

Scepter Publications

(2011–present) Updated on May 31, 2013

Cell diameter measurements obtained with a handheld cell counter could be used as a surrogate marker of G2/M arrest and apoptosis in colon cancer cell lines exposed to SN-38

Tahara M, Inoue T, Miyakura Y, Horie H, Yasuda Y, Fujii H, Kotake K, Sugano K (2013)
Biochem Biophys Res Commun. 434(4):753-9.
 PMID:23583407

Application of Scepter™ Cell Counter: Cell diameter measurement used as a surrogate marker of G2/M arrest and apoptosis (The human colon cancer cell lines HCT116 and HT29)

Keratinocyte-based cell assays: their potential pitfalls

Tina Zupancic, Mateja Ozir, Hans T, Radovan Komel, Mirjana Liovic (2012)
Archives of dermatological research. 304(9):765-8.
 PMID: 22983161

Application of Scepter™ Cell Counter: Cell counting (patient-derived epidermolysis bullosa simplex keratinocytes)

Pemetrexed alters folate phenotype and inflammatory profile in EA.hy 926 cells grown under low-folate conditions

Andrea L Hammons, Carolyn M Summers, Jeanine Jochems, Jasbir S Arora, Suhong Zhang, Ian A Blai-r, Alexander S Whitehead (2012)
European journal of pharmacology. 696(1-3):12-7.
 PMID: 22975265

Application of Scepter™ Cell Counter: Cell counting (EA.Hy926 endothelial cells)

Arsenite-induced autophagy is associated with proteotoxicity in human lymphoblastoid cells

Alicia M Bolt, Fei Zhao, Samantha Pacheco, Walter T Klimecki (2012)
Toxicology and applied pharmacology. 264(2):255-61.
 PMID: 22959463

Application of Scepter™ Cell Counter: Cell counting (human lymphoblastoid cell lines, hLCL)



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Establishment of outgrowth endothelial cells from peripheral blood

Javier Martin-Ramirez, Menno Hofman, Maartje van den Biggelaar, Robert P Hebbel, Jan Voorberg (2012)

Nature protocols. 7(9):1709-15.

PMID: 22918388

Application of Scepter™ Cell Counter: Cell counting (Blood outgrowth endothelial cells, BOECs)

Efficient and rapid isolation and purification of mouse alveolar type II epithelial cells

Elise M Messier, Robert J Mason, Beata Kosmider (2012) **Experimental lung research.** 38(7):363-73.

PMID: 22888851

Application of Scepter™ Cell Counter: Cell counting (mouse epithelium Alveolar type II cells, ATII)

Stimulation of sub-sonic vibration promotes the differentiation of adipose tissue-derived mesenchymal stem cells into neural cells

Yun-Kyong Choi, Hyunjin Cho, Young-Kwon Seo, Hee-Hoon Yoon, Jung-Keug Park (2012)

Life sciences. 91(9-10):329-37.

PMID: 22884804

Application of Scepter™ Cell Counter: Cell counting (Adipose tissue-derived stem cells, AT-MSCs)

Continuous labeling of circulating tumor cells with microbeads using a vortex micromixer for highly selective isolation

Ming Xian Lin, Kyung-A Hyun, Hui-Sung Moon, ae Seok Sim Jeong-Gun Lee, Jae Chan Park, Soo Suk Lee, Hyo-Il Jung (2013) **Biosensors Bioelectronics.** 40(1):63-7.

PMID: 22784495

Application of Scepter™ Cell Counter: Cell diameter measurement (examine the size amplification of the MCF-7 cells)

Methylglyoxal activates nociceptors through transient receptor potential channel A1 (TRPA1): a possible mechanism of metabolic neuropathies

Mirjam J Eberhardt, Milos R Filipovic, Andreas Leffler, Jeanne de la Roche, Katrin Kistner, Michael J Fischer, Thomas Fleming Katharina Zimmermann, Ivana Ivanovic-Burmazovic, Peter P Nawroth, Angelika Bierhaus, Peter W Reeh, Susanne K Sauer (2012) **J Biol Chem.** 287(34):28291-306.

