Reichert Surface Plasmon Resonance Publications

2019

1. Chiman Song, Namkyoung Kim, Miri Park, Jiyeon Lee, Ki-Bong Oh, Taebo Sim, “Procaspase activating compound 1 controls tetracycline repressor-regulated gene expression system,” Bioscience Reports Jan 08, 2019, 39 (1) BSR20180793; DOI: 10.1042/BSR20180793.
2. Han Wen, Wenwu Xiao, Sangita Biswas, Zhaoqing Cong, Xin- Min Liu, Kit S. Lam, Yong-Hong Liao, and Wenbin Deng, “An Alginate Hydrogel Modified with a Ligand Interacting with #3#1 Integrin Receptor Promotes the Differentiation of 3D Neural Spheroids towards Oligodendrocytes in vitro,” ACS Appl. Mater. Interfaces, Just Accepted Manuscript • DOI: 10.1021/acsami.8b19438 • Publication Date (Web): 15 Jan 2019.
3. Nan Zhao, James Coyne, Ming Xu, Xiaolong Zhang, Akiho Suzuki, Peng Shi, Jinping Lai, Guo-Hua Fong, Na Xiong, and Yong Wang, “Assembly of Bifunctional Aptamer-Fibrinogen Macromer for VEGF Delivery and Skin Wound Healing,” Chem. Mater., Just Accepted Manuscript • DOI: 10.1021/acs.chemmater.8b04486 • Publication Date (Web): 11 Jan 2019.
4. Bingcheng Wang, “Agonists of Epha and Their Uses,” Patent US 2019 / 0002446 A1, Publication date Jan . 3 , 2019.
5. Devendra Bhandari, Fur-Chi Chen, Shreya Hamal and Roger C. Bridgman, “Kinetic Analysis and Epitope Mapping of Monoclonal Antibodies to Salmonella Typhimurium Flagellin Using a Surface Plasmon Resonance Biosensor”, Antibodies, 2019, 8(1), 22; https://doi.org/10.3390/antib8010022.
6. Won-Su Yoon, Seung-Hyeon Seok, Hyung-Sik Won, Taehwan Cho, Sang Jae Lee, Min-Duk Seo,” Structural changes of antitoxin HigA from Shigella flexneri by binding of its cognate toxin HigB,” International Journal of Biological Macromolecules, Volume 130, 1 June 2019, Pages 99-108, doi.org/10.1016/j.ijbiomac.2019.02.111.
7. WeiDai, Cong Zheng, Bintao Zhao, Kuo Chen, Pengxiang Jia,, Jingfa Yang and Jiang Zhao, “A Negative Correlation between Water Content and Protein Adsorption on Polymer Brushes,” J.Mater.Chem.B,2019,7, 2162--2168, DOI: 10.1039/c8tb03061h.
8. Timm Schwaar, Maike Lettow, Dario Remmler, Hans G. Börner and Michael G. Weller, “Efficient Screening of Combinatorial Peptide Libraries by Spatially Ordered Beads Immobilized on Conventional Glass Slides,” High-Throughput 2019, 8, 11; doi:10.3390/ht8020011.
9. Timm Schwaar, Maike Lettow, Dario Remmler, Hans G. Börner and Michael G. Weller, “Efficient Screening of Combinatorial Peptide Libraries by Spatially Ordered Beads Immobilized on Conventional Glass Slides,” High-Throughput 2019, 8, 11; doi:10.3390/ht8020011.
10. Teodor Adrian Enache, Elena Matei, and Victor Constantin Diculescu, “Electrochemical Sensor for Carbonyl Groups in Oxidized Proteins,” Anal. Chem. 2019, 91, 1920−1927.

www.ReichertSPR.com

Innovative precision instruments for over a century

Corporate Office
Reichert Technologies Life Sciences
3362 Walden Avenue, Suite 100
Buffalo, New York 14043 USA
Tel. +1 716-686-4500, Fax. +1 716-686-4555
Toll Free USA 1-888-849-8955
E-mail: reichertspr.lifesciences@ametek.com

European ServiceCenter
Carl-von-Linde Str. 42-85716
Unterschleissheim/Munich
Germany
Tel. +49 89 315 89110
Fax. +49 89 315 89199

