

**2018**  
**FEDORUK CENTRE PUBLICATION LIST**

1. **<sup>89</sup>Zr-Nimotuzumab for ImmunoPET Imaging of Epidermal Growth Factor Receptor I**  
Chekol, R., Solomon, V. R., Alizadeh, E., Bernhard, W., Fisher, D., Hill, W., Barreto, K., DeCoteau, J. F., Parada, A. C., Geyer, R. C., et al.  
Oncotarget **9** (24): 17117-17132 (2018)
2. **<sup>99m</sup>Tc(CO)<sub>3</sub><sup>+</sup> Labeled Domain I/II-Specific Anti-EGFR (scFv)<sub>2</sub>Antibody Fragment for Imaging EGFR Expression**  
Viswas Raja, Solomon Carolina Gonzalez, ElaheAlizadeh, WendyBernhard, Siddesh V.Hartimath, KrisBarreto, Clarence Ronald Geyer, Humphrey Fonge  
European Journal of Medicinal Chemistry **157** (5): 437-446 (2018)  
<https://doi.org/10.1016/j.ejmech.2018.08.014>
3. **AHP-based Siting of Small Modular Reactors : A Case Study in Saskatchewan, Canada**  
R. Shrestha, D. Wagner, and I. Al-Anbagi  
38th Annual Conference of the Canadian Nuclear Society and 42nd Annual CNS/CNA Student Conference  
Sheraton Cavalier Hotel, Saskatoon, SK, Canada (2018 June 3-6)
4. **A Case Study on Introducing Small Modular Reactors into a New Non-Nuclear Jurisdiction**  
E.M.A. Hussein, I. Al-Anabagi, S. Bend, K. Bethune, J. Dale, G. Ferguson, R. Gokaraju, G.H. Huang, D.W. McMartin, B. Mehran, D. G. Newman, J.M. Piwowar, S. Sharma, D. Wagner  
38th Annual Conference of the Canadian Nuclear Society and 42nd Annual CNS/CNA Student Conference  
Sheraton Cavalier Hotel, Saskatoon, SK, Canada (2018 June 3-6)
5. **A Novel Synthetic Trivalent Single Chain Variable Fragment (Tri-ScFv) Construction Platform Based on the SpyTag/SpyCatcher Protein Ligase System**  
Alam, M. K., Brabant, M., Viswas, R. S., Barreto, K., Fonge, H., Ronald Geyer, C.  
BMC Biotechnol. **18** (1): 55 (2018)
6. **Analysis for Siting and Sizing of a Small Modular Reactor – A Case Study in Canada**  
B. Poudel, K. Joshi, and R. Gokaraju  
20th National Power System Conference, Tiruchirappalli, Tamil Nadu, India (2018)
7. **An Approach to Assess Reliability of Offsite Power as a Site Selection Criteria for a Nuclear Power Plant**  
B. Poudel, K. Joshi, and R. Gokaraju  
38th Annual Conference of the Canadian Nuclear Society and 42nd Annual CNS/CNA Student Conference  
Sheraton Cavalier Hotel, Saskatoon, SK, Canada (2018 June 3-6)
8. **Development of a Domestic Animal Model for Endometriosis: Surgical Induction in the Dog, Pigs, and Sheep**  
Emy E Varughese, Gregg P Adams, Carlos EP Leonardi, Pritpal S Malhi, Paul Babyn, Mary Kinloch, Jaswant Singh  
Journal of Endometriosis and Pelvic Pain Disorders **10**(2): 95-106 (2018)  
<https://doi.org/10.1177/2284026518773942>

