

Product References

Clonetics® Airway Epithelial Cells

Cells

SAEC

1. Al-Wadei HAN, Takahashi T, Schuller M. Growth stimulation of human pulmonary adenocarcinoma cells and small airway epithelial cells by β -carotene via activation of cAMP, PKA, CREB, and ERK1/2. *Int J Canc.* 2006; 118(6): 1370-80.
2. Ashitani J, Kyoraku Y, Yanagi S, Matsumoto N, Nakazato M. Elevated levels of beta-D-glucan in bronchoalveolar lavage fluid in patients with farmer's lung in Miyazaki, Japan. *Respiration.* 2008;75(2):182-8.
3. Avadhanula V, Rodriguez CA, DeVincenzo JP, Wang Y, Webby RJ, Ulett GC, Adderson EE. Respiratory viruses augment the adhesion of bacterial pathogens to respiratory epithelium in a viral species- and cell-type dependent manner. *J Virol.* 2006 Feb; 80(4): 1629-36.
4. Chang GC, Liu KJ, Hsieh CL, Hu TS, Charoenfuprasert S, Liu HK, Luh KT, Hsu LH, Wu CW, Ting CC, Chen CY, Chen KC, Yang TY, Chou TY, Wang WH, Whang-Peng J, Shih NY. Identification of alpha-enolase as an autoantigen in lung cancer: its overexpression is associated with clinical outcomes. *Clin Cancer Res.* 2006; 12(19):5746-54.
5. Douillet CD, Robinson WP, Milano PM, Boucher RC, Rich PB. Nucleotides induce IL-6 release from human airway epithelia via P2Y2 and p38 MAPK-dependent pathways. *Am J Physiol Lung Cell Mol Physiol.* 2006; 291(4): L734-46.
6. Fuerer C, Iggo R. Adenoviruses with Tef binding sites in multiple early promoters show enhanced selectivity for tumour cells with constitutive activation of the wnt signaling pathway. *Gene Ther.* 2002 Feb; 9(4): 270-81.
7. Fukazawa T, Maeda Y, Sladek FM, Owen-Schaub LB. Development of a cancer-targeted tissue-specific promoter system. *Canc Res.* 2004 Jan 1; 64: 363-9.
8. Gerber A, Heimburg A, Reisenauer A, Wille A, Welte T, Bühlung F. Proteasome inhibitors modulate chemokine production in lung epithelial and monocytic cells. *Eur Respir J.* 2004; 24: 40-8.
9. Han B, Mura M, Andrede CF, Okutani D, Lodyga M, dos Santos CC, Keshavjee S, Matthay M, Liu M. TNF α -induced long pentraxin PTX3 expression in human lung epithelial cells via JNK. *J Immunol.* 2005; 175: 8303-11.
10. Heise C, Hermiston T, Johnson L, Brooks G, Sampson-Johannes A, Williams A, Hawkins L, Kirn D. An adenovirus E1A mutant that demonstrates potent and selective systemic anti-tumoral efficacy. *Nature Med.* 2000 Oct; 6(10): 1134-9.
11. Hochstadter E, Guay J, Tolloczko B, Soussi-Gounni A, Mazer B. Identifying the Presence and Function of the Fc γ R1 Receptor in Human Normal and Small Airway Epithelium. *Journal of Allergy and Clinical Immunology.* 2007; 119 (1): S209-S210.
12. Hou Y, Gao F, Wang Q, Zhao J, Flagg T, Zhang Y, Deng X. Bcl2 impedes DNA mismatch repair by directly regulating the hMSH2-hMSH6 heterodimeric complex. *J Biol Chem.* 2007; 282(12):9279-87.
13. Islam A, Adamik B, Hawari FI, Ma G, Rouhani FN, Zhang J, Levine SJ. Extracellular TNFR1 release requires the calcium-dependent formation of a nucleobinding 2-ARTS-1 complex. *J Biol Chem.* 2006 Mar 10; 281: 6860-73.
14. Jyonouchi H, Sun S, Abiru T, Chareancholvanich S, Ingbar DH. Effects of hyperoxia on airway epithelial proliferation

- and apoptosis. Am J of Resp Cell and Molecular Biol. 1998.
15. Jyonouchi H, Sun S, Abiru T, Chareancholvanich S, Ingbar DH. Effects of hyperoxic injury and antioxidant vitamins on death and proliferation of human small airway epithelial cells. Am J Respir Cell Mol Biol. 1998; 19: 426-36.
 16. Jyonouchi H, Sun S, Iijima K, Wang M, and Hecht SS. Effects of anti-7,8-dihydroxy-9, 10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene on human small airway epithelial cells and the protective effects of Myo-Inositol. Carcinogenesis. 1998.
 17. Kato T, Daigo Y, Hayama S, Ishikawa N, Yamabuki T, Ito T, Miyamoto M, Kondo S, Nakamura Y. A novel human tRNA-dihydrouridine synthase involved in pulmonary carcinogenesis. Canc Res. 2005; 65: 5638-46.
 18. Khine AA, Del Sorbo L, Vaschetto R, Voglis S, Tullis E, Slutsky AS, Downey GP, Zhang H. Human neutrophils peptides induce interleukin-8 production though the P2Y₆ signaling pathway. Blood. 2006 Apr; 107(7): 2936-42.
 19. Kode A, Rajendrasozhan S, Caito S, Yang SR, Megson IL, Rahman I. Resveratrol induces glutathione synthesis by activation of Nrf2 and protects against cigarette smoke-mediated oxidative stress in human lung epithelial cells. Am J Physiol Lung Cell Mol Physiol. 2008 Mar;294(3):L478-88.
 20. Kuppuswamy M, Spencer JF, Doronin K, Tollefson AE, Wold WS, Toth K. Oncolytic adenovirus that overproduces ADP and replicates selectively in tumors due to hTERT promoter-regulated E4 gene expression. Gene Ther. 2005; 12(22): 1608-17.
 21. Luxen S, Belinsky SA, Knaus UG. Silencing of DUOX NADPH oxidases by promoter hypermethylation in lung cancer. Cancer Res. 2008 Feb 15;68(4):1037-45.
 22. Marini P, Schmid A, Jendrossek V, Faltin H, Daniel PT, Budach W, Belka C. Irradiation specifically sensitizes solid tumor cell lines to TRAIL mediated apoptosis. BMC Canc. 2005; 5(5): 1471-2407.
 23. Mongan NP, Martin KM, Gudas LJ. The putative human stem cell marker, Rex-1 (Zfp42): structural classification and expression in normal human epithelial and carcinoma cell cultures. Mol Carcinog. 2006; 45(12): 887-900.
 24. Murofushi Y, Nagano S, Kamizono J, Takahashi T, Fujiwara H, Komiya S, Matsuishi T, Kosai K. Cell cycle-specific changes in hTERT promoter activity in normal and cancerous cells in adenoviral gene therapy: a promising implication of telomerase-dependent targeted cancer gene therapy. Int J Oncol. 2006; 29(3):681-8.
 25. Nacht M, Dracheva T, Gao Y, Fujii T, Chen Y, Player A, Akmaev V, Cook B, Dufault M, Zhang M, Zhang W, Guo M, Curran J, Han S, Sidransky D, Buetow K, Madden SL, Jen J. Molecular characteristics of non-small cell lung cancer. PNAS. 2001 Dec 18; 98(26): 15203-8.
 26. N'Guessan PD, Etouem MO, Schmeck B, Hocke AC, Scharf S, Vardarova K, Opitz B, Flieger A, Suttorp N, Hippensiel S. Legionella pneumophila-induced PKCalpha-, MAPK-, and NF-kappaB-dependent COX-2 expression in human lung epithelium. Am J Physiol Lung Cell Mol Physiol. 2007; 292(1):L267-77.
 27. N'Guessan PD, Etouem MO, Schmeck B, Hocke AC, Scharf S, Vardarova K, Opitz B, Flieger A, Suttorp N, Hippensiel S. Legionella pneumophila-induced PKCalpha-, MAPK-, and NF-kappaB-dependent COX-2 expression in human lung epithelium. Am J Physiol Lung Cell Mol Physiol. 2007 Jan;292(1):L267-77.
 28. N'Guessan PD, Vigelahn M, Bachmann S, Zabel S, Opitz B, Schmeck B, Hippensiel S, Zweigner J, Riesbeck K, Singer BB, Suttorp N, Slevogt H. The UspA1 Protein of Moraxella catarrhalis Induces CEACAM-1-Dependent Apoptosis in Alveolar Epithelial Cells. The Journal of Infectious Diseases. 2007;195:1651-60.
 29. N'Guessan PD, Vigelahn M, Bachmann S, Zabel S, Opitz B, Schmeck B, Hippensiel S, Zweigner J, Riesbeck K, Singer BB, Suttorp N, Slevogt H. The UspA1 protein of Moraxella catarrhalis induces CEACAM-1-dependent apoptosis in alveolar epithelial cells. J Infect Dis. 2007 Jun;195(11):1651-60.
 30. Nishioka M, Kohno T, Tani M, Yanaihara N, Tomizawa Y, Otsuka A, Sasaki S, Kobayashi K, Niki T, Mawshima A, Sekido Y, Minna JD, Sone S, Yokota J. MYO18B, a candidate tumor suppressor gene at chromosome 22q12.1, deleted, mutated, and methylated in human lung cancer. PNAS. 2002 Sep 17; 99(19): 12269-74.