Reichert Surface Plasmon Resonance Publications

2018

1. Guang Wu, Dongbum Kim, Jung Nam Kim, Sangkyu Park, Sony Maharjan, Heeju Koh, Kyungduk Moon, Younghee Lee, Hyung-Joo Kwon, "A Mucin1 C-terminal Subunit-directed Monoclonal Antibody Targets Overexpressed Mucin1 in Breast Cancer," Theranostics, 2018, 8, 78-91, doi:10.7150/thno.21278.
2. Sho Hideshima, Mai Saito, Keisuke Fujita, Yoshitaka Harada, Mika Tsuna, Satoshi Sekiguchi, Shigeki Kuroiwa, Takuya Nakanishi, Tetsuya Osaka, "Label-free detection of allergens in food via surfactant-induced signal amplification using a field effect transistor-based biosensor," Sensors and Actuators B 254 (2018) 1011–1016.
3. Yahui Zhang, Lin Wang, Xiang Xu, Fang Li & Qingsheng Wu, Published Online:17 Jan 2018, " Combined systems of different antibiotics with nano-CuO against Escherichia coli and the mechanisms involved," Nanomedicine, 2018, Volume 13, Number 3, doi.org/10.2217/nnm-2017-0290.
4. Hafezeh Salehabadi, Khosro Khajeh, Bahareh Dabirmanesh, Mahmood Biglar, Sara Mohseni, Massoud Amanlou, "Surface Plasmon Resonance Based Biosensor for Discovery of New Matrix Metalloproteinase-9 Inhibitors," Sensors and Actuators B: Chemical, in press, doi.org/10.1016/j.snb.2018.02.073.
5. Sandeep Pallerla, Himgauri Naik, Sitanshu Singh, Ted Gauthier, Rushikesh Sable andSeetharama D. Jois, "Design of cyclic and d-amino acids containing peptidomimetics for inhibition of protein-protein interactions of HER2-HER3," J. Pep Sci. 2018;24 :e3066, DOI: 10.1002/psc.3066.
6. Fernando Goñi, Mitchell Martá-Ariza, Krystal Herline, Daniel Peyser, Allal Boutajangout, Pankaj Mehta, Eleanor Drummond, Frances Prelli and Thomas Wisniewski, "Anti-β-sheet conformation monoclonal antibody reduces tau and Aβ oligomer pathology in an Alzheimer's disease model," Alzheimer's Research & Therapy (2018) 10:10, DOI 10.1186/s13195-018-0337-3.
7. Zdenek Kukacka, Marius Iurascu, Loredana Lupu, Hendrik Rusche, Mary Murphy, Lorenzo Altamore, Fabio Borri, Stefan Maeser, Anna Maria Papini, Julia Hennermann, and Michael Przybylski, "Antibody Epitope of human α-Galactosidase A revealed by affinity-mass spectrometry: A basis for reversing immunoreactivity in enzyme replacement therapy of Fabry's Disease," ChemMedChem (2018), 10.1002/cmdc.201800094.
8. Ekaterina V. Filippova, Bozena Zemaitaitis, Theint Aung, Alan J. Wolfe, Wayne F. Anderson, "Structural Basis for DNA Recognition by the Two-Component Response Regulator RcsB," January/February 2018, Volume 9, Issue 1, e01993-17, doi.org/10.1128/mBio.01993-17.
9. Jakub Gruszczyk, Usheer Kanjee, Li-Jin Chan, Sébastien Menant, Benoit Malleret, Nicholas T. Y. Lim, Christoph Q. Schmidt, Yee-Foong Mok, Kai-Min Lin, Richard D. Pearson, Gabriel Rangel, Brian J. Smith, Melissa J. Call, Michael P. Weekes, Michael D. W. Griffin, James M. Murphy, Jonathan Abraham, Kanlaya Sriprawat, Maria J. Menezes, Marcelo U. Ferreira, Bruce Russell, Laurent Renia, Manoj T. Duraisingh, Wai-Hong Tham1, "Transferrin receptor 1 is a reticulocyte-specific receptor for Plasmodium vivax," Science, 2018, Volume 359, pp. 48–55.
10. May H. Abdel Aziz, Umesh R. Desai, "Novel heparin mimetics reveal cooperativity between exosite 2 and sodium-binding site of thrombin", Thrombosis Research, Online 17 March 2018, doi.org/10.1016/j.thromres.2018.03.013.
11. Haejun Pyun, Unwoo Kang, Eun Kyoung Seo and Kyunglim Lee, "Dehydrocostus lactone, a sesquiterpene from Saussurea lappa Clarke, suppresses allergic airway inflammation by binding to dimerized translationally controlled tumor protein," Phytomedicine, Available online 19 March 2018, doi.org/10.1016/j.phymed.2018.03.045.
12. Fabian Risse, Erk T. Gedig and Jochen S. Gutmann, "Carbodiimide-mediated immobilization of acidic biomolecules on reversed-charge zwitterionic sensor chip surfaces," Analytical and Bioanalytical Chemistry, published online 30 April 2018, doi.org/10.1007/s00216-018-1048-0.
13. Kai Ding, Rong Li, Yao Ma, Nan Li, Ting Zhang, Xing Cheng-Mei, Hai-Tao Jiang, and Yong-Kuan Gong, "Folate Ligand Orientation Optimized during Cell Membrane Mimetic Micelle Formation for Enhanced Tumor Cell Targeting," Langmuir, 2018, DOI: 10.1021/acs.langmuir.8b00744.
14. Ana María Méndez-Torres, Catalina Sandoval-Altamirano, María Sánchez-Arenillas, José F. Marco, Claudia Yáñez, "Amino β-cyclodextrins immobilized on gold surfaces: Effect of substituents on host-guest interactions," Electrochimica Acta, 2018, 282, pp. 860-869.

