**Saeromi kim**

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| Relevant experience & skills |  | * Practical hands-on experience in performing *in vitro* analysis using different cell lines in asceptic environment. * Practical hands-on experience in fabrication technologies for biomaterials such as extrusion-based 3D printer, SLA 3D bioprinter, electrospinning and femtosecond laser. * Well trained in excellent written and verbal communication skills, independent self-motivator and a good collaborator. |
| Personal  details |  | Gender: Female Languages: Native Korean  Canadian Citizen Fluent English |
| research Experience |  | MASTERS STUDENT/Researcher, KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY September, 2015 – August, 2017   * Developed and explored optimization of physical and biocompatible properties of bio-degrading photocurable hydrogel biomaterials with 3D bioprinter to produce vascularized scaffolds and contributed in prototype development with Biobots (now Allevi). * Analyzed cellular behavior and conducted biological assays of human epithelial cells with customized intraocular lens to successfully control cellular characteristics to suppress development of capsular opacity disease. * Collaborated with industrial partners and doctors/surgeons to develop the best product with research findings through a government funded research project. * Contributed to and drafted scientific journal manuscripts and presented at numerous conferences with one best presenter award.  Summer research student, UBC Biomaterials group April, 2015 - August, 2015   * Assisted in developing method of analysis of corrosion and wear of failed hip implants using various metallography techniques. * Developed PLGA electrospun fibre sheet for osteoclast cellular behaviour research.  Summer research student, UBC advanced fibrous materials laboratory May, 2014 - August, 2014   * Researched on potential 3D extruder material out of lignin copolymer thermoplastic. * Researched on successfully electrospinning lignin nanofibers to produce carbonized nanofiber particles as a strengthening agent in polymer synthesis.  SUMMER RESEARCH STUDENT, UBC ADVANCED FIBROUS MATERIALS LABORATORY May, 2013 - August, 2013   * Researched on braiding electrospun drug-loaded PVA nanofibers and optimizing mechanical property to be implemented as surgical sutures. |
| Education |  | Korea Institute of science and technology, korea, masters of engineering Majoring in Biomedical Engineering. September, 2015 - August, 2017 University of british columbia, canada, bachelor of applied science Majoring in Materials Engineering. September, 2010 - May, 2015 |
| Awards |  | best presenter award, icmsnt 2017 conference, new zealand April, 2017 Undergraduate Student Research Award, nserc, canada May, 2015 - August, 2015 Undergraduate Student Research Award, nserc, canada May, 2014 - August, 2014 Undergraduate Student Research Award, nserc, canada May, 2013 - August, 2013 |
| references to publications |  | Ultrathin Metal Films with Defined Topographical Structures as In Vitro Cell Culture Platforms for Unveiling Vascular Cell Behaviors, Advanced Healthcare Materials 2016 |
| conference proceedings |  | NANokorea 2017, kyeong-gi do, south korea July 2017. “Periodic nano-textured patterns on poly(HEMA) by femtosecond laser ablation to regulate cell behaviors.” Ksme spring conference 2017, pusan, south korea May, 2017. "Periodic nano-textured patterns on biomaterial by femtosecond laser ablation to regulate cell behaviors." KIM SPRING conference 2017, changwon, south korea April, 2017. "Periodic nano-textured patterns on poly(HEMA) to control cell behaviours." icmsnt 2017, auckland, new zealand April, 2017. “Periodic nano-textured patterns on biomaterial to regulate cell behaviours”. KIM fall conference 2016, pusan, south korea October, 2016. "Observation of the Effect of Micro-groove Patterned Intraocular Lens on Cell Behavior using Femtosecond Laser Lithography." ksbm international symposium 2016, seoul, south korea September, 2016. "Observation of Cell Behaviour on Micro-groove Patterned Intraocular Lens using Femtosecond Laser Lithography." KIM spring conference 2016, Kyeongjoo, south korea April, 2016. "Bioinspired Vascular Channel System Created by 3D Printing with Pluronic F-127 and PEGDA Hydrogel" SAMPE seattle 2014, seattle, wa, USA June, 2014. "Mechanical Property Optimization of Electrospun Nanofiber Braids."  **UBC MURC 2014, VANCOUVER, BC, CANADA**  March, 2014. "Drug Loaded PVA Nanofiber Braided Surgical Sutures." |