



## AAAFM - UCLA 2019 Abstract Announcement

(List of Accepted Abstracts for SS01 - Functional Biomaterials and Biosensors (FBB) for the AAAFM – UCLA 2019)

American Association for Advances in Functional Materials

Serial No:	Symposium	Authors	Title	Mode of Presentation
1	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Chen, Zhao; Haixian, Pan; Guangfeng, Jia; Wenzong, Lu	Preparation of Fluorescent Magnetic Molecularly Imprinted Polymer of Gossypol and Fluorescence Polarization Detection	Invited
2	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Parwez, Khalid	Carbon Nanotubes Reinforced Hydroxyapatite Based Functional Biomaterial for Regenerative Engineering	Oral
3	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Monier, Mohammed	Chiral separation of (±)-methamphetamine racemate using molecularly imprinted sulfonic acid functionalized resin	Poster
4	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Sui, Tan	In situ diagnosis of human enamel demineralisation using advanced time-resolved synchrotron X-ray techniques	Invited
5	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Kapusuz, Derya	Influence of melatonin on sol-to-gel transformation of DNA encapsulating silica: Barrier against ROS damage	Oral
6	Symposium 1: Functional Biomaterials and	kros, alexander	Zebrafish embryos as a tool to study the in vivo behavior of nanomedicines	Oral



	Biosensors (FBB)			
7	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Kao, Ching-Wei, Wu, Min-Hsuan, Liu, Shih-Jung	Analgesics Embedded Biodegradable Nanofibrous Anti-adhesive Films Providing Sustainable Pain Relief for Surgical Wounds	Oral
8	Symposium 1: Functional Biomaterials and Biosensors (FBB)	AL Masry, Waheed, Haider, Sajjad, Haider, Adnan, A. AhmedAli, Fekri, Al-Zeghayer, Yousef	Novel Route for Amine Grafting to Chitosan Electrospun Nanofibers Membrane for the Removal of Copper and Lead ions from aqueous medium	Oral
9	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Mousavi, Seyed Farshid	MicroRNAs and Exosomes in Depression: Potential Diagnostic Biomarkers	Oral
10	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Nasrollahzadeh, Naser, Karami, Peyman, Pioletti, Dominique	Enhanced mechanical and mechanobiological properties of hydrogels by controlling their dissipation sources	Oral
11	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Schmidt, Thorsten L	DNA-assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond	Invited
12	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Neupane, Dharmendra; Bhattarai, Jay; Demchenko, Alexei; Stine, Keith	Recent Applications of Nanoporous Gold to Glycoscience	Poster
13	Symposium 1: Functional Biomaterials	Jang, Eun-Hye; Chung, Sungwook	Chemically functionalized amorphous silica nanoparticles equipped	Poster



	and Biosensors (FBB)		with uniform nanopores for removing hexavalent Chromium ions from wastewater	
14	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Lv, Fengting; Zhou, Lingyun; Liu, Libing; Wang, Shu	In Situ-Induced Multivalent Anticancer Drug Clusters in Cancer Cells for Enhancing Drug Efficacy	Oral
15	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Toker, Sidika Mine	Biocompatibility dependence of metallic biomaterials on microstructural mechanisms	Oral
16	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Liu, Chunxiu	Au nanoparticles-enhanced optical sensor for CRP sandwich detection	Poster
17	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Spokoyny, Alexander	Atomically Precise Hybrid Nanoparticles with Multivalent Capabilities	Oral
18	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhong, Chao	Engineering Living Functional Materials with Synthetic Biology	Oral
19	Symposium 1: Functional Biomaterials and Biosensors (FBB)	HU, Jinlian; Venkatesan, Harun; Chen, Jianming; Jiang, Yuanzhang; GU, Lin	Spider Silks: A Source of Inspiration towards Revolutionary Functional Materials	Oral



