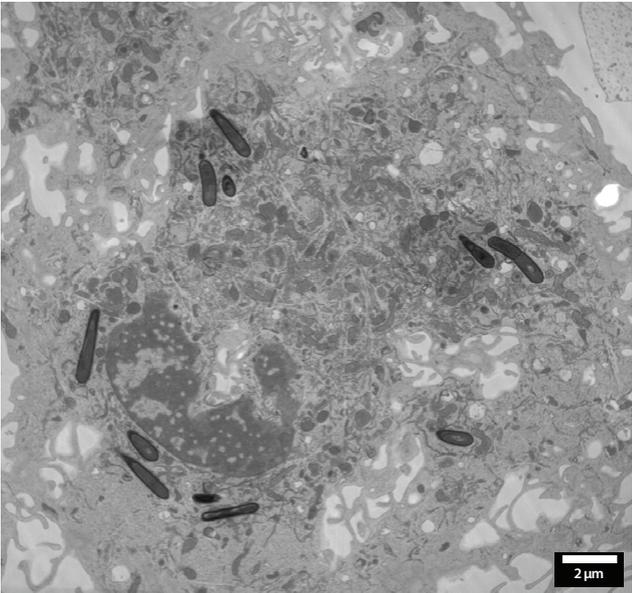
TEM: Fibroblasts and Bacteria

Stained section



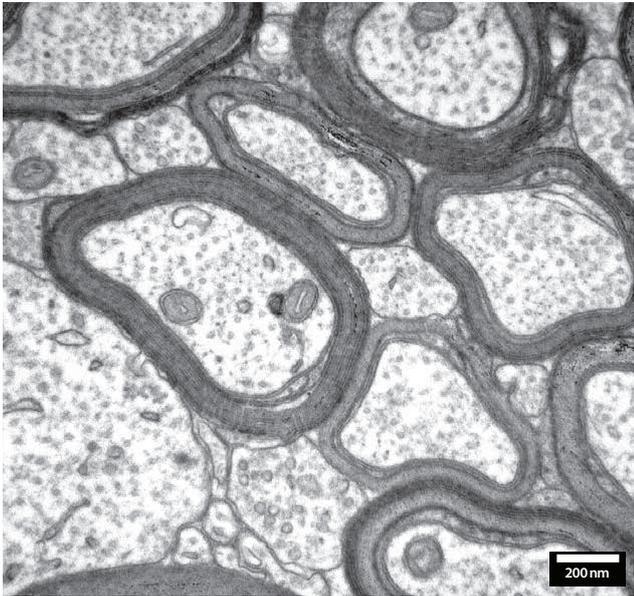
TEM: Fibroblasts and Bacteria

Stained section



TEM: Fibroblasts and Bacteria

Stained section



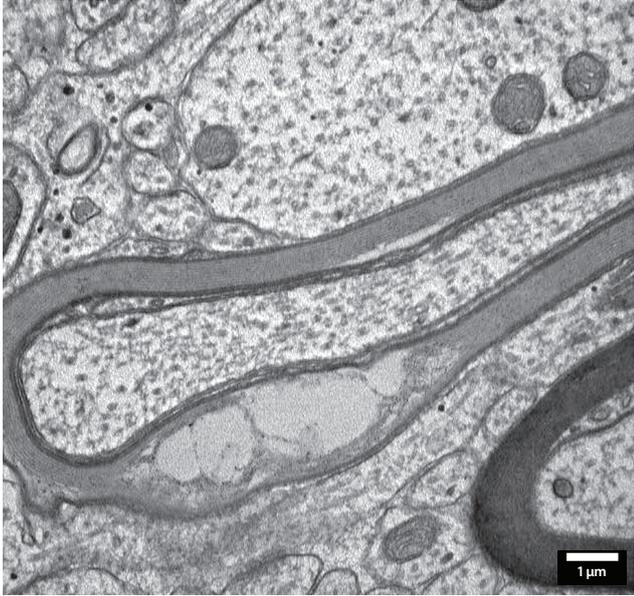
TEM: Mouse brain

Stained section
Neural tissue



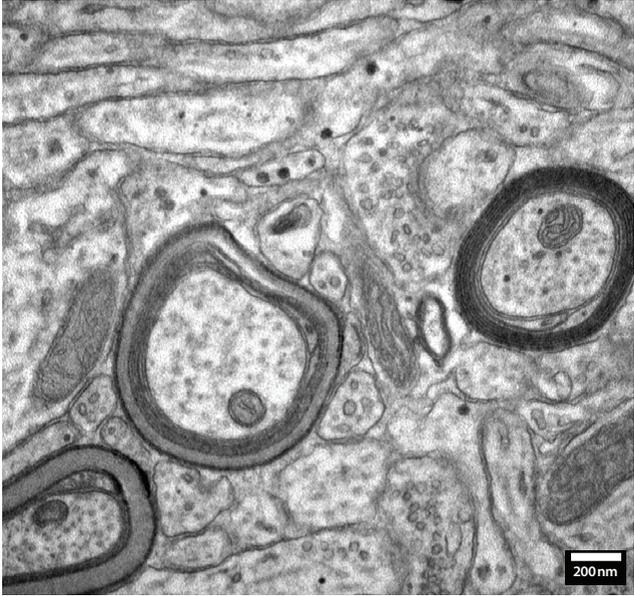
TEM: Mouse brain

Stained section
Neural tissue including axons with and without myelin sheath



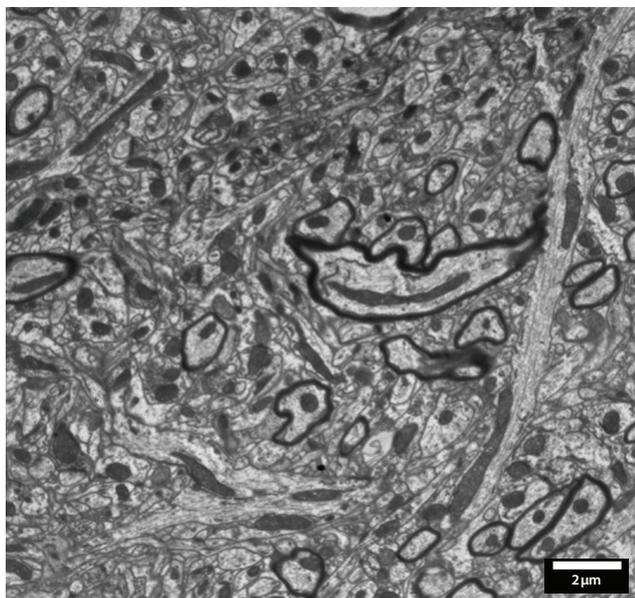
TEM: Mouse brain

Stained section
Neural tissue



TEM: Mouse brain

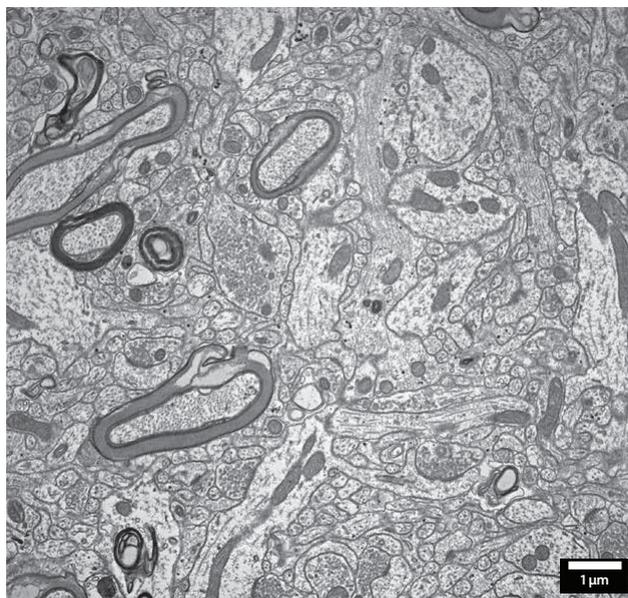
Stained section
Stained section of a neural tissue surrounded with mitochondria-containing myelinated axon



TEM: Myelinated Axons

Stained section

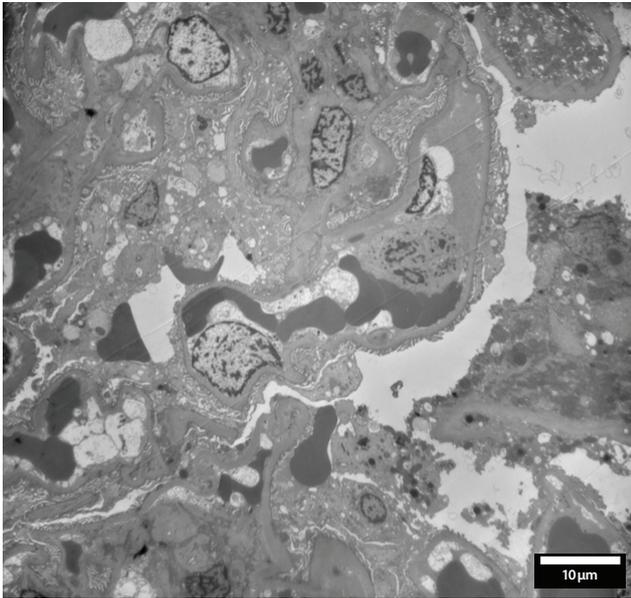
Nerve tissue contrasted by 1% LC, fixed by 1.5% potassium ferrocyanide



TEM: Mouse brain

Stained section

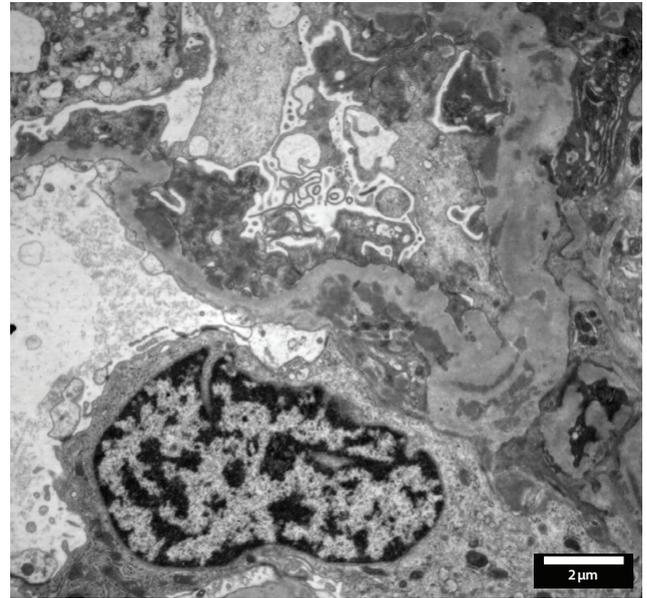
Neural tissue



TEM: Kidney

Stained section

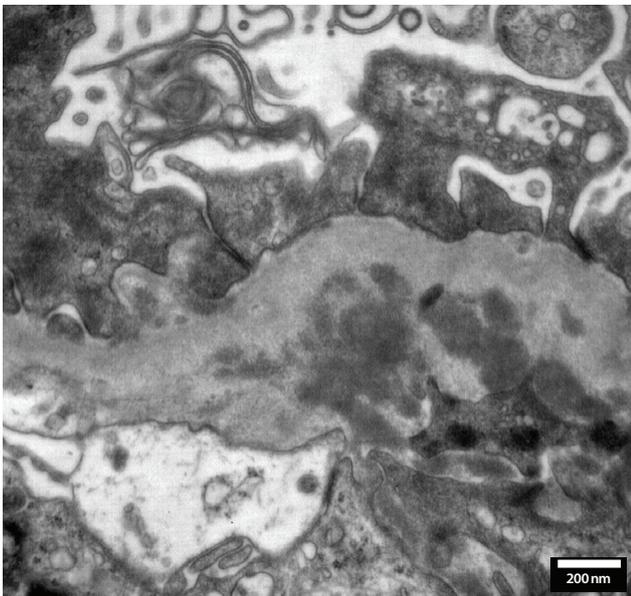
90nm section, block stained by UAc, post-fixed by OsO₄



TEM: Kidney

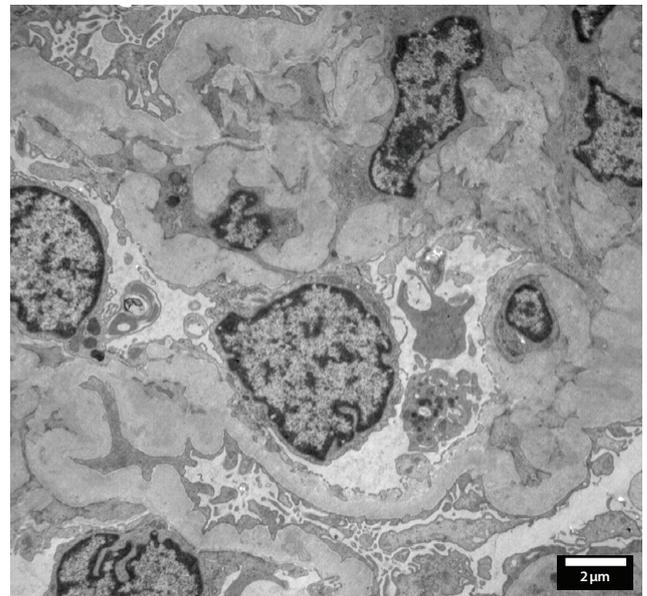
Stained section

Epithel and endothel cells with apparent cell cores



TEM: Kidney

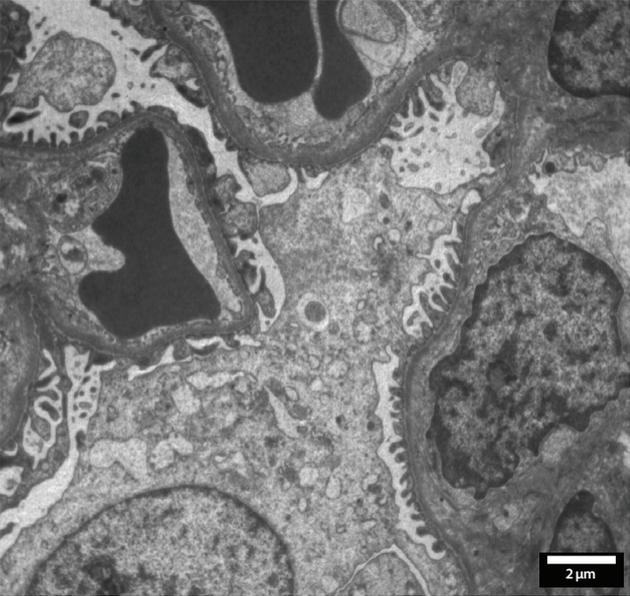
Stained section



TEM: Kidney

Stained section

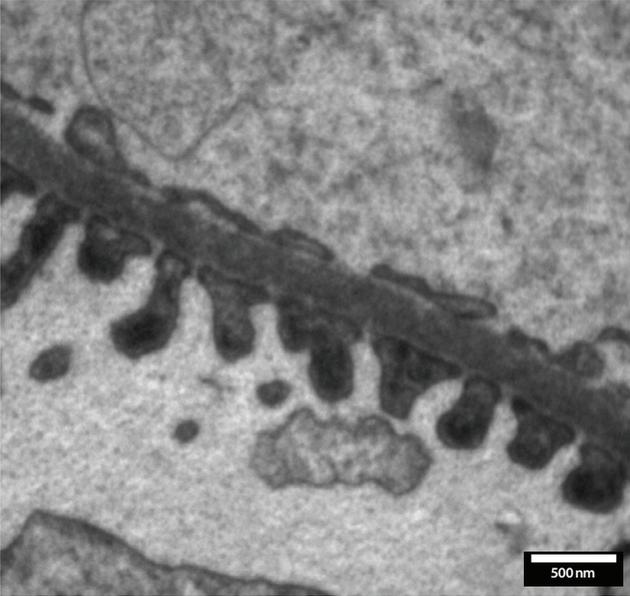
Epithel and endothel cells with apparent cell cores



TEM: Kidney

Stained section

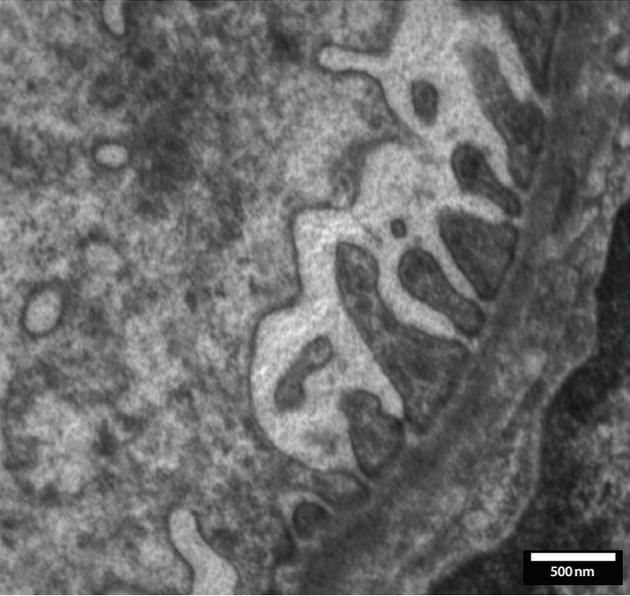
Point of interest: podocytes



TEM: Kidney

Stained section

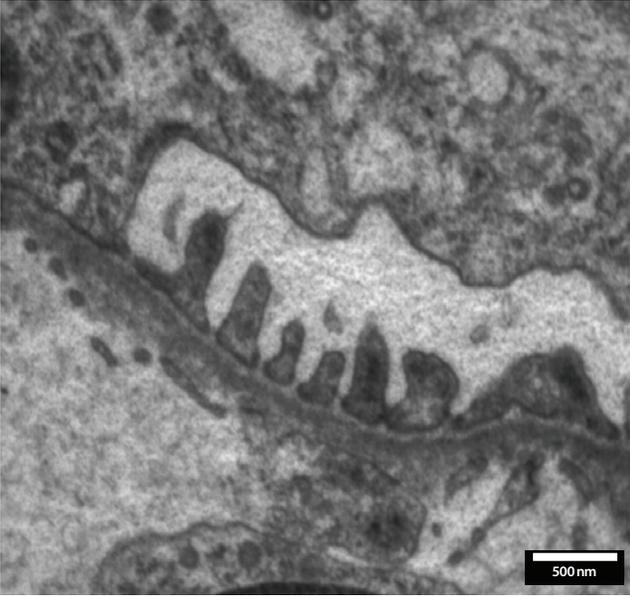
Point of interest: podocytes with details of pedicles



TEM: Kidney

Stained section

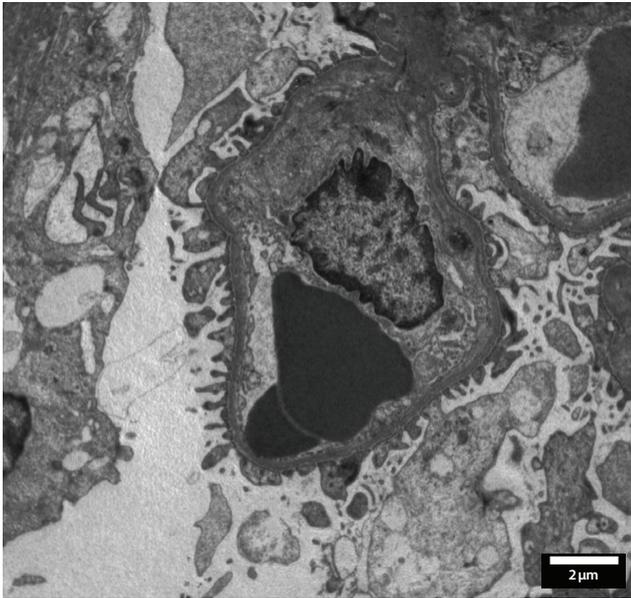
Point of interest: podocytes with details of pedicles



TEM: Kidney

Stained section

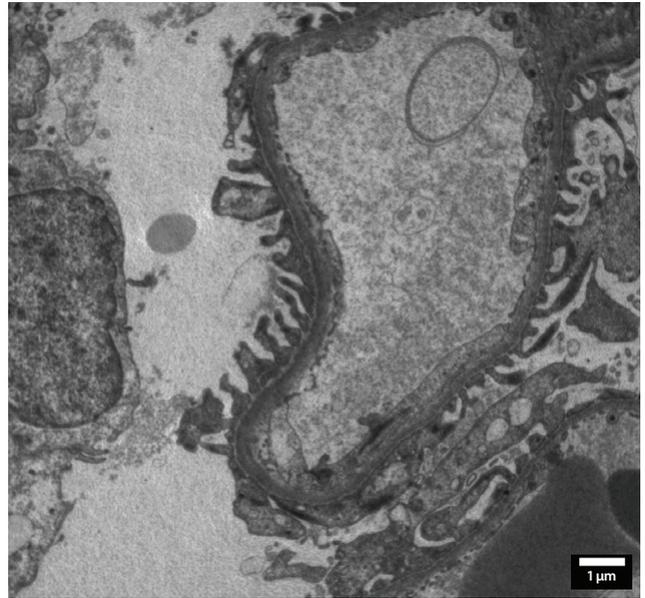
Point of interest: podocytes with details of pedicles



TEM: Kidney

Stained section

Point of interest: podocytes transection showing cell nucleus in the proximity of erythrocytes in capillary



TEM: Kidney

Stained section

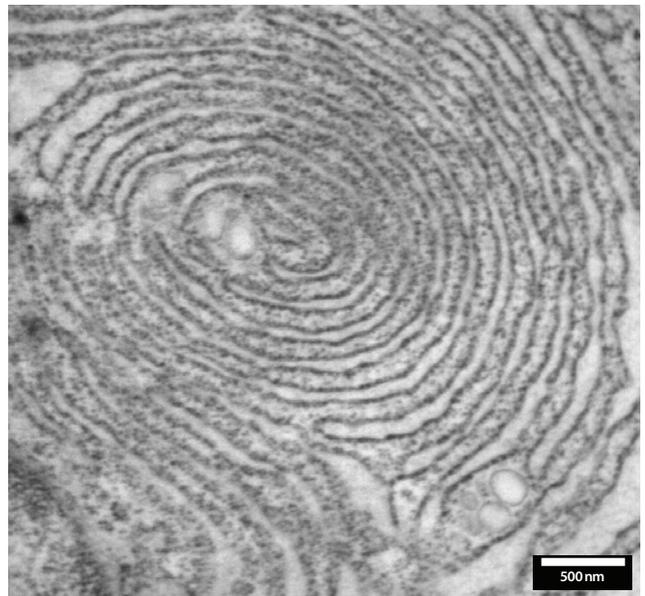
Point of interest: podocytes



TEM: Kidney

Stained section

Point of interest: granular endoplasmic reticulum location in the proximity of epithelial cell nucleus



TEM: Kidney

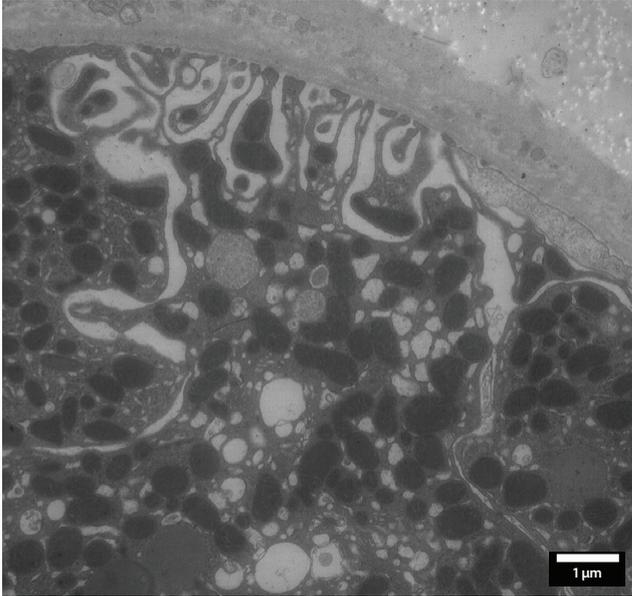
Stained section

Point of interest: detail of granular endoplasmic reticulum



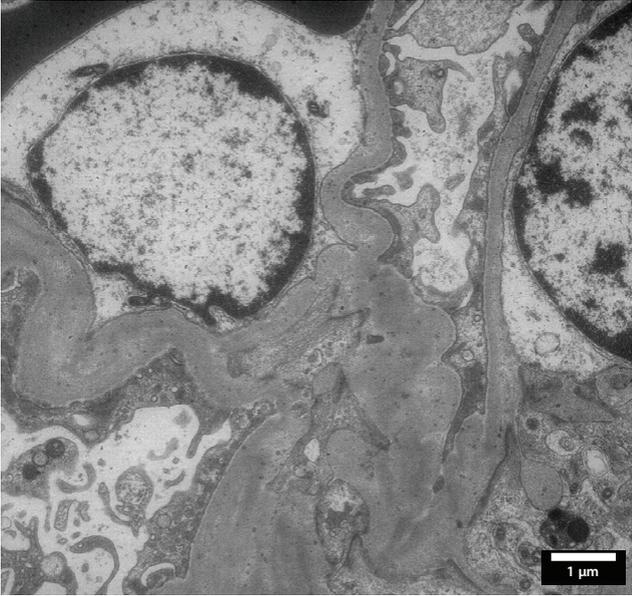
TEM: Kidney

Stained section
Point of interest: mitochondria



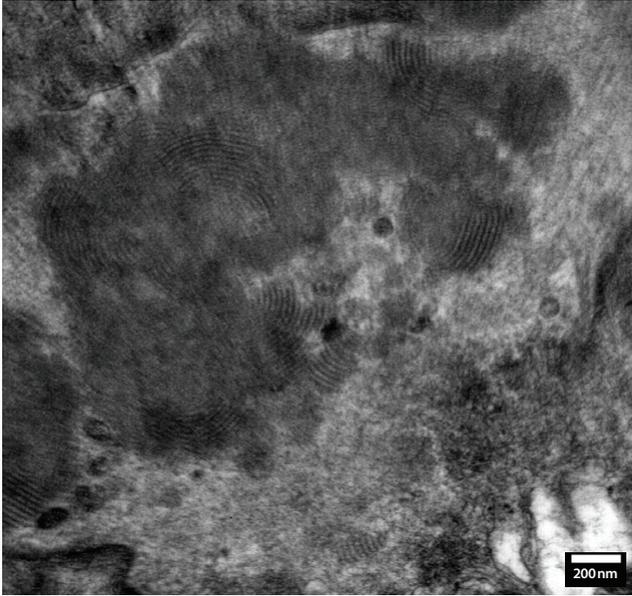
TEM: Kidney

Stained section



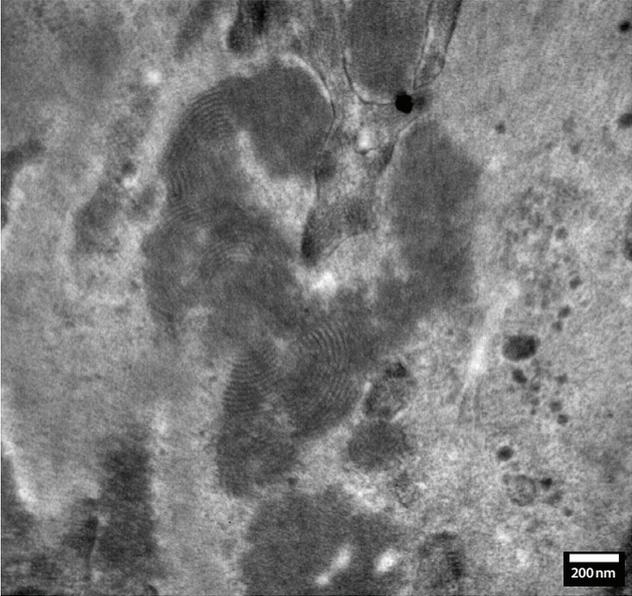
TEM: Kidney

Stained section
Point of interest: basal membrane of glomerulus



TEM: Kidney

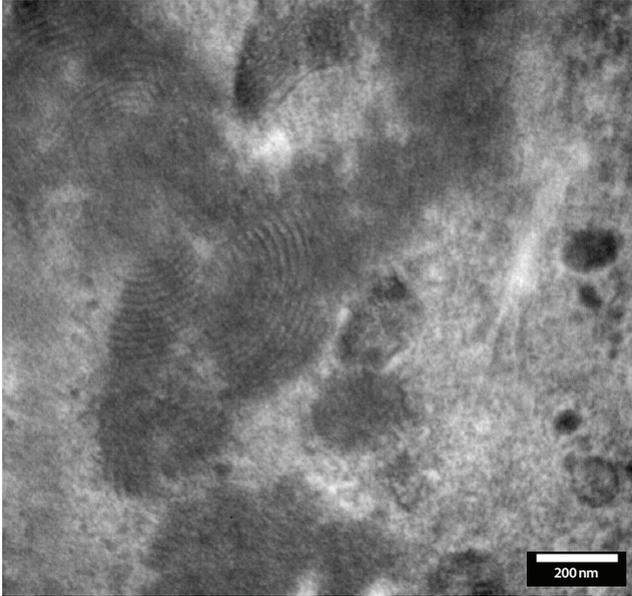
Stained section
Point of interest: fingerprint structure