31. Piao CQ, Liu L, Zhao YL, Balajee S, Suzuki M, Hei TK. Immortalization of human small airway epithelial cells by ectopic expression of telomerase. *Carcino.* 2005; 26(4): 725-31.
32. Plummer III HK, Dhar M, Cekanova M, Schuller HM. Expression of G-protein inwardly rectifying potassium channels (GIRKS) in lung cancer cell lines. *BMC Canc.* 2005 Aug 18; 5: 104-113.
33. Plummer III HK, Dhar M, Schuller. Expression of the α 7 nicotinic acetylcholine receptor in human lung cells. *Respir Res.* 2005; 6(29).
34. Proulx LI, Gaudreault M, Turmel V, Augusto LA, Castonguay A, Bissonnette EY. 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a component of tobacco smoke, modulates mediator release from human bronchial and alveolar epithelial cells. 2005; 140(1): 46-53.
35. Ray R, Keyser B, Benton B, Daher A, Simbulan-Rosenthal CM, Rosenthal DS. Sulfur mustard induces apoptosis in cultured normal human airway epithelial cells: evidence of a dominant caspase-8-mediated pathway and differential cellular responses. *Drug Chem Toxicol.* 2008;31(1):137-48.
36. Russell BH, Vasan R, Keene DR, Koehler TM, Xu Y. Potential dissemination of *Bacillus anthracis* utilizing human lung epithelial cells. *Cell Microbiol.* 2008 Apr;10(4):945-57.
37. Schmeck B, Lorenz J, N'guessan PD, Opitz B, van Laak V, Zahlten J, Slevogt H, Witzenrath M, Flieger A, Suttorp N, Hippenstiel S. Histone acetylation and flagellin are essential for *Legionella pneumophila*-induced cytokine expression. *J Immunol.* 2008 Jul 15; 181(2):940-7.
38. Slevogt H, Seybold J, Tiwari KN, Hocke AC, Jonatrat C, Dietel S, Hippenstiel S, Singer BB, Bachmann S, Suttorp N, Opitz B. *Moraxella catarrhalis* is internalized in respiratory epithelial cells by a trigger-like mechanism and initiates a TLR2- and partly NOD1-dependent inflammatory immune response. *Cell Microbiol.* 2007; 9(3):694-707.
39. Suzuki C, Daigo Y, Ishikawa N, Kato T, Hayama S, Ito T, Tsuchiya E, Nakamura Y. ANLN plays a critical role in human lung carcinogenesis through the activation of RHOA and by involvement in the phosphoinositide 3-kinase/AKT pathway. *Mol Biol.* 2005 Dec 15; 65: 11314-25.
40. Suzuki C, Daigo Y, Kikuchi T, Katagiri T, Nakamura Y. Identification of COX17 as a therapeutic target for non-small cell lung cancer. *Canc Res.* 2003; 63: 7038-41.
41. Vaschetto R, Grinstein J, Del Sorbo L, Khine AA, Voglis S, Tullis E, Slutsky AS, Zhang H. Role of human neutrophil peptides in the initial interaction between lung epithelial cells and CD4+ lymphocytes. *J Leukoc Biol.* 2007 Apr; 81(4):1022-31.
42. Wei X, Pacyna-Gengelbach M, Schlüns K, An Q, Gao Y, Cheng S, Petersen I. Analysis of the RNA helicase A gene in human lung cancer. *Oncol Rep.* 2004; 11: 253-8.
43. West KA, Brognard J, Clark AS, Linnoila IR, Yang X, Swain SM, Harris C, Belinsky S, Dennis PA. Rapid Akt activation by nicotine and a tobacco carcinogen modulates the phenotype of normal human airway epithelial cells. *J clin Invest.* 2003 Jan; 111(1): 81-90.
44. Willette RN, Bao W, Nerurkar S, Yue TL, Doe CP, Stankus G, Turner GH, Ju H, Thomas H, Fishman CE, Sulpizio A, Behm DJ, Hoffman S, Lin Z, Lozinskaya I, Casillas LN, Lin M, Trout RE, Votta BJ, Thorneloe K, Lashinger ES, Figueiroa DJ, Marquis R, Xu X. Systemic activation of the transient receptor potential vanilloid subtype 4 channel causes endothelial failure and circulatory collapse: Part 2. *J Pharmacol Exp Ther.* 2008 Aug; 326(2):443-52.
45. Xiang YY, Wang S, Liu M, Hirota JA, Li J, Ju W, Fan Y, Kelly MM, Ye B, Orser B, O'Byrne PM, Inman MD, Yang X, Lu WY. A GABAergic system in airway epithelium is essential for mucus overproduction in asthma. *Nat Med.* 2007 Jul; 13(7):862-7.
46. Yanagi S, Ashitani J-I, Ishimoto H, Date Y, Mukae H, Chino N, Nakazato M. Isolation of human β -defensin-4 in lung tissue and its increase in lower respiratory tract infection. *Respir Res.* 2005 Nov 04; 6: 130-28.
47. Yang Z-Y, Huang Y, Ganesh L, Leung K, Kong W-P, Schqartz O, Subbarao K, Nabel GJ. pH-dependent entry of severe acute respiratory syndrome coronavirus is mediated by the spike glycoprotein and enhanced by dendritic cell transfer through DC-SIGN. *J Virol.* 2004 Jun; 78(11): 5642-50.

NHBE⁺

1. Albino AP, Huang X, Jorgensen ED, Gietl D, Traganos F, Darzynkiewicz Z. Induction

- of DNA double-strand breaks in A549 and normal human pulmonary epithelial cells by cigarette smoke is mediated by free radicals. *Int J Oncol.* 2006;28(6):1491-505.
2. Au T, Thorne S, Korn WM, Sze D, Kirn D, Reid TR. Minimal hepatic toxicity of Onyx-015: spatial restriction of coxsackie-adenoviral receptor in normal liver. *Cancer Gene Ther.* 2007;14(2):139-50.
3. Avadhanula V, Rodriguez CA, DeVincenzo JP, Wang Y, Webby RJ, Ulett GC, Adderson EE. Respiratory viruses augment the adhesion of bacterial pathogens to respiratory epithelium in a viral species- and cell-type dependent manner. *J Virol.* 2006 Feb; 80(4): 1629-36.
4. Bacsi A, Choudhury BK, Dharajiya N, Sur S, Boldogh I. Subpollen particles: carriers of allergenic proteins and oxidases. *J Allergy Clin Immunol.* 2006;118(4):844-50.
5. Bailey KL, Poole JA, Mathisen TL, Wyatt TA, Von Essen SG, Romberger DJ. Toll-like receptor 2 is upregulated by hog confinement dust in an IL-6-dependent manner in the airway epithelium. *Am J Physiol Lung Cell Mol Physiol.* 2008 Jun;294(6):L1049-54.
6. Barlow PG, Li Y, Wilkinson TS, Bowdish DM, Lau YE, Cosseau C, Haslett C, Simpson AJ, Hancock RE, Davidson DJ. The human cationic host defense peptide LL-37 mediates contrasting effects on apoptotic pathways in different primary cells of the innate immune system. *J Leukoc Biol.* 2006;80(3):509-20.
7. Besaratinia A, Pfeifer GP. Genotoxicity of acrylamide and glycidamide. *J Nat Canc Inst.* 2004; 96(13): 1023-29.
8. Bi X, Jones T, Abbasi F, Lee H, Stultz B, Hursh DA, Mortin MA. Drosophila caliban, a nuclear export mediator, can function as a tumor suppressor in human lung cancer cells. *Oncogene.* 2005. [E pub ahead of print.]
9. Biggs JS, Wan J, Cutler NS, Hakkola J, Uusimäki P, Raunio H, Yost GS. Transcription factor binding to a putative double E-box motif represses CYP3A4 expression in human lung cells. *Mol Pharmacol.* 2007 Sep; 72(3):514-25.
10. Bitko V, Shulyayeva O, Mazumder B, Musiyenko A, Ramaswamy M, Look DC, Barik S. Nonstructural proteins of respiratory syncytial virus suppress premature apoptosis by an NF-kappaB-dependent, interferon-independent mechanism and facilitate virus growth. *J Virol.* 2007; 81(4):1786-95.
11. Boldogh I, Bacsi A, Choudhury BK, Dharajiya N, Alam R, Hazra TK, Mitra S, Goldblum RM, Sur S. ROS generated by pollen NADPH oxidase provide a signal that augments antigen-induced allergic airway inflammation. *J Clin Invest.* 2005; 115(8): 2169-79.
12. Bonnans C, Fukunaga K, Levy MA, Levy BD. Lipoxin A₄ regulates bronchial epithelial cell responses to acid injury. *Am J Pathol.* 2006; 168: 1064-72.
13. Booth BW, Sandifer T, Martin EL, Martin LD. IL-13-induced proliferation of airway epithelial cells: mediation by intracellular growth factor mobilization and ADAM17. *Respir Res.* 2007 Jul 9;8:51.
14. Borchers MT, Harris NL, Wesselkamper SC, Vitucci M, Cosman D. NKG2D ligands are expressed on stressed human airway epithelial cells. *Am J Physiol Lung Cell Mol Physiol.* 2006;291(2):L222-31.
15. Brown CD, Kilty I, Yeadon M, Jenkinson S. Regulation of 15-lipoxygenase isozymes and mucin secretion by cytokines in cultured normal human bronchial epithelial cells. *Inflamm Res.* 2001 Jun; 50(6): 321-6.
16. Carroll TP, Greene CM, Taggart CC, Bowie AG, O'Neill SJ, McElvaney NG. Viral inhibition of IL-1- and neutrophils elastase-induced inflammatory responses in bronchial epithelial cells. *J Immunol.* 2005; 175: 7594-601.
17. Cauchi S, Han W, Kumar SV, Spivack SD. Haplotype-environment interactions that regulate the human glutathione S-transferase P1 promoter. *Cancer Res.* 2006; 66(12): 6439-48.
18. Chan MCW, Cheung CY, Chui WH, Tsao SW, Nicholls JM, Chan YO, Chan RWY, Long HT, Poon LLM, Guan Y, Peiris JSM. Proinflammatory cytokine responses induced by influenza A (H5N1) viruses in primary human alveolar and bronchial epithelial cells. *Respir Res.* 2005 Nov 11; 6: 135-47.
19. Chan SC, Shum DK, Tipoe GL, Mak JC, Leung ET, Ip MS. Upregulation of ICAM-1 expression in bronchial epithelial cells by airway secretions in bronchiectasis. *Respir Med.* 2008 Feb;102(2):287-98.
20. Chan T-M, Leung JK-H, Ho S K-N, Yung S. Mesangial cell-binding anti-DNA antibodies in patients with systemic lupus erythematosus. *J Am Soc Nephrol.* 2002; 13: 1219-29.
21. Chio AJ, Carter JD, Samet JM, Reed W, Quay J, Dailey LA, Richards JH, Devlin

