

## List of Publications describing the use of Multisizer in Cell Analysis

### Mammalian Cells

1. White adipose tissue resilience to insulin deprivation and replacement. Hadji L, Berger E, Soula H, Vidal H, Géoën A. *PLoS One*. 2014 Aug 29; 9(8):e106214. doi: 10.1371/journal.pone.0106214. eCollection 2014.
2. The cytotoxic activity of natural killer cells in patients with the first episode of endogenous psychosis (a comparative study of test methods). Vasil'eva EF, Brusov OS, Kaleda VG, Barkhatova AN, Petrakova LN, Shilov IuE, Koliaskina GI. *Zh Nevrol Psikhiatr Im S S Korsakova*. 2013;113(6):45-9. Russian.
3. Subcutaneous adipose cell size and distribution: relationship to insulin resistance and body fat. McLaughlin T, Lamendola C, Coghlan N, Liu TC, Lerner K, Sherman A, Cushman SW. *Obesity (Silver Spring)*. 2014 Mar;22(3):673-80. doi: 10.1002/oby.20209. Epub 2013 Dec 17.
4. The influence of octyl  $\beta$ -D-glucopyranoside on cell lysis induced by ultrasonic cavitation. Miller DL, Dou C. *J Acoust Soc Am*. 2011 Nov;130(5):3482-8. doi: 10.1121/1.3626127.
5. Decontamination of a hard surface contaminated with *Bacillus anthracis*  $\Delta$ Sterne and *B. anthracis* Ames spores using electrochemically generated liquid-phase chlorine dioxide (eClO<sub>2</sub>). Buhr TL, Young AA, Minter ZA, Wells CM, Shegogue DA. *J Appl Microbiol*. 2011 Nov;111(5):1057-64. doi: 10.1111/j.1365-2672.2011.05122.x. Epub 2011 Sep 8.
6. Differential adipogenic and inflammatory properties of small adipocytes in Zucker Obese and Lean rats. Liu A, Sonmez A, Yee G, Bazuine M, Arroyo M, Sherman A, McLaughlin T, Reaven G, Cushman S, Tsao P. *Diab Vasc Dis Res*. 2010 Oct;7(4):311-8. doi: 10.1177/1479164110386126. Epub 2010 Oct 20.

7. Getting more from cell size distributions: establishing more accurate biovolumes by estimating viable cell populations. Sokolenko S, Cheng YL, Aucoin MG. *Biotechnol Prog.* 2010 Nov-Dec;26(6):1787-95. doi: 10.1002/btpr.486. Epub 2010 Sep 23.
8. Cellularity and adipogenic profile of the abdominal subcutaneous adipose tissue from obese adolescents: association with insulin resistance and hepatic steatosis. Kursawe R, Eszlinger M, Narayan D, Liu T, Bazuine M, Cali AM, D'Adamo E, Shaw M, Pierpont B, Shulman GI, Cushman SW, Sherman A, Caprio S. *Diabetes.* 2010 Sep;59(9):2288-96.
9. Adipose tissue-specific regulation of angiotensinogen in obese humans and mice: impact of nutritional status and adipocyte hypertrophy. Yasue S, Masuzaki H, Okada S, Ishii T, Kozuka C, Tanaka T, Fujikura J, Ebihara K, Hosoda K, Katsurada A, Ohashi N, Urushihara M, Kobori H, Morimoto N, Kawazoe T, Naitoh M, Okada M, Sakaue H, Suzuki S, Nakao K. *Am J Hypertens.* 2010 Apr;23(4):425-31. doi: 10.1038/ajh.2009.263. Epub 2010 Jan 7.
10. Pioglitazone increases the proportion of small cells in human abdominal subcutaneous adipose tissue. McLaughlin TM, Liu T, Yee G, Abbasi F, Lamendola C, Reaven GM, Tsao P, Cushman SW, Sherman A. *Obesity (Silver Spring).* 2010 May;18(5):926-31. doi: 10.1038/oby.2009.380. Epub 2009 Nov 12.
11. Liposomal modular complexes for simultaneous targeted delivery of bioactive gases and therapeutics. Klegerman ME, Wassler M, Huang SL, Zou Y, Kim H, Shelat HS, Holland CK, Geng YJ, McPherson DD. *J Control Release.* 2010 Mar 19;142(3):326-31. doi: 10.1016/j.jconrel.2009.10.037. Epub 2009 Nov 10.