TEM: Kidney

Stained section

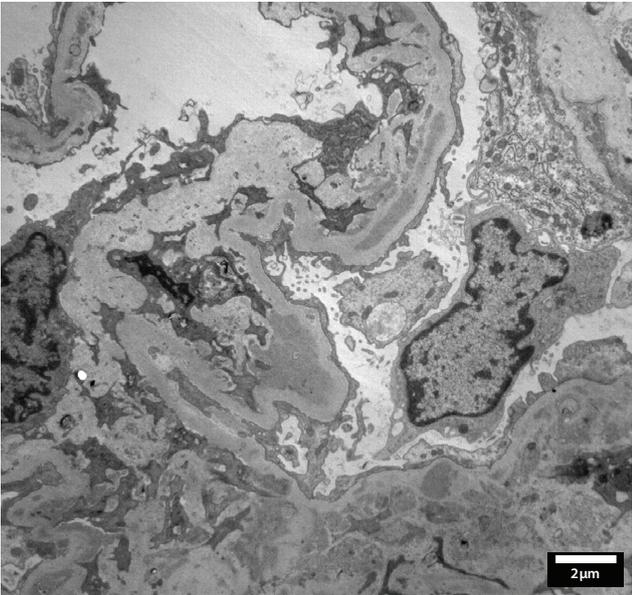
Point of interest: fingerprint structure



TEM: Kidney

Stained section

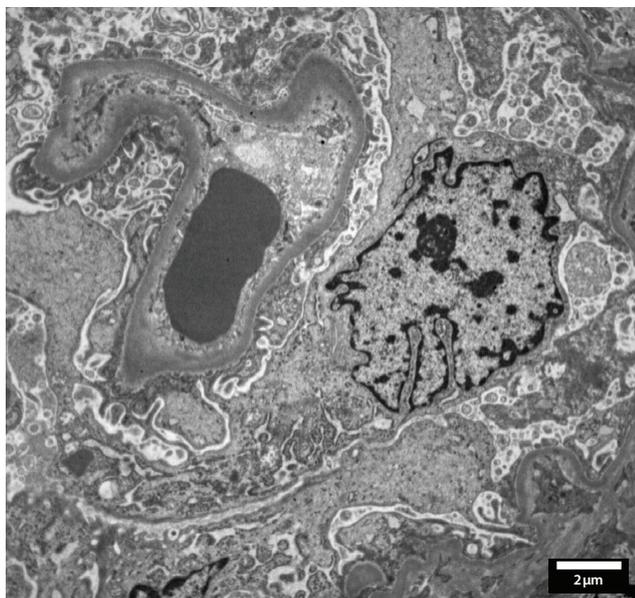
Point of interest: fingerprint structure



Kidney

Stained section

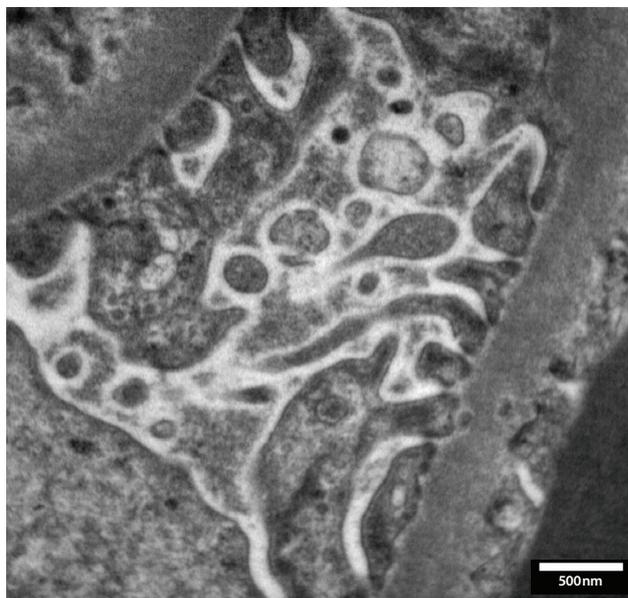
Point of interest: tubulus pathology



TEM: Kidney

Stained section

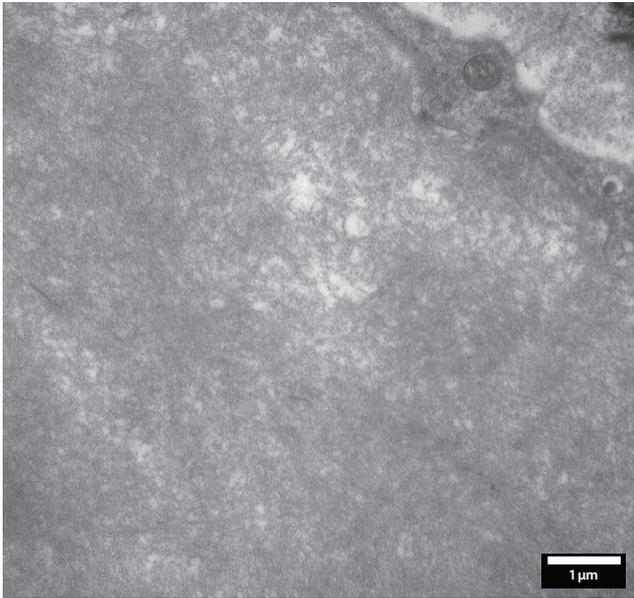
Point of interest: section of renal corpuscle with capillary and podocyte



TEM: Kidney

Stained section

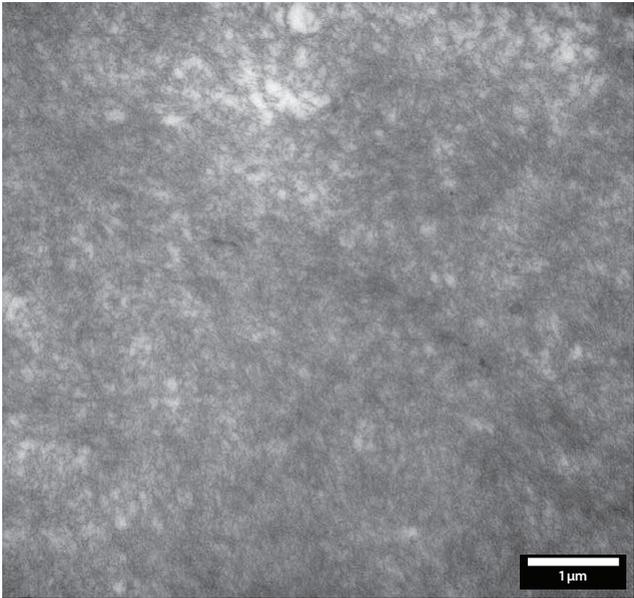
Point of interest: podocyte with details of pedicles



TEM: Kidney

Stained section

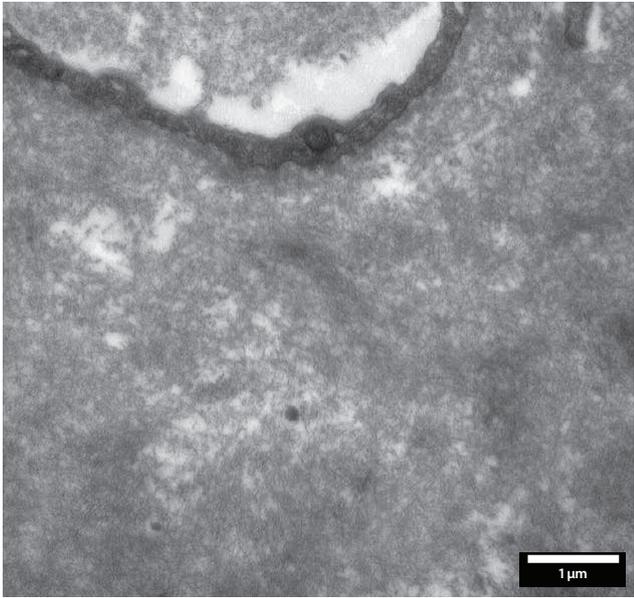
Point of interest: amyloid nephropathy



TEM: Kidney

Stained section

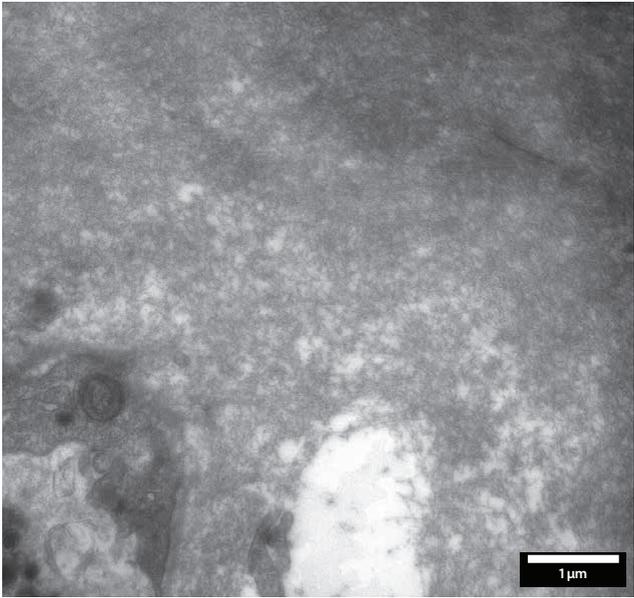
Point of interest: amyloid nephropathy



TEM: Kidney

Stained section

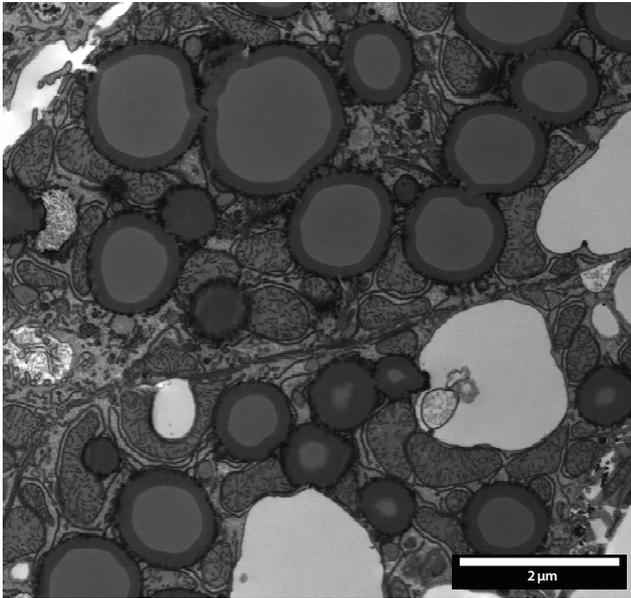
Point of interest: amyloid nephropathy



TEM: Kidney

Stained section

Point of interest: amyloid nephropathy

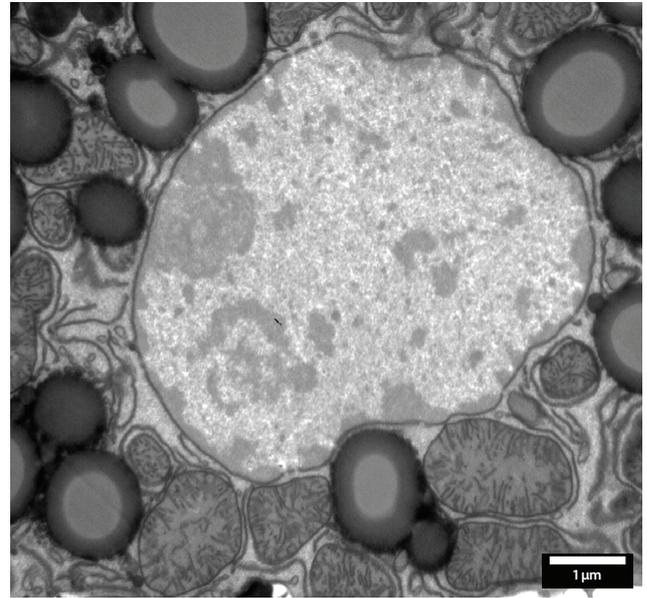


STEM 10 kV: Mouse Liver

Stained section

1% SM/En Acetates.

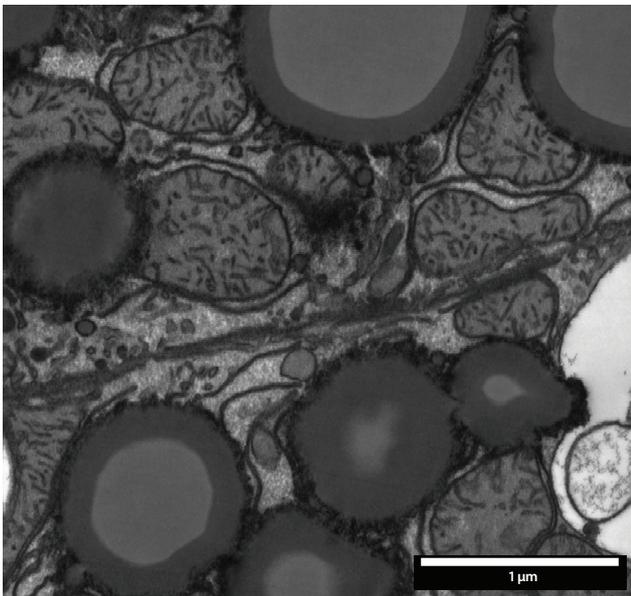
Point of interest: hepatocyte nucleus surrounded by droplets of fat



TEM: Mouse Liver

Stained section

1% SM/En Acetates

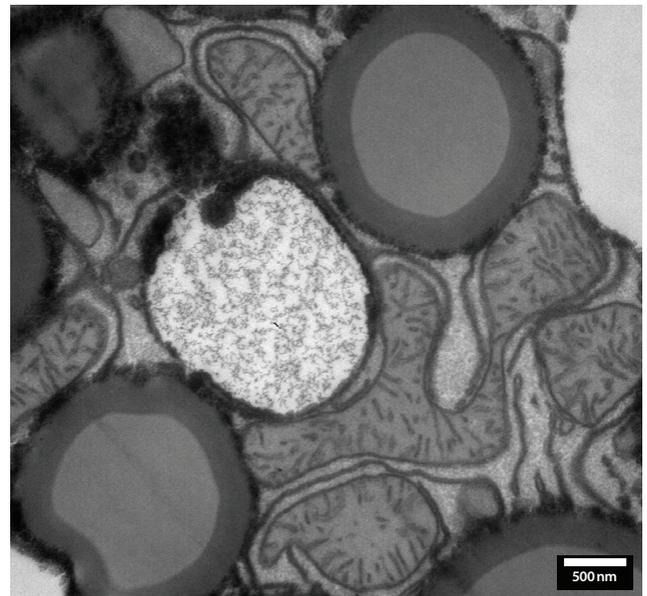


STEM 10 kV: Mouse Liver

Stained section

1% SM/En Acetates

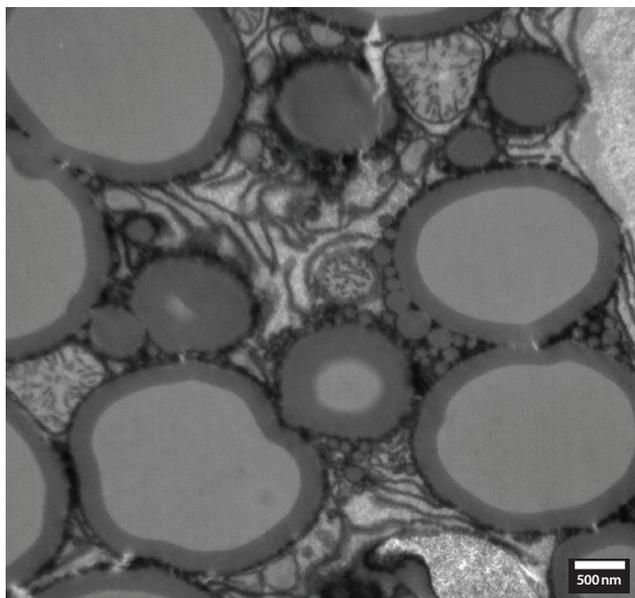
Point of interest: mitochondria of hepatocyte surrounded by droplets of fat



TEM: Mouse Liver

Stained section

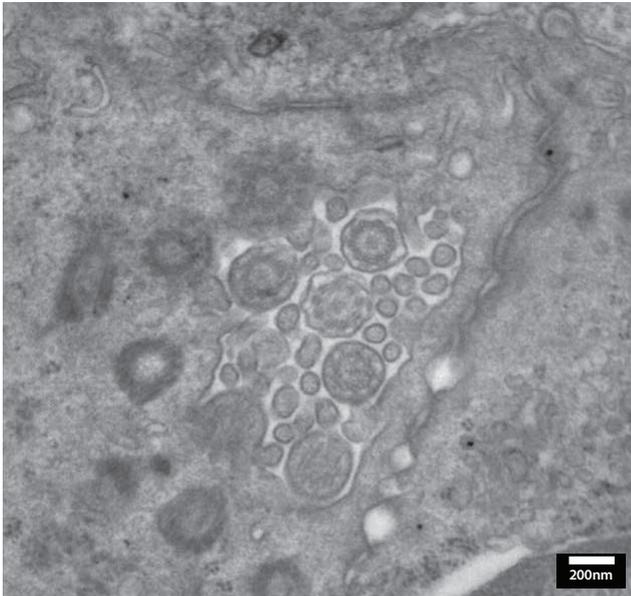
Point of interest: mitochondria of hepatocyte surrounded by droplets of fat



TEM: Mouse Liver

Stained section

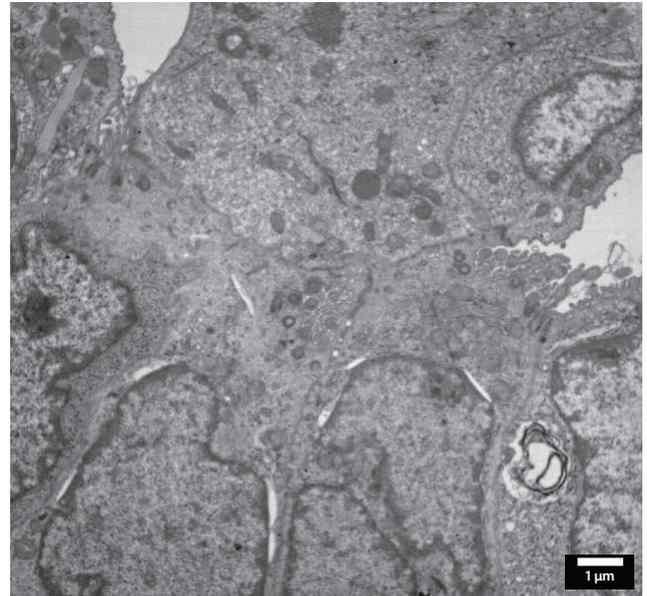
1% SM/En Acetates



TEM: Lungs

Stained section

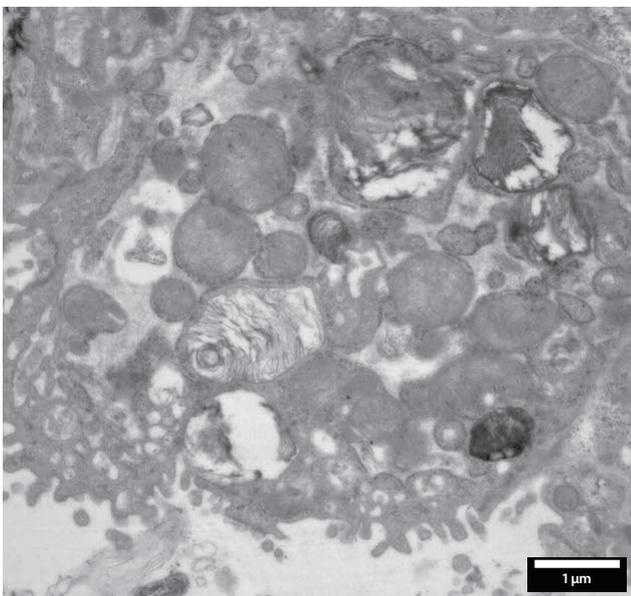
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cilia of epithel cells



TEM: Lungs

Stained section

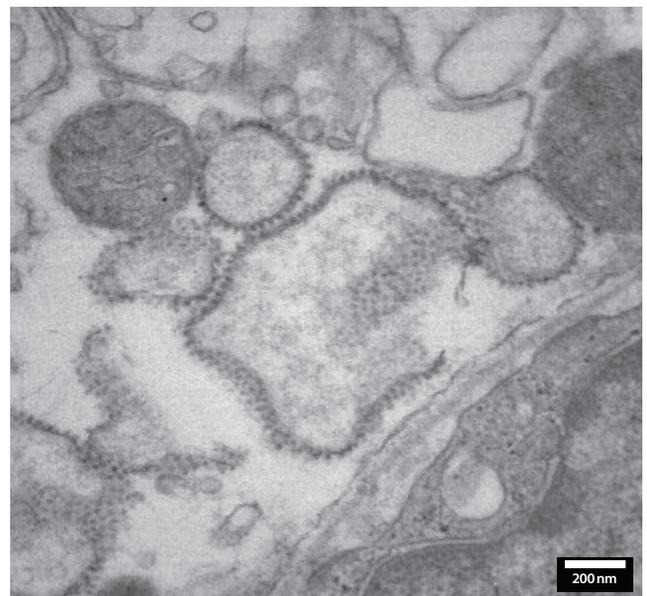
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cross-section of epithel cells with apparent multiple nuclei



TEM: Lungs

Stained section

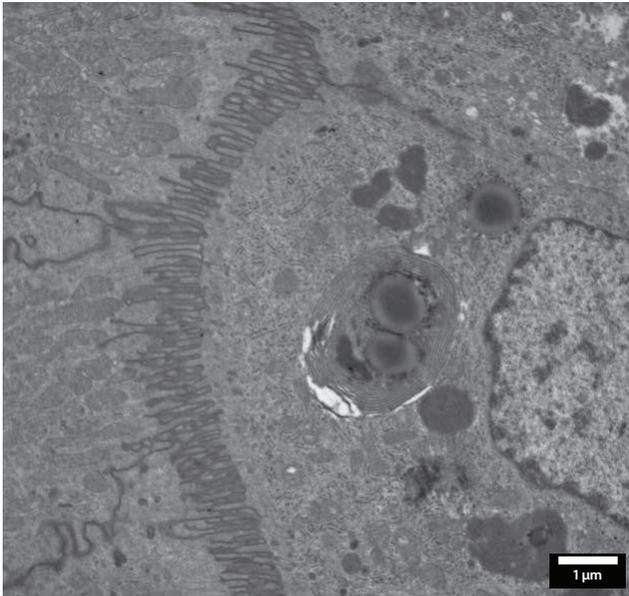
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cross-section of bronchioles with cilia



TEM: Lungs

Stained section

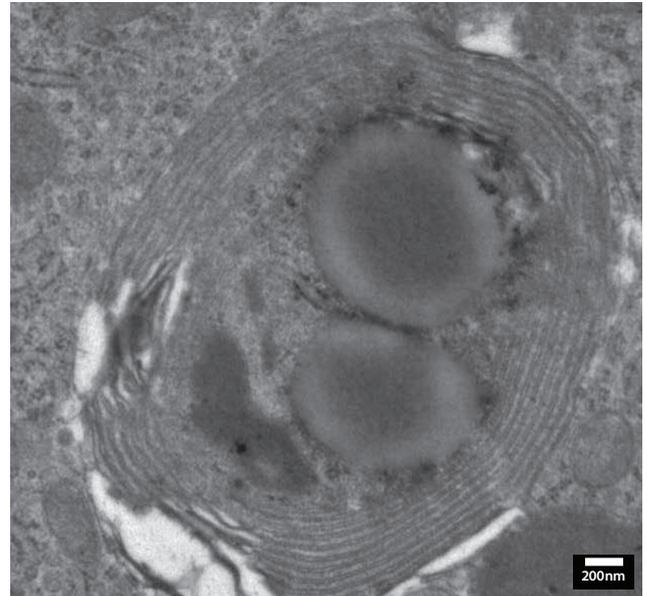
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cross-section of lungs tissue with visible basal membrane of epithel cell.