PMID: 22740698

Application of Scepter™ Cell Counter: Cell counting (human neuron)

Magnetic nanobeads decorated with silver nanoparticles as cytotoxic agents and photothermal probes

Riccardo Di Corato, Domenico Palumberi, Roberto Marotta Marco Scotto, Susana Carregal-Romero, Pilar Rivera Gil, Wolfgang J Parak, Teresa Pellegrino (2012) **Small.** 8(17):2731-42.

PMID: 22730166

Application of Scepter™ Cell Counter: Cell counting (the silver-decorated magnetic nanobeads, Ag-MNBs)

Unique responses of stem cell-derived vascular endothelial and mesenchymal cells to high levels of glucose

Keats E, Khan ZA (2012) **PLoS One.** 7(6):e38752. Epub Jun 6

PMID: 22701703

Application of Scepter™ Cell Counter: Cell counting (adult blood endothelial progenitor cells – abEPC, bone marrow mesenchymal progenitor cells – bmMPC)

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Abnormal Histone Methylation Is Responsible for Increased Vascular Endothelial Growth Factor 165a Secretion from Airway Smooth Muscle Cells in Asthma

Clifford RL, John AE, Brightling CE, Knox AJ (2012) *J Immunol.* Jun 11. [Epub ahead of print]
PMID: 22689881

**Application of Scepter™ Cell Counter: Cell counting prior to ELISA
(human airway smooth muscle cells)**

NAD(P)H QUINONE OXIDOREDUCTASE 1 REGULATES NEUTROPHIL ELASTASE-INDUCED MUCOUS CELL METAPLASIA

Meyer ML, Potts-Kant EN, Ghio AJ, Fischer BM, Foster WM, Voynow JA (2012)
Am J Physiol Lung Cell Mol Physiol. Jun 1. [Epub ahead of print]
PMID: 22659878

Application of Scepter™ Cell Counter: Cell counting (mouse airway epithelial cells)

Deficient leukemia inhibitory factor signaling in muscle precursor cells from patients with type 2 diabetes

Broholm C, Brandt C, Schultz NS, Nielsen AR, Pedersen BK, Scheele C (2012)
Am J Physiol Endocrinol Metab. May 29. [Epub ahead of print]
PMID: 22649064

**Application of Scepter™ Cell Counter: Cell counting for BrdU proliferation assay
(human muscle precursor cells)**

Low magnitude mechanical signals mitigate osteopenia without compromising longevity in an aged murine model of spontaneous granulosa cell ovarian cancer

Pagnotti GM, Adler BJ, Green DE, Chan ME, Frechette DM, Shroyer KR, Beamer WG, Rubin J, Rubin CT (2012) *Bone.* May 11. [Epub ahead of print]
PMID: 22584009

**Application of Scepter™ Cell Counter: Cell counting before Flow Cytometry Analysis
(bone marrow-derived cells)**

Functional differences in visceral and subcutaneous fat pads originate from differences in the adipose stem cell.

Baglioni S, Cantini G, Poli G, Francalanci M, Squecco R, Di Franco A, Borgogni E, Frontera S, Nesi G, Liotta F, Lucchese M, Perigli G, Francini F, Forti G, Serio M, Luconi M (2012) *PLoS One.* 7(5):e36569. Epub May 4
PMID: 22574183

**Application of Scepter™ Cell Counter: Cell diameter measurement
(Human adult adipose stem cell – ASC)**

Role of the Tripartite Motif Protein 27 in Cancer Development

Zoumpoulidou G, Broceño C, Li H, Bird D, Thomas G, Mittnacht S (2012)
J Natl Cancer Inst. May 3. [Epub ahead of print]
PMID: 22556269

Application of Scepter™ Cell Counter: Cell counting (primary mouse embryonic fibroblasts – MEFs)

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Influence of temperature, time and different media on mesenchymal stromal cells shipped for clinical application.

Bronzini I, Patrino M, Iacopetti I, Martinello T (2012) *Vet J.* Apr 12. [Epub ahead of print]
PMID: 22503718

Application of Scepter™ Cell Counter: Cell counting (mesenchymal stromal Cells –MSCs)

The biocompatibility and antibacterial properties of collagen-stabilized, photochemically prepared silver nanoparticles.