12. Efficient clinical-scale enrichment of lymphocytes for use in adoptive immunotherapy using a modified counterflow centrifugal elutriation program. Powell DJ Jr, Brennan AL, Zheng Z, Huynh H, Cotte J, Levine BL. *Cytotherapy*. 2009;11(7):923-35. doi: 10.3109/14653240903188921.
13. Inflammation in subcutaneous adipose tissue: relationship to adipose cell size. McLaughlin T, Deng A, Yee G, Lamendola C, Reaven G, Tsao PS, Cushman SW, Sherman A. *Diabetologia*. 2010 Feb;53(2):369-77. doi: 10.1007/s00125-009-1496-3. Epub 2009 Oct 9.
14. Differential intra-abdominal adipose tissue profiling in obese, insulin-resistant women. Liu A, McLaughlin T, Liu T, Sherman A, Yee G, Abbasi F, Lamendola C, Morton J, Cushman SW, Reaven GM, Tsao PS. *Obes Surg*. 2009 Nov;19(11):1564-73. doi: 10.1007/s11695-009-9949-9. Epub 2009 Aug 27.
15. Effects of activated and nonactivated platelet-rich plasma on proliferation of human osteoblasts in vitro. Slapnicka J, Fassmann A, Strasak L, Augustin P, Vanek J. *J Oral Maxillofac Surg*. 2008 Feb;66(2):297-301.
16. Enhanced proportion of small adipose cells in insulin-resistant vs insulin-sensitive obese individuals implicates impaired adipogenesis. McLaughlin T, Sherman A, Tsao P, Gonzalez O, Yee G, Lamendola C, Reaven GM, Cushman SW. *Diabetologia*. 2007 Aug;50(8):1707-15.
17. Cell sorting by one gravity SPLITT fractionation. Benincasa MA, Moore LR, Williams PS, Poptic E, Carpino F, Zborowski M. *Anal Chem*. 2005 Aug 15;77(16):5294-301.

18. Purinergic signaling underlies CFTR control of human airway epithelial cell volume. Braunstein GM, Zsembery A, Tucker TA, Schwiebert EM. *J Cyst Fibros*. 2004 Jun;3(2):99-117.
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22. Trapped water of human erythrocytes and its application in cryopreservation. Zhao G, He L, Zhang H, Ding W, Liu Z, Luo D, Gao D. *Biophys Chem*. 2004 Feb 1;107(2):189-95.
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25. Regulatory volume decrease in human esophageal epithelial cells. Orlando GS, Tobey NA, Wang P, Abdunour-Nakhoul S, Orlando RC. *Am J Physiol Gastrointest Liver Physiol*. 2002 Oct;283(4):G932-7.

26. Cystine: a promoter of the growth and aggregation of calcium oxalate crystals in normal undiluted human urine. Martins MC, Meyers AA, Whalley NA, Rodgers AL. J Urol. 2002 Jan; 167(1):317-21.
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34. Inhibition of Na<sup>+</sup>, K<sup>+</sup>-ATPase activates swelling-induced taurine efflux in a human neuroblastoma cell line. Basavappa S, Mobasher A, Errington R, Huang CC, Al-Adawi S, Ellory JC. *J Cell Physiol.* 1998 Feb;174(2):145-53.
35. Does urinary oxalate interfere with the inhibitory role of glycosaminoglycans and semisynthetic sulfated polysaccharides in calcium oxalate crystallization? Cao LC, Deng G, Boevé ER, Romijn JC, de Bruijn WC, Verkoelen CF, Schröder FH. *Eur Urol.* 1997;31(4):485-92.
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40. Precision and accuracy of analysis of air-filled albumin microspheres using Coulter Multisizer Mark II. Sontum PC, Christiansen C. *J Pharm Biomed Anal.* 1994 Oct; 12(10):1233-41.

41. Effect of pH on giant cell formation induced by human immunodeficiency virus (HIV). Yoshiyama H, Kajii T, Yamamoto N, Kobayashi N. *Biochem Biophys Res Commun*. 1989 Feb 15; 158(3):973-9.
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43. Rapid screening method with a cell multisizer for inhibitors of human immunodeficiency virus-induced cell fusion in vitro. Nakashima H, Tanabe A, Tochikura TS, Yamamoto N. *J Clin Microbiol*. 1988 Jun;26(6):1229-32.

## **Bacteria**

44. Analysis of broth-cultured *Bacillus atrophaeus* and *Bacillus cereus* spores. Buhr TL, McPherson DC, Gutting BW. *J Appl Microbiol*. 2008 Nov;105(5):1604-13.
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46. Cell volume and dry weight of cultured Tetrahymena. Hellung-Larsen P, Andersen AP. *J Cell Sci*. 1989 Feb;92 ( Pt 2):319-24.
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## **Nanoparticle Characterization**

48. Quantifying silicone oil emulsification in patients: are we only seeing the tip of the iceberg? Chan YK, Cheung N, Chan WS, Wong D. *Graefes Arch Clin Exp Ophthalmol*. 2014 Nov 25. (Epub)

49. Evaluation of methods for sizing and counting of ultrasound contrast agents. Sennoga CA, Yeh JS, Alter J, Stride E, Nihoyannopoulos P, Seddon JM, Haskard DO, Hajnal JV, Tang MX, Eckersley RJ. *Ultrasound Med Biol*. 2012 May;38(5):834-45. doi: 10.1016/j.ultrasmedbio.2012.01.012. Epub 2012 Mar 6.
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