IT’S TIME TO MOVE BIOCERAMICS FORWARD.
A HIGHER STANDARD FOR YOU AND YOUR PATIENTS.

With our next generation of bioactive materials, clinicians can perform virtually all endodontic procedures, including sealing and obturation with fewer products, less waste and higher efficiency than ever before.

THE NEXT ERA IN BIOCERAMICS HAS STARTED IN OUR HOUSTON LABS, RIGHT NOW.

Avalon Biomed is an independent, U.S. based bioceramics manufacturer located in Houston, Texas. Every product is manufactured under the strictest U.S. and international regulations. Today, we are delivering better, evidence-based bioceramic technology while the big endo materials companies are content with the status quo. Because we believe the world needs a higher standard of care.
HOW A FORMER NUCLEAR WEAPONS ENGINEER REINVENTED BIOCERAMICS FOR OUR FUTURE.

Avalon Biomed's unique bioceramics began far from the dental chair. Dr. Carolyn Primus had invented novel ceramics for military, consumer products, and dental products. Her penchant for applied materials research led her to invent bioceramics for fixed prosthodontics and orthodontics. She used this foundation to invent dental materials that were not just inert, but bioactive and supported healing.

A FORCE FOR GOOD.
Recognizing that bioactive cements were a force for good in dentistry, Dr. Primus invented White ProRoot® MTA — a standard of care still in use today. She has used ceramic technology in six patents on bioactive materials.

A REVOLUTION IN BIOCERAMICS.
Dr. Primus recognized the world-wide need for new, affordable bioactive materials. Beginning in 2010 she received Small Business Innovative Research grants from the National Institutes of Health and founded Avalon Biomed Inc. This new company was devoted to bringing affordable bioactive bioceramics for minimally invasive dentistry to people world-wide. In 2015, Dr. Primus redefined the category, launching NeoMTA Plus®, the most versatile non-staining, bioceramic cement for use from coronal to apical procedures.

THE INNOVATION CONTINUES.
Under Dr. Primus’ guidance, the Avalon Biomed team continues to develop innovative bioceramics that offer more clinicians and their patients best-in-class performance, handling, and the versatility for which Avalon Biomed has become known.

LEADING AN INDUSTRY.
Today, Carolyn’s expertise is recognized across the industry. One reason why she was elected as Chair of the American Dental Association and the ISO Standard Committees for endodontic materials.

1981
Researched material for nuclear weapons safety and solar energy power plants. Developed new materials for U.S. Navy.

1985
Directed R&D/QA for a major dental company.

1989
Invented ceramic razor blades & ceramic coatings for consumer products.

1997
Developed ProRoot® Grey manufacturing system for Dentsply.

2002
Invented White ProRoot® MTA. 2002 - 2010: Invented improvements for MTA (tricalcium silicate-type) materials.

2010
Received NIH grants on endodontic bioceramics. Founded Avalon Biomed Inc. to commercialize improved bioactive cements.

2014-2016

2020
Invented NeoMTA2 NeoPUTTY®

Carolyn Primus, PhD
Over 20 years of pioneering innovation in bioactive bioceramics.
“GOOD ENOUGH” IS NOT GOOD ENOUGH

You weren’t satisfied with today’s inert resin and ZOE endodontic sealers or bioactive bioceermatics. So we made bioceermatics better without cutting corners or placing an excessive price tag on bioactivity.

Avalon Biomed
Houston, TX, USA

Covering every indication with the most versatility in delivery systems and product choices.

NeopUTTY

- Indirect Pulp Cap
- Direct Pulp Cap/Partial Pulpotomy
- Cavity Liner/Base
- Pulpotomy/Apexogenesis

NeoMTA 2

- Perforation Repair
- Resorption
- Sealing
- Obturation/Apexification
- Root-End Filling

IT’S TIME TO MOVE UP

to convenient, bioactive materials for all your root and pulp treatments. You and your patients deserve the best materials to deliver the highest standard of patient care.

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NeoPUTTY™ NEXT GENERATION TOOTH AND PULP TREATMENT.

PERFECT CONSISTENCY WITH NO MIXING.

NeoPUTTY delivers a uniform, firm, low-tack putty from beginning to end. Dispense only what is needed with a positive displacement plunger tip for zero waste.

“NeoPUTTY’s ease of use offers predictable, consistent, quality results in a dry or wet environment, whether filling a perforation, performing vital pulp therapy or during apical surgery.”

–Sayeed Attar, DDS, MS
Endodontist

IMMEDIATELY WASH-OUT RESISTANT.

Stays where you want it so you can efficiently complete the procedure ensuring bioactive benefits.

UNMATCHED RADIOPACITY.

Highest in pre-mixed bioceramic putty class at 8.1 mm AI equivalent.

NeoPUTTY™

Positive displacement plunger tip for zero waste.

>1 hr working time
~4 hrs setting time

*Sets in vivo in the presence of moisture.
NeoMTA® 2
ONE PRODUCT FOR 13 OF YOUR MOST IMPORTANT PROCEDURES.

Eliminate guesswork and reduce product waste with this 0.1g measurement scoop.

ONE PRODUCT FOR EVERY PROCEDURE.
NeoMTA 2’s unique proprietary gel allows you to mix to a firm putty or a thinner sealer.

PUTTY
14 min working & setting time
SEALER
21 min working time
1 hr 10 min setting time

HIGHER RADIOPACITY.
NeoMTA 2 – 6.5 mm Al equivalent.
Competitors – 5.0 mm Al equivalent or less.

IMMEDIATELY WASH-OUT RESISTANT.
Stays where you want it so you can efficiently complete the procedure ensuring bioactive benefits.
Every AVALON BIOMED Bioceramic is:

**RESIN-FREE**
for maximum bioactivity and biocompatibility.

**HIGH pH**
when applied to promote osteogenic response.

**BIOACTIVE**
to minimize foreign body reaction and support healing.

**NON-STAINING**
for optimum esthetics.

**DIMENSIONALLY STABLE**
to ensure complete gap-free sealing.

**THOUGHTFULLY DESIGNED**
for unmatched economic value in convenient packaging.

EXPERIENCE THE POWER OF A HIGHER STANDARD FOR YOURSELF.

To place your order and to see what's possible with the world's most versatile bioactive bioceramics, visit AVALONBIOMED.COM

Or email us at INFO@AVALONBIOMED.COM to find out more.
THE REVOLUTION IN BIOCERAMICS HAS BEGUN

WE WILL NOT ACCEPT THAT THE WAY IT HAS BEEN DONE, IS THE WAY IT SHOULD BE DONE.

WE WILL NOT SETTLE FOR LOWER PERFORMING PRODUCTS WHEN BETTER ONES ARE BEING MADE IN HOUSTON, TEXAS RIGHT NOW.

IT’S TIME TO RAISE THE INDUSTRY STANDARD.

TO DELIVER BETTER OUTCOMES TO MORE PEOPLE ACROSS THE WORLD.

TO NEVER STOP INVENTING BETTER SOLUTIONS FOR PATIENTS.

TO PUSH BIOACTIVE BIOCERAMICS FARTHER THAN EVER BEFORE.

ARE YOU READY TO EMBRACE A HIGHER STANDARD?