Alarcon EI, Udekwu K, Skog M, Pacioni NL, Stamplecoskie KG, González-Béjar M, Poliseti N, Wickham A, Richter-Dahlfors A, Griffith M, Scaiano JC (2012) *Biomaterials.* Apr 9. [Epub ahead of print]
PMID: 22494887

Application of Scepter™ Cell Counter: Cell counting (two human primary cell lines: dermal fibroblast and epidermal keratinocytes)

Depletion of mitochondrial fission factor DRP1 causes increased apoptosis in human colon cancer cells.

Inoue-Yamauchi A, Oda H. (2012) *Biochem Biophys Res Commun.* Apr 2. [Epub ahead of print]
PMID: 22487795

Application of Scepter™ Cell Counter: Cell counting for growth curve monitoring (human colon cancer cell lines: HCT116, SW480)

A chemical screen probing the relationship between mitochondrial content and cell size

Kitami T, Logan DJ, Negri J, Hasaka T, Tolliday NJ, Carpenter AE, Spiegelman BM, Mootha VK (2012) *PLoS One.* 7(3):e33755. Epub Mar 29
PMID: 22479437

Application of Scepter™ Cell Counter: Cell counting and cell volume measurement (Human umbilical vein endothelial cells – HUVEC)

Dental pulp of the third molar: a new source of pluripotent-like stem cells

Maher Atari -Carlos Gil-Recio -Marc Fabregat -Dani Garc -Miguel Barajas -Miguel A Carrasco -Han-Sung Jung -F Hern Alfaro -Nuria Casals -Felipe Prosper -Eduard Ferr -Luis Giner (2012) *Journal of cell science.* 125(Pt 14):3343-56.
PMID: 22467856

Application of Scepter™ Cell Counter: Cell diameter measurement (DPPSCs and DPMSCs)

Neural differentiation of umbilical cord mesenchymal stem cells by sub-sonic vibration.

Cho H, Seo YK, Jeon S, Yoon HH, Choi YK, Park JK (2012) *Life Sci.* 90:591-9.
PMID: 22406078

Application of Scepter™ Cell Counter: Cell counting (Human umbilical cord mesenchymal stem cells – hUC-MSCs)

Enhanced Cerebral but Not Peripheral Angiogenesis in the Goto-Kakizaki Model of Type 2 Diabetes Involves VEGF and Peroxynitrite Signaling.

Prakash R, Somanath PR, El-Remessy AB, Kelly-Cobbs A, Stern JE, Dore-Duffy P, Johnson M, Fagan SC, Ergul A (2012) *Diabetes.* Mar 8. [Epub ahead of print]
PMID: 22403298

Application of Scepter™ Cell Counter: Cell counting and diameter measurement (brain microvascular endothelial cells –BMECs)

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(2011–present) Updated on May 31, 2013



Human platelet lysate as a fetal bovine serum substitute improves human adipose-derived stromal cell culture for future cardiac repair applications.

Naaijens BA, Niessen HW, Prins HJ, Krijnen PA, Kokhuis TJ, de Jong N, van Hinsbergh VW, Kamp O, Helder MN, Musters RJ, van Dijk A, Juffermans LJ (2012) *Cell Tissue Res.* 348:119–30.

PMID: 22395775

Application of Scepter™ Cell Counter: Cell diameter measurement (Adipose-derived stromal cells)

IL-23 Dampens the Allergic Response to *Cryptococcus neoformans* through IL-17 –Independent and –Dependent Mechanisms.

Szymczak WA, Sellers RS, Pirofski LA (2012) *The American Journal of Pathology.* Epub Feb 15.

PMID:22342846

Application of Scepter™ Cell Counter: Cell counting (primary mouse lung cells)

Retinoic acid-induced differentiation increases the rate of oxygen consumption and enhances the spare respiratory capacity of mitochondria in SH-SY5Y cells.

Zhiyin Xun, Do-Yup Lee, James Lim, Christie A. Canaria, Adam Barnebey, Steven M. Yanonne, Cynthia T. McMurray (2012) *Mech Ageing Dev.* Epub Feb 7.

