

[1995]

- Ishikawa M., Takahashi N., Sahara H., Akino T., Suzuki E., Ejima D., Sawada M., Hayakawa Y., Sato N. & Kikuchi K. One molecule among the gonadal smooth muscle contraction factors in the sea urchin istrigonelline. **J. Mar. Biotechnol.** 2: 230-233.
- Machiguchi Y., Takahashi N., Sahara H., Ishikawa M., Akino T., Sato N. & Kikuchi K. Flat-form reversion of ras transformants by fucoidan from brown algae. **J. Mar. Biotechnol.** 2: 223-225.
- Honda Y., Kuroki Y., Shijubo N., Fujishima T., Takahashi H., Hosoda K., Akino T. & Abe T. Aberrant appearance of lung surfactant protein A in sera of patients with idiopathic pulmonary fibrosis and its clinical significant. **Respiration** 62: 64-69.
- Kari M. A., Akino T. & Hallman M. Prenatal dexamethasone and exogenous surfactant therapy: surface activity and surfactant components in airway specimens. **Pediatr Res.** 38: 676-684.
- Ruud A. W. Veldhuizen, McCaig L. A., Akino T. & Lewis J. F. Pulmonary surfactant subfractions in patients with the acute respiratory distress syndrome. **Am. J. Respir. Crit. Care Med.** 152: 1867-1871.
- Honda Y., Kuroki Y., Matsuura E., Nagae H., Takahashi H., Akino T. & Abe S. Pulmonary surfactant protein D in sera and bronchoalveolar lavage fluids. **Am. J. Respir. Crit. Care Med.** 152: 1860-1866.
- Sohma H., Matsushima N., Watanabe T., Hattori A., Kuroki Y. & Akino T. Ca²⁺-dependent binding of annexin IV to surfactant protein A and lamellar bodies in alveolar type II cells. **Biochem. J.** 312: 175-181.
- Takahashi H., Honda Y., Kuroki Y., Fujishima T., Shijubo N., Imai K., Akino T. & Abe S. Pulmonary surfactant protein A: a serum marker of pulmonary fibrosis in patients with collagen vascular diseases. **Clinica. Chimica. Acta** 239: 213-215.
- Robertson B., Curstedt T., Herting E., Sun B., Akino T. & Schafer K. P. Alveolar-to-vascular leakage of surfactant protein A in ventilated immature newborn rabbits. **Biol. Neonate** 68: 185-190.
- Hiraie N., Sohma H., Kuroki Y. & Akino T. Epitope mapping for monoclonal antibody against human surfactant protein A (SP-A) that alters receptor binding of SP-A and the SP-A-dependent regulation of phospholipid secretion by alveolar type II cells. **Biochim. Biophys. Acta** 1257: 214-222.
- Ogasawara Y. & Voelker D. R. Altered carbohydrate recognition specificity engineered into surfactant protein D reveals different binding mechanisms for phosphatidylinositol and glucosylceramide. **J. Biol. Chem.** 270: 14725-14732.
- Ogasawara Y. & Voelker D. R. The role of the amino-terminal domain and the collagenous region in the structure and the function of rat surfactant protein D. **J. Biol. Chem.** 270: 19052-19058.
- Shijubo N., Honda Y., Fujishima T., Takahashi H., Kodama T., Kuroki Y., Akino T. & Abe S. Lung surfactant protein A and carcinoembryonic antigen in pleural effusions due to lung adenocarcinoma and malignant mesothelioma. **Eur. Respir. J.** 8: 403-406.

[1994]

- Ogasawara Y., McCormack F. X., Mason R. J. & Voelker D. R. Chimeras of surfactant proteins A and D identify the carbohydrate recognition domains as essential for phospholipid interaction. **J. Biol. Chem.** 269: 29785-29792.
- Kuroki Y. & Voelker D. R. Pulmonary surfactant proteins. **J. Biol. Chem.** 269: 25943-25946.
- Kuroki Y., McCormack F. X., Ogasawara Y., Mason R. J. & Voelker D. R. Epitope mapping for monoclonal antibodies identifies functional domains of pulmonary surfactant protein A that interact with lipids. **J. Biol. Chem.** 269: 29793-29800.
- Inoue T., Matsuura E., Nagata A., Ogasawara Y., Hattori A., Kuroki Y., Fujimoto S. & Akino T. Enzyme-linked immunosorbent assay for human pulmonary surfactant protein D. **J. Immunol. Meth.** 173: 157-164.
- McCormack F. X., Kuroki Y., Stewart J. J., Mason R. J. & Voelker D. R. Surfactant protein A amino acids Glu¹⁹⁵ and Arg¹⁹⁷ are essential for receptor binding, phospholipid aggregation, regulation of secretion, and the facilitated uptake of phospholipid by type II cells. **J. Biol. Chem.** 269: 29801-29807.
- Fukada Y., Matsuda T., Kokame K., Takao T., Shimonishi Y., Akino T. & Yoshizawa T. Effects of carboxyl methylation of photoreceptor G protein g-subunit in visual transduction. **J. Biol. Chem.** 269: 5163-5170.