20	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Yan-Hom; Chen, Shao-Chun	Effect of Flexibility on the Microswimmers Made of Functional Fluid	Oral
21	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Yao, Yao; Ping, Jianfeng; Ying, Yibin	Flexible Biomimetic Sensors for Extracellular Monitoring Based on Freestanding MXene Film with In-situ Growing Noble Metal Nanoparticles	Oral
22	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhao, Fengnian; Ping, Jianfeng	A Portable Enzymatic Biosensor Based on Bimetallic Nanoparticles Modified Two-dimensional MXene Nanocarriers for Pesticide Detection	Oral
23	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhang, Zhiming; Huang, Chenlu; Zhang, Linhua; Zhu, Dunwan	Dual-responsive polymeric micelles for chemo-photothermal combination therapy	Poster
24	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Huang, Chenlu; Zhang, Zhiming; Zhu, Dunwan; Zhang, Linhua	Bubble-generating polymersomes for synergistic chemo-photothermal tumor therapy	Poster
25	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Alvarez, Noe; Miller, Peter ; Lobo, Rui ; Shanov, Vesselin	Tailoring Electrical Conductivity of Carbon Nanotube Threads During Assembly	Oral
26	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Solberg, Klas; Razavi, Seyed Mohammad Javad; Berto, Filippo	Fatigue assessment of additively manufactured light alloys for biomedical applications	Oral



27	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Kim, Hye Jin; Ahn, Hee Ju; Hwang, Kyo Seon	High accurate bio-fluid based electrical biosensor for commercialization	Oral
28	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Paradee, Nophawan; Sirivat, Anuvat	Gelatin-coated super paramagnetic nanoparticle for cancer drug delivery	Poster
29	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Chatterjee, Shreosi; Das, Surajit	BIOSYNTHESIS OF MAGNETITE NANOPARTICLES USING <i>Aspergillus niger</i> BSC-1 ISOLATED FROM MANGROVE ECOSYSTEM	Poster
30	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Bai, Jing; Wu, Zhen-sen; Ge, Cheng-xian	Stability and dynamics of self-arranged chiral structures in lateral optical binding	Poster
31	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wu, Zhen-sen; Bai, Jing; Ge, Cheng-xian	Interactions between stratified biological cells optically trapped in high-order Bessel beams	Poster
32	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Song, Kedong; Li, Wenfang; Hu, Xueyan; Li, Liying; Liu, Tianqing	Comparison and evaluation of tissue-engineered 3D tumor model based on different resources of biomaterials	Poster
33	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Mahanty, Shouvik; Bakshi, Madhurima; Ghosh, Somdeep;	Adsorption of Cr(VI) from synthetic industrial waste water by iron oxide nanoparticles synthesized using manglicolous fungi	Poster



		Gaine, Tanushree; Chatterjee, Shreosi; Bhattachrya, Subarna Das, Surajit; Saha, Papita; Chaudhuri, Punarbasa	isolated from Indian Sunderbans	
34	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Biswas, Rajib; Boruah, B	Green receptor based qualitative estimation of mercury detection in aqueous solution	Oral
35	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Bhatt, Geeta; Bhattacharya, Shantanu	An inexpensive and robust PCB platform for molecular diagnostics	Oral
36	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Almici, Enrico; Martín-Vañó, Susanna; Montero, Joan; Caballero, David; Noguera, Rosa; Samitier, Josep	Development of 3D engineered cell derived matrices by topological stimuli to assess how matrix anisotropy regulates tumoral cell proliferation and migration	Oral
37	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Moldovan, Marioara; Rosu, Marcela; Prejmorean, Cristina; Pordan, Doina; Popescu, Violeta; Sarosi, Codruta; Carpa, Rahela	Solubility, morphological and antibacterial properties of biomaterials with graphene	Poster
38	Symposium 1: Functional Biomaterials and	Mazilu, Ionela Amalia ; Moldovan, Marioara;	Influence of various whitening agents upon biomaterials used in dentistry	Poster