TEM: Lungs

Stained section

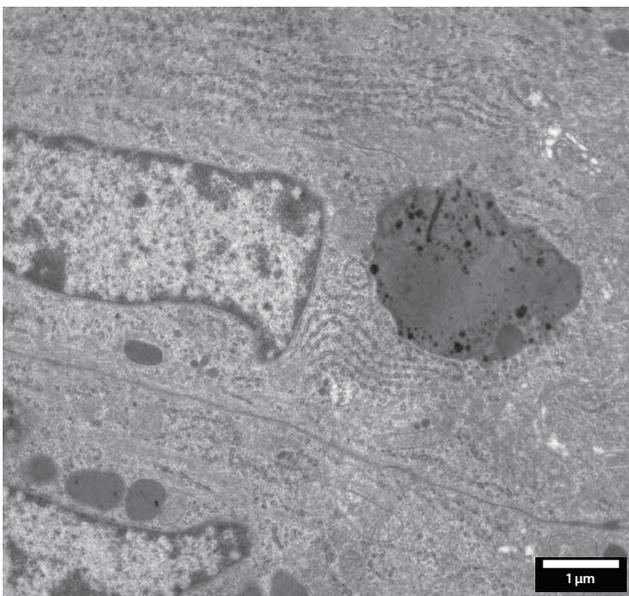
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cilia brush border



TEM: Lungs

Stained section

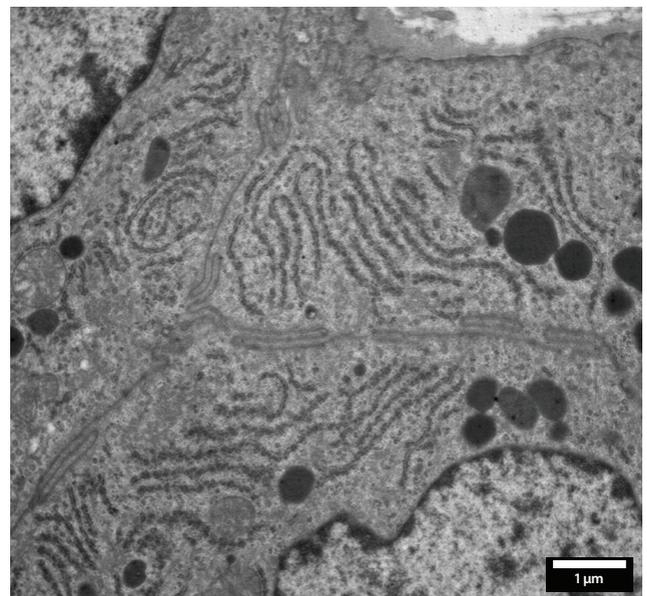
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: granular endoplasmic reticulum



TEM: Lungs

Stained section

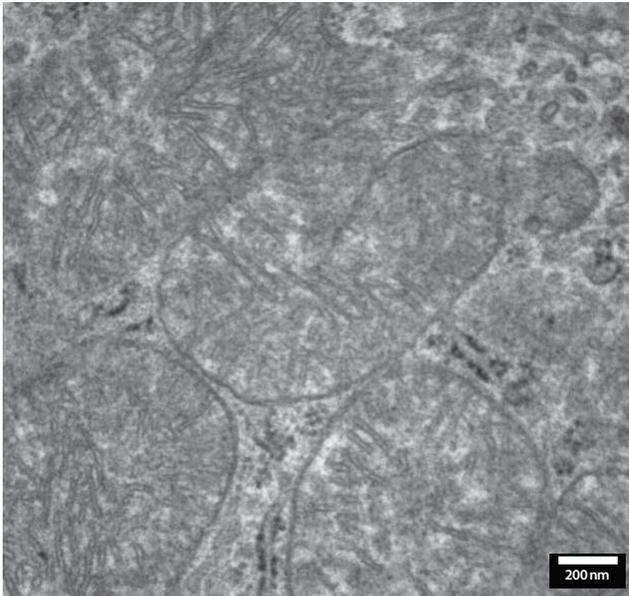
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: endoplasmatic reticulum cisternae surrounding the cell nucleus



TEM: Lungs

Stained section

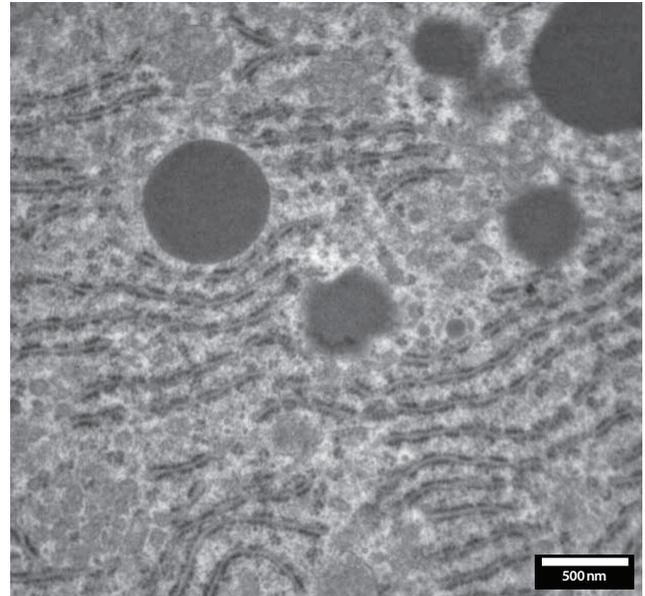
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: granular endoplasmatic reticulum cisternae



TEM: Lungs

Stained section

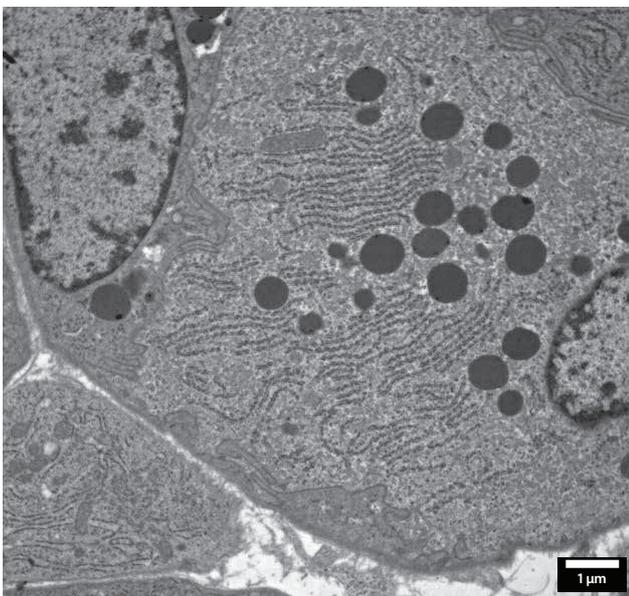
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: mitochondria with visible cristae



TEM: Lungs

Stained section

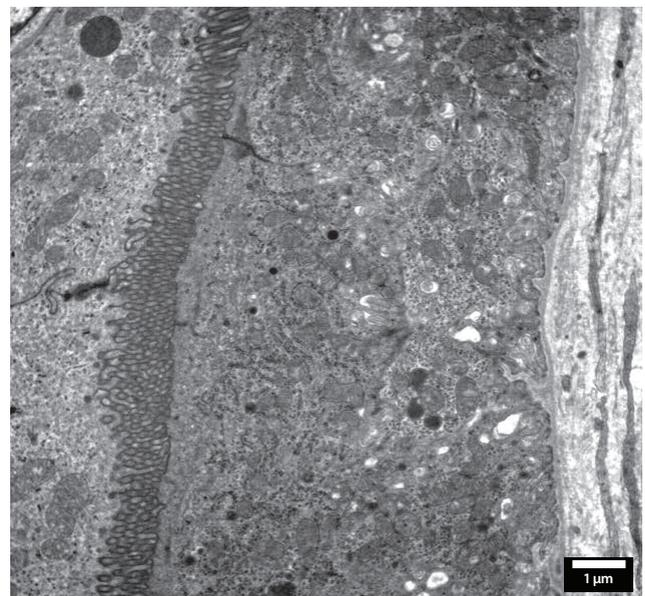
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Detail of GER: cisterns and fat droplets



TEM: Lungs

Stained section

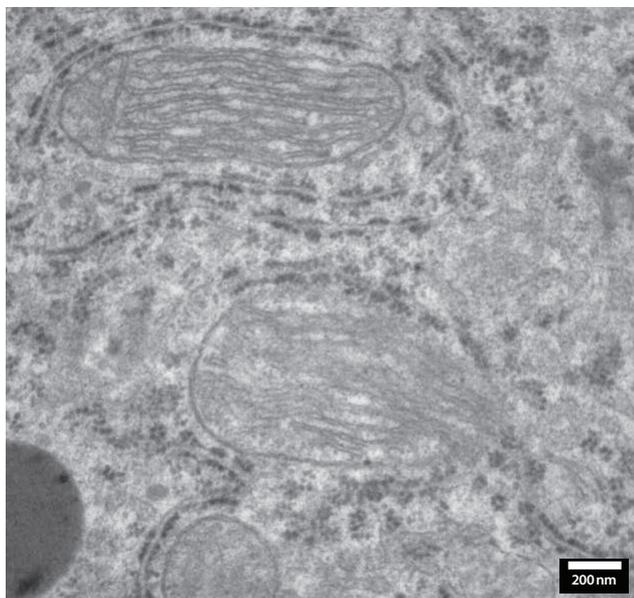
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Cross-section of lung cell: apparent granular endoplasmatic reticulum, cell nuclei and fat droplets



TEM: Lungs

Stained section

Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cilia brush border



TEM: Lungs

Stained section

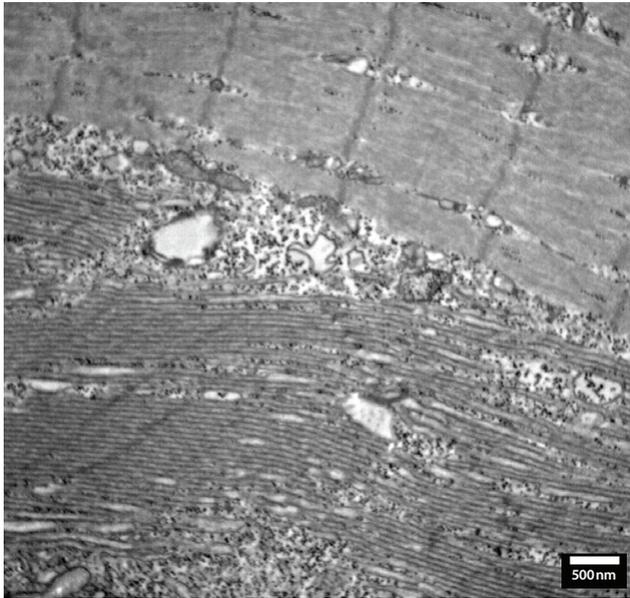
Epon embedded, 85 nm section, chemically fixed, with UAc/Pb staining and coated with 2nm carbon.
Point of interest: mitochondria



TEM: Lungs

Stained section

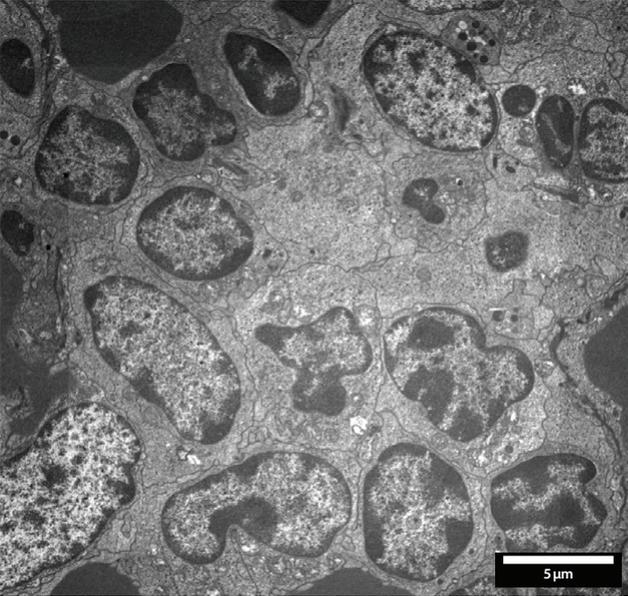
Epon embedded, 85 nm section, chemically fixed, with Uranylless/Pb staining and coated with 2nm carbon.
Point of interest: cross-section of free cell in lung tissue



TEM: Muscle

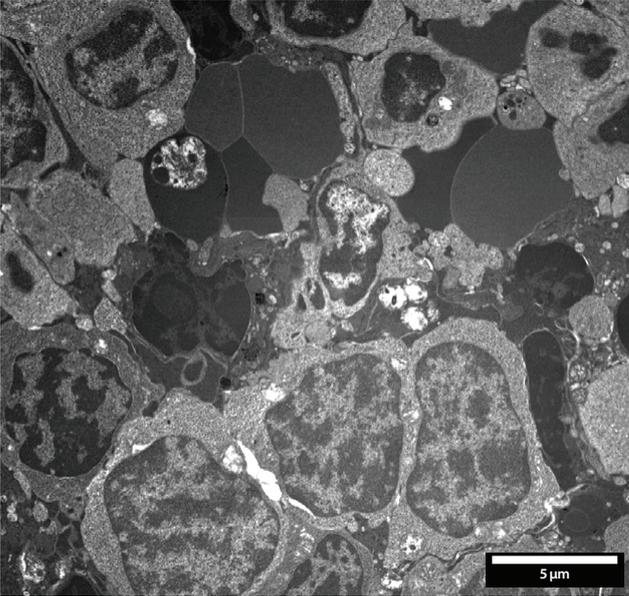
Unstained section

Structure of muscle cell: visible Z-lines, actin and myosin filaments



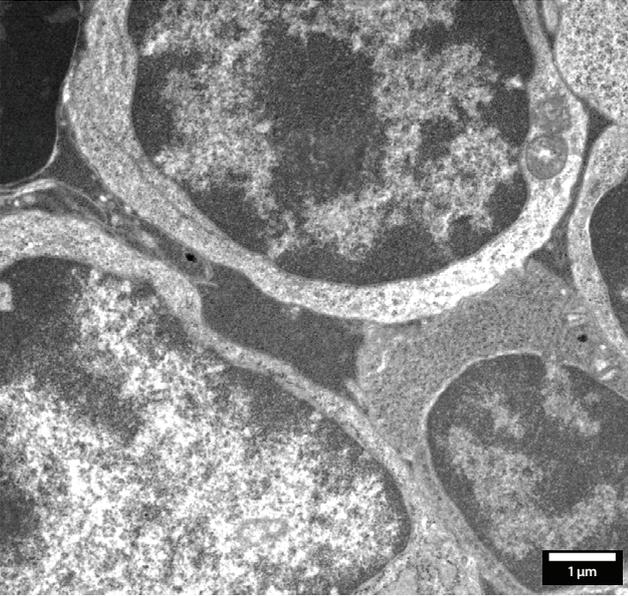
STEM 15 kV: Spleen

Stained section, 70 nm



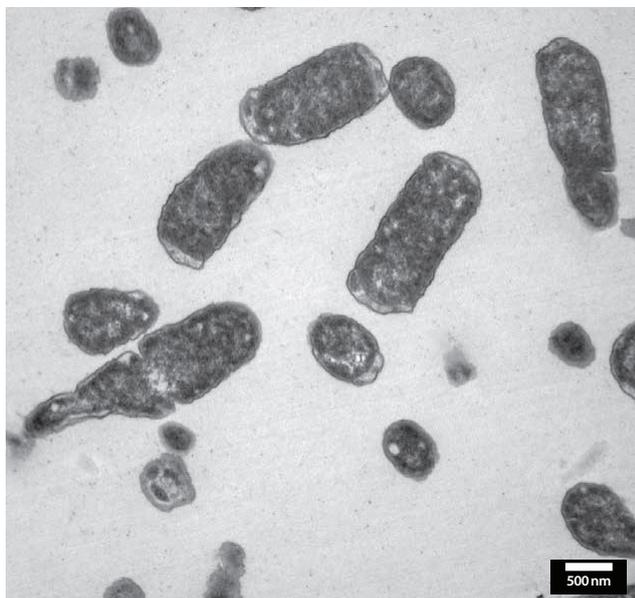
STEM 15 kV: Spleen

Stained section, 70 nm



STEM 15 kV: Spleen

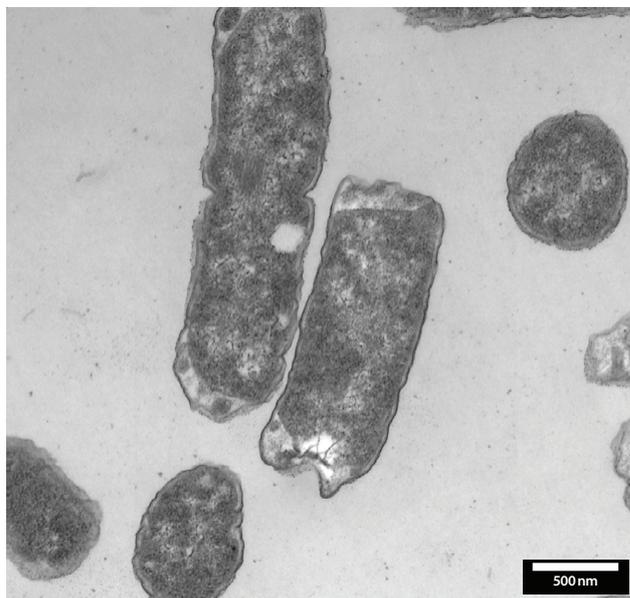
Stained section, 70 nm



TEM: E. coli

Ultrathin section

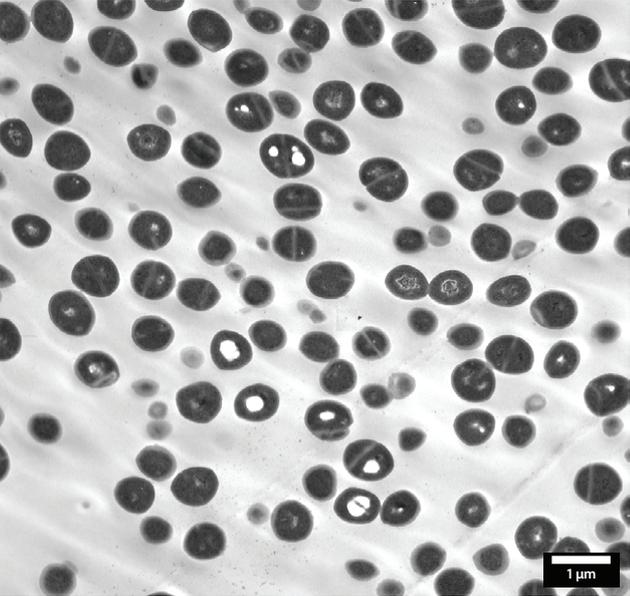
Point of interest: Inner structure, size and shape



STEM: E. coli

Ultrathin section

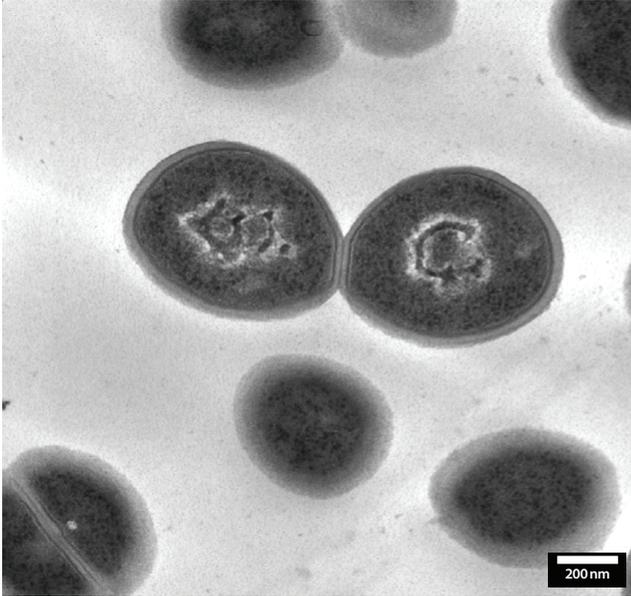
Point of interest: Inner structure, size and shape



STEM: S. aureus

Ultrathin section

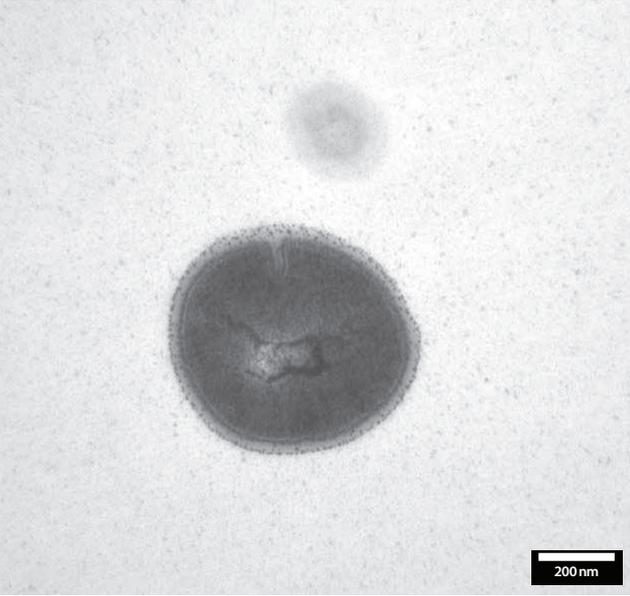
Point of interest: Inner structure, size and shape



STEM: S. aureus

Ultrathin section

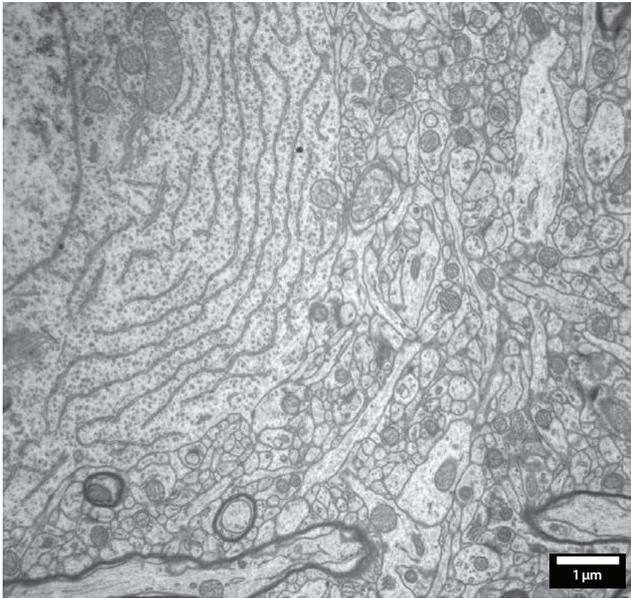
Point of interest: Inner structure, size and shape



TEM: S. aureus

Ultrathin section

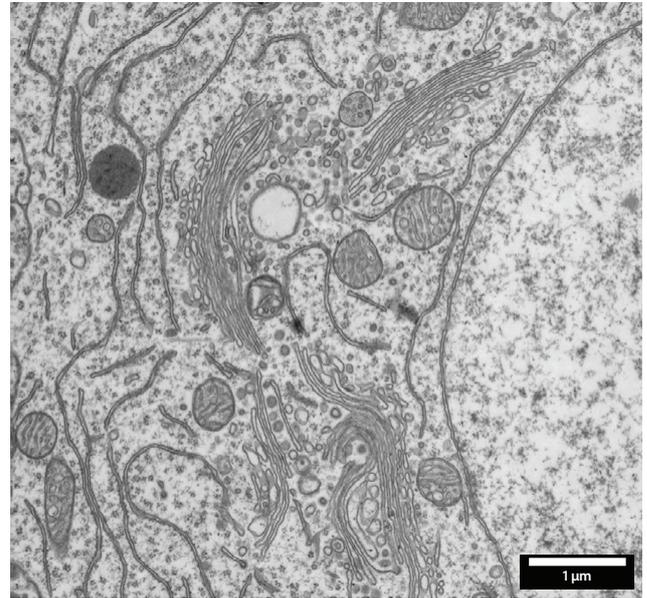
Point of interest: Inner structure, size and shape



STEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

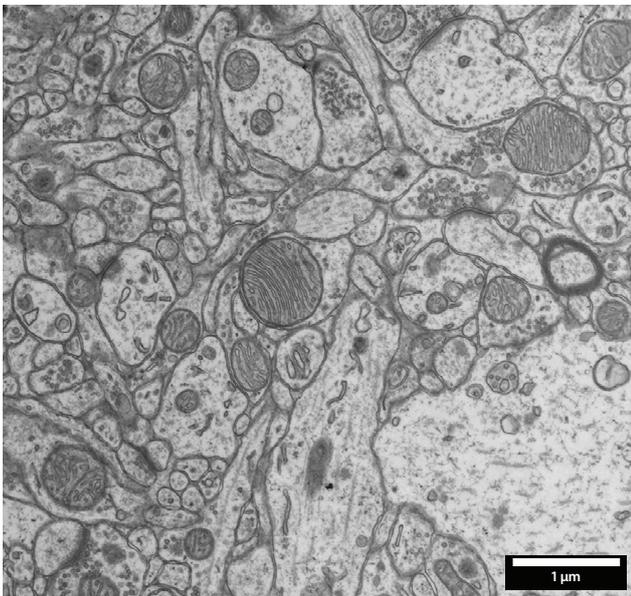
Point of interest: ultrastructure of neural tissue



STEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

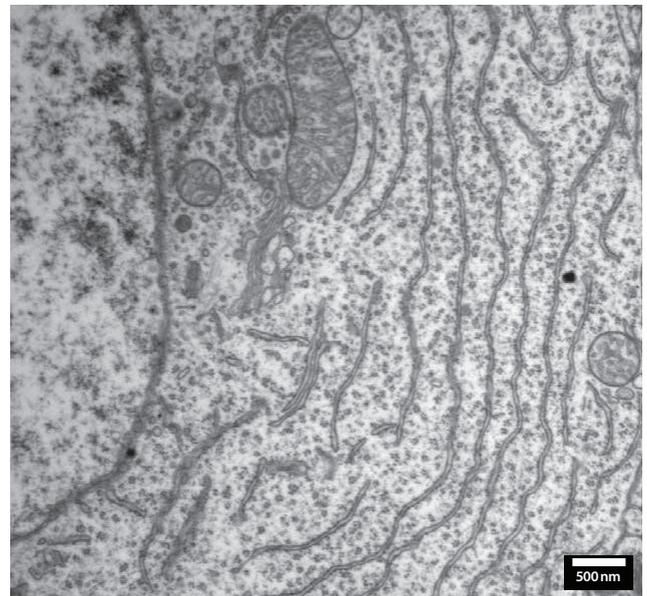
Point of interest: ultrastructure of neural tissue



TEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

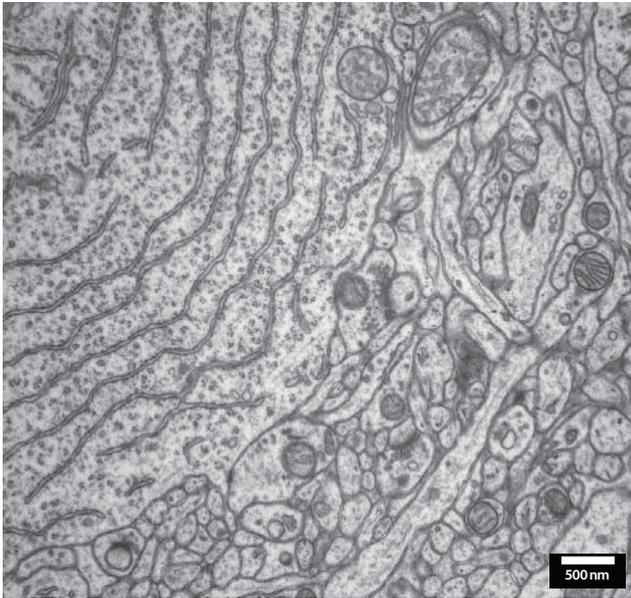
Point of interest: ultrastructure of neural tissue



TEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

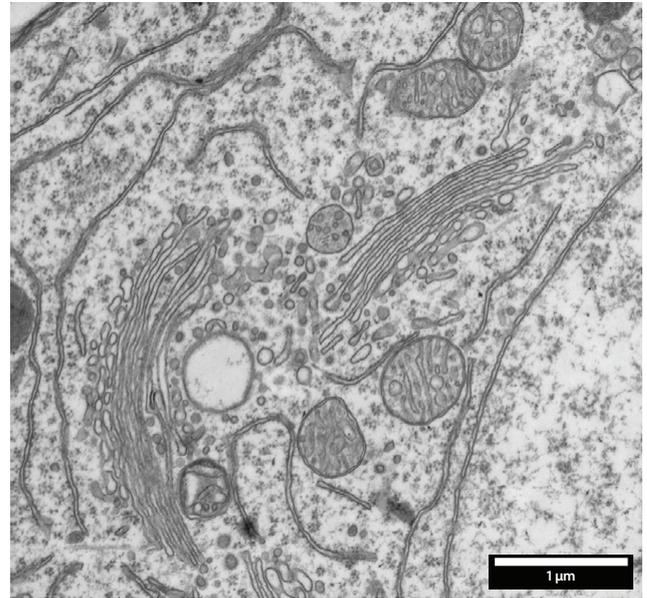
Point of interest: rough endoplasmatic reticulum



TEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

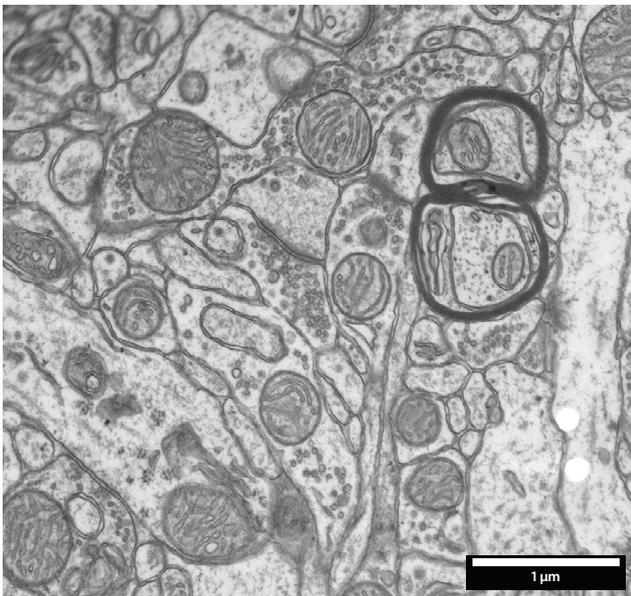
Point of interest: rough endoplasmatic reticulum



STEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

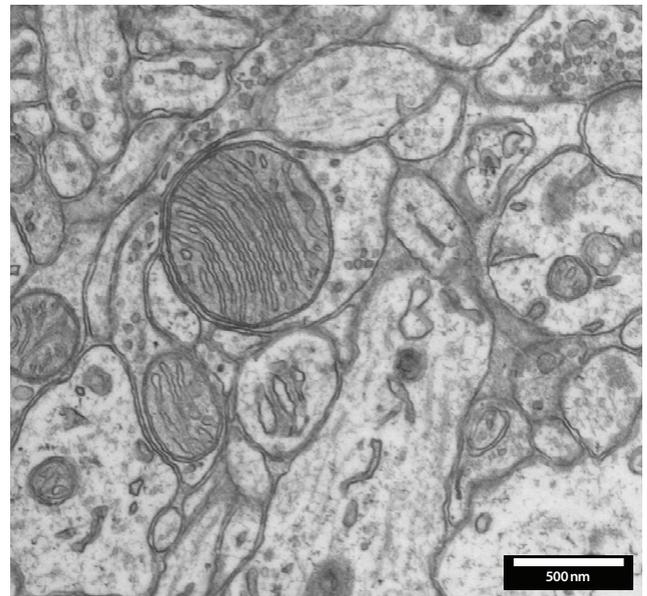
Point of interest: mitochondria, rough endoplasmatic reticulum, Golgi apparatus, nucleus



STEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

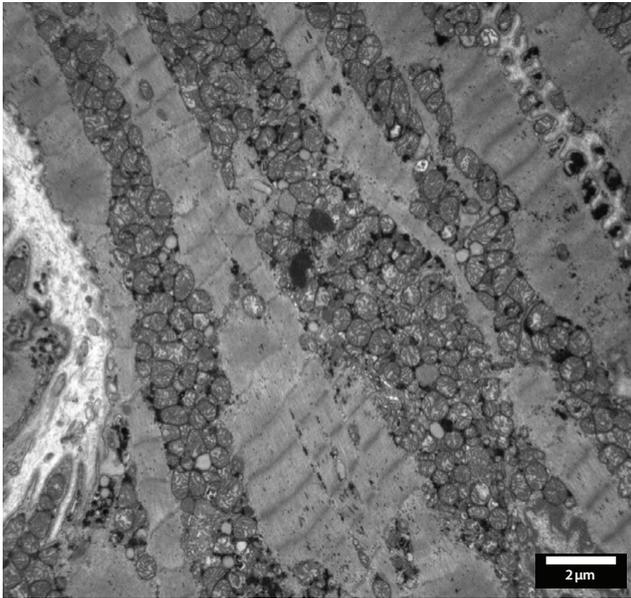
Point of interest: ultrastructure of neural tissue, myelinated axon



STEM: Brain

Ultrathin stained section with reduced concentration of OsO₄ (0.2 %)

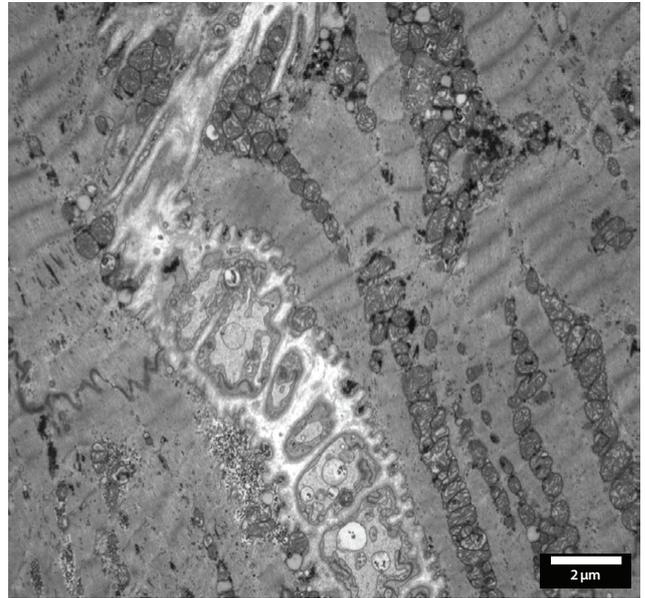
Point of interest: mitochondria



TEM: Heart Biopsy

Ultrathin section

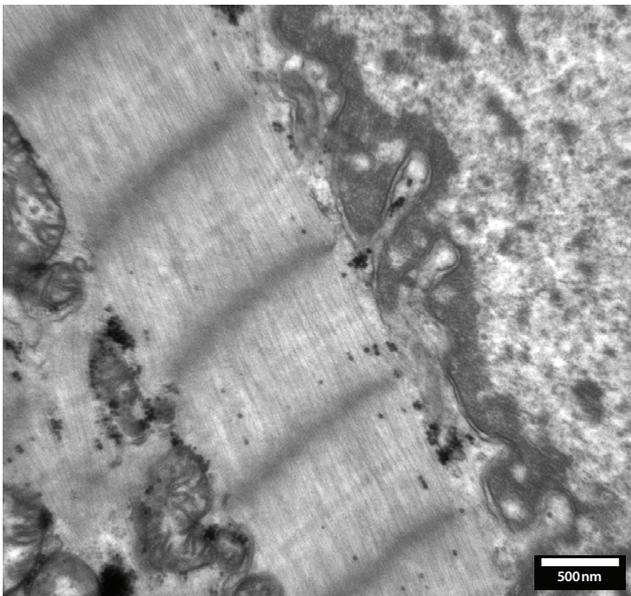
Point of interest: muscle structure including actin and myosinfilaments.



TEM: Heart Biopsy

Ultrathin section

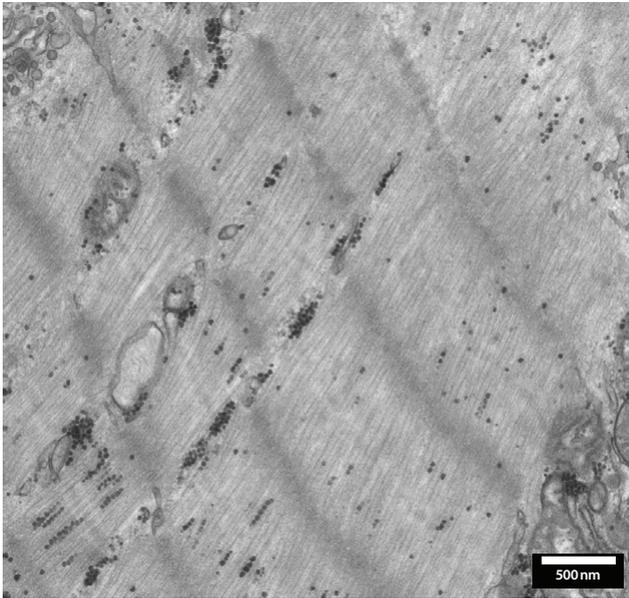
Point of interest: muscle structure including actin and myosinfilaments.



TEM: Heart Biopsy

Ultrathin section

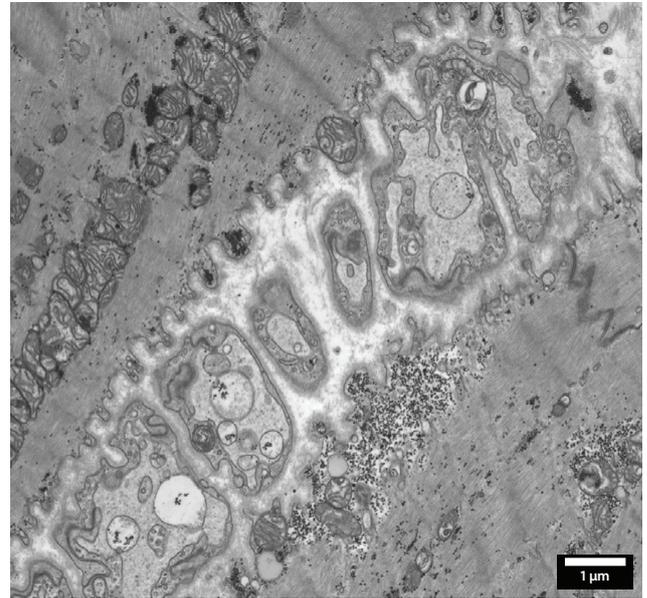
Point of interest: muscle structure including actin and myosinfilaments.



STEM: Heart Biopsy

Ultrathin section

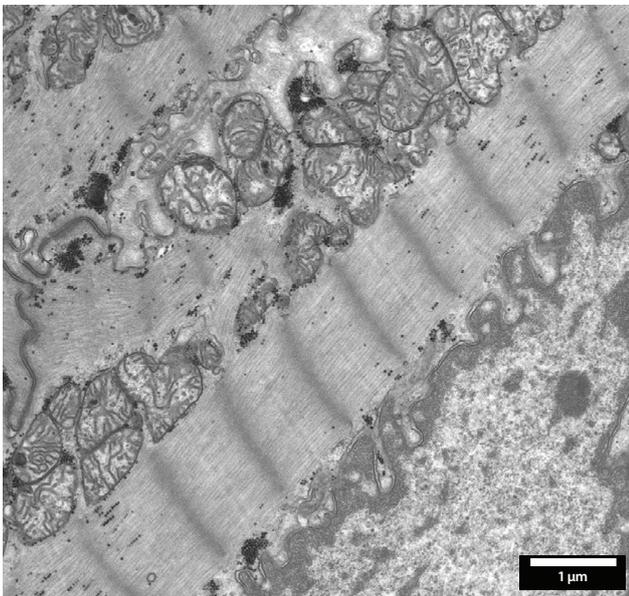
Point of interest: muscle structure including actin and myosinfilaments.



STEM: Heart Biopsy

Ultrathin section

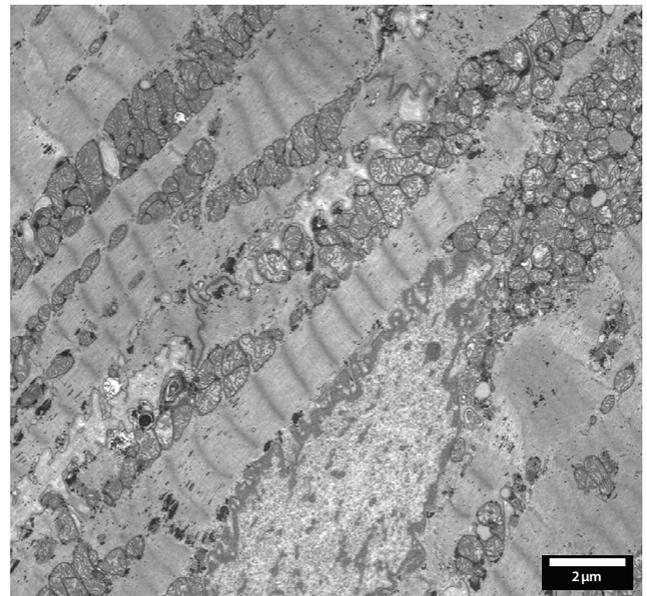
Point of interest: muscle structure including actin and myosinfilaments.



STEM: Heart Biopsy

Ultrathin section

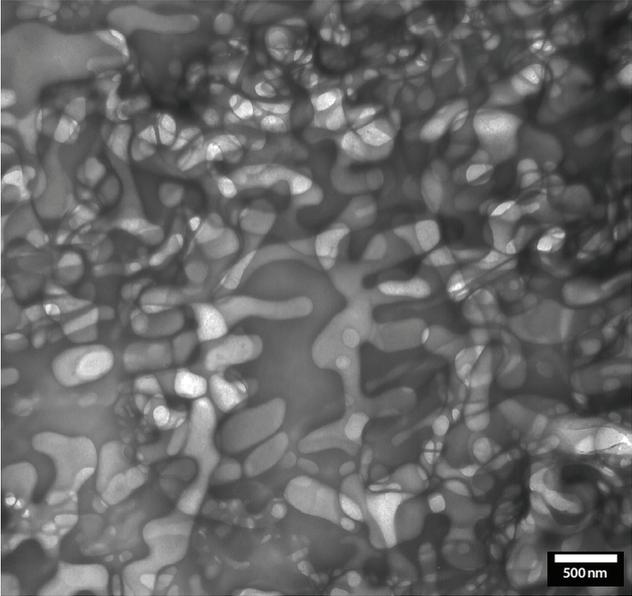
Point of interest: muscle structure including actin and myosinfilaments.



STEM: Heart Biopsy

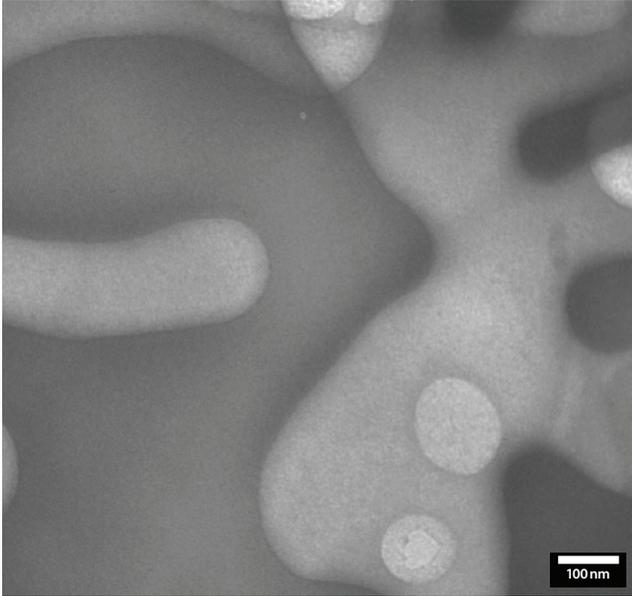
Ultrathin section

Point of interest: muscle structure including actin and myosinfilaments.



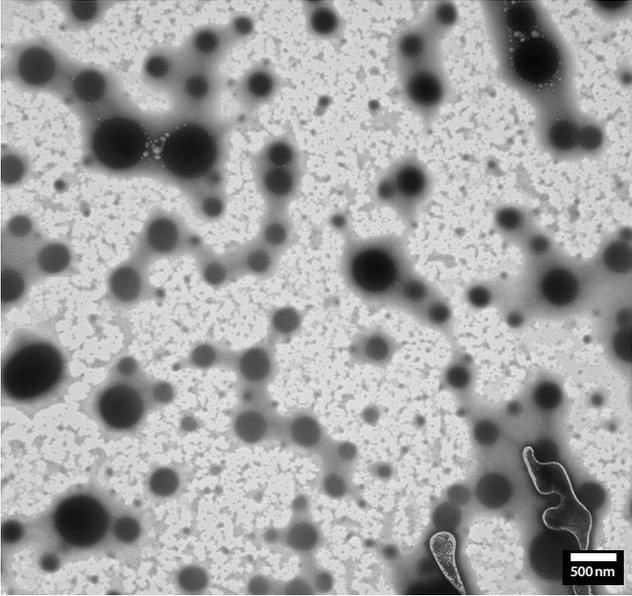
TEM: Liposomes on Carbon

Particles on carbon film



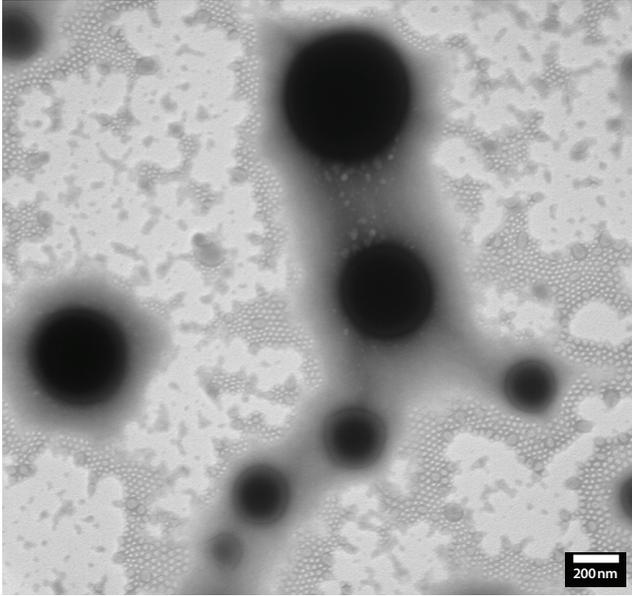
TEM: Liposomes on Carbon

Particles on carbon film



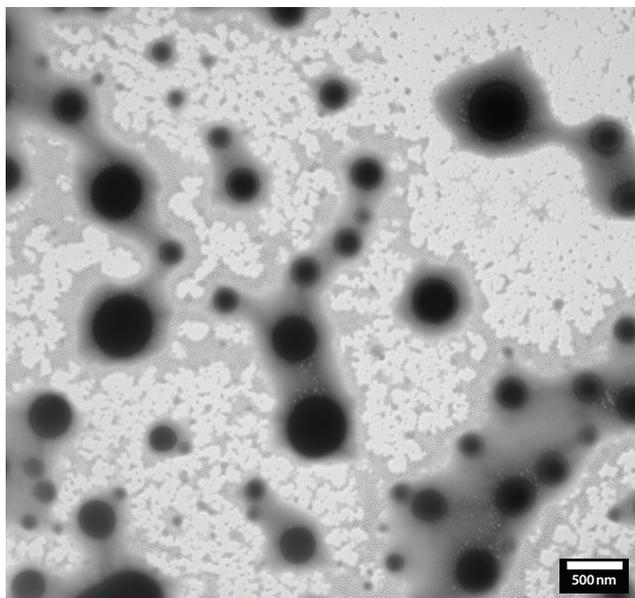
TEM: Bupivacaine Liposomes

Particles on carbon film
Bupivacaine in aqueous solution



TEM: Bupivacaine Liposomes

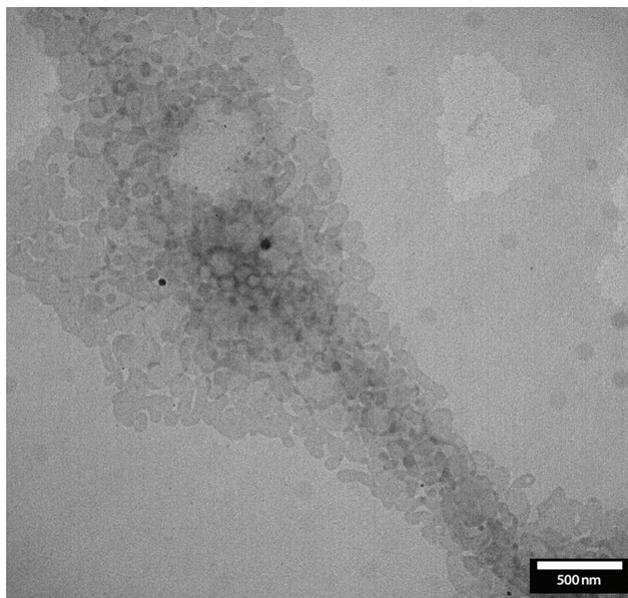
Particles on carbon film
Bupivacaine in aqueous solution