[1993]

- Sohma H., Hashimoto H., Hiraie N., Ohguro H. & Akino T. Different functional forms of G-protein bg-subunits, bg-I and bg-II, in bovine brain. **Biochim. Biophys. Acta** 1178: 111-116.
- Sohma H., Hattori A., Kuroki Y. & Akino T. Calcium and dithiothreitol dependent conformational changes in b-sheet structure of collagenase resistant fragment of human surfactant protein A. **Biochem. Mol. Biol. Int.** 30: 329-336.
- Ohguro H., Chiba S., Igarashi Y., Matsumoto H. & Akino T. b-Arrestin and arrestin are recognized by autoantibodies in sera from multiple sclerosis patients. **Proc. Natl. Acad. Sci. USA** 90: 3241-3245.
- Ohguro H., Kitamura K., Nakagawa T. & Akino T. Characterization of two components of bg-subunits of photoreceptor G-protein. **Curr. Asp. Ophthalmol.** 1: 922-925.
- Kuroki Y., Tsutahara S., Shijubo N., Takahashi H., Shiratori M., Hattori A., Honda T. & Abe S. Elevated levels of lung surfactant protein A in sera from patients with idiopathic pulmonary fibrosis and pulmonary alveolar proteinosis. **Am. Rev. Respir. Dis.** 147: 723-729.
- Kuo C., Taira E., Takaha N., Sohma H., Akino T., Fukada Y., Sanada K. & Miki N. Purification and characterization of three maka-like proteins in liver: association of a 94 kDa protein with bg subunits of G-proteins. **Biochem. Biophys. Res. Commun.** 191: 1097-1104.
- Sohma H., Hashimoto H., Hiraie N., Ohguro H. & Akino T. Identification of a novel g-subunit from bovine brain GTP binding regulatory proteins (Gi/O). **Biochem. Biophys. Res. Commun.** 190: 849-856.
- Murata Y., Kuroki Y. & Akino T. Role of the C-terminal domain of pulmonary surfactant protein A in binding to alveolar type II cells and regulation of phospholipid secretion. **Biochem. J.** 291: 71-76.
- Tsutahara S., Shijubo N., Hirasawa M., Honda Y., Satoh M., Kuroki Y. & Akino T. Lung adenocarcinoma with type II pneumocyte characteristics. **Eur. Respir. J.** 6: 135-137.
- Oshika E., Kuroki Y., Sakiyama Y., Matsumoto S. & Akino T. A study of the binding of immunoglobulin G and immunoglobulin E from children with bronchial asthma to peptides derived from group II antigen of Dermatophagoides pteronyssinus. **Pediatric Res.** 33: 209-213.

[1992]