	Biosensors (FBB)	Popescu, George; Moldovan, Andrei; Sarosi, Codruta; Popescu, Violeta		
39	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Casanellas, Ignasi; Lagunas, Anna; Casanova, Sergi; Vida, Yolanda; Pérez-Inestrosa, Ezequiel; Rodríguez-Pereira, Cristina; Magalhaes, Joana; Andrades, José A.; Becerra, José ; Samitier, Josep	Nanopatterned substrates to promote chondrogenesis and tenogenesis in mesenchymal stem cells	Oral
40	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Samadi, Naghmeh; Nafisi, Shohreh; Nafisi, Shohreh; Houshiar, Mahboubeh; Maibach, Howard	Poly (ethylene glycol)-coated zinc oxide Nanoparticles as carriers for topical delivery of tetracycline	Oral
41	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Hayati, Farzad; Ghamsari, Seyed Mehdi	Saving zone of stasis in burn wounds by intracellular delivery of Adenosine triphosphate: An experimental study in rat	Oral
42	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Hui Zhou, Suping Parthasarathy, Ranganathan Ouyang, Lizhi; Yang, Yong; Fish, Tara;	Production of Bio-plastics Polyhydroxybutyrate by Bacillus cereus tsu1 Using Canola-based Oil Industry Byproduct	Poster



		Thannhauser, Theodore		
43	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Sun, Guoming; Shen, Tom	Pro-regenerative Hydrogel regenerates perfect skin	Oral
44	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Travas-Sejdic, Jadranka; Baek, Paul; Wang, Min; Woorhar, Lenny; Barker, David	Polymer Electronic Materials for Biomedical Applications	Oral
45	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Jing; Huang, Yishun; Tian, Leilei	DNA Polymer Synthesized from Rolling Circle Amplification and Its Biomedical Applications	Oral
46	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Collier, Charles Patrick; Najem, Joseph; Taylor, Graham; Weiss, Ryan; Hasan, Md. Sakib; Rose, Garrett; Schuman, Catherine; Belianinov, Alex; Sarles, Stephen Andy	Electrostriction, capacitive susceptibility, and neuromorphic computing in biomembranes	Oral
47	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Kalluri, Ankarao; Cplash, Kanu; Patra, Prabir; Challa, Vijaya Kumar	Protein Quantum Dots (ProQDs): Biofriendly, Bioactive and White Light Emitting Conductive Protein Hydrogel	Poster
48	Symposium 1: Functional Biomaterials and	Patra, Prabir K; Mohanty, Sujata; Jain, Krishan G; Rawat, Sonali;	Polymer-Graphene Nancomposite Scaffold for the Differentiation of	Oral





	Biosensors (FBB)	Debnath, Debika; Kalluri, Ankarao; Dharmadhikari, Bhushan	Mesenchymal Stem Cell to Functional Neuron	
49	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Qiu, Wenting; Lu, Zhangdi; Li, Yanxiu; Xiong, Yuan; Rogach, Andrey L.; Nagl, Stefan	Multilayer lab-on-a-chip materials for simultaneous digital microfluidic operation and optical chemical sensing and imaging	Oral
50	Symposium 1: Functional Biomaterials and Biosensors (FBB)	qin, Hu; Xia, Cheng; Yao, Cen; Guanhong, Xu; Fangdi, Wei; Menglan, shi; Xiaoman, Xu; Muhammad, Sohail	Highly sensitive and selective determination of adenosine triphosphate based on fluorescence resonance energy transfer between carbon dots and graphene oxide	Poster
51	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Turchanin, Andrey	A universal biosensing platform based on carbon nanomembrane (CNM)/graphene heterostructures	Oral
52	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Porter, James Marshall	Affinity-Based Culture Platform for Human Hormone Profiling	Poster
53	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Krishnan, Sadagopan; Walgama, Charuksha; Singh, Vini; Premaratne, Gayan; Nerimetla, Rajasekhara; Niroula, Jinesh	Robust Pyrenyl Carbon Nanostructures for Biomarker Sensors and Enzyme Electrocatalysis	Oral



