

Research Impact in FY2019-20

In FY2019-20, there was a total of 21 publications citing services provided by the VCB. In addition, the research outcomes of VCB projects were presented at 15 national and 7 international conferences.

Researcher Publications

Tie, J., Cohen, J.D, Wang, Y., Christie, M., Simons, K., Lee, M., Wong, R., Kosmider, S., Ananda, S., McKendrick, J., Lee, B.; Cho, J.H., Faragher, I., Jones, I.T., Ptak, J., Schaeffer, M.J., Silliman, N., Dobbyn, L., Li, L., Tomasetti, C., Papadopoulos, N., Kinzler, K.W.; Vogelstein, B. & Gibbs, P. (2019) [Circulating Tumor DNA Analyses as Markers of Recurrence Risk and Benefit of Adjuvant Therapy for Stage III Colon Cancer.](#) *JAMA Oncology*, **5** (12): 1710-1717.

Dawson, C.A, Pal, B., Vaillant, F., Gandolfo, L.C, Liu, Z., Bleriot, C., Ginhoux, F., Smyth, G.K., Lindeman, G.J., Mueller S.N., Rios, A.C. & Visvader, J. E. (2020) [Tissue-resident Ductal Macrophages Survey the Mammary Epithelium and Facilitate Tissue Remodelling.](#) *Nature Cell Biology*, **22** (5): 546-558.

Lee, B., Lipton, L., Cohen, J., Tie, J., Javed, A.A., Li, L., Goldstein, D., Burge, M., Cooray, P., Nagrial, A., Tebbutt, N.C., Thomson, B., Nikfarjam, M., Harris, M., Haydon, A., Lawrence, B., Tai D.W.M., Simons, K., Lennon, A.M., Wolfgang, C.L., Tomasetti, C., Papadopoulos, N., Kinzler, K.W., Vogelstein, B. & Gibbs, P. (2019) [Circulating tumor DNA as a potential marker of adjuvant chemotherapy benefit following surgery for localized pancreatic cancer.](#) *Annals of Oncology*, **30** (9): 1472-1478.

Cheasley, D., Wakefield, M.J., Ryland, G.L., Allan, P.E., Alsop, K., Amarasinghe, K.C., Ananda, S., Anglesio, M.S., Au-Yeung, G., Böhm, M., Bowtell, D.D.L., Brand, A., Chenevix-Trench, G., Christie, M., Chiew, Y.E., Churchman, M., DeFazio, A., Demeo, R., Dudley, R., Fairweather, N., Fedele, C.G., Fereday, S., Fox, S.B., Gilks, C.B., Gourley, C., Hacker, N.F., Hadley, A.M., Hendley, J., Ho, G.Y., Hughes, S., Hunstman, D.G., Hunter, S.M., Jobling, T.W., Kalli, K.R., Kaufmann, S.H., Kennedy, C.J., Köbel, M., Le Page, C., Li, J., Lapat, R., McNally, O.M., McAlpine, J.N., Mes-Masson, A.M., Mileskin, L., Provencher, D.M., Pyman, J., Rahimi, K., Rowley, S.M., Salazar, C., Samimi, G., Saunders, H., Semple, T., Sharma, R., Sharpe, A.J., Stephens, A.N., Thio, N., Torres, M.C., Traficante, N., Xing, Z., Zethoven, M., Antill, Y.C., Scott, C.L., Campbell, I.G. & Gorringer, K.L. (2019) [The molecular origin and taxonomy of mucinous ovarian carcinoma.](#) *Nature Communications*, **10** (1): Article: 3935.

Dekkers, J.F., Whittle, J.R, Vaillant, F., Chen, H.R., Dawson, C., Liu, K., Geurts, M.H., Herold, M.J, Clevers, C., Lindeman, G.J., & Visvader, J.E. (2020) [Modeling Breast Cancer Using CRISPR-Cas9–Mediated Engineering of Human Breast Organoids.](#) *Journal of the National Cancer Institute*, **112** (5): 540-544.

Researcher Publications

Whittle, J.R, Vaillant, V., Surgenor, E., Policheni, A.N., Giner, G., Capaldo, B.D., Chen, C., Liu, H.K., Dekkers, J.F., Sachs, N., Clevers, H., Fellowes, A., Green, T., Xu, H., Fox, S., Herold, M., Smyth, G.K., Gray, D.H.D., Visvader, J.E. & Lindeman G.J. (2020) [Dual targeting of CDK4/6 and BCL2 pathways augments tumor response in estrogen receptor positive breast cancer.](#) *Clinical Cancer Research*, **26**(15):4120-4134.

Lalaoui, N., Merino, D., Giner, G., Vaillant, F., Chau, D., Liu, L., Kratina, T., Pal, B., Whittle, J.R, Etemadi, N., Berthelet, J., Gräsel, J., Hall, C., Ritchie, M.E., Ernst, M., Smyth, G.K., Vaux, D.L, Visvader, J. E., Lindeman, G. J. & Silke, J. (2020) [Targeting triple-negative breast cancers with the Smac-mimetic birinapant.](#) *Cell Death & Differentiation*, **27**:2768-2780.

Jorissen, R.N., Croxford, M., Jones, I.T., Ward, R.L., Hawkins, N.J., Gibbs, P. & Sieber O.M. (2019) [Evaluation of the transferability of survival calculators for stage II/III colon cancer across healthcare systems.](#) *International Journal of Cancer*, **145**(1): 132-142.