PMID: 22336883

Application of Scepter™ Cell Counter: Cell counting (SH-SY5Y cells, human neuroblastoma cell line)

Effects of tris(1,3-dichloro-2-propyl) phosphate and tris(1-chloropropyl) phosphate on cytotoxicity and mRNA expression in primary cultures of avian hepatocytes and neuronal cells.

Crump D, Chiu S, Kennedy SW (2012) *Toxicol Sci.* 126:140–8.

PMID: 22268003

Application of Scepter™ Cell Counter: Cell counting (primary chicken neuronal cells)

NAD(P)H:quinone oxidoreductase 1 protects lungs from oxidant-induced emphysema in mice.

Erin N. Potts-Kant, Zhuowei Li, Robert M. Tighe, James Y. Lindsey, Benjamin W. Frush, W. Michael Foster, John W. Hollingsworth (2012) *Free Radical Biology & Medicine.* 52:705–15.

PMID: 22198263

Application of Scepter™ Cell Counter: Cell counting (Bronchoalveolar lavage fluid derived cells)

Epithelial protein lost in neoplasm (EPLIN) interacts with α -catenin and actin filaments in endothelial cells and stabilizes vascular capillary network *in vitro*.

Chervin-Pétinot A, Courçon M, Almagro S, Nicolas A, Grichine A, Grunwald D, Prandini MH, Huber P, Gulino-Debrac D (2012) *J Biol Chem.* 287:7556–72.

PMID: 22194609

Application of Scepter™ Cell Counter: Cell counting (human umbilical vascular endothelial cells – HUVECs)

Devastation of adult stem cell pools by irradiation precedes collapse of trabecular bone quality and quantity.

Green DE, Adler BJ, Chan ME, Rubin CT (2012) *J Bone Miner Res.* 27:749–59.

PMID: 22190044

Application of Scepter™ Cell Counter: Cell counting before Flow Cytometry Analysis (Mouse bone marrow-derived cells)

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Does NAD(P)H oxidase–derived H₂O₂ participate in hypotonicity–induced insulin release by activating VRAC in β –cells?

Crutzen R, Shlyonsky V, Louchami K, Virreira M, Hupkens E, Boom A, Sener A, Malaisse WJ, Beauwens R (2012) **Pflugers Arch.** 463:377–90.

PMID: 22089811

Application of Scepter™ Cell Counter: Cell counting, Cell diameter monitoring (BRIN–BD11 cells, a insulin–secreting beta–cell line; primary rat islet cells)

Anti–inflammatory effects of benfotiamine are mediated through the regulation of the arachidonic acid pathway in macrophages.

Mohammad Shoeb, Kota V. Ramana (2012) **Free Radical Biology & Medicine.** 52:182–90.

PMID: 22067901

Application of Scepter™ Cell Counter: Cell counting (RAW264.7 cells, a mouse leukemic monocyte macrophage cell line)

Reduction of infarct size by intravenous injection of uncultured adipose derived stromal cells in a rat model is dependent on the time point of application.

van Dijk A, Naaijken BA, Jurgens WJ, Nalliah K, Sairras S, van der Pijl RJ, Vo K, Vonk AB, van Rossum AC, Paulus WJ, van Milligen FJ, Niessen HW (2011) **Stem Cell Research.** 7:219–29.

PMID: 21907165

Application of Scepter™ Cell Counter: Cell diameter measurement (rat stromal vascular fraction cells, adipose–derived stem cells)

Oncogenes induce senescence with incomplete growth arrest and suppress the DNA damage response in immortalized cells.

Michael Y. Sherman, Le Meng, Martha Stampfer, Vladimir L. Gabai, Julia A. Yaglom (2011) **Aging Cell.** 10:949–61.

PMID: 21824272

Application of Scepter™ Cell Counter: Cell counting for growth curve monitoring (human mammary epithelial cells; MCF10A cells, a non–tumorigenic epithelial cell line)

Overexpression of the Lung Cancer–Prognostic miR–146b MicroRNAs Has a Minimal and Negative Effect on the Malignant Phenotype of A549 Lung Cancer Cells.