- RB. Metal-dependent expression of ferritin and lactoferrin by respiratory epithelial cells. *Am J Physiol.* 1998; 274: L728-36.
22. Choe MM, Sporn pH, Swartz MA. An in vitro airway wall model of remodeling. *Am J Physiol Lung Cell Mol Physiol.* 2003; 285: L427-33.
23. Chu Q, St George JA, Lukason M, Cheng SH, Scheule RK, Eastman SJ. EGTA enhancement of adenovirus-mediated gene transfer to mouse tracheal epithelium in vivo. *2001 Mar; 12(5): 455-67.*
24. Cowan MJ, Coll T, Shelhamer JH. Polyamine-mediated reduction in human airway epithelial migration in response to wounding is PGE2 dependent through decreases in COX-2 and cPLA2 protein levels. *J Appl Physiol.* 2006;101(4):1127-35.
25. Dasgupta P, Rastogi S, Pillai S, Ordóñez-Ercan D, Morris M, Haura E, Chellappan S. Nicotine induces cell proliferation by beta-arrestin-mediated activation of Src and Rb-Raf-1 pathways. *J Clin Invest.* 2006;116(8):2208-2217.
26. DeCicco KL, Tanaka T, Andreola F, De Luca LM. The effect of thalidomide on non-small cell lung cancer (NSCLC) cell lines: possible involvement in the PPAR γ pathway. *Carcino.* 2004; 25(10): 1805-12.
27. Delgado MA, Poschet JF, Deretic V. Nonclassical pathway of *Pseudomonas aeruginosa* DNA-induced interleukin-8 secretion in cystic fibrosis airway epithelial cells. *Infect Immun.* 2006;74(5):2975-84.
28. Deshmukh HS. Metalloproteinases mediate mucin 5AC expression by epidermal growth factor receptor activation. *Am J Respir Crit Care Med.* 2005; 171:305-14.
29. Dougherty SM, Mazhawidza W, Bohn AR, Robinson KA, Mattingly KA, Blankenship KA, Huff MO, McGregor WG, Klinge CM. Gender difference in the activity but not expression of estrogen receptors alpha and beta in human lung adenocarcinoma cells. *Endocr Relat Cancer.* 2006;13(1):113-34.
30. Dulong S, Bernard K, Ehrenfeld J. Enhancement of P2Y6-induced Cl $^{-}$ secretion by IL-13 and modulation of SK4 channels activity in human bronchial cells. *Cell Physiol Biochem.* 2007; 20(5):483-94.
31. Eddleston J, Herschbach J, Wagelin-Steffen AL, Christiansen SC, Zuraw BL. The anti-inflammatory effect of glucocorticoids is mediated by glucocorticoid-induced leucine zipper in epithelial cells. *J Allergy Clin Immunol.* 2007;119(1):115-22.
32. Ekstrand-Hammarström B, Österlund C, Lilliehöök B, Bucht A. Vitamin E down-modulates mitogen-activated protein kinases, nuclear factor- κ B and inflammatory responses in lung epithelial cells. *Clinical & Experimental Immunology.* 2007;147 (2), 359-369.
33. Elliott MB, Welliver RC Sr, Laughlin TS, Pryharski KS, LaPierre NA, Chen T, Souza V, Terio NB, Hancock GE. Matrix metalloproteinase-9 and tissue inhibitor of matrix metalloproteinase-1 in the respiratory tracts of human infants following paramyxovirus infection. *J Med Virol.* 2007 Apr; 79(4):447-56.
34. Erlemann KR, Cossette C, Gravel S, Lesimple A, Lee GJ, Saha G, Rokach J, Powell WS. Airway epithelial cells synthesize the lipid mediator 5-oxo-ETE in response to oxidative stress. *Free Radic Biol Med.* 2007 Mar 1; 42(5):654-64.
35. Eskan MA, Benakanakere MR, Rose BG, Zhang P, Zhao J, Stathopoulou P, Fujioka D, Kinane DF. Interleukin-1beta modulates proinflammatory cytokine production in human epithelial cells. *Infect Immun.* 2008 May;76(5):2080-9.
36. Fanzo JC, Reaves SK, Cui L, Zhu L, Wu JY, Wang YR, Lei KY. Zinc status affects p53, gadd45, and c-fos expression and caspase-3 activity in human bronchiole epithelial cells. *Am J Physiol Cell Physiol.* 2001; 281(3): C751-7.
37. Fields WR, Desiderio JG, Leonard RM, Burger EE, Brown BG, Doolittle DJ. Differential c-myc expression profiles in normal human bronchial epithelial cells following treatment with benzo[a]pyrene-4,5 epoxide, and benzo[a]pyrene-7,8-9,10 diol epoxide. *Mol Carcinogen.* 2004; 40(2): 79-89.
38. Fields WR, Leonard RM, Odom PS, Nordskog BK, Ogden MW, Doolittle DJ. Gene expression in normal human bronchial epithelial (NHBE) cells following in vitro exposure to cigarette smoke condensation. *Toc Sci.* 2005; 86(1): 84-91.
39. Fink K, Duval A, Martel A, Soucy-Faulkner A, Grandvaux N. Dual role of NOX2 in respiratory syncytial virus- and sendai virus-induced activation of NF- κ pB in airway epithelial cells. *J Immunol.* 2008 May 15;180(10):6911-22.
40. Firoved AM, Ornatowski W, Deretic V. Microarray analysis reveals induction of lipoprotein genes in mucoid *Pseudomonas*

- aeruginose: implications for inflammation in cystic fibrosis. *Infect Immun.* 2004 Sep; 72(9): 5012-8.
41. Fischer B, Voynow J. Neutrophil elastase induces MUC5AC messenger RNA expression by an oxidant-dependent mechanism. *Chest.* 2000 May; 117(5): 317-20.
 42. Fischer BM, Zheng S, Fan R, Voynow JA. Neutrophil elastase inhibition of cell cycle progression in airway epithelial cells in vitro is mediated by p27kip1. *Am J Physiol Lung Cell Mol Physiol.* 2007 Sep; 293(3):L762-8.
 43. Fu J, Fong K, Bellacosa A, Ross E, Apostolou S, Bassi DE, Jin F, Zhang J, Cairns P, de Caceres II, Braunewell KH, Klein-Szanto AJ. VILIP-1 downregulation in non-small cell lung carcinomas: mechanisms and prediction of survival. *PLoS ONE.* 2008 Feb 27;3(2):e1698.
 44. Fukunaga K, Kohli P, Bonnans C, Fredenburgh LE, Levy BD. Cyclooxygenase 2 plays a pivotal role in the resolution of acute lung injury. *J Immunol.* 2005; 174: 5033-9.
 45. Geiszt M, Witta J, Baffi J, Lekstrom K, Leto TL. Dual oxidases represent novel hydrogen peroxide sources supporting mucosal surface host defense. *FASEB J.* express article 10.1096/fj.02-1104fje. 2003 Jun.
 46. Gerber A, Heimburg A, Reisenauer A, Wille A, Welte T, Bühling F. Proteasome inhibitors modulate chemokine production in lung epithelial and monocytic cells. *Eur Respir J.* 2004; 24: 40-8.
 47. Glader P, Moller S, Lilja J, Wieslander E, Lofdahl CG, von Wachenfeldt K. Cigarette smoke extract modulates respiratory defense mechanisms through effects on T-cells and airway epithelial cells. *Respir Med.* 2005. [Epub ahead of print.]
 48. Guillot L, Carroll SF, Badawy M, Qureshi ST. Cryptococcus neoformans induces IL-8 secretion and CXCL1 expression by human bronchial epithelial cells. *Respir Res.* 2008 Jan 22;9:9.
 49. Guo X, Ruiz A, Rando RR, Bok D, Gudas LJ. Esterification of all-trans-retinol in normal human epithelial cell strains and carcinoma lines from oral cavity, skin and breast: reduced expression of lecithin:retinol acyltransferase in carcinoma lines. 2000 Nov; 21(11): 1925-33.
 50. Ha U, Lim JH, Jono H, Koga T, Srivastava A, Malley R, Pagès G, Pouysségur J, Li JD. A novel role for IkappaB kinase (IKK) alpha and IKKbeta in ERK-dependent up-regulation of MUC5AC mucin transcription by Streptococcus pneumoniae. *J Immunol.* 2007;178(3):1736-47.
 51. Hatta M, Hatta Y, Kim JH, Watanabe S, Shinya K, Nguyen T, Lien PS, Le QM, Kawaoka Y. Growth of H5N1 influenza A viruses in the upper respiratory tracts of mice. *PLoS Pathog.* 2007 Oct 5; 3(10):1374-9.
 52. Hatta M, Hatta Y, Kim JH, Watanabe S, Shinya K. Growth of H5N1 Influenza A Viruses in the Upper Respiratory Tracts of Mice. *PLoS Pathogens.* 2007; 3(10): e133.
 53. He S-H, Zheng J. Stimulation of mucin from human bronchial epithelial cells by mast cell chymase. *Acta Pharmacol Sin.* 2004 Jun; 25(6): 827-32.
 54. Hellerman G, Kong X, Gunnarsdóttir J, San Juan H, Singam R, Behera S, Zhang W, Lockey RF, Mohapatra SS. Mechanism of bronchoprotective effects of a novel natriuretic hormone peptide. *J Allergy Clin Immunol.* 2004; 113: 79-85.
 55. Heuze-Vourc'h N, Zhu L, Krysan K, Batra RK, Sharma S, Dubinett SM. Abnormal interleukin 10R α expression contributes to the maintenance of elevated cyclooxygenase-2 in non-small cell lung cancer cells. *Canc Res.* 2003 Feb 15; 63: 766-70.
 56. Hong JA, Kang Y, Abdullaev Z, Flanagan PT, Pack SD, Fischette MR, Adnami MT, Loukinov DI, Vatolin S, Risinger JI, Custer M, Chen GA, Zhao M, Nguyen DM, Barrett JC, Lobanenkov VV, Schrump DS. Reciprocal binding of CTCF and BORIS to the NY-ESO-1 promoter coincides with derepression of this cancer-testis gene in lung cancer cells. *Canc Res.* 2005; 65: 7763-74.
 57. Ilyushina NA, Govorkova EA, Gray TE, Bovin NV, Webster RG. Human-like receptor specificity does not affect the neuraminidase-inhibitor susceptibility of H5N1 influenza viruses. *PLoS Pathog.* 2008 Apr 11;4(4):e1000043.
 58. Jacobson BA, Alter MD, Kratzke MG, Frizelle SP, Zhang Y, Peterson MS, Avdulov S, Mohorn RP, Whitson BA, Bitterman PB, Polunovsky VA, Kratzke RA. Repression of cap-dependent translation attenuates the transformed phenotype in non-small cell lung cancer both in vitro and in vivo. *Cancer Res.* 2006; 66(8):4256-62.
 59. Jäger R, Noll K, Bavemann K, Pflüger K-H, Knabbe C, Rauvala H, Zugmaier G,