Best, S.A., Hess, J.B., Souza-Fonseca-Guimaraes, F., Cursons, J., Kersbergen, A., Dong, X., Rautela, J., Hyslop, S.R., Ritchie, M.E., Davis, M.J., Leong, T.L., Irving, L., Steinfort, D., Huntington, N.D., Sutherland, K.D. (2020) [Harnessing Natural Killer Immunity in Metastatic SCLC.](#) *Journal of Thoracic Oncology*, **15**(9): 1507-1521.

Williams, D.S., Mouradov, D., Browne, C., Palmieri, M., Elliott, M.J., Nightingale, R., Fang, C.G., Li, R., Mariadason, J.M., Faragher, I., Jones, I.T., Churilov, L., Tebbutt, N.C., Seiber, O.M. (2019) [Overexpression of TP53 protein is associated with the lack of adjuvant chemotherapy benefit in patients with stage III colorectal cancer.](#) *Modern Pathology*, **33**: 483-495.

Williams, D.S., Mouradov, D., Newman, M.R., Amini, E., Nickless, D.K., Fang, C.G., Palmieri, M., Sakthianandeswaren, A., Li, S., Ward, R.L., Hawkins, N.J., Skinner, I., Jones, I., Gibbs, P. & Sieber, O.M. (2020) [Tumour infiltrating lymphocyte status is superior to histological grade, DNA mismatch repair and BRAF mutation for prognosis of colorectal adenocarcinomas with mucinous differentiation.](#) *Modern Pathology*, **33**: 1420-1432.

Saad, M.I., McLeod, L., Yu, L., Ebi, H., Ruwanpura, S., Sagi, I., Rose-John, S. & Jenkin, B.J. (2019) [The ADAM17 Protease Promotes Tobacco Smoke Carcinogen-induced Lung Tumourigenesis.](#) *Carcinogenesis*, **41**(4): 527-538.

Falcão-Tebas, F., Marin, E.C., Kuang, J., Bishop D. J. & McConell, G.K.(2020) [Maternal Exercise Attenuates the Lower Skeletal Muscle Glucose Uptake and Insulin Secretion Caused by Paternal Obesity in Female Adult Rat Offspring.](#) *The Journal of Physiology*, **598**: 4251-4270.

Researcher Publications

Gorringe, K.L., Cheasley, D., Wakefield, M.J., Ryland, G.L., Allan, P.E., Alsop, K., Amarasinghe, K.C., Ananda, S., Bowtell, D.L.D., Christie, M., Chiew, Y.E., Churchman, M., DeFazio, A., Fereday, S., Gilks, C.B., Gourley, C., Hadley, A.M., Hendley, J. & Scott C.L. (2020) [Therapeutic options for mucinous ovarian carcinoma](#). *Gynecologic Oncology*, **156** (3): 552-560.

Vannitamby, A., Hendry, S., Irving, L., Steinfort, D. & Bozinovski, S. (2019) [Novel multiplex droplet digital PCR assay for scoring PD-L1 in non-small cell lung cancer biopsy specimens](#). *Lung Cancer*, **134**: 233-237.

Ahn, S.B., Sharma, S., Mohamedali, A., Mahboob, S., Redmond, W.J., Pascovici, D., Wu, J.X., Zaw, T., Adhikari, S., Vaibhav, V., Nice, E.C. & Baker M.S. (2019) [Potential early clinical stage colorectal cancer diagnosis using a proteomics blood test panel](#). *Clinical Proteomics*, **16** (34).

Lung, M.S., Mitchell, C.A., Doyle, M.A., Lynch, A.C., Gorringe, K.L., Bowtell, D.L.D., Australian Ovarian Cancer Study Group, Campbell, I.G., & Trainer, A.H. (2020) [Germline whole exome sequencing of a family with appendiceal mucinous tumours presenting with pseudomyxoma peritonei](#). *BMC Cancer*, **20** (369): 1-9.

De Luca, A., Barile, A., Arciello, M. & Rossi, R. (2019) [Copper homeostasis as target of both consolidated and innovative strategies of anti-tumor therapy](#). *Journal of Trace Elements in Medicine and Biology*, **55**: 204-213.

Sinderen, M., Griffiths, M., Menkhorst, E., Niven, K. & Dimitriadis, E. (2019) [Restoration of microRNA-29c in type I endometrioid cancer reduced endometrial cancer cell growth](#). *Oncology Letters*, **18** (3): 2684-2693.

Biobanking Publications

Devereux, L., Watson, P.H., Mes-Masson, A.M., Luna-Crespo, F., Thomas, G., Pitman, P., Speirs, V., Hall, A.G., Bollinger, N., Posada, M., Lochmüller, H., Thorne, H., Eng, C.B., Riegman, P.H.J., Ng, W. & Parry-Jones, A. (2019) [A Review of International Biobanks and Networks: Success Factors and Key Benchmarks—A 10-Year Retrospective Review](#). *Biopreservation and Biobanking*, **17** (6): 512-519.

Gedye, C., Sachchithanathan, M., Leonard, R., Jeffree, R.L., Buckland, M.E., Ziegler, D.S., Graeber, M.B., Day, B.W., McDonald, K.L., Lasocki, A., BCBA Consortium, Nowak, A. K. (2020) [Driving innovation through collaboration: development of clinical annotation datasets for brain cancer biobanking](#). *Neuro-Oncology Practice*, **7** (1): 31-37.