

第3回 VBL セミナー (2019年)

3rd VBL Seminar, 2019

日時 : 2019年7月19日(金) 15時00分~16時30分

場所 : C-TECs 5階 ナレッジコモンズ

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題目: Nanomaterials in biosensors application

A developed variety of biosensors have contributed significant impacts on daily life. Essential issues to take into consideration the integration of biosensing platforms include the requirement for low costs and large scalable, particularly for point-of-care applications where user-friendly must also be considered. In point of these developmental factors, electrochemical methods are the very potential candidate techniques due to their simplicity, high sensitivity, and specificity. The primary focus of my research is to improve the utility of nanomaterials, which are currently being studied for a variety of fields as electronics and medical and sensing platforms. Highly sensitive and stable nanomaterials-based biosensors have opened up the possibility of creating novel approaches for the early-stage detection, diagnosis, and monitoring of disease-related biomarkers [1, 2]. The attractive properties of nanomaterials have paved the way for the fabrication of electrochemical sensors that exhibit improved analytical capacities [3]. This presentation introduces nanomaterials based electrochemical sensors and to show their benefits in some biomedical applications.

1. Viet, N. X., Hoan, N. X., & Takamura, Y. (2019), *Materials Chemistry and Physics*, 227, 123-129.
2. Van Dat, P., & Viet, N. X. (2019). *Materials Science and Engineering: C*, 103, 109758.
3. Viet, N. X., Kishimoto, S., & Ohno, Y. (2019), *ACS applied materials & interfaces*, 11(6), 6389 - 6395.

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