Sensors & Diagnostics

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EDITORIAL

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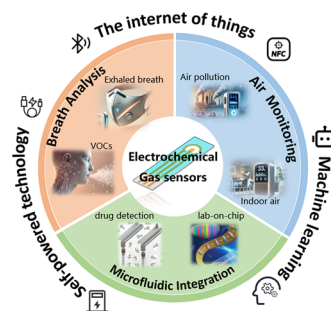
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TUTORIAL REVIEW

1060

Advancements in smart electrochemical gas sensors: bridging IoT, self-powering, and machine learning for healthcare

Hongyang Guo, Zhuoru Huang, Xiaojing Zhang, Haoting Zhang, Jiaying Sun, Yuzi Zeng, Yanjie Hu, Yong Zhou, Hao Wan* and Ping Wang*
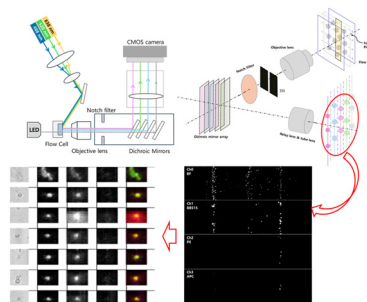

COMMUNICATION

1086

Simple and fast detection of CD4 and CD8 cells: integration of image flow system and acoustophoresis
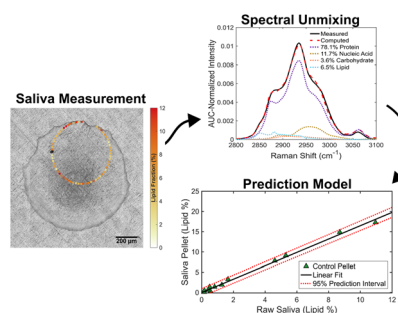
Enjian Jin, Anna Go and Min-Ho Lee*

PAPERS

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High-wavenumber Raman spectroscopy for the detection of *Mycobacterium tuberculosis* in saliva
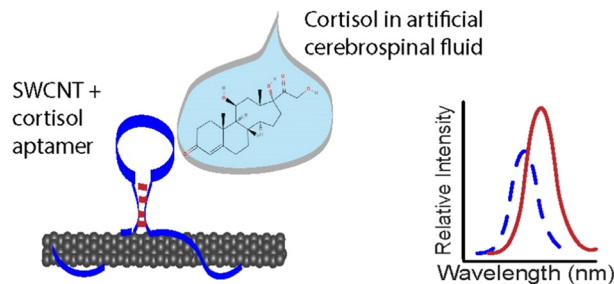
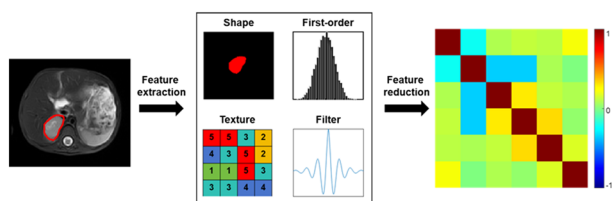Alec B. Walter, Luke Whitehead, Amelia L. Taylor and Andrea K. Locke*

1103

A near-infrared fluorescent aptananosensor enables selective detection of the stress hormone cortisol in artificial cerebrospinal fluid

Jessica Kretli Zanetti, Maria Celina Stefoni, Catarina Ferraz, Amelia Ryan, Atara Israel and Ryan M. Williams*
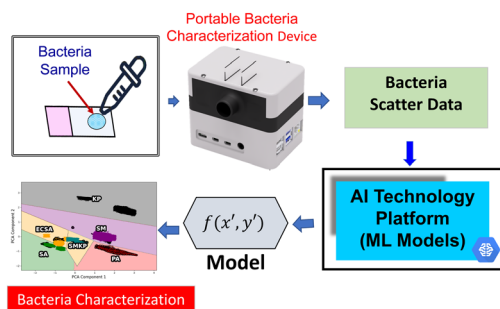
PAPERS

1114

MRI-based radiomic signature for MYCN amplification prediction of pediatric abdominal neuroblastoma

Xuan Jia, Junjie Wen, Jiawei Liang, Xiaohui Ma, Wenqi Wang, Jinhu Wang* and Yi Zhang*

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Pathogenic bacteria characterization through portable optical scatter device and machine learning

Ramana Pidaparti,* Sanjay Oruganti, Naveen Kurra, Patrick Maffe, Everett Grizzle,* Arnab Mondal, Rebecca Johnson, Hitesh Handa and Rao Tatavarti