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NEW of tooth treatment





Professional Background

- Professor, Seoul National University School of Dentistry (2007~)
- Director, Seoul National University Dental Research Institute (2017~2018)
- Associate dean for research affairs, SNU School of Dentistry (2013~2014)
- Research Associate Professor, University at Buffalo, SUNY (2002~2003)
- Academic Award, Korean Academy of Dental Science Gold Prize (2016)

Academic Activities

- 1. International Association for Dental Research (IADR) : Pulp Biology Regeneration Group (PBRG)
- 2. Tooth Morphogenesis and Differentiation (TMD)
- 3. Gordon Conference : Tooth & Bone
- 4. Tripartite Conference on Teeth and Bone

Published Paper: 90 (Nov. 2019)

- hypersensitivity model. J Dent Res. Aug 19. [Epub ahead of print]. PMID:31425664, 2019
- Park YH, Lee YS, Park JS, Kim SH, Bae HS, Park JC. Expression of CPNE7 during mouse dentinogenesis. J Mol Histol. 50(3): 179-188, PMID: 30863901, 2019
- · Choung HW, Lee DS, Park YH, Lee YS, Bai S, Yoo SH, Lee JH, You HG, Park JC. The effect of CPNE7 on periodontal regeneration. Connect Tissue Res. 1-12, PMID:30734591, 2019

HysensBio is a dental biotech company that strives to enhance lives by developing treatments for various intractable dental diseases.

Since our founding in 2016, the driving force behind the successful development of the world's first dentin regenerative technology was our desire to actively apply fundamental dentistry based laboratory results to clinical treatments.

Today, HysensBio is not just about theoretical findings but about enhancing customer value by applying cutting edge findings to global technology and pharmaceutical industries.

We will continue to strive to become a world-renowned dental research company passionately focused on enhancing the health of mankind by conquering intractable

Thank you for your continued interest and encouragement for HysensBio.

CEO Joo-Cheol Park Joo Cheol Park





• Park SH, Lee YS, Lee DS, Park JC, Kim R, Shon WJ. CPNE7 induces biological dentin sealing in a dentin

Research that can change the world

HysenBio continues to pursue the challenge of helping people live healthier and happier lives.

HysensBio was founded on the results of the last 20 years of research. We aim to cement our position among the top R&D biotech companies currently leading the dental and pharmaceutical industry.







Mission

We pursue to contribute to the healthy life of humankind by developing therapeutics based on the original technology of "Cell Activation Platform"

Vision

World-renowned Biotech Company developing incurable disease treatment

Core Value



Company profile

Company	HysensBio Co., Ltd.
R&D Center	Regenerative Dental Medicine R&D Center
Establishment	2016.7.25.
Business Area	Research & Development of therapeutic medicine
Location	2FL MansanBldg, 10 Dwitgol-ro, Gwacheon-si, Gyeonggi-do, Rep. of Korea, 13814
Website	www.hysensbio.com



Patent application and registration

EU

Korea

• 9 registered patents

Overseas

- 3 registered patents (United States, Australia)
- 21 pending patents (in 17 countries)

• **Scientific research** on dentin regeneration has begun

Confirmed the physiologic dentin regeneration with CPNE7 in vivo
HysensBio Co., Ltd. Established
Certified as a venture company

Corporate R&D center Established
Developed the Novel Peptide Medicine (CPNE7 Functional Peptide)

• Funded by the Korean Ministry of Trade, Industry & Energy (KRW 2 billion)

Funded by Korea Investment Partners

 Funded by Korea Investment Partners, DAYLI Partners, Timefolio Asset Management





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Solution **For the Better World**

What HysensBio want to do is research that can actually change the world for the better.

We don't want research results to be merely stay in the laboratory. We believe that the treatment for refractory dental diseases using the innovative technology of HysenBio will make people's lives healthier and more abundant. We will also continue to challenge ourselves to constantly to bring about change.



Odontoblast

In vertebrates, an odontoblast is a cell of neural crest origin that is part of the outer surface of the dental pulp, and whose biological function is dentinogenesis, which is the formation of dentin, the substance beneath the tooth enamel on the crown and the cementum on the root.

Indications: Intractable dental diseases

Dentin Hypersensitivity (Sensitive tooth)

· Dormant odontoblast (alive but not functioning)

· Many People don't receive treatment because of their disbelief of an effective dental treatment and lack of a definite treatment for tooth hypersensitivity.

Market expectation

Dentin Cavity (Dentin decay, Dentin caries)

• Tooth decay due to cavities

 \cdot When the rotten portion reaches the dentin, pain is transmitted, and deeper rotting causes severe pain.







· Pain is felt when an external stimulus is transmitted through exposed dentinal tubules.



· Treatment usually involves removing the rotten area and then filling the area with restorative materials.

Sparkling Innovation

The results of research that sparked from the question, "Why don't teeth regenerate once they rot?"

HysensBio has developed the world's first physiological dentin regenerative technology developed and opened the new era of tooth treatment. CPNE7 Functional Peptide activates the odontoblasts involved in dentin regeneration, regenerating physiological dentin like the dentin of natural teeth.

Dental treatment based on tooth regeneration is no longer a dream but a reality.

Peptide

Peptides are short chains of amino acids linked by peptide (amide) bonds. The simplest peptides are dipeptides, followed by tripeptides, tetrapeptides, etc. A polypeptide is a long, continuous, and unbranched peptide chain.

Innovative Cavity & Hypersensitivity Treatment **CPNE7** Functional Peptide Medicine

Physiological dentin regenerative technology





No more pain No recurrence



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Healthy Life & Healthy Aging

HysensBio wants to provide a healthy life to many people through the commercialization of our technology.

In the not-too-distant future, we believe that people who suffer from various dental diseases will no longer suffer and live healthier lives thanks to our technology.

CPNE7 Functional Peptide :

Dormant odontoblast activation regenerative dental medicine



Medicine : First-in-Class

- Unlocking dormant adult cells
- Prolonged activation of cells
- To occlude exposed dentinal tubules

Dental Device (Hybrid Dental Materials)

- Prolonged activation of cells
- To occlude exposed dentinal tubules
- To compensate for lost dentin



Toothpaste, Mouthwash (for tooth hypersensitivity)

- Temporarily activate cells • To occlude exposed dentinal tubules





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(for tooth hypersensitivity and dentin caries)

• To compensate for lost dentin

How We Work Together

HysensBio works with a network of institutions and companies with the goal of becoming the top R&D biotech company.

In order to derive better research results, we are conducting joint research with universities and institutions. We have established a cooperative system for the commercialization of our products.

We work together to create greater value.









HysensBio Co., Ltd.

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