54	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhu, Chunhong; Zhu, Wanying; zhou, xuemin	A label-free electrochemical aptasensor based on magnetic biocomposites with Pb <sup>2+</sup> -dependent DNAzyme for the detection of thrombin	Poster
55	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Yang, Tiantian; Xu, Lulu; Liu, Shengchun; Shen, Yifan; Huang, Lizhen; Zhang, Lutan; Ding, Shijia; Cheng, Wei	Colocalization-triggered DNA nanoassembly for facile and amplified imaging of HER2 dimerization on cancer cell surface in tissue samples	Poster
56	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Ferjaoui, Zied; Bezdetnaya, Lina; Schneider, Raphaël; Mertz, Damien; Begin, Sylvie; Gaffet, Eric; Alem, Halima	Smart superparamagnetic nano-carrier for cancer therapy	Oral
57	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Tian, Yanqing	Fluorescent potassium ion sensors	Oral
58	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Nwamba, Okechukwu Charles; Echeverria, Elena; Mcllroy, David, N.; Shreeve, Jean'ne, M.; Aston, D Eric	Thermally Modified Graphites for Fouling-Resistant Electrodes	Oral
59	Symposium 1: Functional Biomaterials	Li, Lan; Li, Jiayi; Guo, Jiamin;	Nano-patterned Bilineage Scaffolds Coated by Self-assembly Peptide	Oral



	and Biosensors (FBB)	Zhang, Huikang; Zhang, Xin; Yin, Caiyun; Wang, Liming; Zhu, Yishen; Yao, Qingqiang	Hydrogels for Simultaneous Osteochondral Regeneration	
60	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Yunda, Elena; Quilès, Fabienne Horwat, David Alem, Halima	Bacterial development on functionalized surfaces: from first steps of adhesion to biofilm growth	Oral
61	Symposium 1: Functional Biomaterials and Biosensors (FBB)	LIU, XD; WU, Y	Alginate-based micro/nanoparticles for the delivery of drugs	Invited
62	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xu, Xiubin; Wu, Xu; Yu, Danfeng	Preparation temperature influence on the properties of hydrogels	Poster
63	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Daskalova, Albena, Bliznakova, Irina; Trifonov, Anton; Angelova, Liliya ; Declercq, Heidi; Buchvarov, Ivan	Controllable patterning designs of biomimetic thin film coatings induced by femtosecond laser texturing for cellular guidance	Poster
64	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Patra, Hirak	Advanced Functional Biomaterials for Programmable Theranostics	Invited
65	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Virtanen, Juhani; Toivanen, Maria; Toimela, Tarja; Heinonen, Tuula; Tuukkanen, Sampo	Direct measurement of human derived cardiomyocyte cluster contraction force using piezoelectric cantilever sensor	Oral



66	Symposium 1: Functional Biomaterials and Biosensors (FBB)	González, Itziar; Pinto, Alberto; Acosta, Victor; Earl, Julie	Low-cost microfluidic devices to perform cell manipulation by ultrasounds	Oral
67	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Awuzie, Chioma Irene; Ucheonye, Emeka Martin	The Applications of Nanotechnology Based Biosensors	Oral
68	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Tran, Hoang Vinh Nguyen, Nghia Duc; Nguyen, Thi Dai Trang; Huynh, Dang Chinh; Le, Hai Dang	Fe <sub>3</sub> O <sub>4</sub> @C core-shell structure: Peroxidase - Like Activity for Development of A Colorimetric Sensor For Glucose Detection. Application to Human Serum	Poster
69	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhu, Xiaolu; Wang, Zheng	Self-organizing Behaviors of Murine Myoblasts in the Dextran Hydrogel with Adjustable Configuration	Poster
70	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xu, Qin; Yang, Xiaoyu; Hu, Xiaoya	Molecular imprinted organometal lead halide perovskites: an effective platform for constructing sensitive and selective photoelectrochemical sensor	Poster
71	Symposium 1: Functional Biomaterials and Biosensors (FBB)	HIRATA, Gustavo A.; Chauhan, Kanchan; Sengar, Prakhar	Rare earth-doped nanosphosphors: Synthesis and novel applications in nanomedicine	Invited
72	Symposium 1: Functional Biomaterials	Ali, Isra Hussein; Khalil, Islam Ahmed;	Phosphodiesterase Inhibitor and Connective Tissue Stimulating Drugs	Oral