9. **Evaluation of Antibody Fragment Properties for Near-infrared Fluorescence Imaging of HER3-Positive Cancer Xenografts**  
Ayman El-Sayed, Wendy Bernhard, Kris Barreto, Carolina Gonzalez, Wayne Hill, Landon Pastushok, Humphrey Fonge, C. Ronald Geyer  
Theranostics **8**(17): 4856-4869 (2018)
10. **Evaluation of N-Succinimidyl S-Acetylthioacetate Ligand for Radiolabeling of Humanized Antibodies With <sup>188</sup>Rhenium**  
Kevin J.H. Allen, Rubin Jiao, Mackenzie E. Malo, and Ekaterina Dadachova  
Cancer Biotherapy and Radiopharmaceuticals **33**(8): 349-358 (2018)  
DOI: 10.1089/cbr.2018.2480
11. **Exploring Synergy Among New Generation Technologies: Small Modular Reactor, Energy Storage and Distributed Generation - A Strong Case for Remote Communities**  
K. Joshi, B. Poudel, and R. Gokaraju  
1st International Conference on Generation IV and Small Reactors, Ottawa, ON, Canada (2018)
12. **Fuzzy AHP-based Siting of Small Modular Reactors for Power Generation in the Smart Grid**  
Reena Shrestha, Douglas Wagner, Irfan Al-Anbagi  
IEEE Electrical Power and Energy Conference EPEC 2018 (2018)
13. ***In vivo* Evaluation of Free and Chelated Accelerator-produced Actinium-225 - Radiation Dosimetry and Toxicity Results**  
Zewei Jiang, Ekaterina Revskaya, Darrell R. Fisher and Ekaterina Dadachova  
Curr Radiopharm. **11**(3): 215-222 (2018)  
DOI: 10.2174/1874471011666180423120707
14. **Is An Exclusion Zone Needed for a Small Modular Reactor?**  
B.E.R. Lulik, D. deMontigny and E.M.A. Hussein  
38th Annual Conference of the Canadian Nuclear Society and 42nd Annual CNS/CNA Student Conference Sheraton Cavalier Hotel, Saskatoon, SK, Canada (2018 June 3-6)
15. **Optimal Site Selection for a Nuclear Power Plant Considering Transportation and Accessibility Challenges**  
Mina Mehran, Babak Mehran, and Satish Sharma  
38th Annual Conference of the Canadian Nuclear Society and 42nd Annual CNS/CNA Student Conference Sheraton Cavalier Hotel, Saskatoon, SK, Canada (2018 June 3-6)
16. **Production Potential of Medical Isotopes from Natural Uranium Fission Processes**  
Momina Butt, Chary Rangacharyulu, Dave Chorney, Jeff Zimmer  
Journal of Radioanalytical and Nuclear Chemistry **317**(2): 891-896 (2018)  
DOI: 10.1007/s10967-018-5967-1
17. **Radioimmunotherapy as a Novel Approach in HIV, Bacterial, and Fungal Infectious Diseases**  
Muath Helal and Ekaterina Dadachova  
Cancer Biotherapy and Radiopharmaceuticals **33** (8): 330-335 (2018)  
DOI: 10.1089/cbr.2018.2481

18. **Site-Specific Fluorescent Labeling of Antibodies and Diabodies Using SpyTag/SpyCatcher System for In Vivo Optical Imaging Md.**  
Kausar Alam, Ayman El-Sayed, Kris Barreto, Wendy Bernhard, Humphrey Fonge, C. Ronald Geyer  
Mol Imaging Biol (2018)  
DOI: 10.1007/s11307-018-1222-y
19. **Structure-function Analysis and Therapeutic Efficacy of Antibodies to Fungal Melanin for Melanoma Radioimmunotherapy**  
J. D. Nosanchuk, Jeyakumar, A. Ray, E. Revskaya, Z. Jiang, R. A. Bryan, K. J. H. Allen, R. Jiao, M. E. Malo, B. L. Gómez, A. Morgenstern, F. Bruchertseifer, D. Rickles, G. B. Thornton, A. Bowen, A. Casadevall & E. Dadachova  
Scientific Reports: **8**: 5466: (2018)  
DOI:10.1038/s41598-018-23889-z
20. **The Impact of Communication Infrastructure on Siting Small Modular Reactor: A Case Study Study in Saskatchewan, Canada**  
M.O. Akerele, D. Wagner, and I. Al-Anbagi  
38th Annual Conference of the Canadian Nuclear Society and 42nd Annual CNS/CNA Student Conference  
Sheraton Cavalier Hotel, Saskatoon, SK, Canada (2018 June 3-6)