Reichert® TECHNOLOGIES Life Sciences

www.ReichertSPR.com

Innovative precision instruments for over a century

Corporate Office
Reichert Technologies Life Sciences
3362 Walden Avenue, Suite 100
Buffalo, New York 14043 USA
Tel. +1 716-686-4500, Fax. +1 716-686-4555
Toll Free USA 1-888-849-8955
E-mail: reichertspr.lifesciences@ametek.com

European ServiceCenter
Carl-von-Linde Str. 42-85716
Unterschleissheim/Munich
Germany
Tel. +49 89 315 89110
Fax. +49 89 315 89199

AMETEK® ULTRA PRECISION TECHNOLOGIES

Reichert Surface Plasmon Resonance Publications

2018

MP◊ Minwoo Kih, Eun Jung Lee, Na Kyeong Lee, Yoon Kyoung Kim, Kyung Eun Lee, Cherlhyun Jeong, Yoosoo Yang, Dong- Hwee Kim, and In-San Kim, “Designed trimer-mimetic TNF superfamily ligands on self-assembling nanocages,” Biomaterials, Available online 7 July 2018, doi.org/10.1016/◊biomaterials.2018.07.009.

MC◊ Suresh B. Rangasamy, Malabendu Jana, Avik Roy, Grant T. Corbett, Madhuchhanda, Sujyoti Chandra, Susanta Mondal, Sridevi Dasarathi, Elliott J. Mufso, Rama K. Mishra, Chi-Hao Luan, David A. Bennett and Kalipada Pahan, “Selective disruption of TLR2/MyD88 interaction inhibits inflammation and attenuates Alzheimer’s pathology,” J Clin Invest., 2018, First published July 10, 2018, doi.org/10.1172/JCI96209.

MT◊ Jae-Jin Lee, Hwang Suk Kim, Ji-Sun Lee, Jimin Park, Sang Chul Shin, Soonwha Song, Eunsun Lee, Jung-Eun Choi, Ji-Wan Suh, Hongsoo Lee, Eunice EunKyeong Kim, Eun Kyoung Seo, Dong Hae Shin, Ho-Young Lee, Hee-Yoon Lee & Kong-Joo Lee, “Small molecule activator of Nm23/ NDPK as an inhibitor of metastasis,” Scientific Reports, 2018, 8:10909 | DOI:10.1038/ s41598-018-29101-6.

MY◊ Thomsen L, Gurevich L, “.A surface plasmon resonance assay for characterisation and epitope mapping of anti-GLP- antibodies,” J Mol Recognit. 2018 Aug;31(8):e2711. doi: 10.1002/jmr.2711. Epub 2018 Apr 19.

M◊◊ Hyoung Kyu Kim, Sung Woo Cho, Hye Jin Heo, Seung Hun Jeong, Min Kim, Kyung Soo Ko, Byoung Doo Rhee, Natalia P. Mishchenko, Elena A. Vasileva, Sergey A. Fedoreyev, Valentin !◊ Stonik and Jin Han, “A Novel Atypical PKC-Iota Inhibitor, Echinochrome A, Enhances Cardiomyocyte Differentiation from Mouse Embryonic Stem Cells,” Mar. Drugs 2018, 16, 192; doi:10.3390/md16060192.

НЛ◊ Akinrinade George Ayankojo, Jekaterina Reut, Andres Öpik, Andreas Furchner and Vitali Syritski, “Hybrid molecularly imprinted polymer for amoxicillin detection,” Biosensors and Bioelectronics, 2018, 118, pp. 102-107.

