Dong Yun Lee, PH.D.

Professor Department of Bioengineering Hanyang University, Seoul, Republic of Korea

CEO & Founder Elixir Pharmatech Inc., Seoul, Republic of Korea



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Academic Background:

2005	PhD, Materials Science and Engineering, GIST, Korea
2000	MS, Biochemistry, Hanyang University, Korea
1998	BS, Biochemistry, Hanyang University, Korea

Professional Career:

2021 - Present	Founder & CEO, Elixir Pharmatech Inc., Korea
2009 - Present	Professor. Bioengineering, Hanyang University, Korea
2019 - 2020	Adjunct Professor. College of Pharmacy, University of Utah, USA
2018 - 2019	Visiting Research Scholar, University of Utah, USA
2017 - 2018	Department Chair, Bioengineering, Hanyang University, Korea
2007 - 2009	Post-doc. Joslin Diabetes Center, Harvard Medical School, USA
2005 - 2007	Post-doc. College of Pharmacy, Seoul National University, Korea

HONORS AND AWARDS

2023 특별승급, Hanyang University

2022 7th ENF Creative Innovation Award, The Korean Society of Industrial and

Engineering Chemistry (KSIEC)

(제 7 회 이엔에프 창의혁신상, 한국공업화학회)

- 2021Mid-Career Scientist Award, The Korean Society for Biomaterials (KSBM)
(시지바이오 중견연구자상, 한국생체재료학회)
- 2018Commendation of Prime Minister Award, Korea Government
(2018 년 '국가연구개발 성과평가 유공포상' 국무총리 표창, 대한민국정부)
- 2018
 2018 National R&D Excellence Achievement 100-selected Award, Korea

 (2018 년 국가연구개발 우수성과 100 선 (최우수 성과 12 선), 과학기술정보통신부)
- 2018Mid-Career Scientist Award, The Polymer Society of Korea (PSK)
(중견학술상, 한국고분자학회)

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2018 Excellence Award in a Contest for Bio-Industry by Chungju Diabetes Bio
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Promotion Foundation

(충주 당뇨바이오 진흥재단 공모전 우수상)

2018 JPI Paper Award, Korean Society of Pharmaceutical Science and Technology

(KSPST)

(JPI 논문상, 한국약제학회)

- 2018 특별승진, Hanyang University
- 2016HYU Outstanding Research Scientist, Hanyang University
(신진연구자상, 한양대학교)
- 2014 특별승진, Hanyang University
- 2014HYU Outstanding Research Scientist, Hanyang University
(신진연구자상, 한양대학교)

Research Area:

Biomaterials, Tissue Engineering, Cell & Gene Therapy, Oral Drug Delivery System, Biosensor

Selected Publications (Recent 5 year):

- 1. Kim H.S. et al, Aurozyme: A Revolutionary Nanozyme in Colitis, Switching Peroxidase-like to Catalase-like Activity, **Small (IF 15.153) 2302331 (2023)**
- Kim H.S. et al., Inhibition of DAMP actions in the tumoral microenvironment using lactoferrin-glycyrrhizin conjugate for glioblastoma therapy, Biomaterials Research (IF 15.863), 27, Article number 52 (2023)
- 3. Kang D.K. et al, A Local Water Molecular-heating Strategy for Near-Infrared Long-lifetime Imaging-guided Photothermal Therapy of Glioblastoma, **Nature Communications (IF 17.694), 14, Article number: 2755 (2023)**
- 4. Hwang H.H. et al, Gastrointestinally absorbable lactoferrin-heparin conjugate with anti-angiogenic activity for treatment of brain tumor, Journal of Controlled Release (IF 11.467), 355, 730-744 (2023)
- 5. Jeon H.J. et al., Nanozyme-based colorimetric biosensor with a systemic quantification algorithm for noninvasive glucose monitoring, **Theranostics (IF 11.6)**, **12(14)**, **6308-6338 (2022)**
- 6. Jang S.B. et al, DAMP-modulating nanoparticle for successful pancreatic islet and stem cell transplantation, **Biomaterials (IF 15.304)**, 287, 121679 (2022)
- 7. Kim M.J. et al, Inhibition of HMGB1 release by heme oxygenase-1 gene delivery for immunomodulation of transplanted pancreatic islet, **Journal of Controlled Release (IF 11.467)**, 343, 326-337 (2022)
- Kim H.S. et al, A novel therapeutic strategy of multimodal nanoconjugates for state-of-the-art brain tumor phototherapy, Journal of Nanobiotechnology (IF 9.429), 20, 14 (2022)
- 9. Kim H.S. et al, Milk protein-shelled gold nanoparticle with gastrointestinally active absorption for aurotherapy to brain, **Bioactive Materials (IF 16.874)**, 8, 35-48 (2022)
- Jeon H.J. et al, Optical Assessment of Tear Glucose by Smart Biosensor based on Nanoparticle Embedded Contact Lens, Nano Letters (IF 12.262), 21(20), 8933-8940 (2021)
- Kim M. et al, Novel Enzymatic Crosslinking-based Hydrogel Nanofilm Caging System on Pancreatic β-cell Spheroid for Long-term Blood Glucose Regulation, Science Advances (IF 14.957), 7(26), eabf7832 (2021)
- 12. Park S. et al, Cerium Oxide Nanoparticle-Containing Colorimetric Contact Lenses for Noninvasively Monitoring Human Tear Glucose, **ACS Applied Nano**

Materials (IF 6.104), 4(5), 5198-5210 (2021)

- 13. Kang NY et al., Multimodal imaging probe development for pancreatic b-cells: from fluorescence to PET, Journal of the American Chemical Society (IF 16.308), 142(7), 3430-3439 (2020)
- 14. Jin S.M. et al., Multi-layer surface modification of islets for magnetic resonance imaging using ferumoxytol, **Biomaterials (IF 15.304)**, 214, 119224 (2019)
- Kim S.J. et al., Hydrogels with an embossed surface: An all-in-one platform for mass production and culture of human adipose-derived stem cell spheroids, Biomaterials (IF 15.304), 188, 198-212 (2019)