TEM: Bupivacaine Liposomes

Particles on carbon film

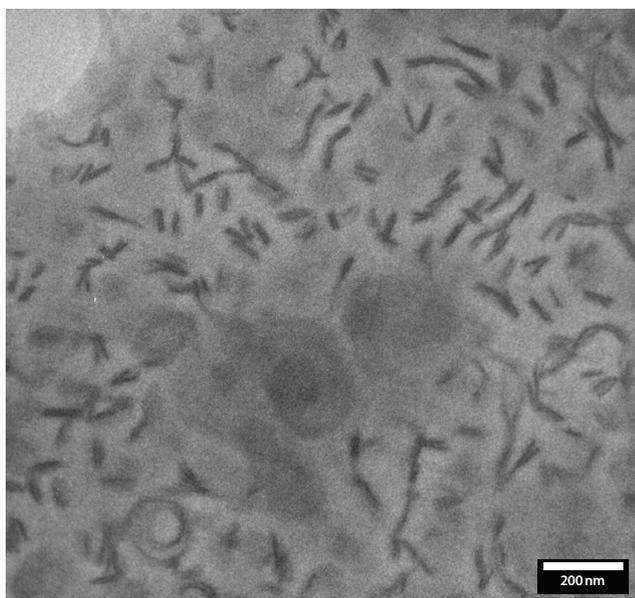
Bupivacaine in aqueous solution



TEM: Peg and Liposome Formulation

Particles on carbon film

Liposomes dispersed in 5% dextrose in water



TEM: Liposomes

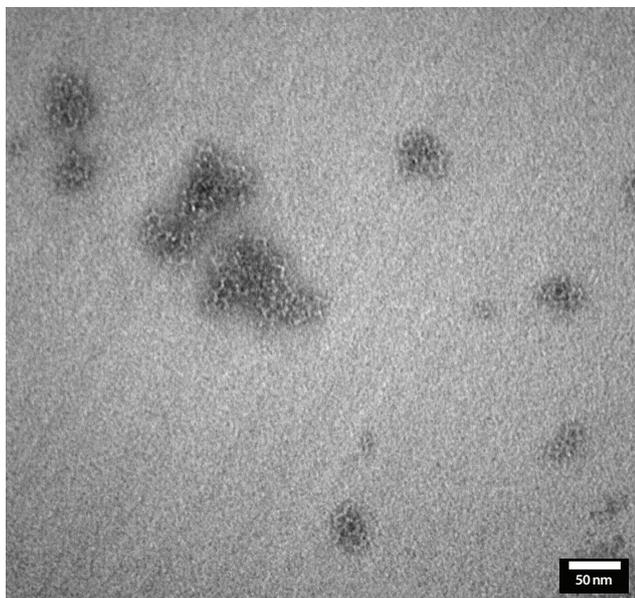
Particles on carbon film



TEM: Taxol

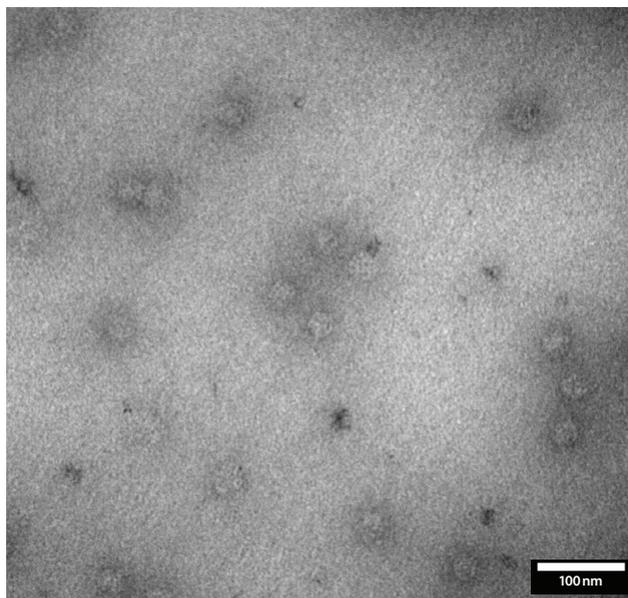
Particles on carbon film

Organic fibers of plant alkaloid – cytotoxic chemotherapy drug



TEM: I301 Nanocage

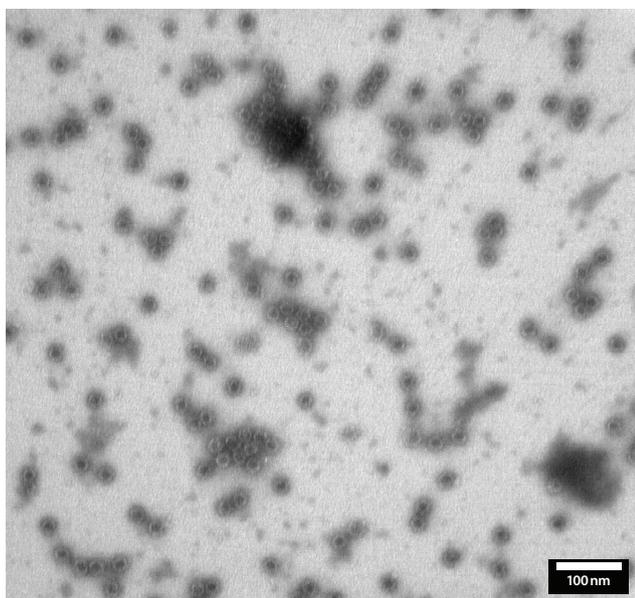
Stained particles on carbon film



TEM: I301 Nanocage with GFP

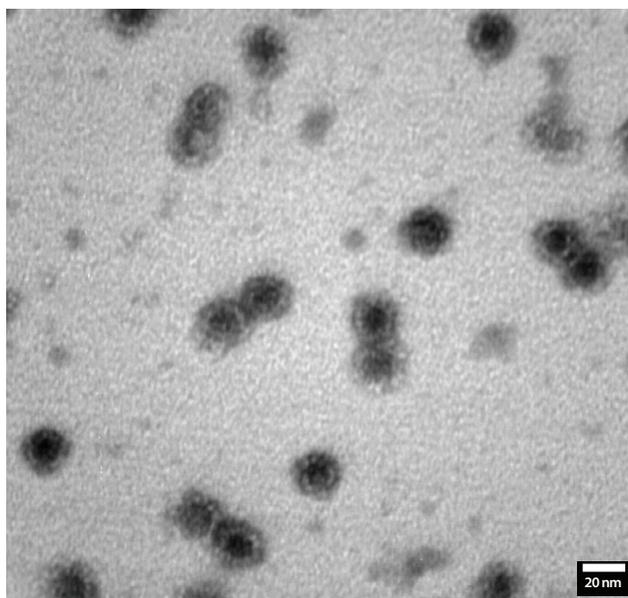
Stained particles on carbon film

Nanoparticles with green fluorescent protein



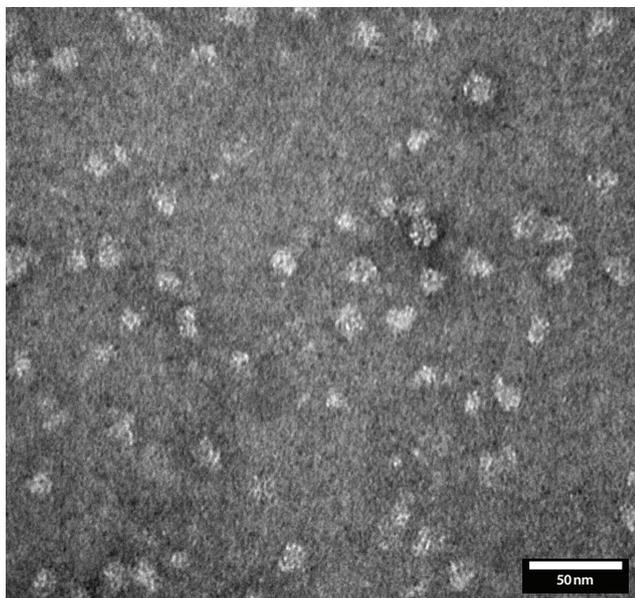
TEM: Nanocages

Particles on carbon film



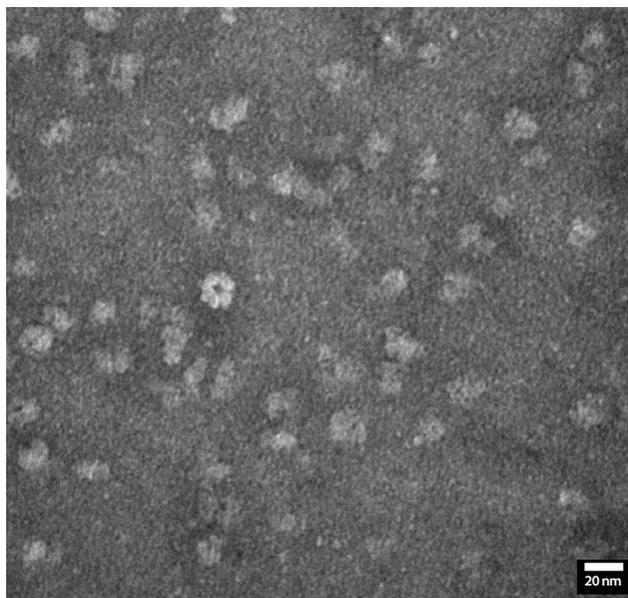
TEM: Nanocages

Particles on carbon film



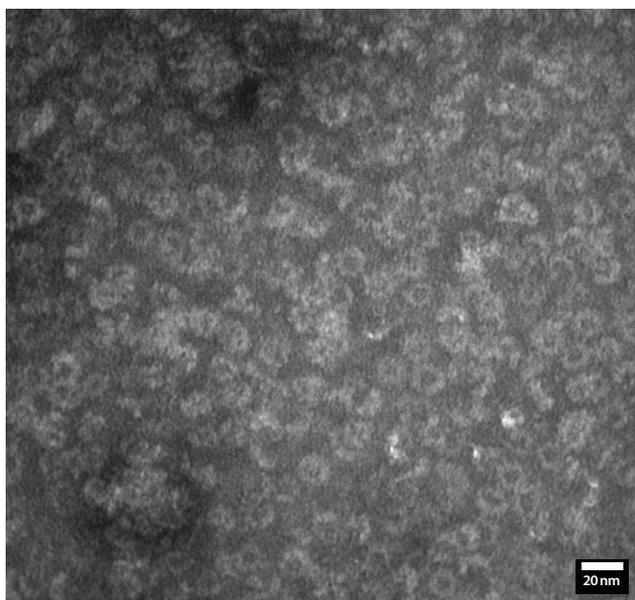
TEM: Stained Proteins

Stained particles on carbon film



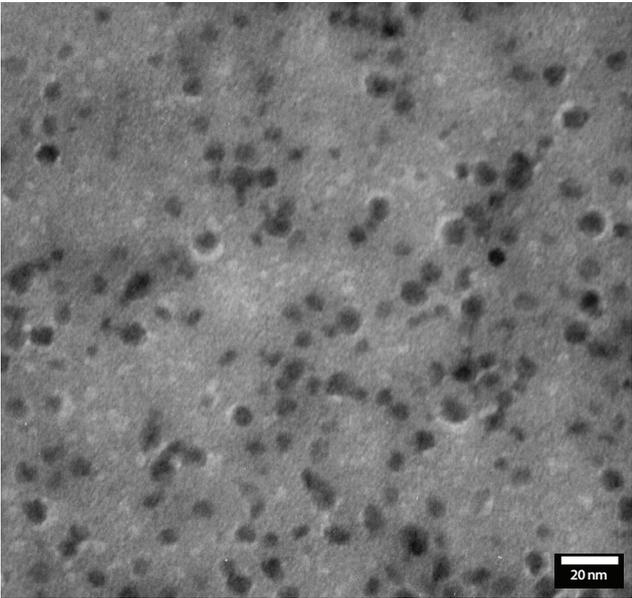
TEM: Stained Proteins

Stained particles on carbon film



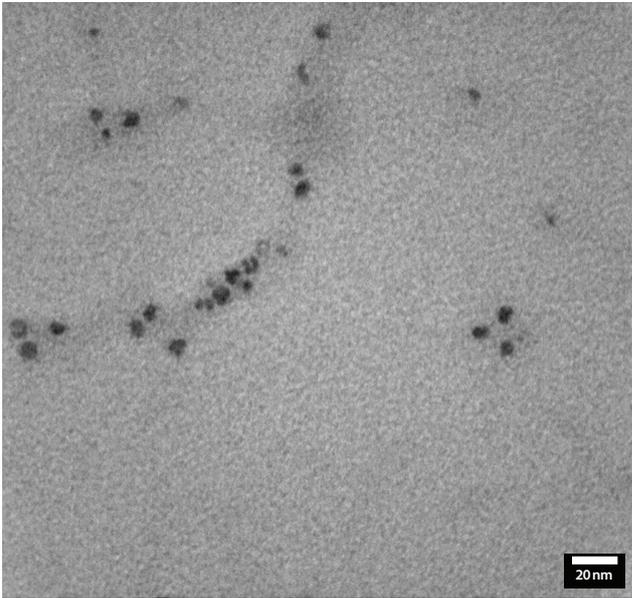
TEM: Nano Rings

Stained particles on carbon film



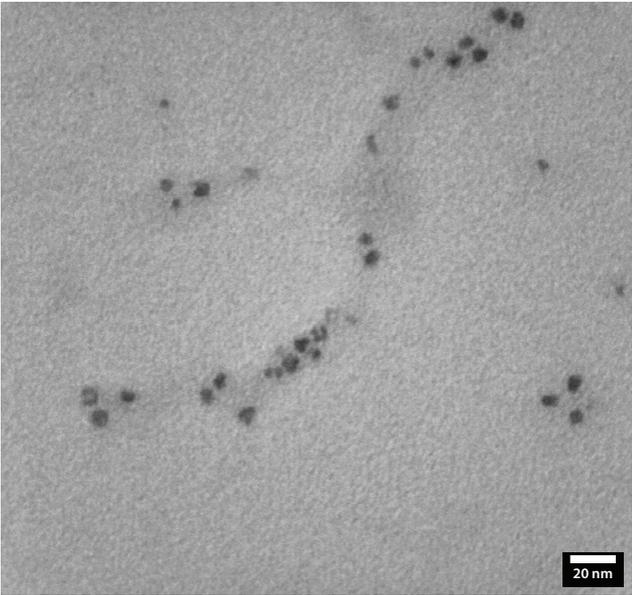
TEM: 12nm Ferritin

Particles on carbon film



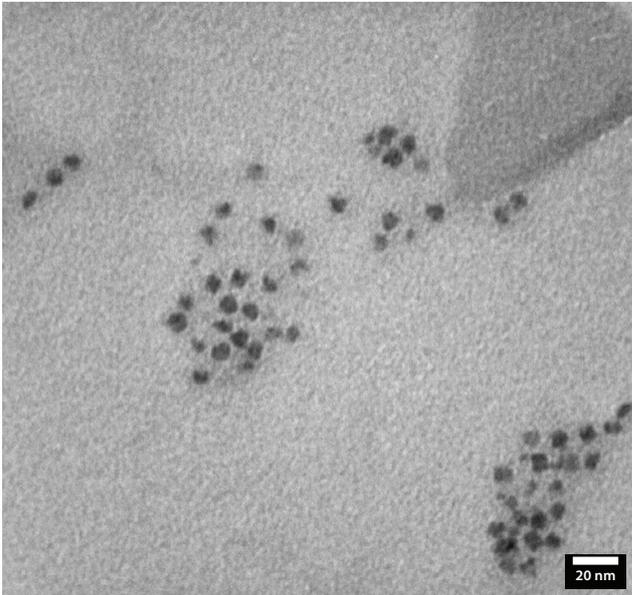
TEM: 12nm Ferritin

Particles on carbon film



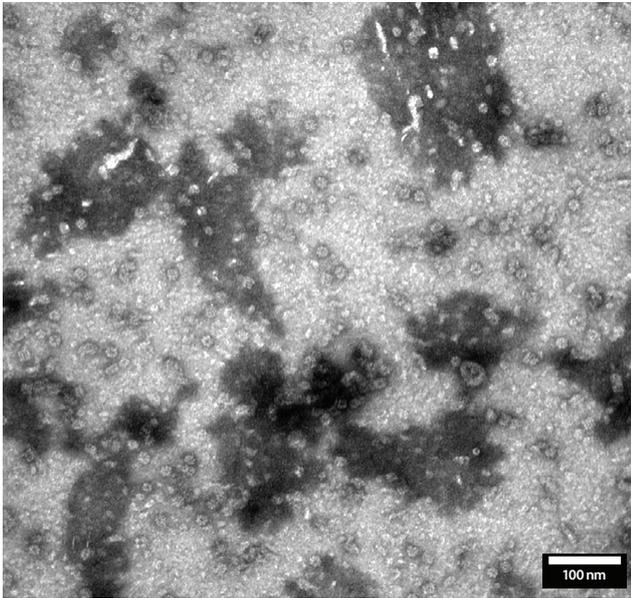
TEM: 12nm Ferritin

Particles on carbon film



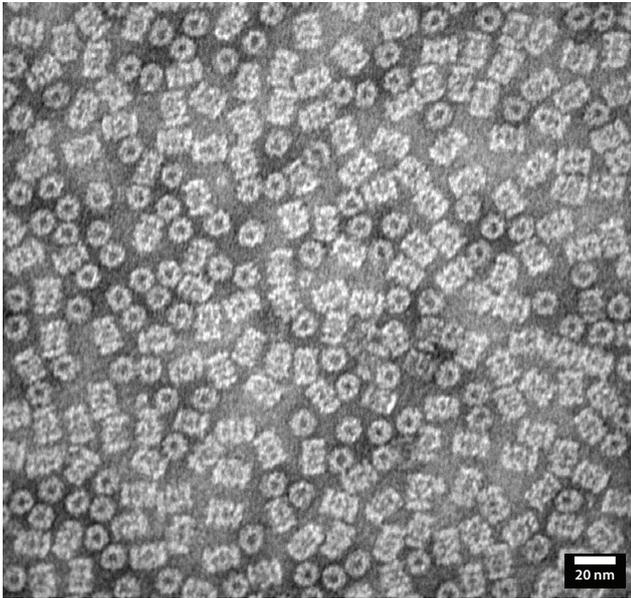
TEM: 12nm Ferritin

Particles on carbon film



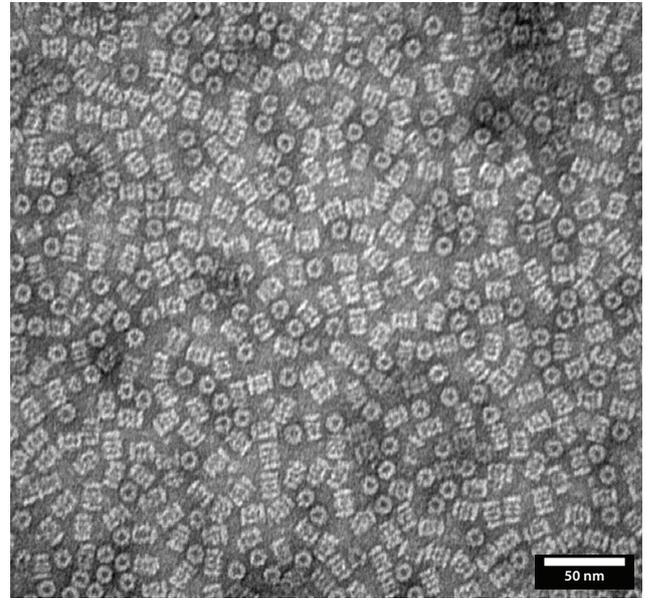
TEM: GroEL Protein

Particles on carbon film



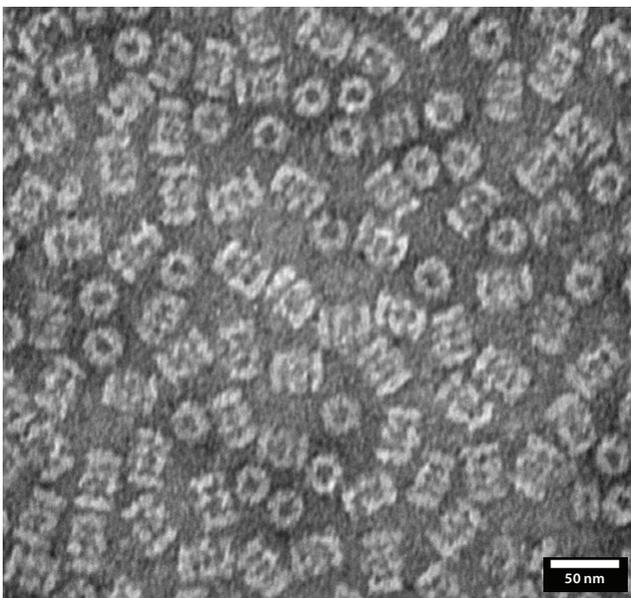
TEM: 20S Proteasomes

Stained particles on carbon film
 Negative stained proteasomes purified from a *Thermus thermophilus* archeal lysate



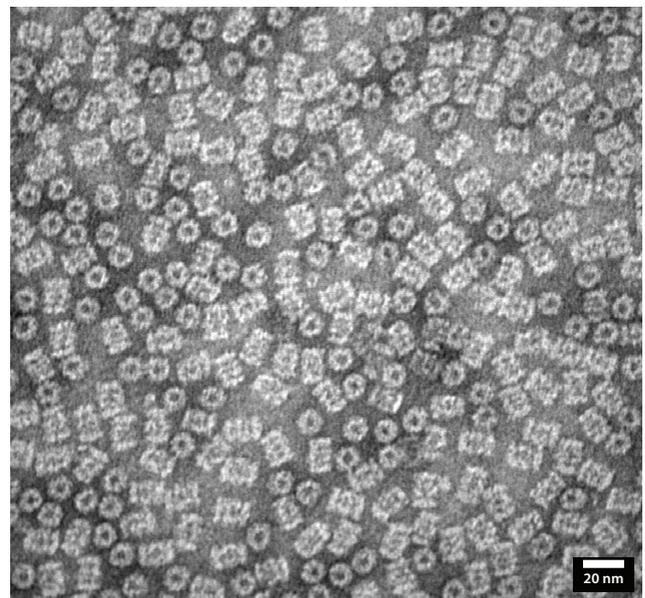
TEM: 20S Proteasomes

Stained particles on carbon film
 Negative stained proteasomes purified from a *Thermus thermophilus* archeal lysate



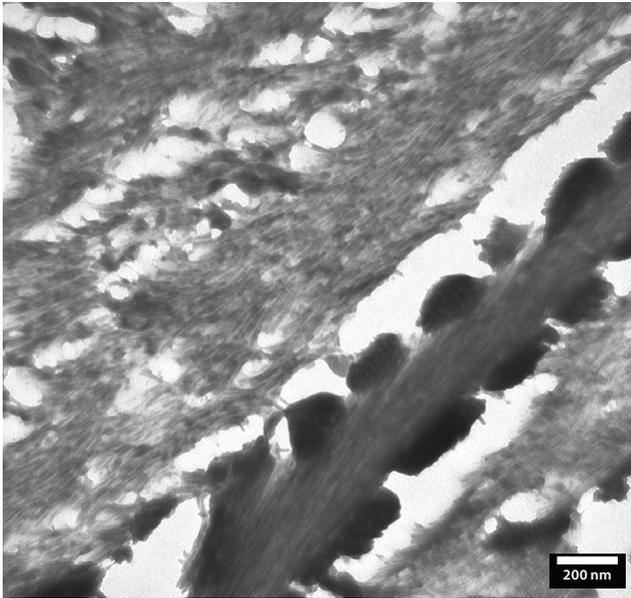
TEM: 20S Proteasomes

Stained particles on carbon film
 Negative stained proteasomes purified from a *Thermus thermophilus* archeal lysate



TEM: 20S Proteasomes

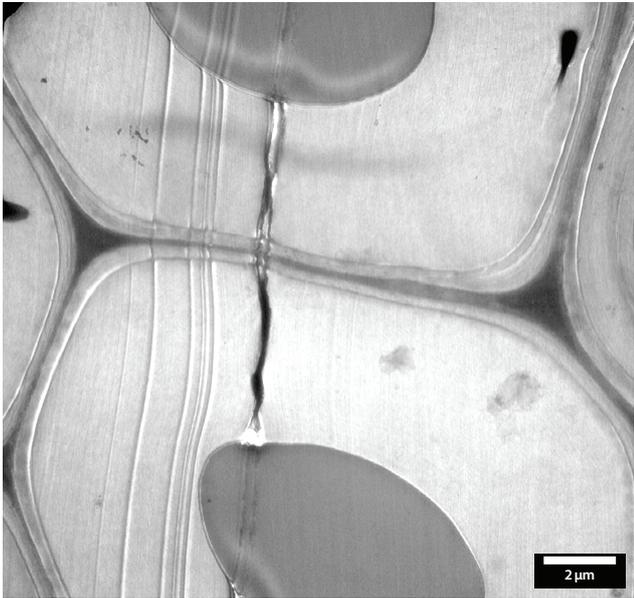
Stained particles on carbon film
 Negative stained proteasomes purified from a *Thermus thermophilus* archeal lysate



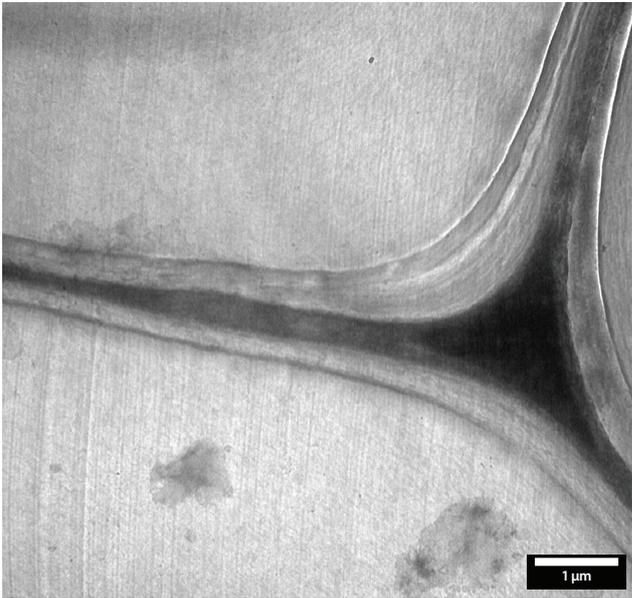
TEM: Insect Dactyl Impact

Stained section

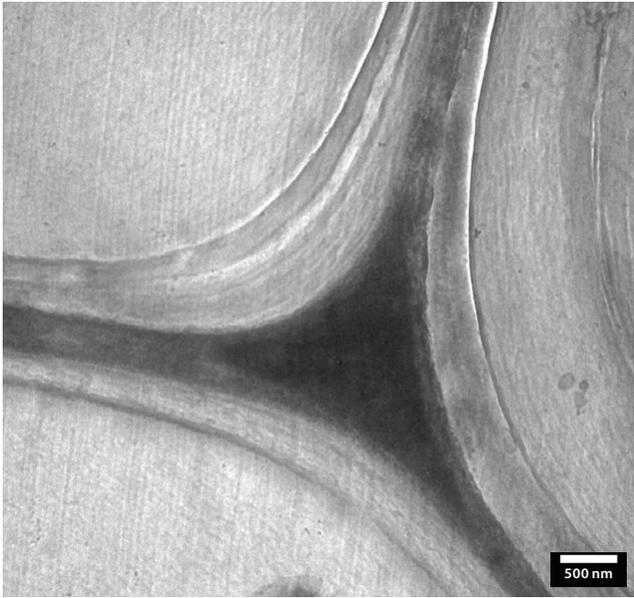
Insect dactyl impact – beetle exoskeleton



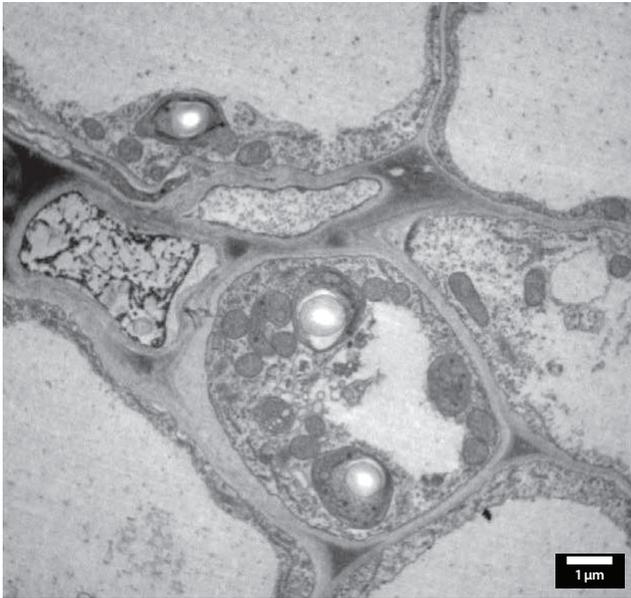
TEM: Cellular Structure of Wood
Stained section



TEM: Cellular Structure of Wood
Stained section



TEM: Cellular Structure of Wood
Stained section



TEM: Tobacco Plant

70 nm section

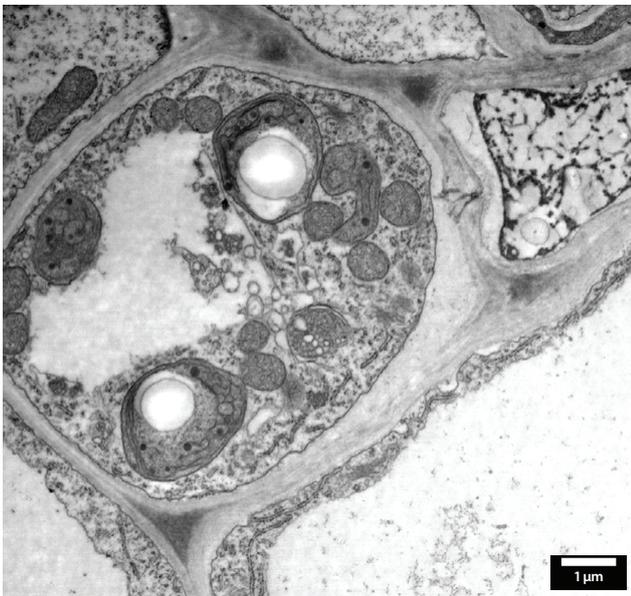
Fixated with OsO₄



STEM 15 kV: Tobacco Plant

70 nm section

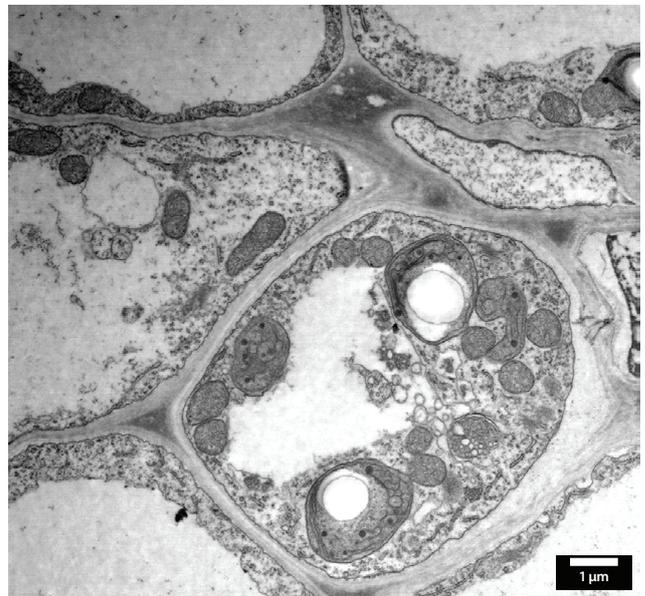
Fixated with OsO₄



STEM 15 kV: Tobacco Plant

70 nm section

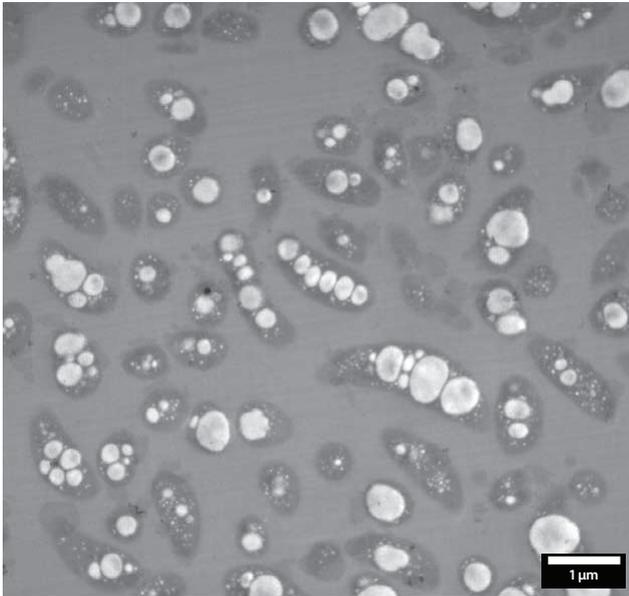
Fixated with OsO₄



STEM 15 kV: Tobacco Plant

70 nm section

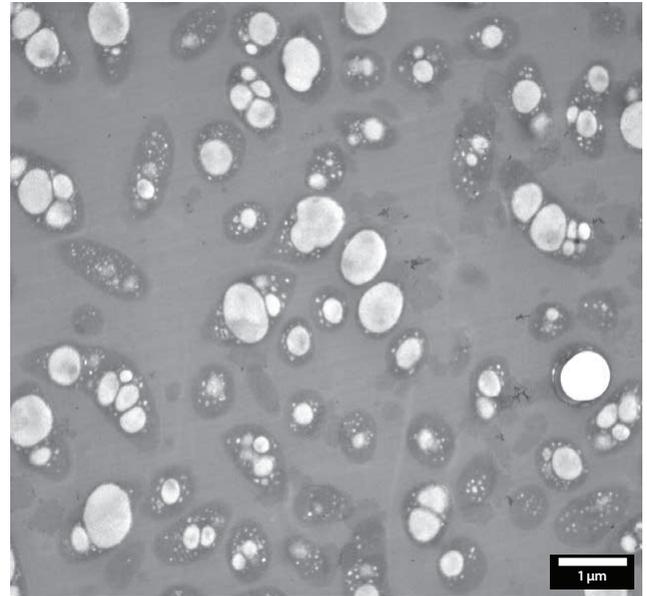
Fixated with OsO₄



TEM: Bacterial Cells containing PHA Granule

Stained section

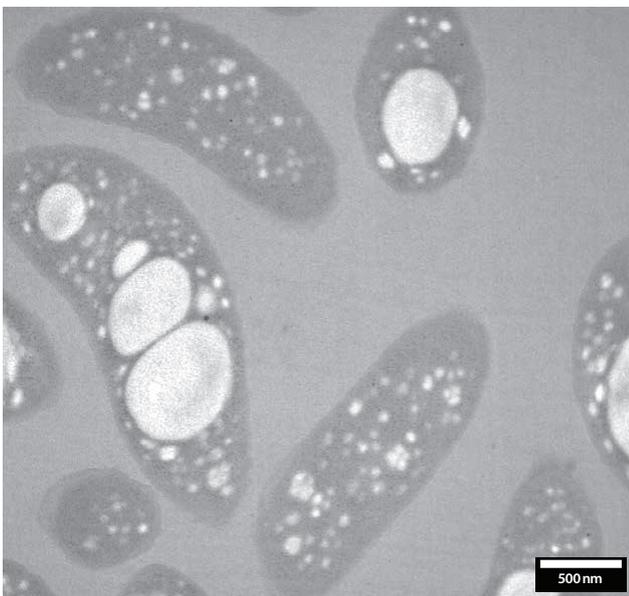
Epon embedded, 70 nm, block contrasted.
Point of interest: ultrastructure of bacterial cells.