- Differential expression and biological activity of the heparin-binding growth-associated molecule (HB-GAM) in lung cancer cell lines. *Int J Cacin.* 1998; 73(4): 537-43.
60. Jaulin F, Xue X, Rodriguez-Boulan E, Kreitzer G. Polarization-dependent selective transport to the apical membrane by KIF5B in MDCK cells. *Dev Cell.* 2007 Oct; 13(4): 511-22.
 61. Jenkins RG, Su X, Su G, Scotton CJ, Camerer E, Laurent GJ, Davis GE, Chambers RC, Matthay MA, Sheppard D. Ligation of protease-activated receptor 1 enhances alpha(v)beta6 integrin-dependent TGF-beta activation and promotes acute lung injury. *J Clin Invest.* 2006;116(6):1606-14.
 62. Johassen ME, Reilly CA, Yost GS. TRPV1 antagonists elevate cell surface populations of receptor protein and exacerbate TRPV1-mediated toxicities in human lung epithelial cells. *Toxicol Soc.* 2006; 89(1): 278-86.
 63. Juang SH, Lung CC, Hsu PC, Hsu KS, Li YC, Hong PC, Shiah HS, Kuo CC, Huang CW, Wang YC, Huang L, Chen TS, Chen SF, Fu KC, Hsu CL, Lin MJ, Chang CJ, Ashendel CL, Chan TC, Chou KM, Chang JY. D-501036, a novel selenophene-based triheterocycle derivative, exhibits potent in vitro and in vivo antitumoral activity which involves DNA damage and ataxia telangiectasia-mutated nuclear protein kinase activation. *Mol Cancer Ther.* 2007;6(1):193-202.
 64. Kang Y, Hong JA, Chen GA, Nguyen DM, Schrump DS. Dynamic transcriptional regulatory complexes including BORIS, CTCF and Sp1 modulate NY-ESO-1 expression in lung cancer cells. *Oncogene.* 2007 Jan 29; [Epub ahead of print].
 65. Kato A, Favoreto S Jr, Avila PC, Schleimer RP. TLR3- and Th2 cytokine-dependent production of thymic stromal lymphopoietin in human airway epithelial cells. *J Immunol.* 2007 Jul;179 (2):1080-7.
 66. Kawaguchi M, Kokubu F, Matsukura S, Ieki K, Odaka M, Watanabe S, Suzuki S, Adachi M, Huang S-K. Induction of C-X-C chemokines, growth-related oncogene α expression, and epithelial cell-derived neutrophils-activating protein-78 by ML-1 (Interleukin-17F) involves activation of Raf-1-mitogen-activated protein kinase kinase-extracellular signal-regulated kinase ½ pathway. *J Pharmacol Exp Therap.* 2003; 307(3): 1213-20.
 67. Ke Q, Davidson T, Kluz T, Oller A, Costa M. Fluorescent tracking of nickel ions in human cultured cells. *Toxicol Appl Pharmacol.* 2007 Feb 15; 219(1):18-23.
 68. Khan N, Hadi N, Afaq F, Syed DN, Kweon MH, Mukhtar H. Pomegranate fruit extract inhibits prosurvival pathways in human A549 lung carcinoma cells and tumor growth in athymic nude mice. *Carcinogenesis.* 2007; 28(1):163-73.
 69. Kim S, Schein AJ, Nadel JA. E-cadherin promotes EGFR-mediated cell differentiation and MUC5AC mucin expression in cultured human airway epithelial cells. *Am J Physiol Lung Cell Mol Physiol.* 2005; 289: L1049-60.
 70. Knight DA, Lydell CP, Zhou D, Weir TD, Schellenberg RR, Bai TR. Leukemia inhibitory factor (LIF) and LIF receptor in human lung distribution and regulation of LIF disease. *Am J Respir Cell Mol Biol.* 1999; 20: 834-41.
 71. Kobayashi I, Yamamoto S, Nishi N, Tsuji K, Imayoohi M, Inada S, Ichiamaru T, Hamasaki T. Regulatory mechanisms of Th2 cytokine-induced eotaxin-3 production in bronchial epithelial cells: possible role of interleukin 4 receptor and nuclear factor- κ B. *Ann Allergy Asthma Immunol.* 2004 Oct; 93(4): 390-7.
 72. Koff JL, Shao MX, Kim S, Ueki IF, Nadel JA. *Pseudomonas* lipopolysaccharide accelerates wound repair via activation of a novel epithelial cell signaling cascade. *J Immunol.* 2006;177(12):8693-700.
 73. Koff JL, Shao MX, Ueki IF, Nadel JA. Multiple TLRs activate EGFR via a signaling cascade to produce innate immune responses in airway epithelium. *Am J Physiol Lung Cell Mol Physiol.* 2008 Jun;294(6):L1068-75.
 74. Kogure T, Suzuki T, Takahashi T, Miyamoto D, Hidari KI, Guo CT, Ito T, Kawaoka Y, Suzuki Y. Human trachea primary epithelial cells express both sialyl(alpha2-3)Gal receptor for human parainfluenza virus type 1 and avian influenza viruses, and sialyl(alpha2-6)Gal receptor for human influenza viruses. *Glycoconj J.* 2006;23(1-2):101-6.
 75. Kong X, San Juan H, Behera A, Peebles ME, Wu J, Lockey RF, Mohapatra SS. ERK-1/2 activity is required for efficient RSV infection. *FEBS.* 2004; 559: 33-8.
 76. Kong X, San Juan H, Kumar M, Behera AK, Mohapatra A, Hellerman GR, Mane S, Lockey RF, Mohapatra SS. Respiratory syncytial virus infection activates STAT