	and Biosensors (FBB)	El-Sherbiny, Ibrahim Mohamed	Loaded Nanofibrous Scaffolds for Enhanced Bone Fracture Healing	
73	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Ta, Hang T.; Arndt, Nina; Wu, Yuao; Xu, Zhi Ping	Activatable Gadolinium-Iron Oxide Nanoparticles for Detection and Discrimination of Thrombosis	Oral
74	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Collart Dutilleul, Pierre-Yves; Fatima, Naveen; Cunin, Frédérique; Cuisinier, Frédéric	Porous silicon for tissue engineering: spectroscopic studies of dissolution	Oral
75	Symposium 1: Functional Biomaterials and Biosensors (FBB)	El-Shafey, El-Said Ibrahim; Al lawati, Haider; Al-Busafi, Saleh; Ali, Syeda nahed furqan	functionalized dehydrated carbons from date palm leaflets for pollution control of organic compounds	Oral
76	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Siddique, Hafiz Faisal; Mazari, Adnan Ahmed; Havelka, Antonin	Assessment of compression socks to different mechanical impacts using cut-strip method	Oral
77	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wang, Jing; Zhang, Bei; Ren, Yong	Adaptable Surface Plasmon Resonance Polarimetry System with variable levels of sensitivity and tunable dynamic ranges	Poster
78	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Cucchi, Alessandro; Vignudelli, Elisabetta; Emanuele, Randellini; Paolo, Calamai; Giuseppe, Corinaldesi	Three-dimensional Guided Bone Regeneration (GBR): Customized Titanium laser-sintered meshes with and without collagen membranes.	Invited



79	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Dejun; Li, Li	Effects of Zn and Ag ratio on cell adhesion and antibacterial properties of Zn/Ag co implanted TiN coatings	Poster
80	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Borah, Jyoti Prasad	Nickel-Zinc Ferrite Nanoparticles: A Potential Heat Generating Material for Magnetic Hyperthermia	Invited
81	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Youssef, Hamdy; Alghamdi, Najat	Thermal Influence of Laser Irradiation on Human Breast with Tumor	Oral
82	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Nikam, Dipali Subhash; Pawar, Shivaji H	Highly water-dispersible Betaine-HCl Functionalized Co <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> magnetic NPs for hyperthermia application	Invited
83	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xia, Tian	Use of Polymeric Nanoparticle Platform to induce Treg-mediated Antigen-Specific Immune Tolerance	Invited
84	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Luo, Yuchao	Specific Detection and Visualization of Cyclooxygenase-2 by a Targeted Fluorescent Probe with Conformation-Induced Light Up Activity	Poster
85	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Suleiman, Abdussalam Balarabe; Said, Mansur; Shuaibu Gidado, Abdulkadir	Determination of electronics and molecular structure of Nategliline antidiabetic drugs using DFT	Oral