TEM: Bacterial Cells containing PHA Granule

Stained section

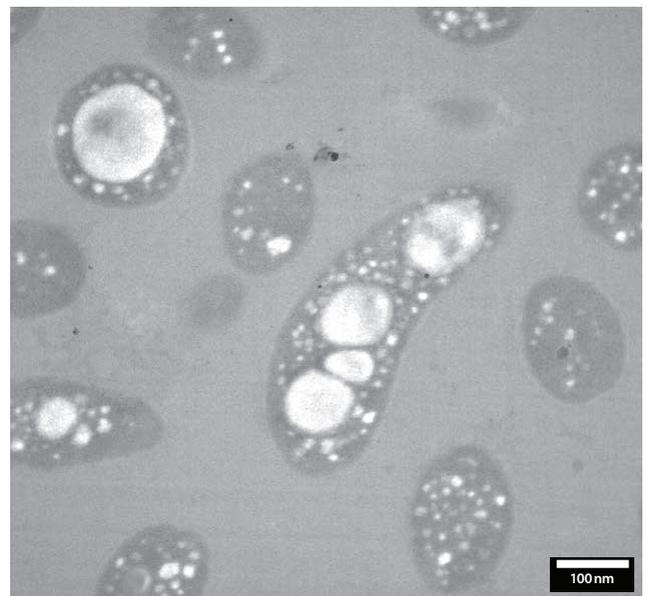
Epon embedded, 70 nm, block contrasted.
Point of interest: ultrastructure of bacterial cells.



TEM: Bacterial Cells containing PHA Granule

Stained section

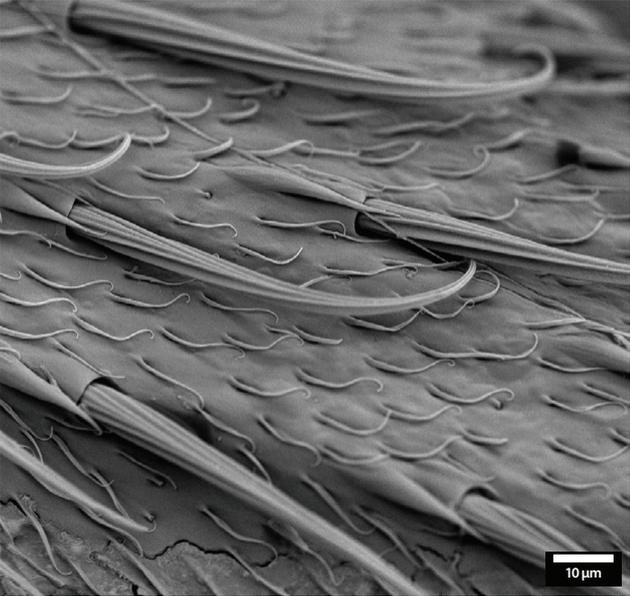
Epon embedded, 70 nm, block contrasted.
Point of interest: ultrastructure of bacterial cells.



TEM: Bacterial Cells containing PHA Granule

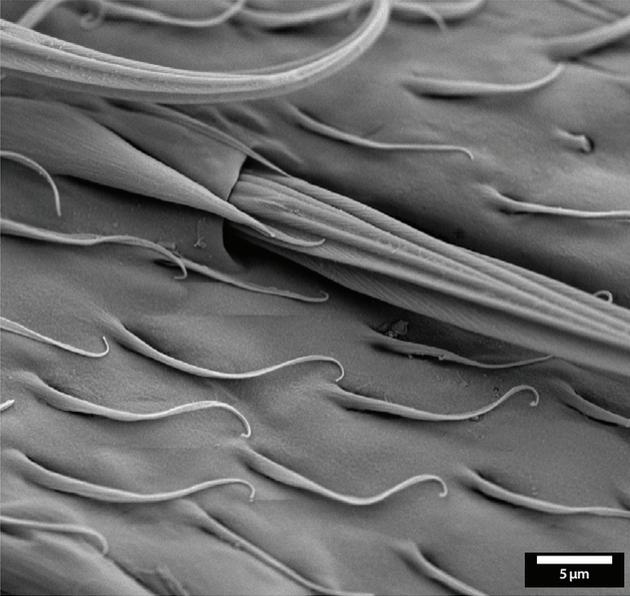
Stained section

Epon embedded, 70 nm, block contrasted.
Point of interest: ultrastructure of bacterial cells.



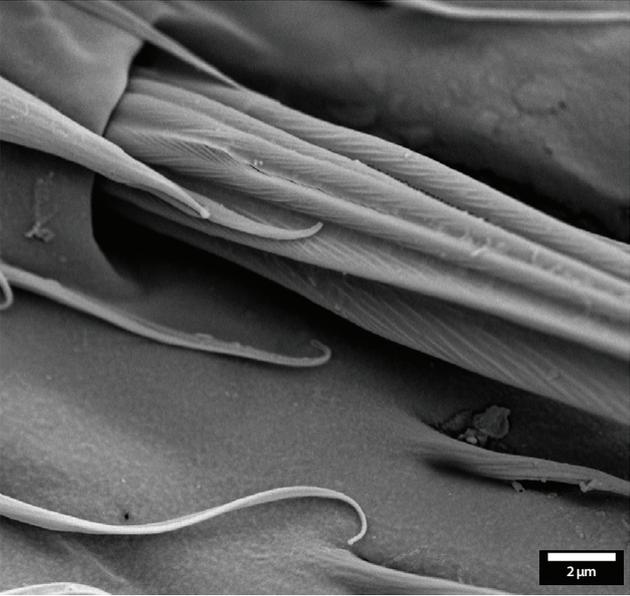
SEM: Insect

Sample on grid
BSE. Gold coated



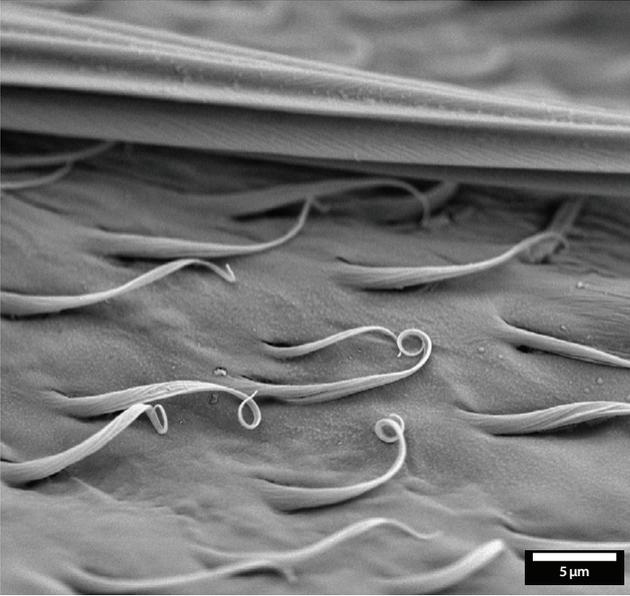
SEM: Insect

Sample on grid
BSE. Gold coated



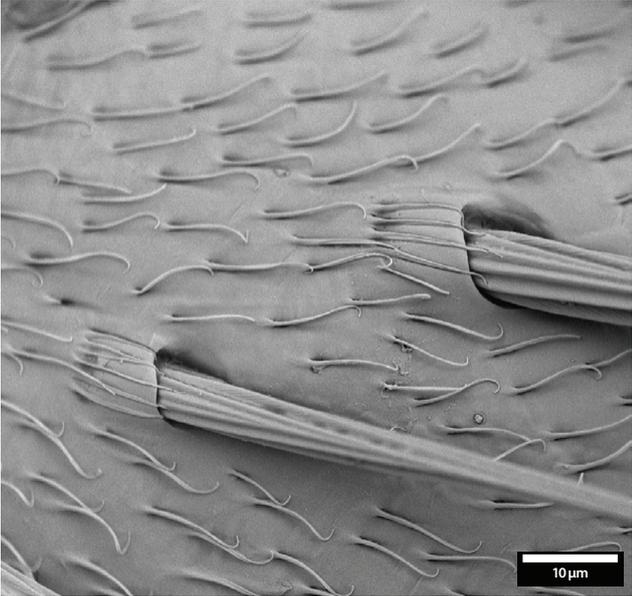
SEM: Insect

Sample on grid
BSE. Gold coated



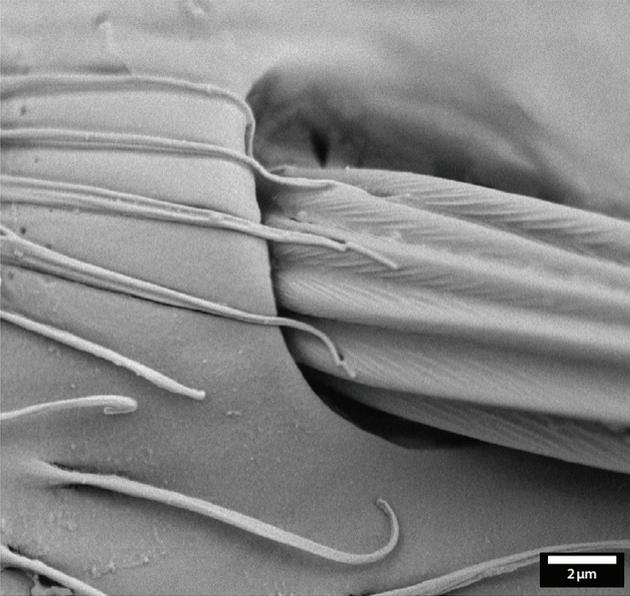
SEM: Insect

Sample on grid
BSE. Gold coated



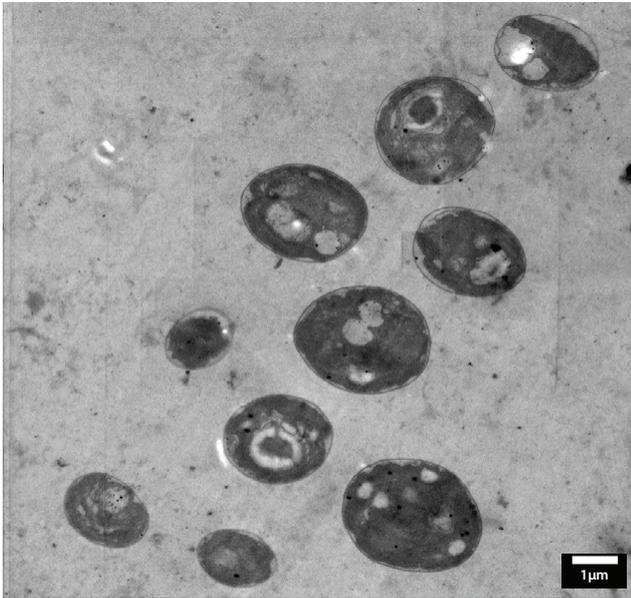
SEM: Insect

Sample on grid
BSE. Gold coated



SEM: Insect

Sample on grid
BSE. Gold coated



STEM 15 kV: Chlorella Vulgaris

Stained section

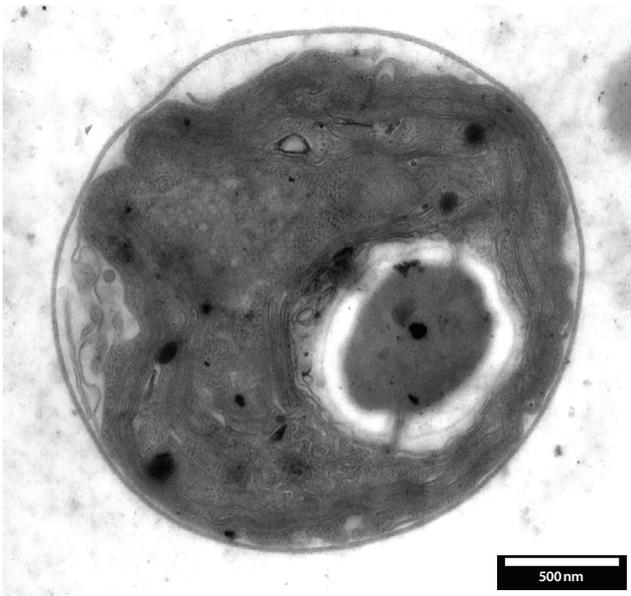
Suppur embedded 70 nm section of algae, post-fixed by OsO₄



STEM 15 kV: Chlorella Vulgaris

Stained section

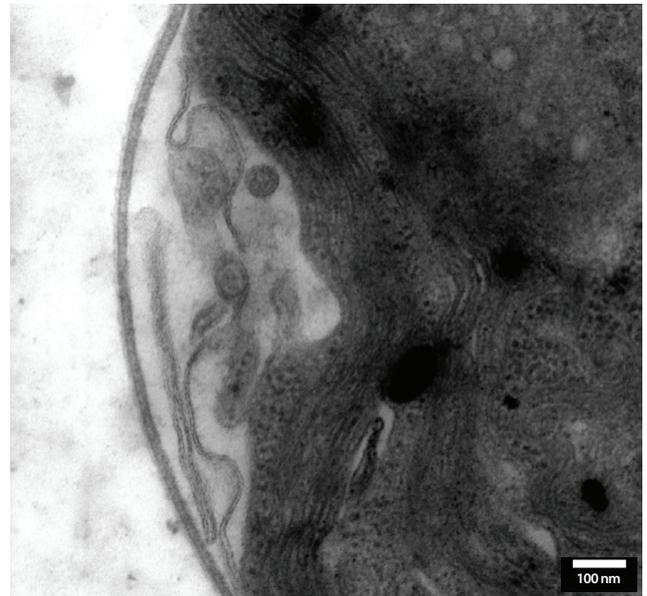
Suppur embedded 70 nm section of algae culture treated by Ag-citrate, post-fixed by OsO₄



STEM 15 kV: Chlorella Vulgaris

Stained section

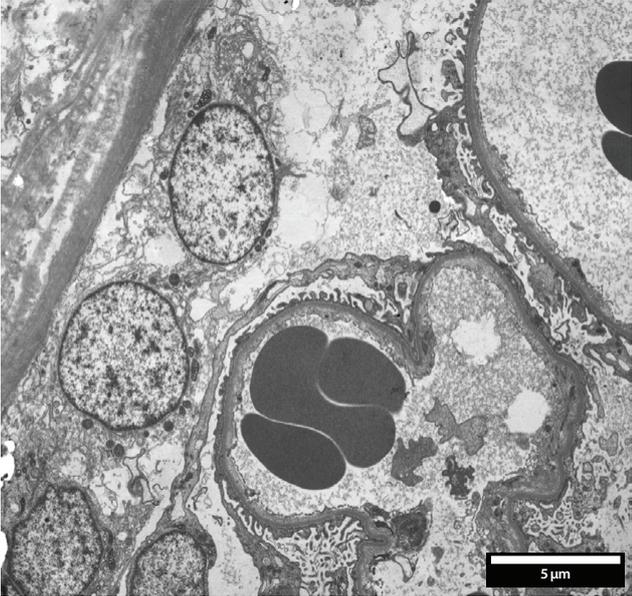
Suppur embedded 70 nm section of algae, post-fixed by OsO₄



STEM 15 kV: Chlorella Vulgaris

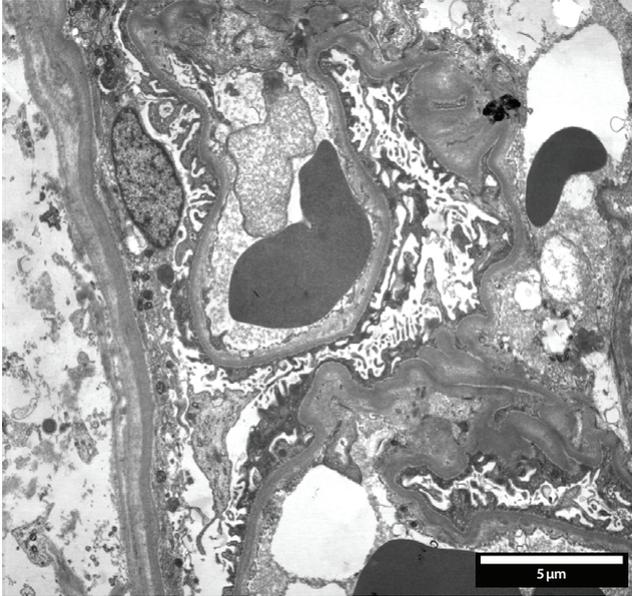
Stained section

Suppur embedded 70 nm section of algae, post-fixed by OsO₄.



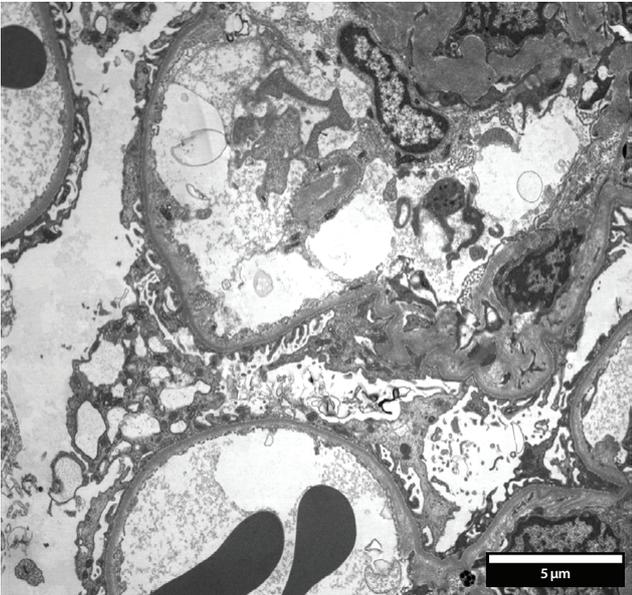
STEM 15 kV: Kidney

Stained section



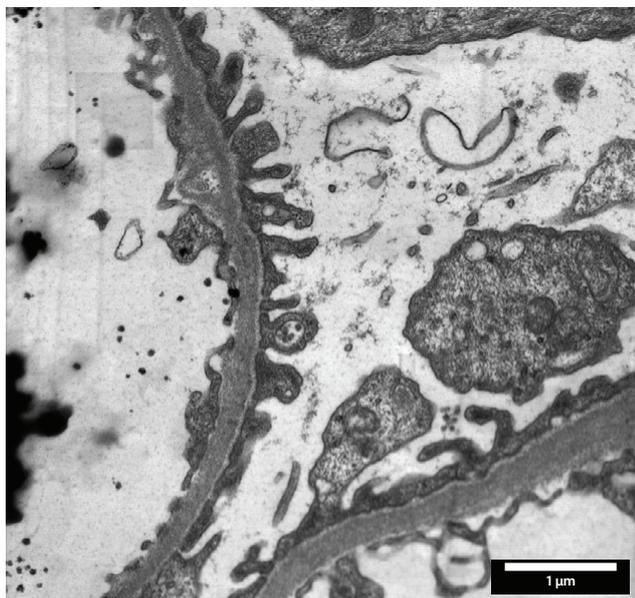
STEM 15 kV: Kidney

Stained section



STEM 15 kV: Kidney

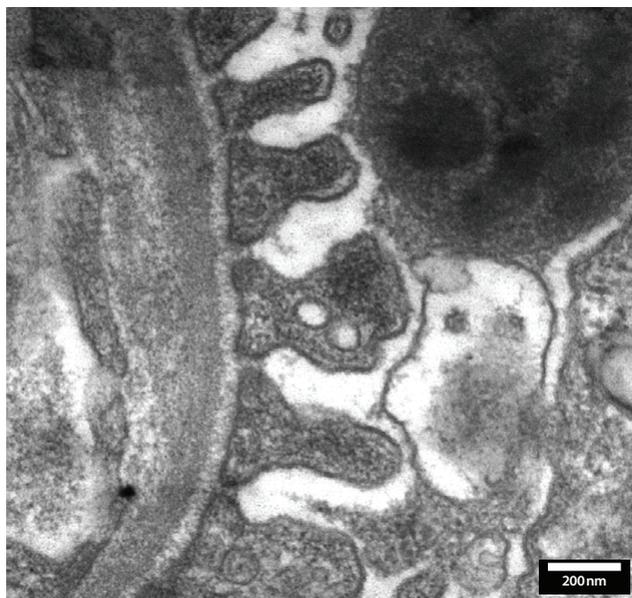
Stained section



STEM 15 kV: Kidney

Stained section

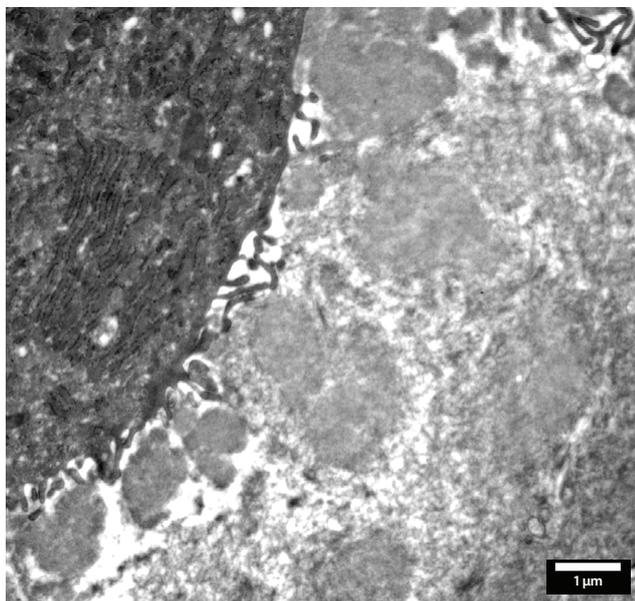
Point of interest: podocytes with details of pedicles



STEM 15 kV: Kidney

Stained section

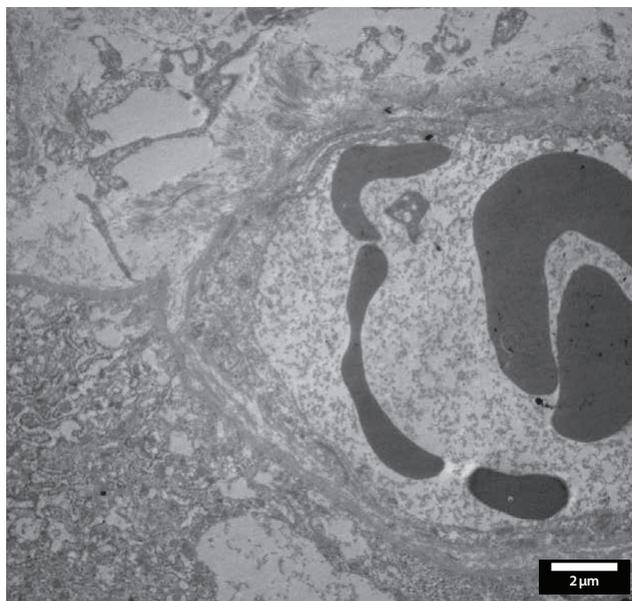
Point of interest: podocytes with details of pedicles