- signaling in human epithelial cells. *Biochem Biophys Res Comm.* 2003; 306; 616-22.
77. Korn SH, Jerre A, Brattsand R. Effects of formoterol and budesonide on GM-CSF and IL-8 secretion by triggered human bronchial epithelial cells. *Eur Respir J.* 2001; 17: 1070-7.
78. Kratzer C, Graninger W, Macfelda K, Buxbaum A, Georgopoulos A. Comparative activities of antibiotics against intracellular non-typeable *Haemophilus influenzae*. *Wien Klin Wochenschr.* 2007; 119(9-10):297-302.
79. Kravchenko VV, Kaufmann GF, Mathison JC, Scott DA, Katz AZ, Wood MR, Brogan AP, Lehmann M, Mee JM, Iwata K, Pan Q, Fearn C, Knaus UG, Meijler MM, Janda KD, Ulevitch RJ. N-(3-oxoacyl)homoserine lactones signal cell activation through a mechanism distinct from the canonical pathogen-associated molecular pattern recognition receptor pathways. *J Biol Chem.* 2006; 281(39):28822-30.
80. Krunkosky TM, Jarrett CL. Selective regulation of MAP kinases and chemokine expression after ligation of ICAM-1 on human airway epithelial cells. *Respir Res.* 2006; 7: 12-21.
81. Krunkosky TM, Jordan JL, Chambers E, Krause DC. *Mycoplasma pneumoniae* host-pathogen studies in an air-liquid culture of differentiated human airway epithelial cells. *Microb Pathog.* 2007 Feb-Mar; 42(2-3): 98-103.
82. Kruzel ML, Bacsi A, Choudhury B, Sur S, Boldogh I. Lactoferrin decreases pollen antigen-induced allergic airway inflammation in a murine model of asthma. *Immunology.* 2006; 119(2); 159-66.
83. Kuppuswamy M, Spencer JF, Doronin K, Tollefson AE, Wold WS, Toth K. Oncolytic adenovirus that overproduces ADP and replicates selectively in tumors due to hTERT promoter-regulated E4 gene expression. *Gene Ther.* 2005; 12(22): 1608-17.
84. Kuwahara I, Lillehoj EP, Lu W, Singh IS, Isohama Y, Miyata T, Kim KC. Neutrophil elastase induces IL-8 gene transcription and protein release through p38/NF- κ B activation via EGFR transactivation in a lung epithelial cell line. *Am J Physiol Lung Cell Mol Physiol.* 2006;291(3):L407-16.
85. Lau C, Wang X, Song L, North M, Wiehler S, Proud D, Chow CW. Syk associates with clathrin and mediates phosphatidylinositol 3-kinase activation during human rhinovirus internalization. *J Immunol.* 2008 Jan 15;180(2):870-80.
86. Le Visage C, Dunham B, Flint P, Leong KW. Coculture of mesenchymal stem cells and respiratory epithelial cells to engineer a human composite respiratory mucosa. *Tissue Engin.* 2004; 10(9-10): 1426-35.
87. Lee HC, Ziegler SF. Inducible expression of the proallergic cytokine thymic stromal lymphopoietin in airway epithelial cells is controlled by NF κ B. *Proc Natl Acad Sci U S A.* 2007 Jan; 104(3): 914-9.
88. Lee JH, Kaminski N, Dolganov G, Grunin G, Koth L, Soloman C, Erle DJ, Sheppard D. Interleukin-13 induces dramatically different transcriptional programs in three human airway cell types. *Am J Respir Cell Mol Biol.* 2001; 25L 474-85.
89. Lee S-C, Hsu J-Y, Fu L-S, Chu J-J, Fan S-J, Chi C-S. Comparison of the activities of granulocyte-macrophage colony-stimulating factor and interleukin-8 secretion between two lung epithelial cell lines. *J Microbil Immunol Infect.* 2005; 38: 327-31.
90. LeVan TD, Bloom JW, Adams DG, Hensel JL, Halonen M. Platelet-activating factor induction of activator protein-1 signaling in bronchial epithelial cells. *Mol Pharma.* 1998; 53: 135-40.
91. Lian F, Smith DE, Ernst H, Russell RM, Wang XD. Apo-10'-lycopenoic acid inhibits lung cancer cell growth in vitro, and suppresses lung tumorigenesis in the A/J mouse model in vivo. *Carcinogenesis.* 2007 Jul; 28(7):1567-74.
92. Lim JH, Jono H, Koga T, Woo CH, Ishinaga H, Bourne P, Xu H, Ha UH, Xu H, Li JD. Tumor Suppressor CYLD Acts as a Negative Regulator for Non-Typeable *Haemophilus influenzae*-Induced Inflammation in the Middle Ear and Lung of Mice. *PLoS ONE.* 2007 Oct; 2(10):e1032.
93. Lin H, Li H, Cho HJ, Bian S, Roh HJ, Lee MK, Kim JS, Chung SJ, Shim CK, Kim DD. Air-liquid interface (ALI) culture of human bronchial epithelial cell monolayers as an in vitro model for airway drug transport studies. *J Pharm Sci.* 2007; 96(2):341-50.
94. Lu W, Hisatsune A, Koga T, Kato K, Kuwahara I, Lillehoj EP, Chen W, Cross AS, Gandler SJ, Gewirtz AT, Kim KC. Cutting Edge: enhanced pulmonary clearance of *Pseudomonas aeruginosa* by Muc1 knockout mice. *J Immunol.* 2006; 176: 3890-4.

95. Lung CC, Jagels MA, Daffern PJ, Tan EM, Zuraw BL. Induction of human B2 bradykinin receptor mRNA and membrane receptors by IFN γ . *Immunopharmacol.* 1998; 39: 243-53.
96. Luxen S, Belinsky SA, Knaus UG. Silencing of DUOX NADPH oxidases by promoter hypermethylation in lung cancer. *Cancer Res.* 2008 Feb 15;68(4):1037-45.
97. Maksimova E, Yie TA, Rom WN. In vitro mechanisms of lovastatin on lung cancer cell lines as a potential chemopreventive agent. *Lung.* 2008 Jan-Feb;186(1):45-54.
98. Malavia NK, Mih JD, Raub CB, Dinh BT, George SC. IL-13 induces a bronchial epithelial phenotype that is profibrotic. *Respir Res.* 2008 Mar 18;9:27.
99. Martínez-García E, Irigoyen M, Ansó E, Martínez-Irujo JJ, Rouzaut A. Recurrent exposure to nicotine differentiates human bronchial epithelial cells via epidermal growth factor receptor activation. *Toxicol Appl Pharmacol.* 2008 May 1;228(3):334-42.
100. Matsukura S, Kokubu F, Kurokawa M, Kawaguchi M, Ieki K, Kuga H, Odaka M, Suzuki S, Watanabe S, Takeuchi H, Kasama T, Adachi M. Synthetic double-stranded RNA induces multiple genes related to inflammation through Toll-like receptor 3 depending on NF- κ B and/or IRF-3 in airway epithelial cells. *Clin Exp Allergy.* 2006; 36(8):1049-62.
101. Michelson PH, Tigue M, Panos Sporn PHS. Keratinocyte growth factor stimulates bronchial epithelial cell proliferation in vitro and in vivo. *Am J Physiol.* 1999; 277: L737-42.
102. Mongan NP, Martin KM, Gudas LJ. The putative human stem cell marker, Rex-1 (Zfp42): structural classification and expression in normal human epithelial and carcinoma cell cultures. *Mol Carcinog.* 2006; 45(12):887-900.
103. Mutch E, Nave R, McCracken N, Zech K, Williams FM. The role of esterases in the metabolism of ciclesonide to desisobutyrylciclesonide in human tissue. *Biochem Pharmacol.* 2007 May 15; 73(10): 1657-64.
104. Myöhänen H, Virtanen I, Vaheri A. Elimination of hydrocortisone from the medium enables tissue plasminogen activator gene expression by normal and immortalized nonmalignant human epithelial cells. *Biol Chem.* 2001 Nov; 382(11): 1563-73.
105. Nacht M, Dracheva T, Gao Y, Fujii T, Chen Y, Player A, Akmaev V, Cook B, Dufault M, Zhang M, Zhang W, Guo M, Curran J, Han S, Sidransky D, Buetow K, Madden SL, Jen J. Molecular characteristics of non-small cell lung cancer. *PNAS.* 2001 Dec 18; 98(26): 15203-8.
106. Nishioka M, Kohno T, Tani M, Yanaihara N, Tomizawa Y, Otsuka A, Sasaki S, Kobayashi K, Niki T, Mawshima A, Sekido Y, Minna JD, Sone S, Yokota J. MYO18B, a candidate tumor suppressor gene at chromosome 22q12.1, deleted, mutated, and methylated in human lung cancer. *PNAS.* 2002 Sep 17; 99(19): 12269-74.
107. Ocejo-Garcia M, Baakbah TAS, Louise Ashurst H, Cowlishaw D, Soomro I, Coulson JM, Woll PJ. Roles for USF-2 in lung cancer proliferation and bronchial carcinogenesis. *J Pathol.* 2005; 206(2): 151-9.
108. Okamoto T, Valacchi G, Gohil K, Akaike T, van der Vliet A. S-nitrosothiols inhibit cytokine-mediated induction of matrix metalloproteinase-9 in airway epithelial cells. *Am J Respir Cell Mol Biol.* 2002; 27: 463-73.
109. Oostingh GJ, Schmittner M, Ehart AK, Tischler U, Duschl A. A high-throughput screening method based on stably transformed human cells was used to determine the immunotoxic effects of fluoranthene and other PAHs. *Toxicol In Vitro.* 2008 Aug;22(5):1301-10.
110. Ornatowski W, Poschet JF, Perkett E, Taylor-Cousar JL, Deretic V. Elevated furin levels in human cystic fibrosis cells result in hypersusceptibility to exotoxin A-induced cytotoxicity. *J Clin Invest.* 2007 Nov; 117(11):3489-97.
111. Palmberg L, Larsson B-M, Malmberg P, Larsson K. Induction of IL-8 production in human alveolar macrophages and human bronchial epithelial cells in vitro by swine dust. *Thorax.* 1998; 53: 260-4.
112. Pappas C, Aguilar PV, Basler CF, Solórzano A, Zeng H, Perrone LA, Palese P, García-Sastre A, Katz JM, Tumpey TM. Single gene reassortants identify a critical role for PB1, HA, and NA in the high virulence of the 1918 pandemic influenza virus. *Proc Natl Acad Sci U S A.* 2008 Feb 26;105(8):3064-9.
113. Park J-A, He F, Martin LD, Li Y, Chorley BN, Adler KB. Human neutrophils elastase induces hypersecretion of mucin from well-differentiated human bronchial epithelial cells in vitro via protein kinase C-mediated

