

Peer Reviewed Publications and Conference Abstracts

2023

Shore, ND, Polikarpov, D, Pieczonka, CM, Henderson, RJ, Bailen, JL, Saltzstein, DR, Concepcion, RS, Beebe-Dimmer JL, Ruterbusch JJ, Levin RA, Wissmueller S, Ho Le T, Gillatt, DA, Chan, DW, Deng N, Siddireddy, J, Lu Y, Campbell, DH, & Walsh, BJ 2022, 'Development and evaluation of the MiCheck[®] prostate blood test for clinically significant prostate cancer. Submitted to *Urologic Oncology*

Gillatt, D, Polikarpov, D, Smith I, Lau H, Kim L, Lim K, Huynh C, Siddireddy J, Lu, Y, Deng, N, Campbell D, Walsh B, Patel, M 2023. Validation of MiCheck[®] Prostate for significant prostate cancer in an Australian population. *J Urol vol 209 S4, p e215*. <https://doi.org/10.1097/JU.0000000000003237.07>

Gillatt, D, Polikarpov, D, Smith I, Lau H, Kim L, Lim K, Huynh C, Siddireddy J, Lu, Y, Deng, N, Campbell D, Walsh B, Patel, M 2023. Validation of MiCheck[®] Prostate for significant prostate cancer in an Australian population. *BJUI vol 131 S1*. <https://doi.org/10.1111/bju.15962>

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Gillatt, D, Polikarpov, D, Smith I, Lau H, Kim L, Lim K, Huynh C, Siddireddy J, Lu, Y, Deng, N, Campbell D, Walsh B, Patel, M 2022. Validation of MiCheck[®] Prostate for significant prostate cancer in an Australian population. *BJUI vol 129 S2*. https://doi.org/10.1111/bju.3_15743

Sayyadi, N, Justiniano, I, Wang, Y, Zheng, X, Zhang, W, Jiang, L, Polikarpov, DM, Willows, RD, Gillatt, D, Campbell, D, Walsh, BJ, Yuan, J, Lu, Y, Packer, NH, Wang, Y & Piper, JA 2022, 'Detection of rare prostate cancer cells in human urine offers prospect of non-invasive diagnosis', *Scientific Reports*, vol. 12, no. 1, 18452. <https://doi.org/10.1038/s41598-022-21656-9>

Zhang, W, Campbell, DH, Walsh, BJ, Packer, NH, Liu, D & Wang, Y 2022, 'Cancer-derived small extracellular vesicles: emerging biomarkers and therapies for pancreatic ductal adenocarcinoma diagnosis/prognosis and treatment', *Journal of Nanobiotechnology*, vol. 20, no. 1, 446. <https://doi.org/10.1186/s12951-022-01641-0>

Zhang, W, Wang, L, Li, D, Campbell, DH, Walsh, BJ, Packer, NH, Dong, Q, Wang, E & Wang, Y 2022, 'Phenotypic profiling of pancreatic ductal adenocarcinoma plasma-derived small extracellular vesicles for cancer diagnosis and cancer stage prediction: a proof-of-concept study', *Analytical Methods*, vol. 14, no. 23, pp. 2255-2265. <https://doi.org/10.1039/d2ay00536k>

Cao, Y, Wu, J, Zheng, Lu, Y, Piper, JA, Lu, Y, Packer, NH 2022, 'Assessing the activity of antibodies conjugated to upconversion nanoparticles for immunolabeling'. *Analytica Chimica Acta*, 1209, 339863 <https://doi.org/10.1016/j.aca.2022.339863>

Shore, ND, Pieczonka, CM, Henderson, RJ, Bailen, JL, Saltzstein, DR, Concepcion, RS, Gillatt, DA, Chan, DW, Campbell, DH, Lu, Y, Le, TH, Deng, N & Walsh, BJ 2022, 'MiCheck prostate blood test for aggressive prostate cancer designed for the clinical lab setting' *Journal of Clinical Oncology* 40:6_suppl, 229-229 http://doi/10.1200/JCO.2022.40.6_suppl.229

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Chen, Y, Shimoni, O, Huang, G, Wen, S, Liao, J, Duong, HTT, Maddahfar, M, Su, QP, Ortega, DG, Lu, Y, Campbell, DH, Walsh, BJ & Jin, D 2021, 'Upconversion nanoparticle-assisted single-molecule assay for detecting circulating antigens of aggressive prostate cancer', *Cytometry Part A*. <https://doi.org/10.1002/cyto.a.24504>

Polikarpov, DM, Campbell, DH, Zaslavsky, AB, Lund, ME, Wu, A, Lu, Y, Palapattu, GS, Walsh, BJ, Zvyagin, AV & Gillatt, DA 2021, 'Glypican-1 as a target for fluorescence molecular imaging of bladder cancer', *International Journal of Urology*. <https://doi.org/10.1111/iju.14683>

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Liu, Y, Lin, G, Chen, Y, Mönch, I, Makarov, D, Walsh, BJ & Jin, D 2020, 'Coding and decoding stray magnetic fields for multiplexing kinetic bioassay platform', *Lab on a Chip*, vol. 20, no. 24, pp. 4561-4571. <https://doi.org/10.1039/d0lc00848f>

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Zhang, W, Jiang, L, Diefenbach, RJ, Campbell, DH, Walsh, BJ, Packer, NH & Wang, Y 2020, 'Enabling sensitive phenotypic profiling of cancer-derived small extracellular vesicles using surface-enhanced Raman spectroscopy nanotags', *ACS Sensors*, vol. 5, no. 3, pp. 764-771. <https://doi.org/10.1021/acssensors.9b02377>

Rzhevskiy, AS, Bazaz, SR, Ding, L, Kapitannikova, A, Sayyadi, N, Campbell, D, Walsh, B, Gillatt, D, Warkiani, ME & Zvyagin, AV 2020, 'Rapid and label-free isolation of tumour cells from the urine of patients with localised prostate cancer using inertial microfluidics', *Cancers*, vol. 12, no. 1, 81, pp. 1-11. <https://doi.org/10.3390/cancers12010081>

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Polikarpov, D, Liang, L, Care, A, Sunna, A, Campbell, D, Walsh, B, Balalaeva, I, Zvyagin, A, Gillatt, D & Guryev, E 2019, 'Functionalized upconversion nanoparticles for targeted labelling of bladder cancer cells', *Biomolecules*, vol. 9, no. 12, 820, pp. 1-11. <https://doi.org/10.3390/biom9120820>

Polikarpov, D, Campbell, D, McRobb, L, Zaslavsky, A, Zvyagin, A, Walsh, B, Palapattu, G & Gillatt, D 2019, 'Application of Miltuximab-IRDye800 for near-infrared fluorescence imaging of urothelial carcinoma in vivo', American Association of Cancer Research Meeting, Denver, United States, 18/05/19 - 21/05/19 pp. 34-35

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