**Online Data for “Short-chain lipid peroxidation products form covalent adducts with pyruvate kinase and inhibit its activity in vitro and in breast cancer cells”**

Sousa BC, Ahmed T, Dann WL, Ashman J, Guy A, Durand T, Pitt AR, Spickett CM

Address for Correspondence: Dr Corinne M. Spickett, School of Life and Health Science, Aston Triangle, Aston University, Birmingham, B4 7ET, UK

Email: c.m.spickett@aston.ac.uk

**FRBM\_2019\_304**

**Effect of aldehyde treatment on pyruvate kinase activity**

Data are supplied in the form of an Excel spreadsheet:

* FRBM Special Issue PYK ACR 1-2-4hours
* FRBM Special Issue PYK ACR 10min Higher Concentration
* FRBM Special Issue PYK ACR 10min Lower Concentration
* FRBM Special Issue PYK HHE 1-2-4hours
* FRBM Special Issue PYK HHE 10min Higher Concentration
* FRBM Special Issue PYK HHE 10min Lower Concentration
* FRBM Special Issue PYK MDA 1-2-4hours
* FRBM Special Issue PYK MDA 10min Higher Concentration
* FRBM Special Issue PYK MDA 10min Lower Concentration
* FRBM Special Issue MCF7 PYK ACR MDA HHE 2h 24h

**Effect of aldehyde treatment on cell viability**

Data are supplied in the form of an Excel spreadsheet:

* FRBM Special Issue MCF7 Cell Viability ACR MDA HHE 2h 24h

**LC-MSMS Data**

The data are divided into separate folders according to the aldehyde treatment and whether it is *in-vitro* or cell work. Within these folders the files are named according to the aldehyde treatment time and concentration. The data were acquired on an ABSCIEX 5600 TripleTOF instrument and wiff and wiff.scan files are supplied.

* Folder: Pyruvate Kinase ACR
  + 16052018\_PK\_CTR
  + 16052018\_PK\_ACR\_38uM
  + 16052018\_PK\_ACR\_380uM
  + 16052018\_PK\_ACR\_760uM
  + 16052018\_PK\_ACR\_5mM
  + 2019-03-26 PYK CTR 2h
  + 2019-03-26 PYK CTR 4h
  + 2019-03-26 PYK ACR 2uM 2h
  + 2019-03-26 PYK ACR 2uM 4h
  + 2019-03-26 PYK ACR 10uM 2h
  + 2019-03-26 PYK ACR 10uM 4h
  + 2019-03-26 PYK ACR 20uM 2h
  + 2019-03-26 PYK ACR 20uM 4h
  + 2019-03-26 PYK ACR 100uM 2h
  + 2019-03-26 PYK ACR 100uM 4h
  + 2019-03-26 PYK ACR 200uM 2h
  + 2019-03-26 PYK ACR 200uM 4h
* Folder: Pyruvate Kinase HHE
  + 16052018\_PK\_CTR
  + 16052018\_PK\_HHE\_38uM
  + 16052018\_PK\_HHE\_380uM
  + 16052018\_PK\_HHE\_760uM
  + 16052018\_PK\_HHE\_5mM
  + 2019-03-27 PYK CTR 2h
  + 2019-03-27 PYK CTR 4h
  + 2019-03-27 PYK HHE 2uM 2h
  + 2019-03-27 PYK HHE 2uM 4h
  + 2019-03-27 PYK HHE 10uM 2h
  + 2019-03-27 PYK HHE 10uM 4h
  + 2019-03-27 PYK HHE 20uM 2h
  + 2019-03-27 PYK HHE 20uM 4h
  + 2019-03-27 PYK HHE 100uM 2h
  + 2019-03-27 PYK HHE 100uM 4h
  + 2019-03-27 PYK HHE 200uM 2h
  + 2019-03-27 PYK HHE 200uM 4h
* Folder: Pyruvate Kinase MDA
  + 12072018\_PK\_CTR
  + 12072018\_PK\_MDA\_38uM
  + 12072018\_PK\_MDA\_380uM
  + 12072018\_PK\_MDA\_760uM
  + 12072018\_PK\_MDA\_5mM
  + 2019-03-28 PYK CTR 2h
  + 2019-03-28 PYK CTR 4h
  + 2019-03-28 PYK MDA 2uM 2h
  + 2019-03-28 PYK MDA 2uM 4h
  + 2019-03-28 PYK MDA 10uM 2h
  + 2019-03-28 PYK MDA 10uM 4h
  + 2019-03-28 PYK MDA 20uM 2h
  + 2019-03-28 PYK MDA 20uM 4h
  + 2019-03-28 PYK MDA 100uM 2h
  + 2019-03-28 PYK MDA 100uM 4h
  + 2019-03-28 PYK MDA 200uM 2h
  + 2019-03-28 PYK MDA 200uM 4h
* Folder: MCF-7 Protein Extracts
  + 20190418 MCF7 CTR 2h
  + 20190418 MCF7 CTR 24h
  + 20190418 MCF7 ACR 10uM 2h
  + 20190418 MCF7 ACR 10uM 24h
  + 20190418 MCF7 ACR 200uM 2h
  + 20190418 MCF7 ACR 200uM 24h