- mechanism. Am J Pathol. 2005; 167: 651-61.
114. Pasquale GD, Chiorini JA. AAV transcytosis through barrier epithelia and endothelium. Mol Ther. 2006 Mar; 13(3): 506-16.
115. Pataer A, Fanale MA, Roth JA, Swisher SG, Hunt KK. Induction of apoptosis in human lung cancer cells following treatment with amifostine and an adenoviral vector containing wild-type p53. Cancer Gene Ther. 2006;13(8):806-14.
116. Pawliczak R, Logun C, Madara P, Barb J, Suffredini AF, Munson PJ, Danner RL, Shelhamer JH. Influence of IFN- γ on gene expression in normal human bronchial epithelial cells: modulation of IFN- γ effects by dexamethasone. Physiol Genomics. 2005; 23: 28-45.
117. Pégorier S, Wagner LA, Gleich GJ, Pretolani M. Eosinophil-derived cationic proteins activate the synthesis of remodeling factors by airway epithelial cells. J Immunol. 2006; 177(7):4861-9.
118. Perez DS, Hoage TR, Pritchett JR, Ducharme-Smith AL, Halling ML, Ganapathiraju SC, Streng PS, Smith DI. Long, abundantly expressed non-coding transcripts are altered in cancer. Hum Mol Genet. 2008 Mar 1;17(5):642-55.
119. Perrio MJ, Ewen D, Trevethick MA, Salmon GP, Shute JK. Fibrin formation by wounded bronchial epithelial cell layers in vitro is essential for normal epithelial repair and independent of plasma proteins. Clin Exp Allergy. 2007 Nov; 37(11): 1688-700.
120. Piao CQ, Willey JC, Hei TK. Alterations of p53 in tumorigenic human bronchial epithelial cells correlate with metastatic potential. Carcino. 1999; 20(8): 1529-33.
121. Plamondon P, Luke NR, Campagnari AA. Identification of a novel two-partner secretion locus in *Moraxella catarrhalis*. Infect Immun. 2007 Jun; 75(6): 2929-36.
122. Porter JC, Falzon M, Hall A. Polarized localization of epithelial CXCL11 in chronic obstructive pulmonary disease and mechanisms of T cell egression. J Immunol. 2008 Feb 1;180(3):1866-77.
123. Proulx LI, Gaudreault M, Turmel V, Augusto LA, Castonguay A, Bissonnette EY. 4-(methylinitrosamino)-1-(3-pyridyl)-1-butanone, a component of tobacco smoke, modulates mediator release from human bronchial and alveolar epithelial cells. 2005; 140(1): 46-53.
124. Ramírez de Molina A, Sarmentero-Estrada J, Belda-Iniesta C, Tarón M, Ramírez de Molina V, Cejas P, Skrzypski M, Gallego-Ortega D, de Castro J, Casado E, García-Cabezas MA, Sánchez JJ, Nistal M, Rosell R, González-Barón M, Lacal JC. Expression of choline kinase alpha to predict outcome in patients with early-stage non-small-cell lung cancer: a retrospective study. Lancet Oncol. 2007 Oct; 8(10): 889-97.
125. Ray R, Keyser B, Benton B, Daher A, Simbulan-Rosenthal CM, Rosenthal DS. Sulfur mustard induces apoptosis in cultured normal human airway epithelial cells: evidence of a dominant caspase-8-mediated pathway and differential cellular responses. Drug Chem Toxicol. 2008;31(1):137-48.
126. Regueiro V, Campos MA, Pons J, Alberti S, Bengoechea JA. The uptake of a *Klebsiella pneumoniae* capsule polysaccharide mutant triggers an inflammatory response by human airway epithelial cells. Microbiol. 2006; 152: 555-66.
127. Rendon BE, Roger T, Teneng I, Zhao M, Al-Abed Y, Calandra T, Mitchell RA. Regulation of human lung adenocarcinoma cell migration and invasion by macrophage migration inhibitory factor. J Biol Chem. 2007 Oct ;282 (41):29910-8.
128. Ridgway JBB, Ng E, Kern JA, Lee J, Brush J, Goddard A, Carter P. Identification of a human anti-CD55 single-chain Fv by subtractive panning of a phage library using tumor and nontumor cell lines. Canc Res. 1999 Jun 1; 59: 2718-23.
129. Ritz SA, Wan J, Diaz-Sanchez D. Sulforaphane-stimulated phase II enzyme induction inhibits cytokine production by airway epithelial cells stimulated with diesel extract. Am J Physiol Lung Cell Mol Physiol. 2007 Jan; 292(1):L33-9.
130. Roomans GM. X-ray microanalysis of cultured cells in the scanning electron microscope and in the scanning transmission electron microscope: a comparison. Scan Microsc. 1999; 13(1): 159-65.
131. Saelzler MP, Spackman CC, Liu Y, Martinez LC, Harris JP, Abe MK. ERK8 down-regulates transactivation of the glucocorticoid receptor through Hic-5. J Biol Chem. 2006; 281(24):16821-32.
132. Sajjan US, Sylvester FA, Forstner JF. Cable-piliated *Burkholderia cepacia* binds to Cytokeratin 13 of epithelial cells. Infect Immunity. 2000 Apr; 68(4): 1787-95.

133. Sakai A, Han ACB, Skira S, Li J-D. Glucocorticoids synergize with IL-1 β to induce TLR2 expression via MAP kinase phosphatase-1-dependent dual inhibition of MAAP JN and p38 in epithelial cells. *BMC Col Biol.* 2004; 5 2-18.
134. Sakai A, Koga T, Lim JH, Jono H, Harada K, Szymanski E, Xu H, Kai H, Li JD. The bacterium, nontypeable *Haemophilus influenzae*, enhances host antiviral response by inducing Toll-like receptor 7 expression: evidence for negative regulation of host anti-viral response by CYLD. *FEBS J.* 2007 Jul; 274(14):3655-68.
135. San-Juan-Vergara H, Peeples ME, Lockey RF, Mohapatra SS. Protein kinase C- α activity is required for respiratory syncytial virus fusion to human bronchial epithelial cells. *J Virol.* 2004; 78(24): 13717-26.
136. Savla U, Waters CM. Mechanical strain inhibits repair of airway epithelium in vitro. *Am Physiol Soc.* 1998; 274: L883-92.
137. Shao MXG, Nadel JA. Dual oxidase 1-dependent MUC5AC mucin expression in cultured human airway epithelial cells. *PNAS.* 2005; 102(3): 767-72.
138. Shao MXG, Nadel JA. Neutrophil elastase induces MUC5AC Mucin production in human airway epithelial cells via a cascade involving protein kinase C, reactive oxygen species, and TNF- α -converting enzyme. *J Immunol.* 2005; 175: 4009-16.
139. Shih RS, Wong SH, Schoene NW, Lei KY. Suppression of Gadd45 alleviates the G2/M blockage and the enhanced phosphorylation of p53 and p38 in zinc supplemented normal human bronchial epithelial cells. *Exp Biol Med (Maywood).* 2008 Mar;233(3):317-27.
140. Shimizu S, Gabazza EC, Taguchi O, Yasui H, Taguchi Y, Hayashi T, Ido M, Shimizu T, Nakagaki T, Kobayashi H, Fukudome K, Tsuneyoshi N, D'Alessandro-Gabazza CN, Izumizaki M, Iwase M, Homma I, Adachi Y, Suzuki K. Activated protein C inhibits the expression of platelet-derived growth factor in the lung. *Am J Respir Crit Care Med.* 2003; 167: 1416-26.
141. Shinkai M, Foster G, Rubin B. Macrolide antibiotics modulate ER phosphorylation and IL-8 and GM-CSF production by human bronchial epithelial cells. *Am J Physiol Lung Mol Physiol.* 2005; 290: L75-85.
142. Shinkai M, Lopez-Boado YS, Rubin BK. Clarithromycin has an immunomodulatory effect on ERK-mediated inflammation induced by *Pseudomonas aeruginosa* flagellin. *Journal of Antimicrobial Chemotherapy.* 2007; 59(6):1096-1101.
143. Shinkai M, Tamaoki J, Kobayashi H, Kanoh S, Motoyoshi K, Kute T, Rubin BK. Clarithromycin delays progression of bronchial epithelial cells from G1 phase to S phase and delays cell growth via extracellular signal-regulated protein kinase suppression. *Antimicrob Agents Chemother.* 2006; 50(5):1738-44.
144. Sidhaye VK, Schweitzer KS, Caterina MJ, Shimoda L, King LS. Shear stress regulates aquaporin-5 and airway epithelial barrier function. *Proc Natl Acad Sci U S A.* 2008 Mar 4;105(9):3345-50.
145. Stecenko AA, King G, Torii K, Breyer RM, Dworski R, Blackwell TS, Christman JW, Brigham KL. Dysregulated cytokine production in human cystic fibrosis bronchial epithelial cells. *Inflamm.* 2001 Jun; 25(3): 145-55.
146. Subbarayan V, Xu X-C, Kim J, Yang P, Hoque A, Sabichi AL, Llansa N, Mendoza G, Logothetis CJ, Newman RA, Lippman SM, Menter DG. Inverse relationship between 15-lipoxygenase-2 and PPAR- γ gene expression in normal epithelia compared with tumor epithelia. *Neoplas.* 2005 Mar; 7(3): 280-93.
147. Suzuki M, Piao C-Q, Hall EJ, Hei TK. Cell killing and chromatid damage in primary human bronchial epithelial cells irradiated with accelerated ^{56}Fe ions. *Radiat Res.* 2001; 155: 432-9.
148. Syed DN, Afaq F, Kweon MH, Hadi N, Bhatia N, Spiegelman VS, Mukhtar H. Green tea polyphenol EGCG suppresses cigarette smoke condensate-induced NF-kappaB activation in normal human bronchial epithelial cells. *Oncogene.* 2007; 26(5):673-82.
149. Tatler AL, Porte J, Knox A, Jenkins G, Pang L. Tryptase activates TGFbeta in human airway smooth muscle cells via direct proteolysis. *Biochem Biophys Res Commun.* 2008 May 30;370(2):239-42.
150. Telang S, Yalcin A, Clem AL, Bucala R, Lane AN, Eaton JW, Chesney J. Ras transformation requires metabolic control by 6-phosphofructo-2-kinase. *Oncogene.* 2006; 25(55):7225-34.
151. Tew GW, Lorimer EL, Berg TJ, Zhi H, Li R, Williams CL. SmgGDS regulates cell proliferation, migration, and NF-kappaB transcriptional activity in non-small cell

