



Derek Richard Clements

Postdoctoral Research Fellow, Microbiology and Immunology

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Dalhousie University (2018)
- Bachelor of Science, Dalhousie University (2012)

STANFORD ADVISORS

- Juliana Idoyaga, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Trial Watch: oncolytic viro-immunotherapy of hematologic and solid tumors** *Oncolimmunology*
Pol, J. G., Levesque, S., Workenhe, S. T., Gujar, S., Le Boeuf, F., Clements, D. R., Fahrner, J., Fend, L., Bell, J. C., Mossman, K. L., Fucikova, J., Spisek, R., Zitvogel, et al
2018
- **Quantitative Temporal in Vivo Proteomics Deciphers the Transition of Virus-Driven Myeloid Cells into M2 Macrophages.** *Journal of proteome research*
Clements, D. R., Murphy, J. P., Sterea, A., Kennedy, B. E., Kim, Y., Helson, E., Almasi, S., Holay, N., Konda, P., Paulo, J. A., Sharif, T., Lee, P. W., Weekes, et al
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- **All that glitters is not gold: the need to consider desirable and undesirable immune aspects of oncolytic virus therapy** *ONCOIMMUNOLOGY*
Clements, D. R., Kim, Y., Gujar, S. A., Lee, P. W.
2016; 5 (1)
- **Dendritic Cells in Oncolytic Virus-Based Anti-Cancer Therapy** *VIRUSES-BASEL*
Kim, Y., Clements, D. R., Sterea, A. M., Jang, H. W., Gujar, S. A., Lee, P. W.
2015; 7 (12): 6506-6525
- **Newly Recruited CD11b(+), GR-1(+), Ly6C(high) Myeloid Cells Augment Tumor-Associated Immunosuppression Immediately following the Therapeutic Administration of Oncolytic Reovirus** *JOURNAL OF IMMUNOLOGY*
Clements, D. R., Sterea, A. M., Kim, Y., Helson, E., Dean, C. A., Nunokawa, A., Coyle, K. M., Sharif, T., Marcato, P., Gujar, S. A., Lee, P. W.
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- **Gemcitabine enhances the efficacy of reovirus-based oncotherapy through anti-tumour immunological mechanisms** *BRITISH JOURNAL OF CANCER*
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2014; 110 (1): 83-93
- **Two is better than one Complementing oncolytic virotherapy with gemcitabine to potentiate antitumor immune responses** *ONCOIMMUNOLOGY*
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- **Reovirus in cancer therapy: an evidence-based review.** *Oncolytic virotherapy*
Clements, D., Helson, E., Gujar, S. A., Lee, P. W.
2014; 3: 69-82
- **TRPM2 ion channel promotes gastric cancer migration, invasion and tumor growth through the AKT signaling pathway.** *Scientific reports*
Almasi, S., Sterea, A. M., Fernando, W., Clements, D. R., Marcato, P., Hoskin, D. W., Gujar, S., El Hiani, Y.
2019; 9 (1): 4182
- **RTN4 Knockdown Dysregulates the AKT Pathway, Destabilizes the Cytoskeleton, and Enhances Paclitaxel-Induced Cytotoxicity in Cancers** *MOLECULAR THERAPY*
Pathak, G. P., Shah, R., Kennedy, B. E., Murphy, J., Clements, D., Konda, P., Giacomantonio, M., Xu, Z., Schlaepfer, I. R., Gujar, S.
2018; 26 (8): 2019–33
- **Epigenetic Silencing of TAP1 in Aldefluor+ Breast Cancer Stem Cells Contributes to Their Enhanced Immune Evasion.** *Stem cells (Dayton, Ohio)*
Sultan, M., Vidovic, D., Paine, A. S., Huynh, T. T., Coyle, K. M., Thomas, M. L., Cruickshank, B. M., Dean, C. A., Clements, D. R., Kim, Y., Lee, K., Gujar, S. A., Weaver, et al
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- **The NAD+ Salvage Pathway Supports PHGDH-Driven Serine Biosynthesis** *Cell Reports*
Murphy, J. P., Giacomantonio, M., Paulo, J. A., Everley, R. A., Kennedy, B. E., Pathak, G. P., Clements, D. R., Kim, Y., Dai, C., Sharif, T., Gygi, S. P., Gujar, S.
2018
- **Surfen, a proteoglycan binding agent, reduces inflammation but inhibits remyelination in murine models of Multiple Sclerosis.** *Acta neuropathologica communications*
Warford, J. R., Lampert, A. C., Clements, D. R., Malone, A., Kennedy, B. E., Kim, Y., Gujar, S. A., Hoskin, D. W., Easton, A. S.
2018; 6 (1): 4
- **MHC-I Ligand Discovery Using Targeted Database Searches of Mass Spectrometry Data: Implications for T-Cell Immunotherapies** *JOURNAL OF PROTEOME RESEARCH*
Murphy, J. P., Konda, P., Kowalewski, D. J., Schuster, H., Clements, D., Kim, Y., Cohen, A. M., Sharif, T., Nielsen, M., Stevanovic, S., Lee, P. W., Gujar, S.
2017; 16 (4): 1806-1816
- **Autophagic homeostasis is required for the pluripotency of cancer stem cells** *AUTOPHAGY*
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- **Breast cancer subtype dictates DNA methylation and ALDH1A3-mediated expression of tumor suppressor RARRES1** *ONCOTARGET*
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- **The NAD(+) salvage pathway modulates cancer cell viability via p73** *CELL DEATH AND DIFFERENTIATION*
Sharif, T., Ahn, D., Liu, R., Pringle, E., Martell, E., Dai, C., NUNOKAWA, A., Kwak, M., CLEMENTS, D., Murphy, J. P., Dean, C., Marcato, P., McCormick, et al
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- **Aldehyde dehydrogenase 1A3 influences breast cancer progression via differential retinoic acid signaling.** *Molecular oncology*
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2015; 9 (1): 17-31
- **Core Needle Biopsy of Breast Cancer Tumors Increases Distant Metastases in a Mouse Model** *NEOPLASIA*
Mathenge, E. G., Dean, C. A., Clements, D., Vaghar-Kashani, A., Photopoulos, S., Coyle, K. M., Giacomantonio, M., Malueth, B., Nunokawa, A., Jordan, J., Lewis, J. D., Gujar, S. A., Marcato, et al
2014; 16 (11): 950-960
- **The NAD(+) synthesizing enzyme nicotinamide mononucleotide adenyltransferase 2 (NMNAT-2) is a p53 downstream target** *CELL CYCLE*
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- **Gemcitabine-mediated tumour regression and p53-dependent gene expression: implications for colon and pancreatic cancer therapy** *CELL DEATH & DISEASE*
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- **Multifaceted Therapeutic Targeting of Ovarian Peritoneal Carcinomatosis Through Virus-induced Immunomodulation** *MOLECULAR THERAPY*
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