- Oshika E., Kuroki Y., Sakiyama Y. & Matsumoto S. Measurement of IgG subclass antibodies to the group II antigen of Dermatophagoides Pteronyssinus (Der p II) in sera from children with bronchial asthma. **Annals of Allergy** 69: 427-432.
- Nagata Y., Masui R. & Akino T. The presence of free D-serine, D-alanine and D-proline in human plasma. **Experientia** 48: 986-988.
- Akino T. Lipid components of the surfactant system. **Pulmonary Surfactant** 19-31.
- Kuroki Y., Gasa S., Ogasawara Y., Makita A. & Akino T. Binding of pulmonary surfactant protein A to galactosylceramide and asialo-G_{M2}. **Arch. Biochem. Biophys.** 299: 261-267.
- Kuroki Y. Surfactant protein SP-D. **Pulmonary Surfactant** 77-85.
- Kuroki Y., Gasa S., Ogasawara Y., Shiratori M., Makita A. & Akino T. Binding specificity of lung surfactant protein SP-D for glucosylceramide. **Biochem. Biophys. Res. Commun.** 187: 963-969.
- Ogasawara Y., Kuroki Y. & Akino T. Pulmonary surfactant protein D specifically binds to phosphatidylinositol. **J. Biol. Chem.** 267: 21244-21249.
- Sohma H., Watanabe T., Kuroki Y., Yoshino H., Matsushima N., Yazawa M. & Akino T. Calcium dependent conformational changes of surfactant protein A (SP-A) and its collagenase resistant fragment with or without dithiothreitol. **Biochim. Biophys. Acta** 1159: 150-154.
- Kobayashi K., Ohtani S., Yamanaka N., Saito T., Kataura A. & Akino T. Presence of an 80 kilodalton protein, cross-reacted with monoclonal antibodies to pulmonary surfactant protein A, in the human middle ear. **Annals of Otolaryngology Rhinology Laryngology** 101: 491-495.
- Sohma H. Actin binding to cross-linked 10 S smooth muscle myosin and 9 S heavy meromyosin. **Biochem. Int.** 27: 699-707.
- Shijubo N., Tsutahara S., Hirasawa M., Takahashi H., Honda Y., Suzuki A., Kuroki Y. & Akino T. Pulmonary surfactant protein A in pleural effusions. **Cancer** 69: 2905-2909.
- Ogasawara Y., Kuroki Y., Tsuzuki A., Ueda S., Misaki H. & Akino T. Pre- and postnatal stimulation of pulmonary surfactant protein D by in vivo dexamethasone treatment O rats. **Life Sciences** 50: 1761-1767.
- Nagata Y., Yamamoto K., Shimojo T., Konno R., Yasumura Y. & Akino T. The presence of free D-alanine, D-proline and D-serine in mice. **Biochim. Biophys. Acta** 1115: 208-211.
- Ohguro H., Nakagawa T., Kitamura K. & Akino T. Lack of association of Ca²⁺-calmodulin with bg-subunits of the photo-receptor G protein. **Biochem. Int.** 26: 51-57.

[1991]

- Shijubo N., Hirasawa M., Sasaki H., Tsutahara S., Takahashi H., Honda Y., Suzuki A., Kuroki Y. & Akino T. Expression of pulmonary surfactant protein A (SP-A) in lung cancer lines. **Tumor Res.** 26: 1-10.
- Fukada M., Takao T., Hidaka Y., Matsuda T., Fukda Y., Akino T., Yoshizawa T. & Shimonishi Y. Synthesis and biological function of the C-terminal farnesylated peptide of the g-subunit of photoreceptor GTP-binding protein. **Pept. Chem.** 259-264.
- Hallman M., Merritt T., Akino T. & Bry K. Surfactant protein A, phosphatidylcholine and surfactant inhibitors in epithelial lining fluid: correlation with surface activity, severity of respiratory distress syndrome and outcome of small premature infants. **Am. Rev. Respir. Dis.** 144: 1376-1384.
- Ohguro H., Fukada Y. & Akino T. Structure and function of g-subunit of photoreceptor G-protein. **Comp. Biochem. Physiol.** 100: 433-438.
- Kuroki Y., Shiratori M., Ogasawara Y., Tsuzuki A. & Akino T. Characterization of pulmonary surfactant protein D: its copurification with lipids. **Biochim. Biophys. Acta** 1086: 185-190.
- Ohguro H., Fukada Y., Takao T., Shimonishi Y., Yoshizawa T. & Akino T. Carboxyl methylation and farnesylation of transducin g-subunit synergistically enhance its coupling with metarhodopsin II. **EMBO J.** 10: 3669-3674.
- Yamanaka N., Kobayashi K., Kataura A., Kuroki Y. & Akino T. Implication of surfactant apoprotein in otitis media with effusion. **Annals of Otolaryngology Rhinology Laryngology** 100: 835-840.
- Nagao M., Ishii S., Kitamura K. & Akino T. Arachidonic acid metabolism in articular chondrocytes. **Clinical Orthopaedics** 271: 288-295.
- Kuroki Y., Shiratori M., Murata Y. & Akino T. Surfactant protein D (SP-D) counteracts the inhibitory effect of surfactant protein A (SP-A) on phospholipid secretion by alveolar type II cells. **Biochem. J.** 279: 115-119.
- Kuroki Y. & Akino T. Role of collagenous domain and oligosaccharide moiety of pulmonary surfactant protein A in interactions with phospholipids. **Biochem. Int.** 24: 225-234.
- Ogasawara Y., Kuroki Y., Shiratori M., Shimizu H., Miyamura K. & Akino T. Ontogeny of surfactant apoprotein D, SP-D, in the rat lung. **Biochim. Biophys. Acta** 1083: 252-256.
- Nagao M., Ishii S., Murata Y. & Akino T. Effect of extracellular fatty acids on lipid metabolism in cultured rabbit articular chondrocytes. **J. Orthopaedic Res.** 9: 341-347.
- Kuroki Y. & Akino T. Pulmonary surfactant protein A (SP-A) specifically binds dipalmitoylphosphatidylcholine. **J. Biol. Chem.** 266: 3068-3073.
- Shimizu H., Miyamura K. & Kuroki Y. Appearance of surfactant proteins, SP-A and SP-B, in developing rat lung and the effects of in vivo dexamethasone treatment. **Biochim. Biophys. Acta** 1081: 53-60.

