

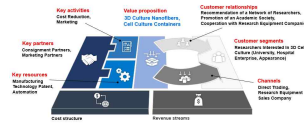
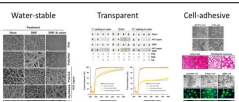


# NANOFAENTECH

Category	Enterprise Creation																																												
○ Corporation	NANOFAENTECH Co., Ltd.																																												
○ Representative	Jong-Young Kwak																																												
○ Establishment year	2018																																												
○ Specialized Field	High-performance nanofiber for 3D cell culture																																												
○ Address	88 Somang-gil, Juchon-myeon, Gimhae-si, Gyeongsangnam-do, Medical Practical Center 604																																												
○ Home page	- Homepage: <a href="http://www.nanofaentech.com">www.nanofaentech.com</a>																																												
○ Enterprise Brief Introduction	<p><b>Management, Organization</b></p>  <ul style="list-style-type: none"> <li>• CEO, Jong-young Kwak</li> <li>• Professor, Department of Pharmacology, Ajou Univ. School of Medicine</li> <li>• Director, 3D Immune System Imaging Core Center</li> <li>• Member of Russian Academy of Science</li> <li>• Post Doc, Emory Univ. School of Medicine</li> <li>• M.D &amp; Ph.D., Busan National Univ.</li> </ul>  <table border="1"> <thead> <tr> <th>Business Area</th> <th>Business contents</th> </tr> </thead> <tbody> <tr> <td>- Three-dimensional cell culture membrane</td> <td>- Functional biomaterial-blended polyvinyl alcohol (PVA) nanofibers to be developed as membrane for 3D cell culture</td> </tr> <tr> <td>- 3D cell culture systems</td> <td>- Hepatocyte culture system</td> </tr> <tr> <td>- Culture plates for 3D cell culture systems</td> <td>- Development and sale of primary hepatocyte and epithelial cell culture system</td> </tr> </tbody> </table> <p><b>Research and Development Goals</b></p> <ul style="list-style-type: none"> <li>- Utilize technology to produce products that respond to consumer markets such as nanofiber sheets and well plates</li> <li>- Development of various models for 3D cell culture using PVA nanofiber</li> <li>- Implementation of drug testing services by establishing 3D incubation conditions from the development of nanofiber supports</li> </ul> 	Business Area	Business contents	- Three-dimensional cell culture membrane	- Functional biomaterial-blended polyvinyl alcohol (PVA) nanofibers to be developed as membrane for 3D cell culture	- 3D cell culture systems	- Hepatocyte culture system	- Culture plates for 3D cell culture systems	- Development and sale of primary hepatocyte and epithelial cell culture system																																				
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○ Product and Pipeline Introduction	<p><b>Core Technology</b></p> <ul style="list-style-type: none"> <li>- Water-stable polyvinyl alcohol nanofiber</li> <li>- Transparent nanofiber membrane</li> <li>- Cell-adhesive polyvinyl alcohol nanofiber membrane</li> </ul> 																																												
○ Patent and Certification, Licensing, Thesis, Investment status, etc.	<p><b>A Key Patent</b></p> <table border="1"> <thead> <tr> <th>The name of an invention</th> <th>Inventor</th> <th>Appl. No.</th> <th>Registration date</th> <th>Status</th> <th>Country of possession</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Method of Manufacturing a Polyvinyl Alcohol Nanofiber Structure for Cell Culture</td> <td rowspan="3">Jong-Young Kwak</td> <td>10-1665918</td> <td>2016.10.06</td> <td>Registered</td> <td>Republic of Korea</td> </tr> <tr> <td>16319148</td> <td>2019.01.18</td> <td>Filed</td> <td>U.S</td> </tr> <tr> <td>PCT/KR2017/000393</td> <td>2017.01.12</td> <td>Filed</td> <td>PCT</td> </tr> <tr> <td rowspan="2">Method for manufacturing polyvinyl alcohol nanofiber membrane enhancing cell specific adhesion</td> <td rowspan="2">Jong-Young Kwak</td> <td>10-2176892</td> <td>2020.11.04</td> <td>Registered</td> <td>Republic of Korea</td> </tr> <tr> <td>16803957</td> <td>2020.02.27</td> <td>Filed</td> <td>U.S</td> </tr> <tr> <td rowspan="3">Nanofiber-based Long-term Primary Hepatocyte Three-dimensional Culture System</td> <td rowspan="3">Jong-Young Kwak</td> <td>10-2062465</td> <td>2019.12.27</td> <td>Registered</td> <td>Republic of Korea</td> </tr> <tr> <td>16649986</td> <td>2020.07.30</td> <td>Filed</td> <td>U.S</td> </tr> <tr> <td>PCT/KR2018/011215</td> <td>2018.09.21</td> <td>Filed</td> <td>PCT</td> </tr> </tbody> </table> <p><b>Other Authentication</b></p> <ul style="list-style-type: none"> <li>• KIBO, Certification of venture companies('20.11.)</li> <li>• KIBO, Selection of U-TECH Valley companies('20.11.)</li> <li>• Approval for the entrance of GMP facilities( '20.11.)</li> </ul>	The name of an invention	Inventor	Appl. No.	Registration date	Status	Country of possession	Method of Manufacturing a Polyvinyl Alcohol Nanofiber Structure for Cell Culture	Jong-Young Kwak	10-1665918	2016.10.06	Registered	Republic of Korea	16319148	2019.01.18	Filed	U.S	PCT/KR2017/000393	2017.01.12	Filed	PCT	Method for manufacturing polyvinyl alcohol nanofiber membrane enhancing cell specific adhesion	Jong-Young Kwak	10-2176892	2020.11.04	Registered	Republic of Korea	16803957	2020.02.27	Filed	U.S	Nanofiber-based Long-term Primary Hepatocyte Three-dimensional Culture System	Jong-Young Kwak	10-2062465	2019.12.27	Registered	Republic of Korea	16649986	2020.07.30	Filed	U.S	PCT/KR2018/011215	2018.09.21	Filed	PCT
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