86	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Tiwari, Rahul; Mohapatra, Debasish; Vyas, Suresh Prasad; Soni, Vandana	Cisplatin loaded lectinized liposomes system for nuclear targeting	Poster
87	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Pandey, Pratima	Nano-biomaterials in Antimicrobial Therapy	Invited
88	Symposium 1: Functional Biomaterials and Biosensors (FBB)	wu, zhonghua; xing, xueqing	Metallofullerenol Inhibits Cellular Iron Uptake By Specially Inducing Transferrin Tetramerization	Poster
89	Symposium 1: Functional Biomaterials and Biosensors (FBB)	li, zhihong	Measurement of Protein Size in Concentrated Solutions by Small Angle X-Ray Scattering	Poster
90	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Lin, Fangfei; Yuan, Songmei; Han, Wenliang	A New Antimicrobial Method Against Indwelling Catheter-related Infection	Oral
91	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Min	Frequency Shift Raman-Based Sensing of Serum Biomarkers for Early Diagnosis and Discrimination of Primary Liver Cancers	Invited
92	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Park, Jae Suh; Kim, Soon Woong; Oh, Sung Hwan; Kim, Kwan Young; Park, Yi Se;	A novel Anti-freezing Biopolymer derived from Antarctic Microorganism as Cryoprotective Agent	Poster



		Lee, Seok Bae; Kim, Dong Hyun		
93	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Cheng, Guosheng	3D graphene scaffolds meets neural stem cells	Invited
94	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wang, Yi	Zein-paclitaxel prodrug nanoparticles for redox- triggered drug delivery and enhanced therapeutic efficiency	Oral
95	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Gutierrez-Sanz, Oscar; M. Andoy, Nesha; S. Filipiak, Marcin; Haustein, Natalie; Tarasov, Alexey	Direct, label-free and rapid transistor-based immunodetection in whole serum	Poster
96	Symposium 1: Functional Biomaterials And Biosensors (FBB)	Kasinathan, Kana, Noluthando; Kulandaiswamy, Arockia Jayalatha; Rayappan, John Bosco Balaguru; Vedamuthu, John Kennedy; Malik, Maaza; Rathnakumar, Sowmya Sri	Stalling Behaviour of Chloride ions: A Non- enzymatic Electrochemical Detection of $\alpha$ -Endosulfan using CuO Nano-interface	Invited
97	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xiao, Shili; Peng, Qingyan; Tao, Yongzhen; Shi, Xiangyang; Xu, Weilin	pDNA-activated Electrospun PLGA Nanofibrous Scaffolds for Tissue Engineering	Poster





98	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Xinghua; Yin, Zhouyang; Wang, Yingying	3D Label-Free Matrix Metalloproteinase-3 Immunosensor Based on Graphene Oxide/Polypyrrole-Ionic Liquid Nanocomposite	Poster
99	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wang, Pan; Yang, Ning; Yuan, Shouqi	Performance Evaluation of Particle Separation Impactor with an Additional Compound Structure	Invited
100	Symposium 1: Functional Biomaterials and Biosensors (FBB)	M. Dominguez, Carmen; Niemeyer, Christof	Origami-based Microfluidic Interface for Cell Signaling	Poster
101	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Hu, Yong	Carbon-Nanotube Reinforcement of DNA-Silica Nanocomposites Yields Programmable, Cell-Instructive Biocoatings	Poster
102	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Schneider, Karl Heinrich; Enayati, Marjan); Rohringer, Sabrina; Grasl, Christian ; Almeria, Chiara ; Walter, Ingrid; Wojta, Johann; Schima, Heinrich; Hallstroem, Seth; Podesser, Bruno; Bergmeister, Helga	In-vitro and in-vivo evaluation of small-diameter nitric oxide-eluting biodegradable vascular grafts	Poster
103	Symposium 1: Functional Biomaterials	Kaur, Manjot; Nakamura,	Nanostructured boron carbide for cancer	Poster