[1990]

- Hallman M. & Akino T. The major surfactant protein and surfactant function. **Sapporo Med. J.** 59: 637-638.
- Takao T., Fukada Y., Ohguro H., Yoshizawa T., Akino T. & Shimonishi Y. Determination of posttranslationally modified structures in proteins by accurate mass measurement in FAB mass spectrometry. **Pept. Chem.** 165-170.
- Akino T., Mizumoto M., Shimizu H., Kuroki Y. & Dempo K. Pulmonary corpora amylacea contain surfactant apoprotein. **Path. Res. Pract.** 186: 687-691.
- Fukada Y., Takao T., Ohguro H., Yoshizawa T., Akino T. & Shimonishi Y. Farnesylated g-subunit of photoreceptor G protein indispensable for GTP-binding. **Nature** 346: 658-660.
- Nagata Y. & Akino T. D-Amino acids in mouse tissues are not of microbial origin. **Experientia** 46: 467-468.
- Hallman M., Merritt T. A., Akino T., Strayer D. & Arjomaa P. Is it possible to enhance the therapeutic effect of exogenous natural surfactant. **Prog. Respir. Res. Basel. Karger.** 25: 256-264.
- Shannon J. M., Emrie P. A., Fisher J. H., Kuroki Y., Jennings S. D. & Mason R. J. Effect of a reconstituted basement membrane on expression of surfactant apoproteins in cultured adult rat alveolar type II cells. **Am. J. Respir. Cell Mol. Biol.** 2: 183-192.
- Watanabe H., Tanaka S., Akino T. & Hasegawa-Sasaki H. Evidence for coupling of different receptors for gonadotropin-releasing hormone to phospholipases C and A₂ in cultured rat luteal cells. **Biochem. Biophys. Res. Commun.** 168: 328-334.
- Horiuchi T., Mason R. J., Kuroki Y. & Cherniack R. M. Surface and tissue forces, surfactant protein A, and the phospholipid components of pulmonary surfactant in bleomycin-induced pulmonary fibrosis in the rat. **Am. Rev. Respir. Dis.** 141: 1006-1013.
- Ohguro H., Fukada Y., Yoshizawa T., Saito T. & Akino T. A specific bg-subunit of transducin stimulates ADP-ribosylation of the a-subunit by pertussis toxin. **Biochem. Biophys. Res. Commun.** 167: 1235-1241.
- Ohguro H., Fukada Y., Saito T. & Akino T. Functional heterogeneity of bg-subunit of frog transducin. **Comp. Biochem. Physiol.** 95: 763-765.
- Fukada Y., Yoshizawa T., Saito T., Ohguro H. & Akino T. Binding of GTP to transducin is not inhibited by arrestin and phosphorylated rhodopsin. **FEBS Lett.** 261: 419-422.
- Hayashi H., Adachi H., Kataoka K., Sato H. & Akino T. Molecular species profiles of acidic phospholipids in lung fractions of adult and perinatal rabbits. **Biochim. Biophys. Acta** 1042: 126-131.
- Kawada H., Horiuchi T., Shannon J. M., Kuroki Y., Voelker D. R. & Mason R. J. Alveolar type II cells, surfactant protein A (SP-A), and the phospholipid components of surfactant in acute silicosis in the rat. **Am. Rev. Respir. Dis.** 140: 460-470.