- lung carcinoma. *J Biol Chem.* 2008 Jan 11;283(2):963-76.
152. Thitithanyanont A, Engering A, Ekchariyawat P, Wiboon-ut S, Limsalakpatch A, Yongvanitchit K, Kum-Arb U, Kanchongkittiphon W, Utaisincharoen P, Sirisinha S, Puthavathana P, Fukuda MM, Pichyangkul S. High susceptibility of human dendritic cells to avian influenza H5N1 virus infection and protection by IFN-alpha and TLR ligands. *J Immunol.* 2007 Oct; 179(8): 5220-7.
153. Thomas KC, Sabnis AS, Johansen ME, Lanza DL, Moos PJ, Yost GS, Reilly CA. Transient Receptor Potential Vanilloid 1 Agonists Cause Endoplasmic Reticulum Stress and Cell Death in Human Lung Cells. *Journal of Pharmacology And Experimental Therapeutics.* 2007. [Epub ahead of print.]
154. Thomas LH, Wickremasinghe MI, Friedland JS. IL-1 beta stimulates divergent upper and lower airway epithelial cell CCL5 secretion. *Clin Immunol.* 2007 Feb; 122(2):229-38.
155. Thompson HG, Mih JD, Krasieva TB, Tromberg BJ, George SC. Epithelial-derived TGF-beta2 modulates basal and wound-healing subepithelial matrix homeostasis. *Am J Physiol Lung Cell Mol Physiol.* 2006; 291(6):L1277-85.
156. Thompson HG, Truong DT, Griffith CK, George SC. A three-dimentional in vitro model of angiogenesis in the airway mucosa. *Pulm Pharmacol Ther.* 2007; 20 (2):141-8.
157. Tomei AA, Choe MM, Swartz MA. Effects of dynamic compression on lentiviral transduction in an in vitro airway wall model. *Am J Physiol Lung Cell Mol Physiol.* 2008 Jan;294(1):L79-86.
158. Tsuchumperlin DJ, Dal G, Maly IV, Kikuchi T, Laiho LH, McVittie AK, Haley KJ, Lilly CM, So PTC, Lauffenburger DA, Kamm RD, Drazen JM. Mechanotransduction through growth-factor shedding into the extracellular space. *Nature.* 2004 May 06; 429: 83-6.
159. Tsuchumperlin DJ, Shively JD, Kosmidou I, Drazen JM. Airway epithelial compression: a stimulus for airway remodeling in asthma. *ASME.* 2001; 50: 409-10.
160. Tsuji K, Yamamoto S, Ou W, Nishi N, Kobayashi I, Zaitsu M, Muro E, Sadakane Y, Ichimaru T, Hamasaki Y. dsRNA enhances eotaxin-3 production through interleukin-4 receptor upregulation in airway epithelial cells. *Eur Respir J.* 2005; 26: 795-803.
161. Valacchi G, Pagnin E, Phung A, Nardini M, Schock BC, Cross CE, Van der Vliet A. Inhibition of NF_κB activation and IL-8 expression in human bronchial epithelial cells by acrolein. *Antiox Redox Signal.* 2005 Jan; 7 (1-2): 25-31.
162. Visage CL, Dunham B, Flint P, Leong KW. Coculture of mesenchymal stem cells and respiratory epithelial cells to engineer a human composite respiratory mucosa. *Tissue Engineer.* 2004 Sep; 10(9-10): 1426-35.
163. Wang X, Kettenhofen NJ, Shiva S, Hogg N, Gladwin MT. Copper dependence of the biotin switch assay: modified assay for measuring cellular and blood nitrosated proteins. *Free Radic Biol Med.* 2008 Apr 1;44(7):1362-72.
164. Wang Z, Malmberg P, Ek A, Larsson K, Palmberg L. Swice dust induces cytokine secretion from human epithelial cells and alveolar macrophages. *Clin Exp Immunol.* 1999; 115: 6-12.
165. Wei X, Pacyna-Gengelbach M, Schlüns K, An Q, Gao Y, Cheng S, Petersen I. Analysis of the RNA helicase A gene in human lung cancer. *Oncol Rep.* 2004; 11: 253-8.
166. Weiser TS, Guo ZS, Ohnmacht GA, Parkhurst ML, Tong-On P, Marincola FM, Fischette MR, Yu X, Chen GA, Hong JA, Stewart JH, Nguyen DM, Rosenberg SA, Schrump DS. Sequential 5-aza-2'-deoxycytidine-depsipeptide FR901228 treatment induces apoptosis preferentially in cancer cells and facilitates their recognition by cytolytic T lymphocytes specific for NY-ESO-1. *J Immunother.* 2001 Mar; 24(2): 151-61.
167. Wesley UV, Bove PF, Hristova M, McCarthy S, van der Vliet A. Airway epithelial cell migration and wound repair by ATP-mediated activation of dual oxidase 1. *J Biol Chem.* 2007; 282(5):3213-20.
168. West KA, Brognard J, Clark AS, Linnoila IR, Yang X, Swain SM, Harris C, Belinsky S, Dennis PA. Rapid Akt activation by nicotine and a tobacco carcinogen modulates the phenotype of normal human

Media

- airway epithelial cells. J clin Invest. 2003 Jan; 111(1): 81-90.
169. White SR, Williams P, Wojcik KR, Sun S, Hiemstra PS, Rabe KF, Dorscheid DR. Initiation of apoptosis by actin cytoskeletal derangement in human airway epithelial cells. Am J Respir Cell Mol Biol. 2001; 24: 282-94.
170. Wong SH, Shih RS, Schoene NW, Lei DK Phd. Zinc induced G2/M blockage is p53 and p21 dependent in normal human bronchial epithelial cells. Am J Physiol Cell Physiol. 2008 Mar 19.
171. Wu HT, Ko SY, Fong JH, Chang KW, Liu TY, Kao SY. Expression of phosphorylated Akt in oral carcinogenesis and its induction by nicotine and alkaline stimulation. J Oral Pathol Med. 2008 Mar 10. [Epub ahead of print]
172. Xie J, Nair A, Hermiston TW. A comparative study examining the cytotoxicity of inducible gene expression system ligands in different cell types. Toxicol In Vitro. 2008 Feb;22(1):261-6.
173. Yang Z-Y, Huang Y, Ganesh L, Leung K, Kong W-P, Schqartz O, Subbarao K, Nabel G.J. pH-dependent entry of severe acute respiratory syndrome coronavirus is mediated by the spike glycoprotein and enhanced by dendritic cell transfer through DC-SIGN. J Virol. 2004 Jun; 78(11): 5642-50.
174. Yeow WS, Baras A, Chua A, Nguyen DM, Sehgal SS, Schrump DS, Nguyen DM. Gossypol, a phytochemical with BH3-mimetic property, sensitizes cultured thoracic cancer cells to Apo2 ligand/tumor necrosis factor-related apoptosis-inducing ligand. J Thorac Cardiovasc Surg. 2006; 132(6):1356-62.
175. Zeng H, Goldsmith C, Thawatsupha P, Chittaganpitch M, Waicharoen S, Zaki S, Tumpey TM, Katz JM. Highly pathogenic avian influenza H5N1 viruses elicit an attenuated type I interferon response in polarized human bronchial epithelial cells. J Virol. 2007 Nov; 81(22):12439-49.
176. Zhang ZH, Jow F, Numann R, Hinson J. The airway epithelium: a novel site of action by guanylin. Biochem and Biophys Resear Comm. 1998; 244: 52-6.
177. Zhao YL, Piao CQ, Hei TK. Overexpression of Betaig-h3 gene downregulates integrin alpha5beta1 and suppresses tumorigenicity in radiation-induced tumorigenic human bronchial
1. Berger MJ, Adams SD, Tigges BM, Sprague SL, Wang XJ, Collins DP, McKenna DH. Differentiation of umbilical cord blood-derived multilineage progenitor cells into respiratory epithelial cells. Cytotherapy. 2006; 8(5): 480-7.
2. Bergeron C, Boulet L, Page N, Laviolette M, Zimmermann N, Rothenberg M, Hamid Q. Influence of cigarette smoke on the arginine pathway in asthmatic airways: Increased expression of arginase I. Journal of Allergy and Clinical Immunology. 2007; 119 (2): 391-397.
3. Borgatti M, Bezzzerri V, Mancini I, Nicolis E, Dechechchi MC, Lampronti I, Rizzotti P, Cabrini G, Gambari R. Induction of IL-6 gene expression in a CF bronchial epithelial cell line by *Pseudomonas aeruginosa* is dependent on transcription factors belonging to the Sp1 superfamily. Biochem Biophys Res Commun. 2007 Jun 15; 357(4):977-83.
4. Cao D, Tal TL, Graves LM, Gilmour I, Linak W, Reed W, Bromberg PA, Samet JM. Diesel exhaust particulate-induced activation of Stat3 requires activities of EGFR and Src in airway epithelial cells. Am J Physiol Lung Cell Mol Physiol. 2007; 292(2):L422-9.
5. Carlisle DL, Hopkins TM, Gaither-Davis A, Silhanek MJ, Luketich JD, Christie NA, Siegfried JM. Nicotine signals through muscle-type and neuronal nicotinic acetylcholine receptors in both human bronchial epithelial cells and airway fibroblasts. Respir Res. 2004; 5:2.
6. Cerri C, Chimenti D, Conti I, Neri T, Paggiaro P, Celi A. Monocyte/macrophage-derived microparticles up-regulate inflammatory mediator synthesis by human airway epithelial cells. J Immunol. 2006; 177(3):1975-80.
7. Chen M, Chen LM, Lin CY, Chai KX. The epidermal growth factor receptor (EGFR) is proteolytically modified by the Matriptase-Prostasin serine protease cascade in cultured epithelial cells. Biochim Biophys Acta. 2008 May;1783(5):896-903.
8. Corti A, Franzini M, Casini AF, Paolicchi A, Pompella A. Vitamin C supply to bronchial epithelial cells linked to glutathione availability in elf-a role for secreted gamma-

