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1 Aim and thesis outline

2 Folate receptor $\beta$ as a macrophage mediated imaging and therapeutic target in rheumatoid arthritis
   *Submitted*

3 Sustained macrophage infiltration upon multiple intra-articular injections: an improved rat model of rheumatoid arthritis for PET guided therapy evaluation
   *BioMedical Research International 2015;2015:509295*

4 Imaging and methotrexate response monitoring of systemic inflammation in arthritic rats employing the macrophage PET tracer $[^{18}F]$fluoro-PEG-folate
   *Contrast Media & Molecular Imaging 2018;2018:8092781*

5 In vivo monitoring of anti-folate therapy in arthritic rats using $[^{18}F]$fluoro-PEG-folate and positron emission tomography
   *Arthritis Research & Therapy 2017;19:114*

6 Prophylactic and therapeutic activity of alkaline phosphatase in arthritic rats: single agent effect of alkaline phosphatase and synergistic effects in combination with methotrexate
   *Translational Research 2018, in press*

7 F8-IL10: A new potential anti-rheumatic drug evaluated by a PET-guided translational approach
   *Submitted*

8 Folate receptor beta (FR$\beta$) expression on monocyte and macrophage populations in blood and synovial tissue of rheumatoid arthritis patients
   *Manuscript in preparation*

9 Summary, general discussion, future perspectives and key
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