Patnaik SK, Kannisto E, Mallick R, Yendamuri S (2011) **PLoS One.** 6:e22379.

PMID: 21789255

Application of Scepter™ Cell Counter: Cell counting (A549 cells, human lung adenocarcinoma; BEAS–2B cells, a normal human bronchial epithelial cell line; TLA–HEK293T cells, a human embryonic kidney cell line)

Synthetic Reversal of Epigenetic Silencing.

Haynes KA, Silver PA (2011) **J Biol Chem.** 286:27176–82.

PMID: 21669865

Application of Scepter™ Cell Counter: Cell counting (HEK293 cells)

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(2011–present) Updated on May 31, 2013

Bardet–Biedl syndrome highlights the major role of the primary cilium in efficient water reabsorption.

Vincent Marion, Dominique Schlicht, Anaïs Mockel, Sophie Caillard, Olivier Imhoff, Corinne Stoetzel, Paul van Dijk, Christian Brandt, Bruno Moulin, H el ene Dollfus (2011)

International Society of Nephrology. 79:1013–25.

PMID: 21270763

Application of Scepter™ Cell Counter: Cell counting, Cell volume distributions measurement (HCD cells, a cell line generated from kidney cortical collecting duct cells)

MicroRNAs 10a and 10b are potent inducers of neuroblastoma cell differentiation through targeting of nuclear receptor corepressor 2.

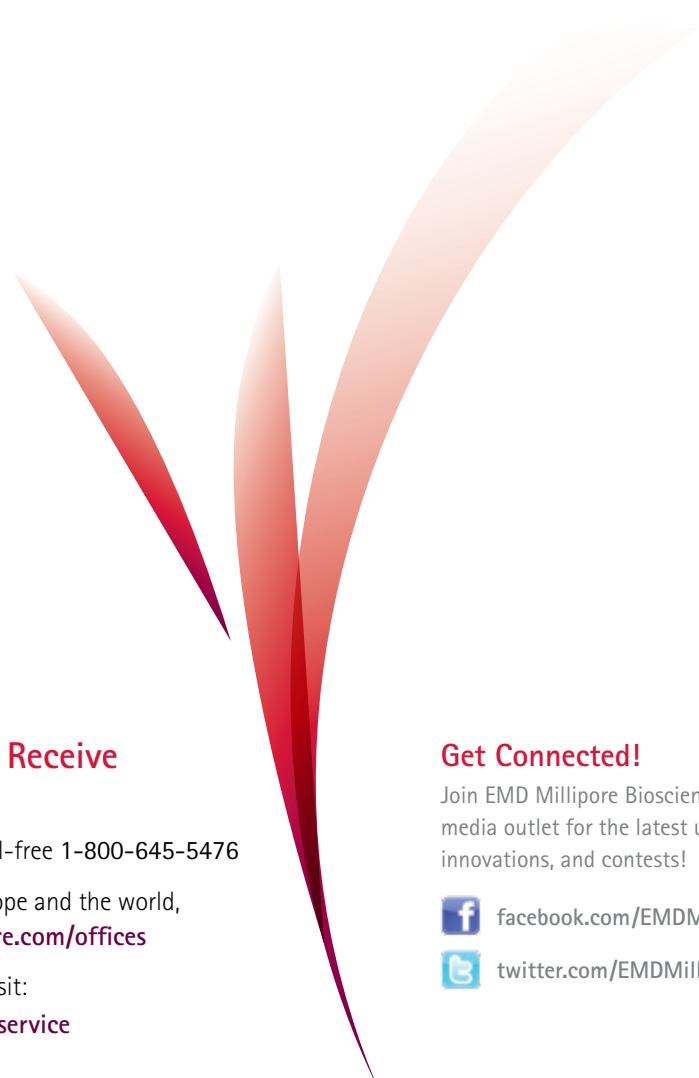
NH Foley, I Bray, KM Watters, S Das, K Bryan, T Bernas, JHM Prehn and RL Stallings (2011)

Cell Death and Differentiation. 18:1089–98.

PMID: 21212796

Application of Scepter™ Cell Counter: Cell counting to monitor cell proliferation (SK-N-BE cells, a human neuroblastoma cell line)





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