	and Biosensors (FBB)	Hiroyuki; Kumar, Akshay	treatment by boron neutron capture therapy	
104	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Elçin, Yaşar Murat; Parmaksiz, Mahmut; Vurat, Murat Taner Lalegül-Ülker, Özge; Durkut, Serap Koç-Demir, Aysel; Elçin, Ayşe Eser	Magneto-Sensitive Decellularized Bone Matrix as a Regenerative Biomaterial	Poster
105	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Uribe, Omar; Godinez, R; Morales, J.; Velasco, Myrian; Olayo, R.	Polypyrrole nanoparticles synthesized by plasma as promoters of rat pancreatic islets capsules	Oral
106	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Cardinell, Kirsten Lauren; Gupta, Neeru; Zhou, Xun; Luciani, Paola; Kumaradas, Carl; Yucel, Yeni	A Systematic Approach to Compare Commercial Near-Infrared Dyes for Photoacoustic Imaging	Oral
107	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Chen, Peng; Wang, Chuanqi; Le, Yuan	Dasatinib Nanocrystal and Nanotablets	Poster
108	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Li, Xiaoyan; Peng, Gang; Chen, Xiaojun; Huang, He	Double determination of long noncoding RNAs from lung cancer via multi-amplified electrochemical genosensor at sub-femtomole level	Oral
109	Symposium 1: Functional	Bertlein, Sarah Brown, Gabriella	Thiol-ene Clickable Gelatin as Bioink for	Oral



	Biomaterials and Biosensors (FBB)	Lim, Khoon Jüngst, Tomasz Tessmar, Jörg Hooper, Gary Woodfield, Tim Groll, Jurgen	Biofabrication: Expanding the Fabrication Window through Macromolecular Cross-linkers	
110	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Blohbaum, Julia Berberich, Oliver Hölscher-Doht, Stefanie Albrecht, Krystyna Meffert, Rainer Tessmar, Jorg Blunk, Torsten Groll, Jurgen	Catechol-modified Poly(oxazoline)s with Tunable Degradability Facilitate Cell Invasion and Lateral Cartilage Integration	Poster
111	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Jungst, Tomasz Pennings, Iris Schmitz, Michael Rosenberg, A. J. W. P. Gawlitta, Debby Groll, Jurgen	Orchestrating cellular organization and phenotype in small diameter bi-layered vascular grafts by heterotypic scaffold design	Oral
112	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Shi, Aimin; Liu, Hongzhi; Chen, Qionglin; Wang, Qiang	Novel nanoliposomes for resveratrol through high pressure microfluidization: characterization and stability evaluation	Oral
113	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Basu, Tarakdas; Nandy, Sanchita	Synthesis, Characterization and Anti-Shigellosis Potency of Cu-Ag Bimetallic Nanoparticle	Invited
114	Symposium 1: Functional Biomaterials and Biosensors (FBB)	ESMAEILI, AKBAR	Delivery of tissue plasminogen activator and streptokinase magnetic nanoparticles to target vascular diseases	Poster
115	Symposium 1: Functional	Školoudík, Lukaš Chrobok, Viktor	The transplantation of hBM-MSCs increases	Oral



	Biomaterials and Biosensors (FBB)	Kočí, Zuzana Popelář, Jiří Laco, Jan Filipová, Alžběta Filip, Stanislav	bone neo-formation and preserves hearing function in the treatment of temporal bone defects.	
116	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Adewuyi, Sheriff	Biopolymeric Metal-Azo Nanohybrids as Sensoring Material for Toxic Water-Soluble Anions	Oral
117	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Workie, Yitayal Admassu Imae, Toyoko Krafft, Marie Pierre	Fluorinated poly(ethylene glycol)@graphene oxide platform for nitric oxide gas delivery system and their antibacterial activity	Oral
118	Symposium 1: Functional Biomaterials and Biosensors (FBB)	MohammadiRoozbahani, Golbarg Chen, Xiaohan Zhang, Youwen H Soflaee, Mona Guan,	Enzyme assisted nanopore detection of Zn(II) ions	Oral
119	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Chimphango, Annie Fabian Abel	Diversifying structural and functional properties hemicelluloses through manipulation of pretreatment, extraction and modification conditions to produce advanced biomaterials and biocomposites	Oral
120	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Saftics, Andras Türk, Barbara Gerecsei, Tamás Sulyok, Attila Nagy, Norbert Szekacs, Inna Kurunczi, Sándor Horvath, Robert	Dextran-based hydrogel layers for label-free biosensing and cell micropatterning	Oral