НМ◊ Naveen K. Singh, Sunil K. Arya, Pedro Estrela and Pranab Goswami, “Capacitive malaria aptasensor using Plasmodium falciparum glutamate dehydrogenase as target antigen in undiluted human serum,” Biosensors and Bioelectronics, 2018 117, pp. 246-252.

НН◊ wI·fdzŎI· ¡ŭŜŦŇyŜăŎdzΣ [2ℕŜŘI·yl· [dzLJdzΣ aI·ℕfŜyl· aI·yŜI·Σ w2ÈI·yl· 9 LI·Ō2ō I·yŘ aλÔKI·Šf tℕÎèōètãʅʌΣ ƀa 2fŜÔdzfI·ℕ ÔKI·ℕI·ÔűŜℕλÎI·úλ2y˙2Ŧ űKŜ ȷπI·Y˙ètƨλŘóпπмлú ŜLJλúƨLJŜ 2Ŧ LJfI·IjdzŜ ăLJŜÔλŦλÔ ! ȷ I·yűλō2ŘλŜă ōè I·ŦŦλyλúèπ Y˙I·ăă ăLJŜÔűℕ2YˆŜűℕè dzăλyƎ I·fI·yλyŜ ăλúŜ Y˙dzúI·úλ2yΣƀ W tŜLJ {ŎλФ нлмуТнпŸŜолптΣ Ř2λФ2ℕƎкмлФмллнкLJăÔФолптФ

23. Pavel Zhurauskia, Sunil K. Arya, Pawan Jolly, Christian Tiede, Darren C. Tomlinson, Paul Ko Ferrigno and Pedro Estrela, “Sensitive and selective Affimer-functionalised interdigitated electrode-based capacitive biosensor for Her4 protein tumour biomarker detection,” Biosensors and Bioelectronics, Volume 108, 2018, Pages 1-8.

H4◊ Harry C. Blair, Quitterie, C. Larrouture, Irina L. Tourkova, Li Liu, Jing Hao Bian, Donna Beer Stolz, Deborah J. Nelson, and Paul I◊ Schlesinger, “Support of bone mineral deposition by regulation of pH,” Am J Physiol Cell Physiol., 2018, Oct 1;315(4):C587-C597,. doi: 10.1152/ajpcell.00056.2018. Epub 2018 Jul 25.

H5◊ Juyeon Lee, Boyeon Park, Byeongjin Moon, Jeongjun Park, Hyunji Moon, Kwanhyeong Kim, Sang-Ah Lee, Deokhwan Kim, Chanhyuk Min, Dae-Hee Lee, Gwangrog Lee, Daeho Park, “A scaffold for signaling of Tim-4-mediated efferocytosis is formed by fibronectin,” Cell Death and Differentiation (IF 8) Pub Date : 2018-11-19 , DOI: 10.1038/s41418-018-0238-9.

H6◊ Francesca Rinaldi, Loredana Lupu, Hendrik Rusche, Zdeněk Kukačka, Sara Tengattini, Roberta Bernardini, Luciano Piubelli, Teodora Bavaro, Stefan Maeser, Loredano Pollegioni, Enrica Calleri, Michael Przybylski and Caterina Temporini, “Epitope and affinity determination of recombinant Mycobacterium tuberculosis Ag85B antigen towards anti-Ag85 antibodies using proteolytic affinity-mass spectrometry and biosensor analysis,” Analytical and Bioanalytical Chemistry, pp. 1-10, Online: 29 November 2018.

H7◊ Tran Thi Dung, Moonil Kim, “A Surface Plasmon Resonance Sensor for Detection of Toluene ($C_6H_5CH_3$),” Vol.27, No.6, 2018.11, 184-188, DOI :10.5757/ ASCT.2018.27.6.184.

H8◊ Jamie A. Moroco, John Jeff Alvarado, Ryan P. Staudt, Haibin Shi, Thomas E. Wales, Thomas E. Smithgall, John R. Engen, "Remodeling of HIV-1 Nef Structure by Src-Family Kinase Binding," Journal of Molecular Biology, Volume 430, Issue 3, 2 February 2018, Pages 310-321, https://doi.org/10.1016/ ◊jmb.2017.12.008

29. Jin Gu Cho, Key Hwan Lim and Sang Gyu Park, “MED28 increases the colony-forming ability of breast cancer cells by stabilizing the ZNF224 protein upon DNA damage,” Oncology Letters, 15: 3147-3154, 2018, DOI: 10.3892/ol.2017.7718.