STEM 15 kV: Placenta

70 nm Stained section

Fixated in glutaraldehyde 2.5% OsO₄



TEM: Placenta

70 nm Stained section

Fixated in glutaraldehyde 2.5% OsO₄



STEM 15 kV: Chlorella Vulgaris

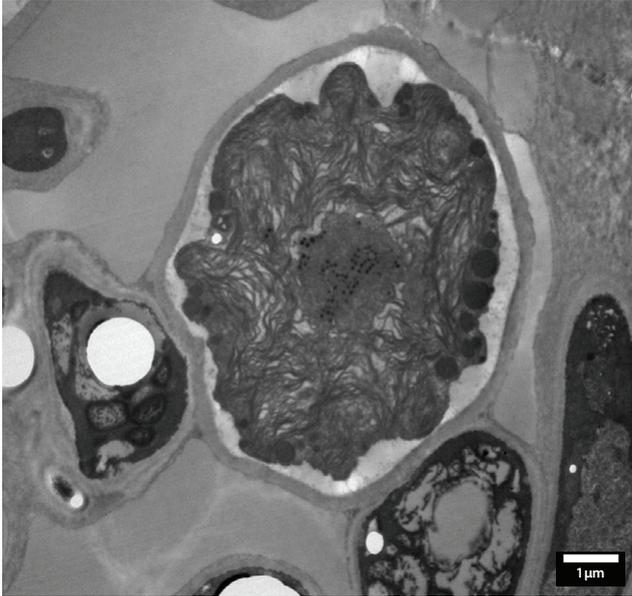
Stained section

Suppur embedded 70 nm section of algae,
post-fixed by OsO₄



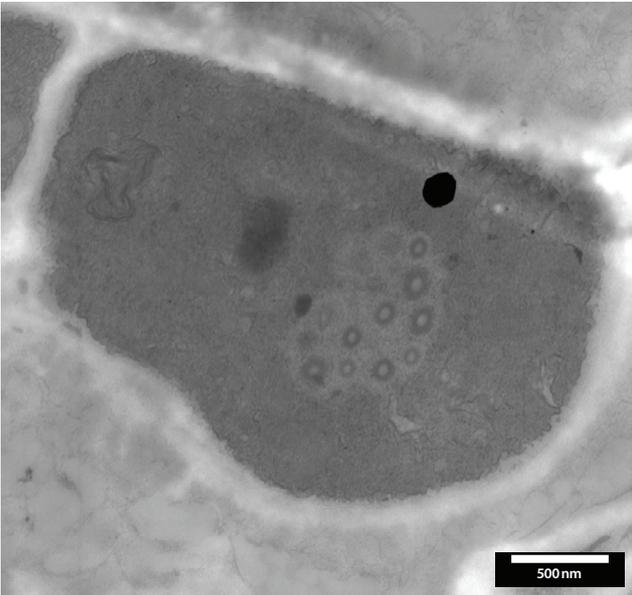
TEM: Plant Tissue

Section on carbon film
Unstained section 60 nm



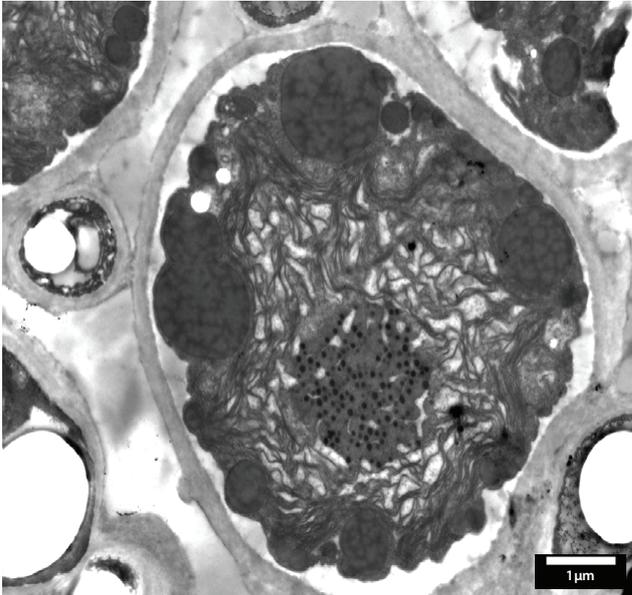
TEM: Plant Tissue

Section on carbon film
Unstained section 60 nm



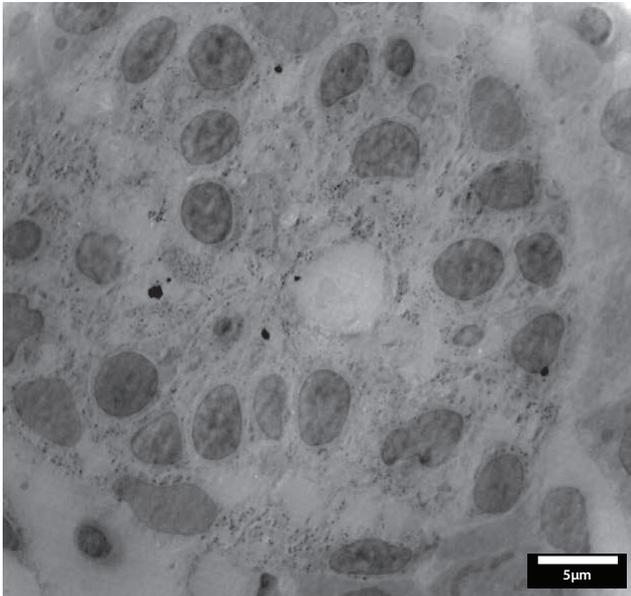
STEM 15 kV: Plant Tissue

Section on carbon film
Unstained section 60 nm



STEM 10 kV: Plant Tissue

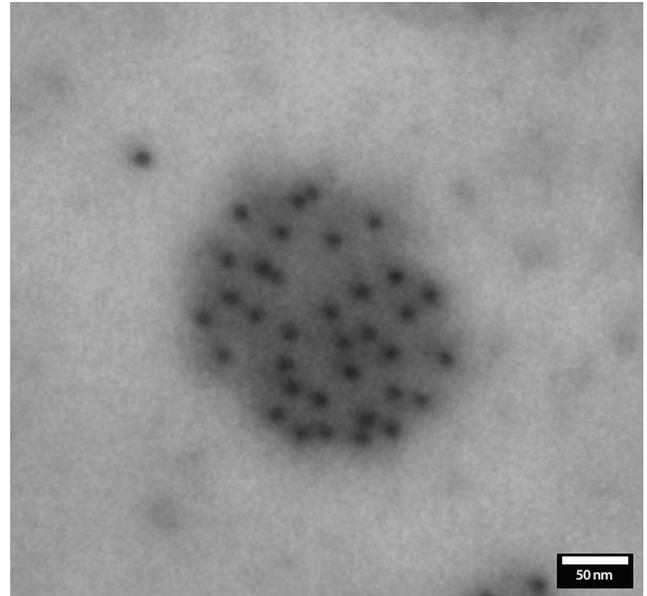
Section on carbon film
Unstained section 60 nm



TEM: Cells with Au

Stained section

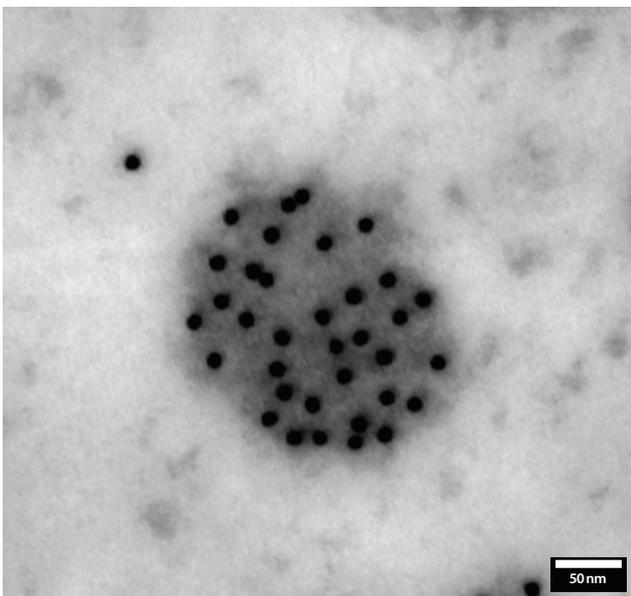
Immunogold labeling of insulin in beta-cell granules of a zebrafish larva



TEM: Cells with Au

Stained section

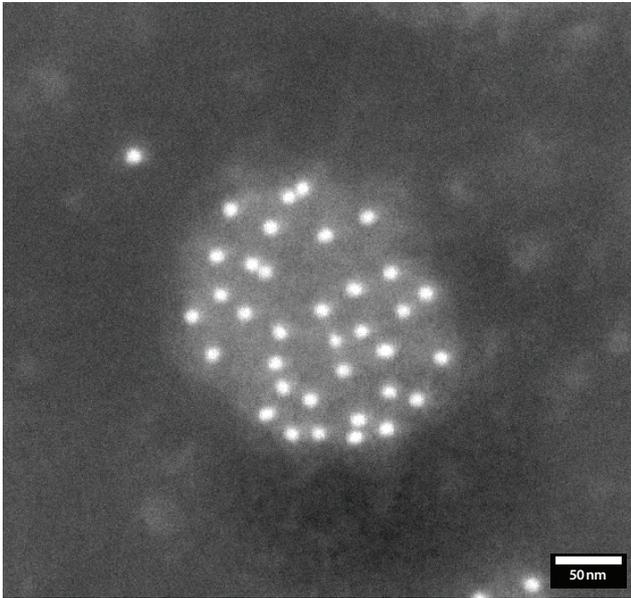
Immunogold labeling of insulin in beta-cell granules of a zebrafish larva



STEM: Cells with Au

Stained section

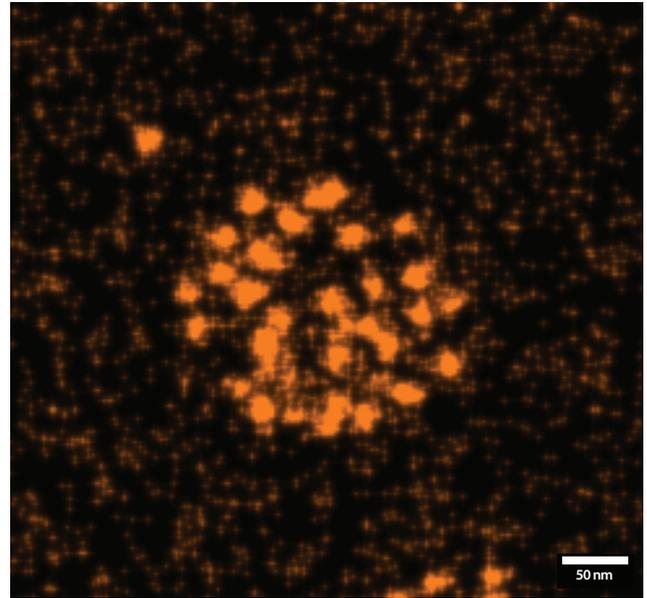
Immunogold labeling of insulin in beta-cell granules of a zebrafish larva



SEM: Cells with Au

Stained section

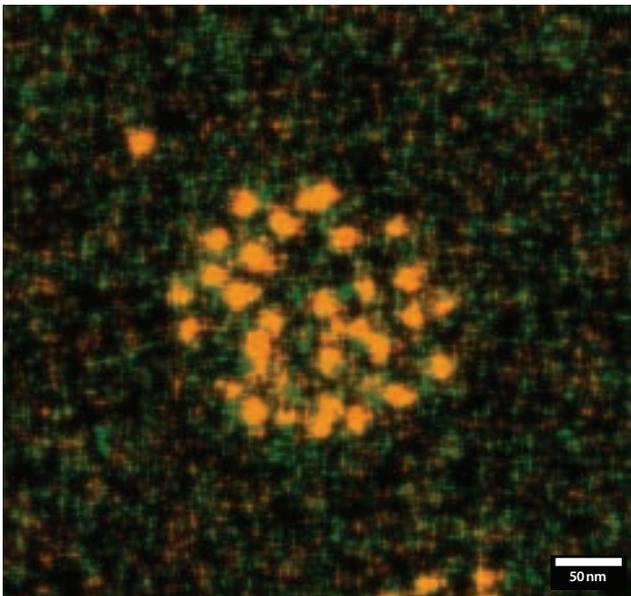
BSE. Immunogold labeling of insulin in beta-cell granules of a zebrafish larva



EDS: Cells with Au

Stained section

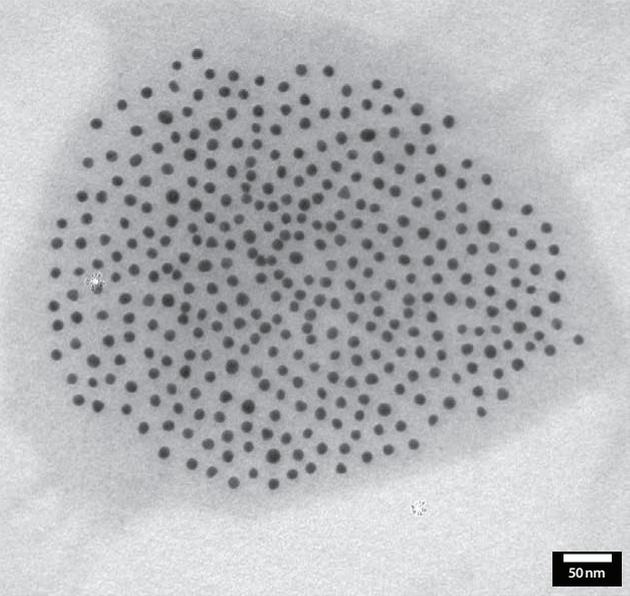
Immunogold labeling of insulin in beta-cell granules of a zebrafish larva; Au mapping



EDS: Cells with Au

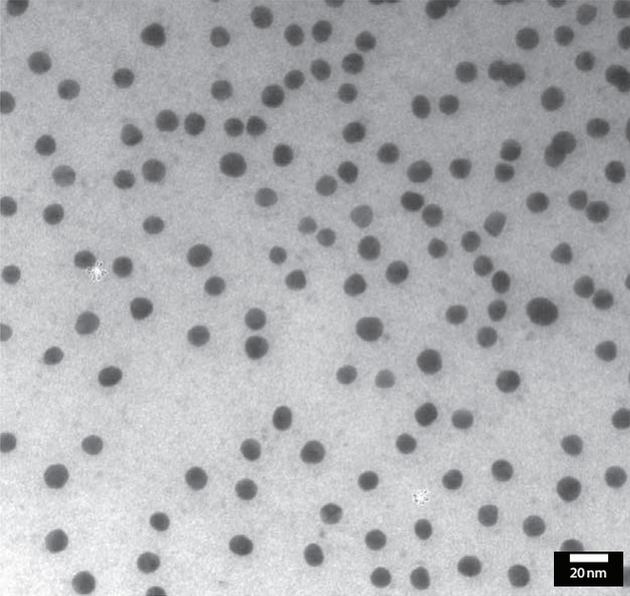
Stained section

Immunogold labeling of insulin in beta-cell granules of a zebrafish larva



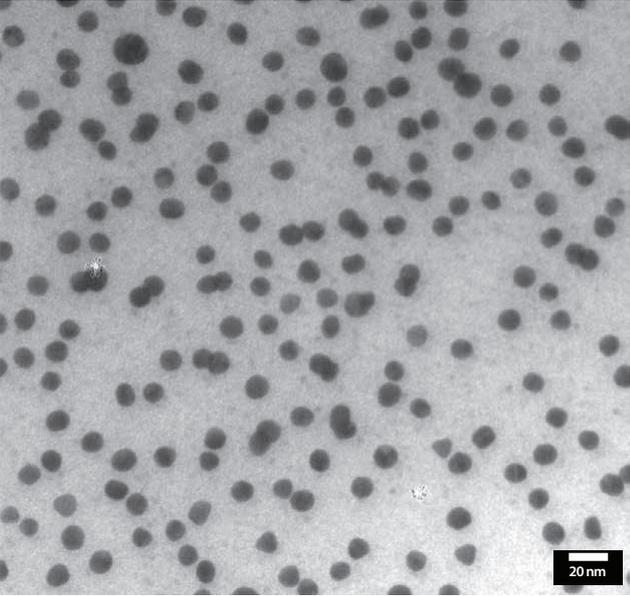
TEM: Au Nanoparticles

Particles on carbon film
10 nm size



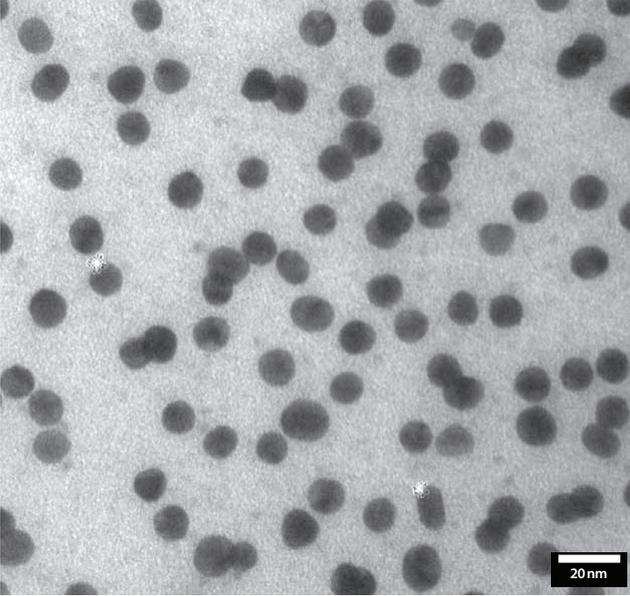
TEM: Au Nanoparticles

Particles on carbon film
10 nm size



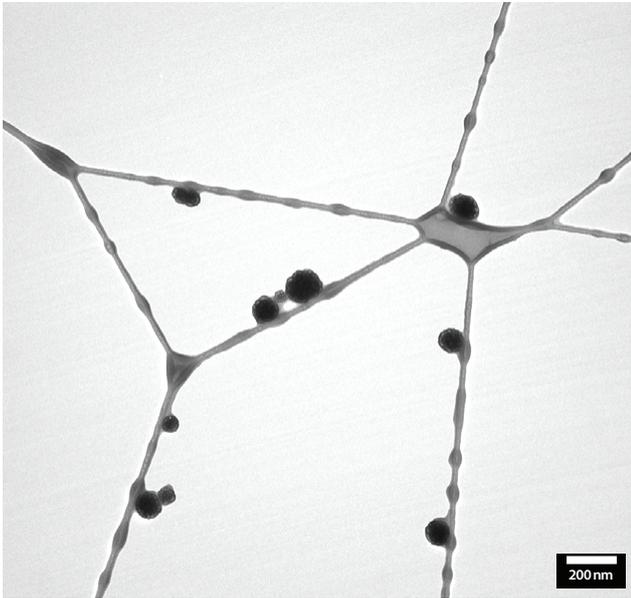
TEM: Au Nanoparticles

Particles on carbon film
10 nm size



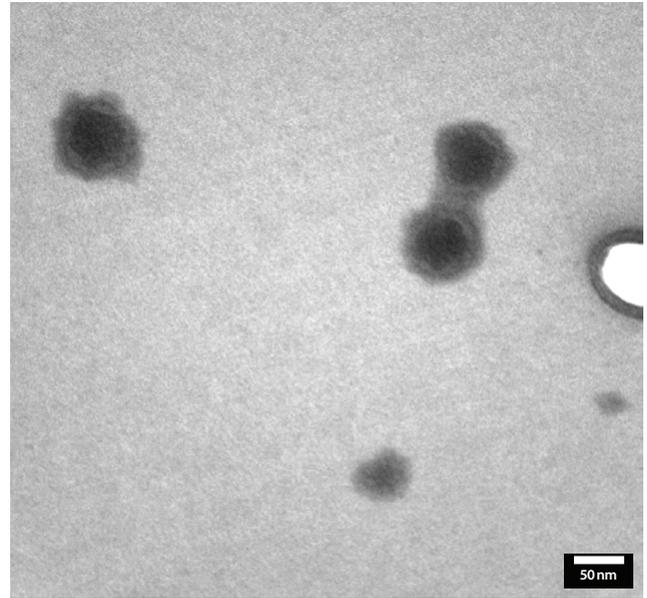
TEM: Au Nanoparticles

Particles on carbon film
10 nm size



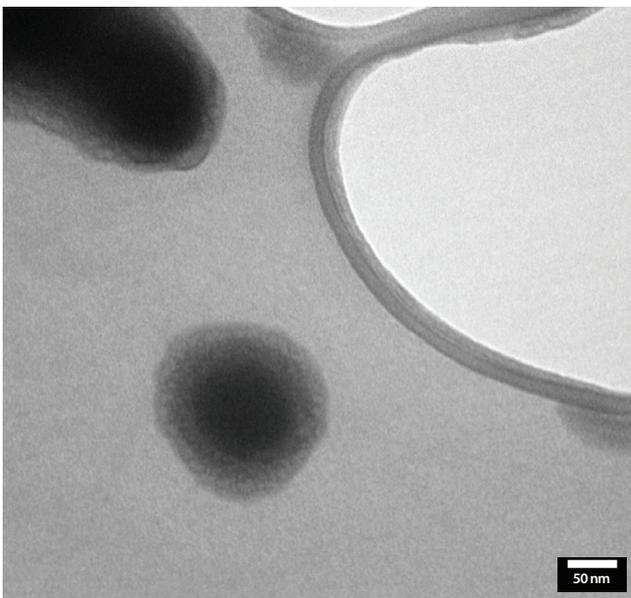
TEM: Exosome

Particles on carbon film
10 nm size



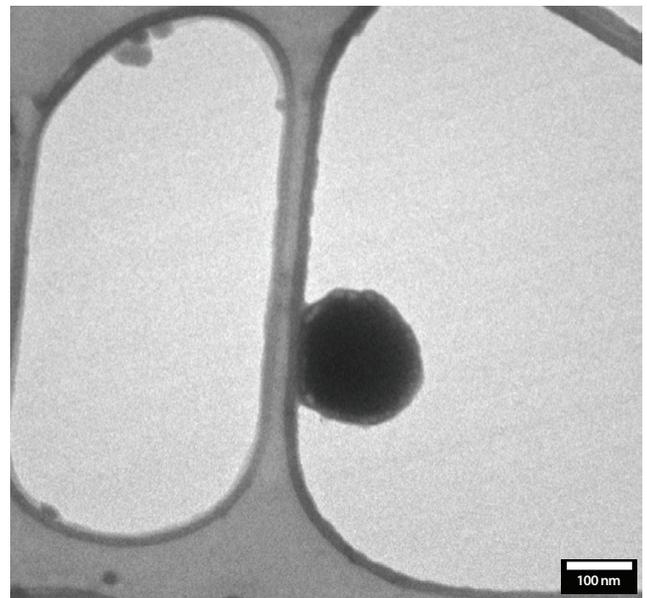
TEM: Exosome

Particles on carbon film
10 nm size



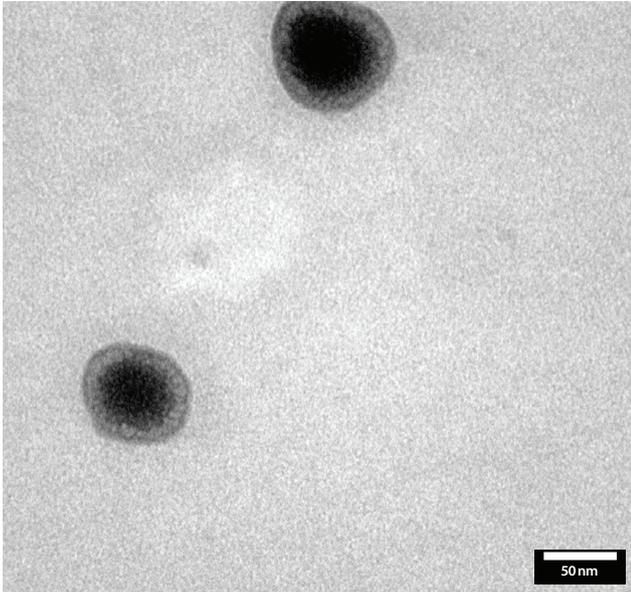
TEM: Exosome

Particles on carbon film
10 nm size



TEM: Exosome – Ce NPs

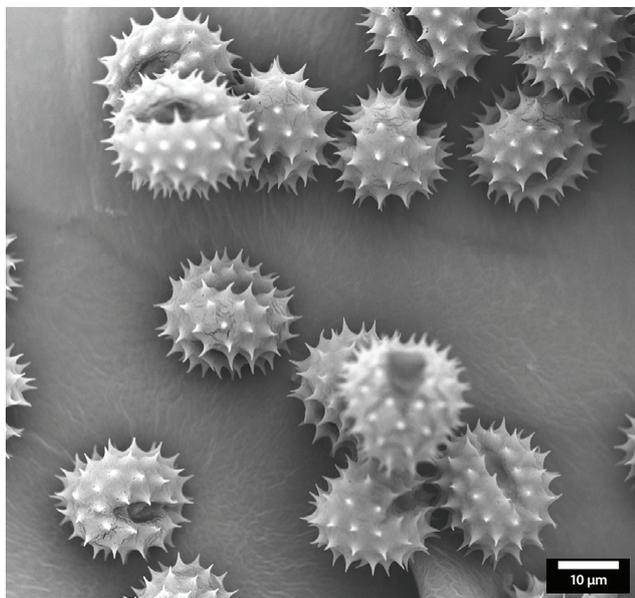
Particles on carbon film
Exosome vesicles in the size of 100 nm, potentially encapsulate cerium oxide nanoparticles (~5–10 nm) inside its membranes



TEM: Exosome-TPP2-Ce NPs

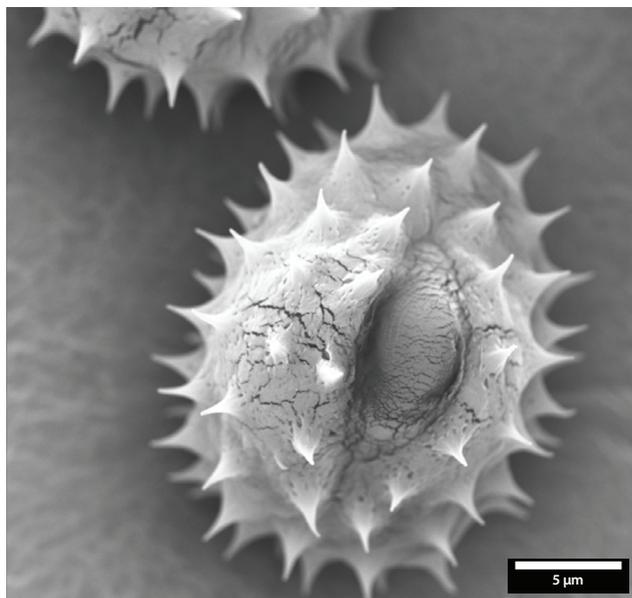
Particles on carbon film

Exosome vesicles in the size of 100 nm, potentially encapsulate triphenol-phosphate cerium oxide nanoparticles (~5–10 nm) inside its membranes



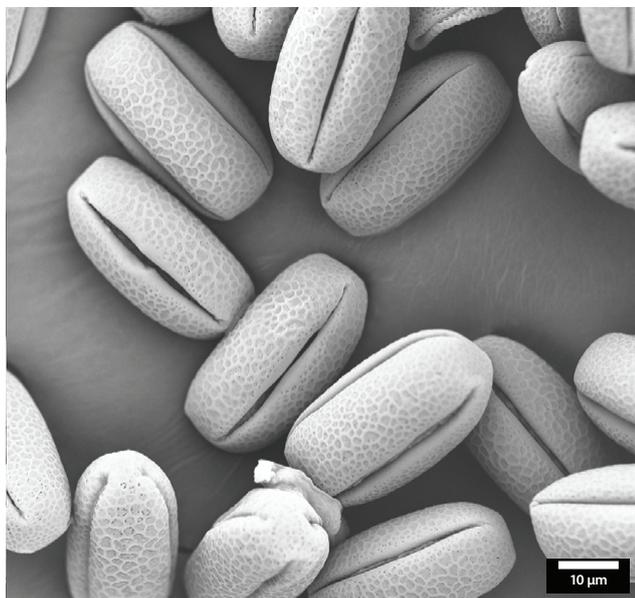
SEM: Pollen Grains (Daisy)