- glutamyltransferase? *J Cyst Fibros.* 2008 Mar;7(2):174-8.
9. Fu X, Beer DG, Behar J, Wands J, Lambeth D, Cao W. cAMP-response element-binding protein mediates acid-induced NADPH oxidase NOX5-S expression in Barrett esophageal adenocarcinoma cells. *J Biol Chem.* 2006;281(29):20368-82.
 10. Gambardella S, Biancolella M, D'Apice MR, Amati F, Sangiuolo F, Farcomeni A, Chillemi G, Bueno S, Desideri A, Novelli G. Gene expression profile study in CFTR mutated bronchial cell lines. *Clin Exp Med.* 2006; 6(4):157-65.
 11. Hassan MH, Khatoon N, Curiel DT, Hamada FM, Arafa HM, Al-Hendy A. Toward gene therapy of uterine fibroids: targeting modified adenovirus to human leiomyoma cells. *Hum Reprod.* 2008 Mar;23(3):514-24.
 12. Jogler C, Hoffmann D, Theegarten D, Grunwald T, Uberla K, Wildner O. Replication properties of human adenovirus in vivo and in cultures of primary cells from different animal species. *J Virol.* 2006; 80(7):3549-58.
 13. Kato T, Hayama S, Yamabuki T, Ishikawa N, Miyamoto M, Ito T, Tsuchiya E, Kondo S, Nakamura Y, Daigo Y. Increased expression of insulin-like growth factor-II messenger RNA-binding protein 1 is associated with tumor progression in patients with lung cancer. *Clin Cancer Res.* 2007; 13(2 Pt 1):434-42.
 14. Ketterer MR, Shao JQ, Hornick DB, Buscher B, Bandi VK, Apicella MA. Infection of primary human bronchial epithelial cell by *Haemophilus influenzae*: macropinocytosis as a mechanism of airway epithelial cell entry. *Infect Immun.* 1999 Aug; 67(8): 4161-70.
 15. Kim KK, Kugler MC, Wolters PJ, Robillard L, Galvez MG, Brumwell AN, Sheppard D, Chapman HA. Alveolar epithelial cell mesenchymal transition develops in vivo during pulmonary fibrosis and is regulated by the extracellular matrix. *Proc Natl Acad Sci U S A.* 2006; 103(35):13180-5.
 16. Lee MJ, Yu GR, Park SH, Cho BH, Ahn JS, Park HJ, Song EY, Kim DG. Identification of cystatin B as a potential serum marker in hepatocellular carcinoma. *Clin Cancer Res.* 2008 Feb 15;14(4):1080-9.
 17. Lian G, Hu KQ, Russell RM, Wang XD. β -Cryptoxanthin suppresses the growth of immortalized human bronchial epithelial cells and non-small-cell lung cancer cells and up-regulates retinoic acid receptor β expression. *International Journal of Cancer.* 2006; 119 (9): 2084-9.
 18. Liu X, Driskell RR, Engelhardt JF. Stem cells in the lung. *Methods Enzymol.* 2006 ;419:285-321.
 19. Matute-Bello G, Liles WC, Steinberg KP, Kiener PA, Mongovin S, Chi EY, Martin TR. Soluable Fas ligand epithelial cell apoptosis in humans with acute lung injury (ARDS). *J Immuno.* 1999; 163: 2217-25.
 20. Maunders H, Patwardhan S, Phillips J, Clack A, Richter A. Human bronchial epithelial cell transcriptome: gene expression changes following acute exposure to whole cigarette smoke in vitro. *Am J Physiol Lung Cell Mol Physiol.* 2007; 292(5):L1248-56.
 21. Miyajima K, Nakajima S, Taguchi M, Hayashi A, Kajiwara N, Uchida O, Kono T, Takahashi M, Kawanishi K, Tanaka M, Takizawa H, Kata H. Cytokine responsiveness in cultured human small airway epithelial cells in relation to lung transplantation. *Ann Thorac Cardiovasc Surg.* 2005; 11(6): 374-81.
 22. Murphy DM, Ward C, Forrest IA, Pritchard G, Jones D, Stovold R, Fisher AJ, Cawston TE, Lordan JL, Corris PA. The phosphodiesterase type IV inhibitor cilomilast decreases pro-inflammatory cytokine production from primary bronchial epithelial cells in lung transplantation patients. *J Heart Lung Transplant.* 2006; 25(12): 1436-40.
 23. Pan ZK, Ye RD, Christiansen SC, Jagels MA, Bokoch GM, Zuraw BL. Role of the rho GTPase in Bradykinin-stimulated nuclear factor- κ B activation and IL-1B gene expression in cultured human epithelial cells. *J Immunol.* 1998; 160: 3038-45.
 24. Parise RA, Egorin MJ, Kanterewicz B, Taimi M, Petkovich M, Lew AM, Chuang SS, Nichols M, El-Hefnawy T, Hershberger PA. CYP24, the enzyme that catabolizes the antiproliferative agent vitamin D, is increased in lung cancer. *Int J Cancer.* 2006; 119(8):1819-28.
 25. Puppala D, Gairola CG, Swanson HI. Identification of kaempferol as an inhibitor of cigarette smoke-induced activation of the aryl hydrocarbon receptor and cell transformation. *Carcinogenesis.* 2007;28(3):639-47.
 26. Rippon HJ, Polak JM, Qin M, Bishop AE. Derivation of distal lung epithelial progenitors from murine embryonic stem

- cells using a novel three-step differentiation protocol. *Stem Cells.* 2006;24(5):1389-98.
27. Roberts JR, Perkins GD, Fujisawa T, Pettigrew KA, Gao F, Ahmed A, Thickett DR. Vascular endothelial growth factor promotes physical wound repair and is anti-apoptotic in primary distal lung epithelial and A549 cells. *Crit Care Med.* 2007 Sep; 5(9):2164-70.
28. Sajjan US, Jia Y, Newcomb DC, Bentley JK, Lukacs NW, LiPuma JJ, Hershenzon MB. *H. influenzae* potentiates airway epithelial cell responses to rhinovirus by increasing ICAM-1 and TLR3 expression. *FASEB J.* 2006; 20(12):2121-3.]
29. Sato N, Fujimura T, Masuzawa M, Yogi Y, Matsuoka M, Kanoh M, Riley LW, Katsuoka K. Recombinant *Mycobacterium leprae* protein associated with entry into mammalian cells of respiratory and skin components. *J Dermatol Sci.* 2007 May; 46(2):101-10.
30. Steimer A, Franke H, Haltner-Ukomado E, Laue M, Ehrhardt C, Lehr CM. Monolayers of porcine alveolar epithelial cells in primary culture as an in vitro model for drug absorption studies. *Eur J Pharm Biopharm.* 2007 Jun; 66(3):372-82.
31. Taetz S, Baldes C, Mürdter TE, Kleideiter E, Piotrowska K, Bock U, Haltner-Ukomadu E, Mueller J, Huwer H, Schaefer UF, Klotz U, Lehr CM. Biopharmaceutical characterization of the telomerase inhibitor BRACO19. *Pharm Res.* 2006; 23(5):1031-7.
32. Tsuji PA, Walle T. Inhibition of benzo[a]pyrene-activating enzymes and DNA binding in human bronchial epithelial BEAS-2B cells by methoxylated flavonoids. *Carcinogenesis.* 2006; 27(8):1579-85.
33. Winkler ME, Mauritz C, Groos S, Kispert A, Menke S, Hoffmann A, Gruh I, Schwanke K, Haverich A, Martin U. Serum-free differentiation of murine embryonic stem cells into alveolar type II epithelial cells. *Cloning Stem Cells.* 2008 Mar;10(1):49-64.
34. Wislez M, Antoine M, Rabbe N, Gounant V, Poulot V, Lavolé A, Fleury-Feith J, Cadranel J. Neutrophils promote aerogenous spread of lung adenocarcinoma with bronchioloalveolar carcinoma features. *Clin Cancer Res.* 2007 Jun;13(12):3518-27.
35. Yamazaki Y, Danelishvili L, Wu M, Hidaka E, Katsuyama T, Stang B, Petrofsky M, Bildfell R, Bermudez LE. The ability to form biofilm influences *Mycobacterium avium* invasion and translocation of bronchial epithelial cells. *Cell Microbiol.* 2006; 8(5):806-14.
36. Yoo JW, Kim YS, Lee SH, Lee MK, Roh HJ, Jhun BH, Lee CH, Kim DD. Serially passaged human nasal epithelial cell monolayer for in vitro drug transport studies. *Pharm Res.* Oct 2003; 20(10): 1690-6.
37. Yu ZY, McKay K, Asperen PV, Zheng M, Fleming J, Ginn SL, Kizana E, Latham M, Feneley MP, Kirkland PD, Rowe PB, Lumbers ER, Alexander IE. Lentivirus vector-mediated gene transfer to the developing bronchiolar airway epithelium in the fetal lamb. *Journal of Gene Medicine.* 2007; 9(6): 429-39.
38. Zalewski P, Truong-Tran A, Lincoln S, Ward D, Shankar A, Coyle P, Jayaram L, Copley A, Grosser D, Murgia C, Lang C, Ruffin R. Use of a zinc fluorophore to measure labile pools of zinc in body fluids and cell-conditioned media. *Biotechniques.* 2006; 40(4): 509-20.

* References not specifically citing the use of Lonza cells, media, or reagents in their research.

+ Denotes sections containing only the articles published within the last ten years.