Particles on stub
BSE. Gold coated



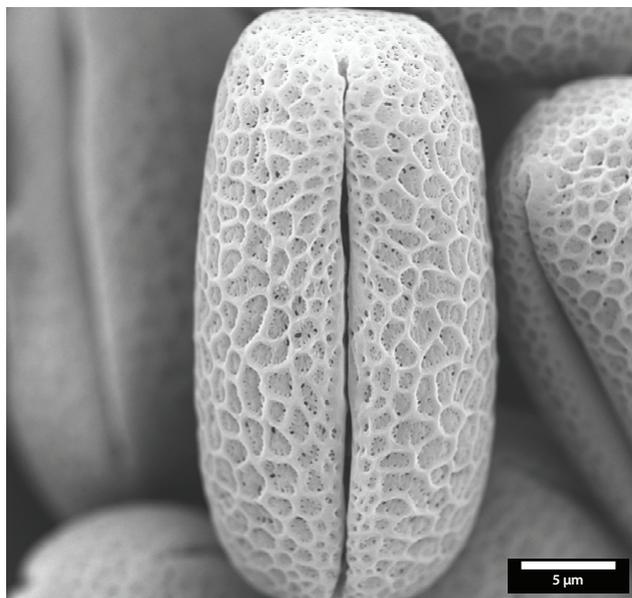
SEM: Pollen Grains (Daisy)

Particles on stub
BSE. Gold coated



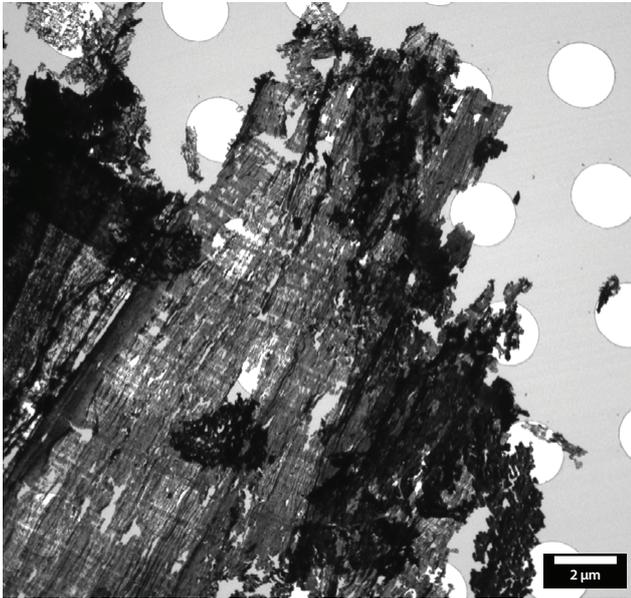
**SEM: Pollen grains
(Lupine Multiflora)**

Particles on stub
BSE. Gold coated



**SEM: Pollen grains
(Lupine Multiflora)**

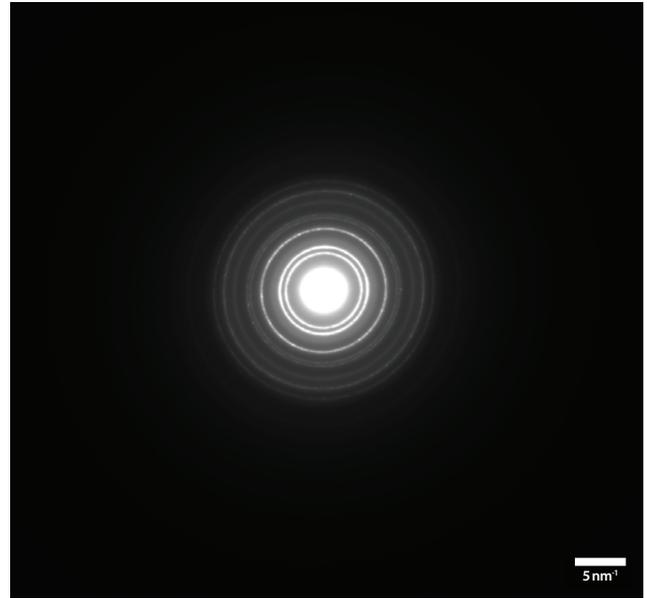
Particles on stub
BSE. Gold coated



TEM: Shells

Unstained section

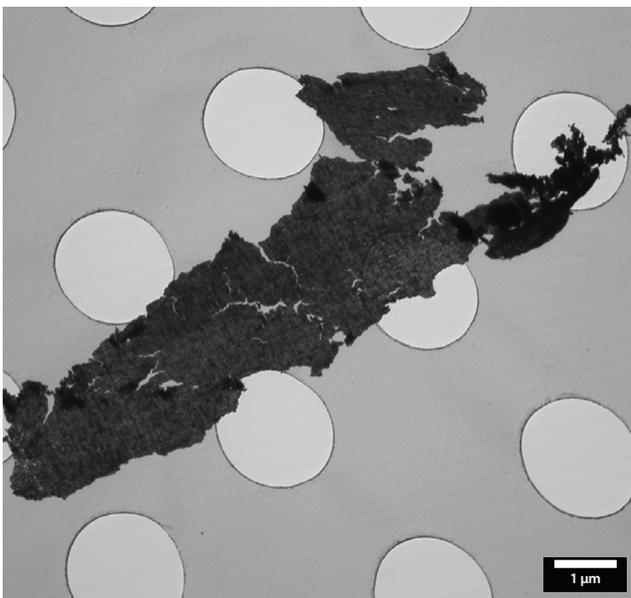
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Shells

Unstained section

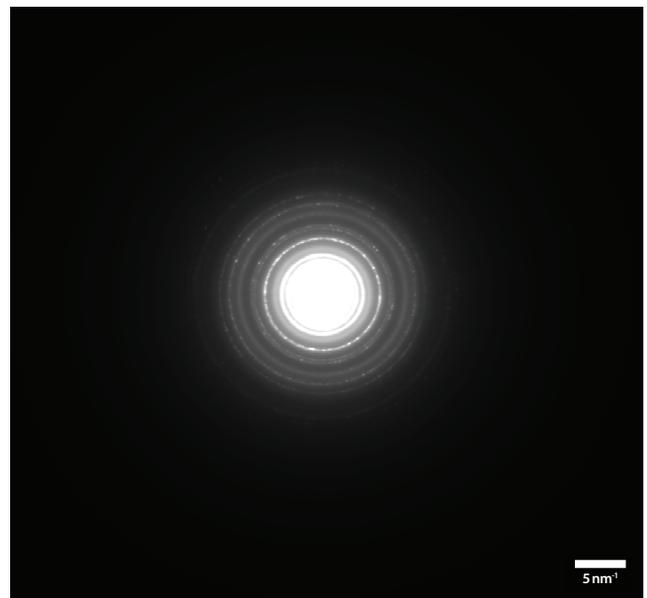
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Coral

Unstained section

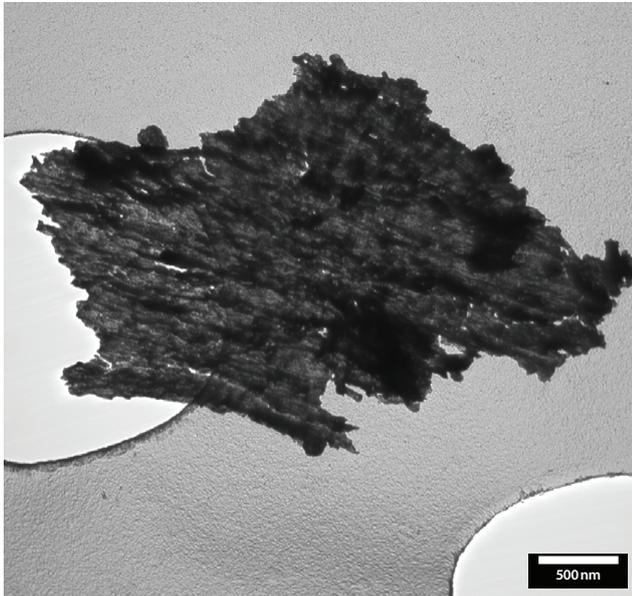
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Coral

Unstained section

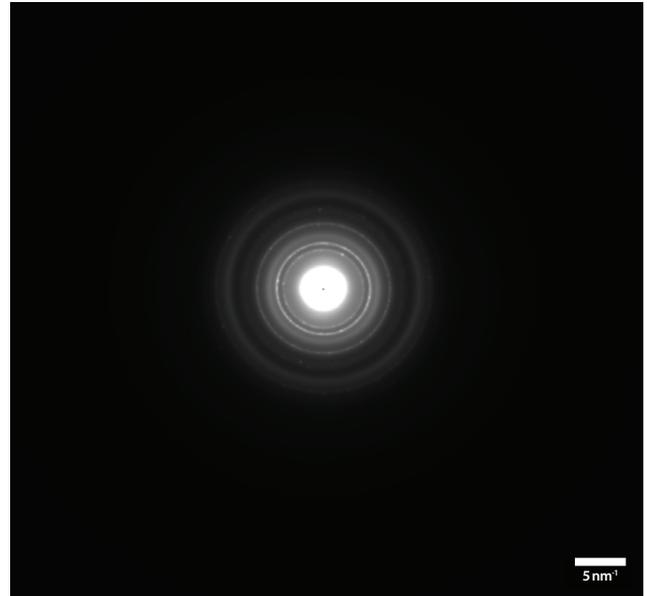
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Snail Shell

Unstained section

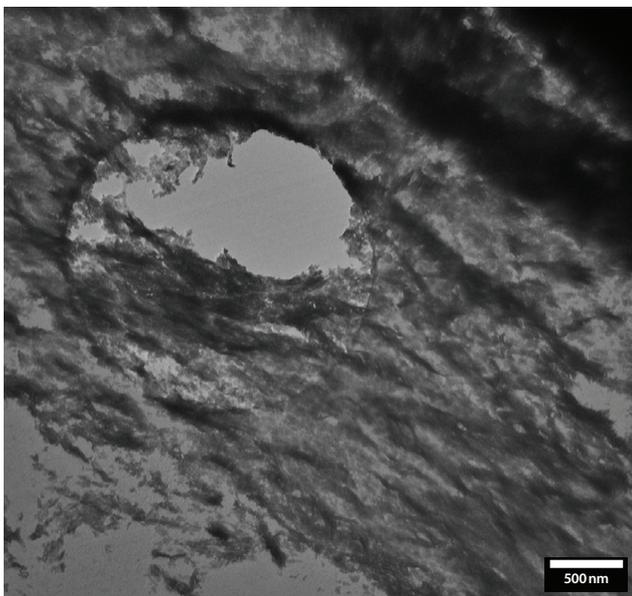
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Snail Shell

Unstained section

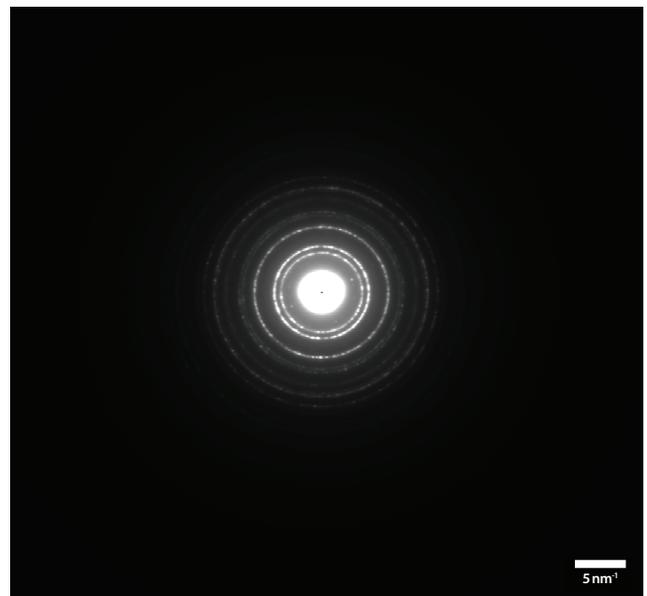
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Bones (Wild Boar)

Unstained section

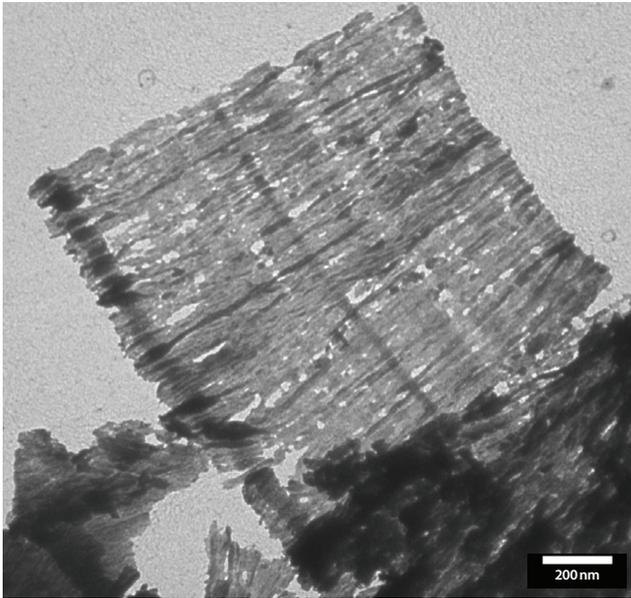
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Bones (Wild Boar)

Unstained section

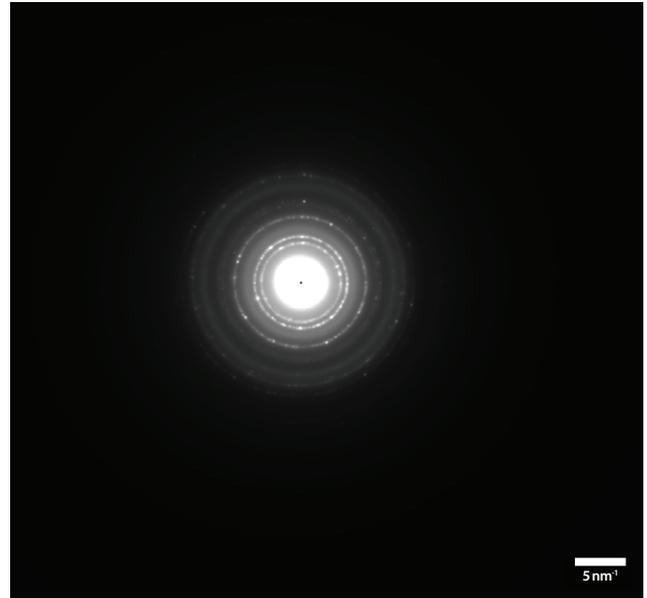
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Chihuahua Teeth

Unstained section

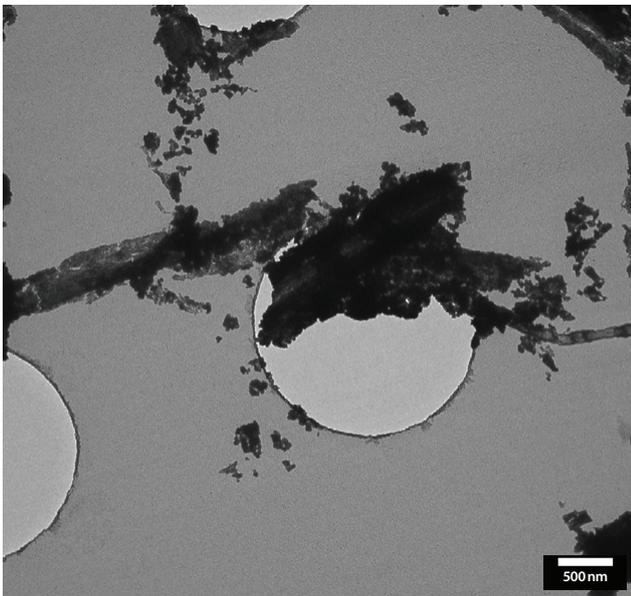
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Chihuahua Teeth

Unstained section

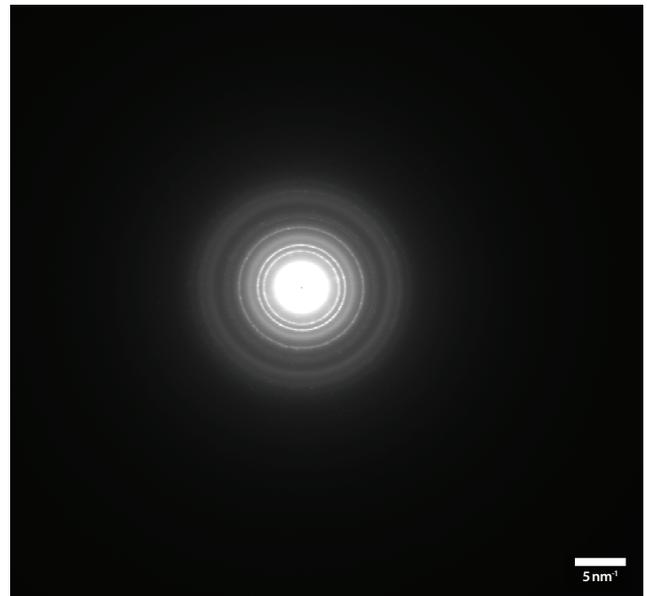
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Baby Teeth

Unstained section

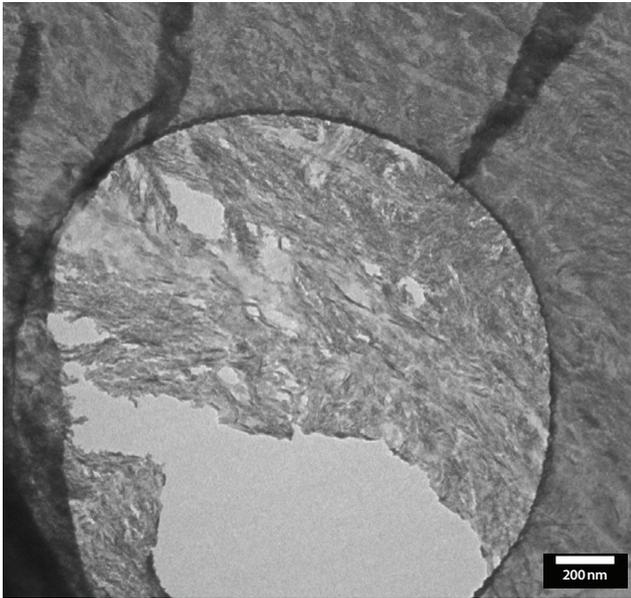
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Baby Teeth

Unstained section

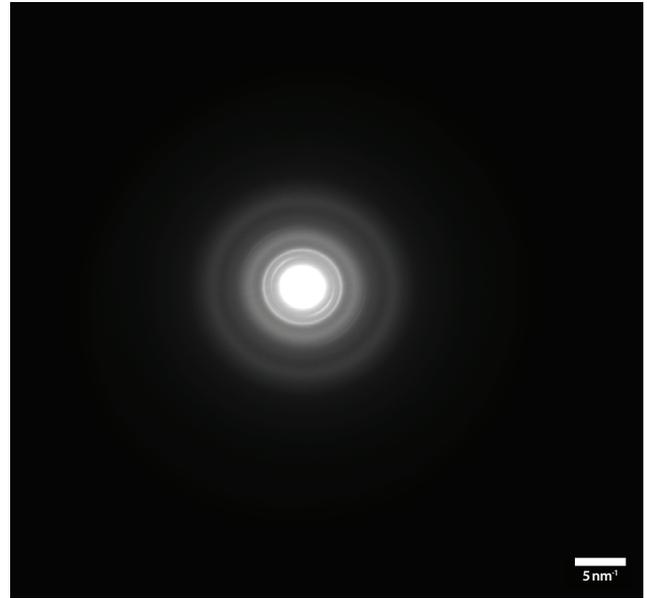
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Chicken Collarbone in Resin

Unstained section

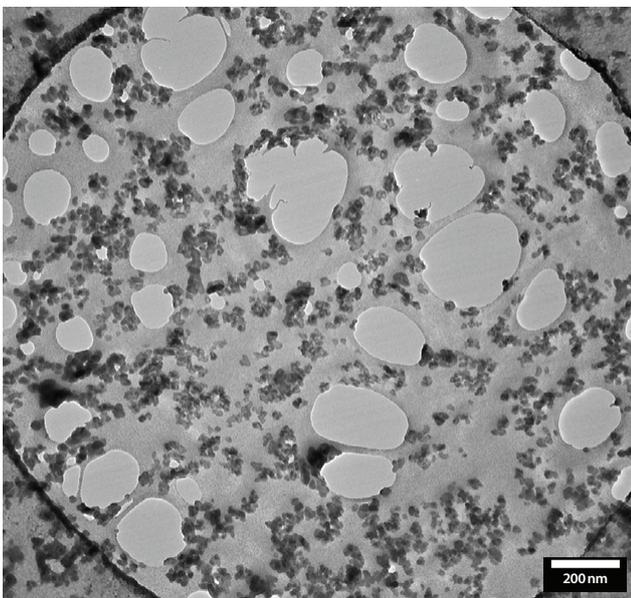
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Chicken Collarbone in Resin

Unstained section

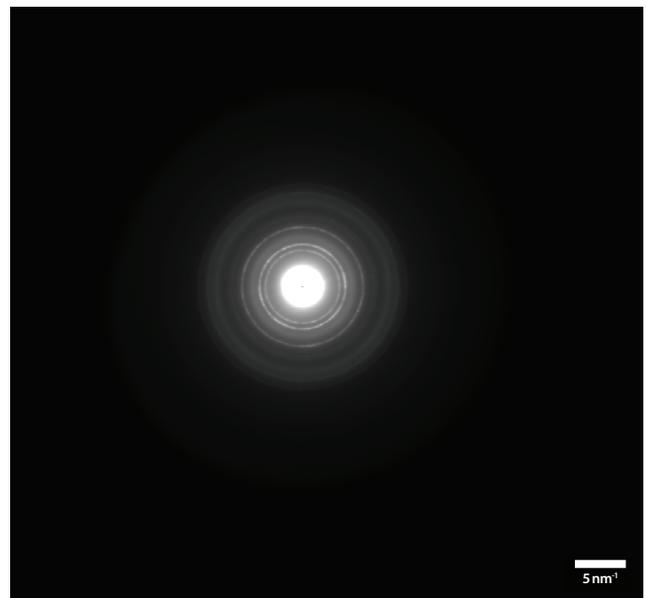
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Eggshell

Unstained section

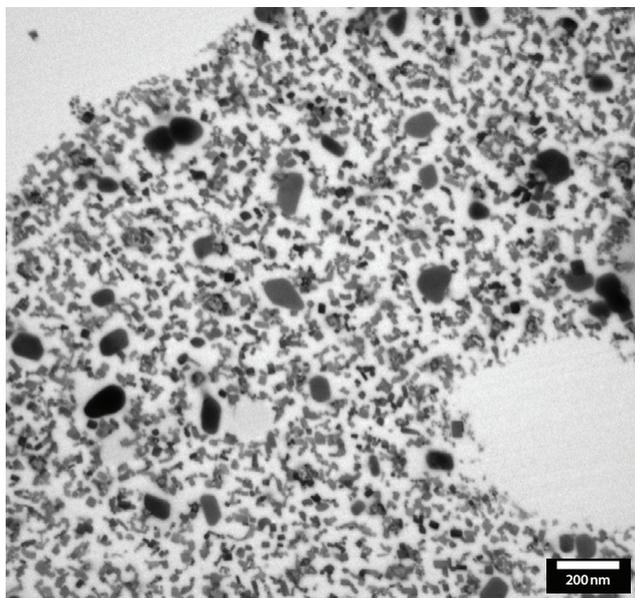
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



ED: Eggshell

Unstained section

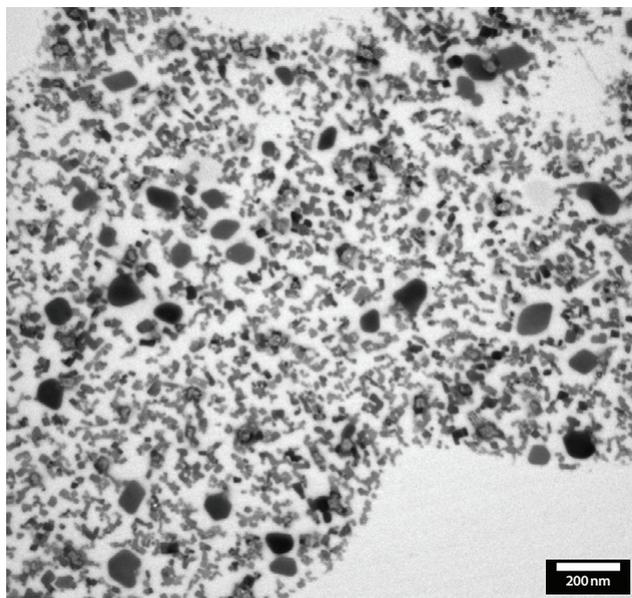
Section with a cryo 35° knife, feed 15 nm, resp. 12 nm.
Point of interest: crystallographic structure



TEM: Perovskite Nanorods

Particles on carbon film

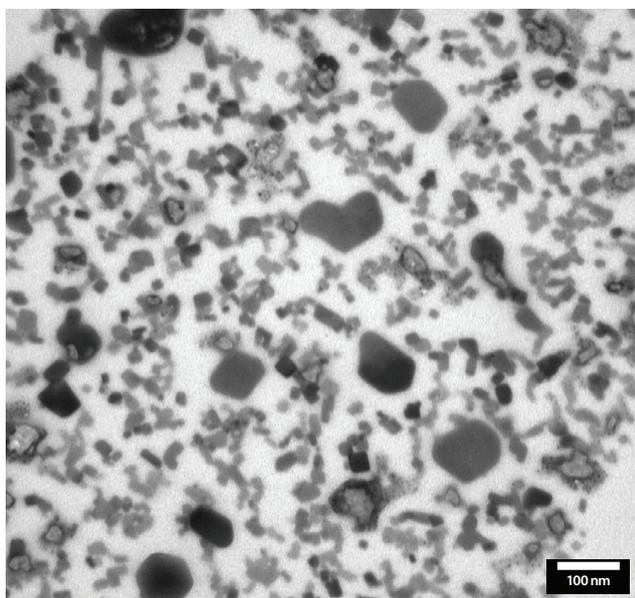
Point of interest: dimensions ratio



TEM: Perovskite Nanorods

Particles on carbon film

Point of interest: dimensions ratio



TEM: Perovskite Nanorods

Particles on carbon film

Point of interest: dimensions ratio