

## CURRICULUM VITAE

**NAME** : BENDAYAN, Moïse  
**POSITION** : Full Professor  
Department of Pathology and Cell Biology,  
Faculty of Medicine,  
Université de Montréal

**STATUS** : Canadian

### **EDUCATION**

- Baccalauréat, Sciences, Université de Bordeaux, 1968
- B.Sc. Biology, Université de Montréal, 1972
- M.Sc. Clinical Sciences, Université de Montréal, 1974
- Ph.D. Anatomy, Université de Montréal, 1976

### **ADDITIONAL TRAINING**

- Post-doctoral training:  
Institut d'Histologie et d'Embryologie, Department of Morphology, Université de Genève, 1976-1979
- Institut de Recherches Scientifiques sur le Cancer, Villejuif, 1981, 1982
- Sabbatical, Department of Pathology, The Hebrew University, Jerusalem, Israel 1987
- Sabbatical, Diabetes Center, Hadassah Medical School, Jerusalem, Israel, 2006

### **PROFESSIONAL CAREER**

- 1972-1976 **Instructor** in Histology, Department of Anatomy, Université de Montréal,
- 1976-1979 **Instructor** in Histology, Department of Anatomy, Université de Genève,
- 1979-1983 **Assistant Professor** in Research, Department of Anatomy, Université de Montréal,
- 1983-1985 **Associate Professor** in Research, Department of Anatomy, Université de Montréal,
- 1985-1988 **Associate Professor**, Department of Anatomy, Université de Montréal,
- 1988-1997 **Full Professor**, Department of Anatomy, Université de Montréal,
- 1990-1997 **Chairman**, Department of Anatomy, Université de Montréal,
- 1997- present **Full Professor**, Department of Pathology and Cell Biology Université de Montréal

### **TEACHING**

- Cell biology (14 hrs/year), first year medicine
- Cell biology (10 hrs/year) first-second year medicine
- Cell biology (10 hrs/year) School of Pharmacy
- Cell Biology ( 8 hrs/year) Bio-Engineering
- Advance Cell Biology (15hrs/year) third year biomed
- Techniques in microscopy (12 hrs/year) post-graduate course
- Techniques in microscopy (60 hrs lab/year) post-grad course
- Techniques in electron microscopy (3 hrs), post-graduate course, 1982
- Lectures in Histology (Endocrinology) (4 hrs)
- Lectures in Histology (15 hrs/year)
- Advanced course on colloidal gold cytochemistry (30 hrs)
- Cell biology, graduate courses (10hrs/year)
- Gastroenterology, graduate course (3hrs/year)

### **RESEARCH INTERESTS**

- Electron microscopy and cytochemistry
- Protein secretion
- Pancreatic function in diabetes
- Diabetic microangiopathy & vascular permeability
- Diabetic nephropathy
- Intestinal absorption
- Gasto-Entero-Pancreatic Axis

### **PERSONAL GRANTS**

- MRC Studentship                      1972-1975
- MRC Fellowship                      1976-1977
- MRC Scholarship                      1979-1984
- FRSQ Senior Scholarship            1984-1987
- MRC Scientist                        1985-1990
- Awards from the Ministère des Affaires Intergouvernementales du Québec  
"Echanges France-Québec" with the Institut de Recherches Scientifiques sur le  
Cancer, Villejuif (France), Prof. E. Puvion 1981-1988 ;  
Echanges INSERM-FRSQ, with the INSERM, Unit 55, Hôpital Saint-Antoine, Paris,  
Prof. G. Rosselin, 1995-1997 ;  
Echanges INSERM-FRSQ, with the INSERM, Unit 559, Université de Marseilles, France Dr  
D. Lombardo. 2000-2003
- The Lady Davis Visiting Professorship, Jerusalem, Israel, 1987-1988

## **RESEARCH GRANTS**

- Medical Research Council & CIHR operating grants :MT-7284, (1980-2005) MT-9702, (1986-2006) and 2008-2011
- Medical Research Council, major equipment grants 1980, 1984, 1985, 1986 and 1987
- Maintenance Grant, 1989-2008
- Medical Research Council - Carl Zeiss Canada, major equipment grant 1990
- Conseil de RS Q, établissement de jeunes chercheurs, 1980-1982
- CAFIR (Université de Montréal), 1979-1980, 1984-1985, 1986-1987
- Canadian Diabetes Association, operating grant 1982-1987
- Canadian Heart Foundation, operating grant 1990-1993
- R & D Université de Montréal, 1992 & 1993
- Quebec Diabetes Association, 1993-1994, 2000-2010
- Major equipment grants Canadian Foundation for Innovation, group grants 2000, 2006.
- NIH, group operating grant 2001-2009
- Juvenile Diabetes Foundation operating grant 2001-2004

## **AWARDS**

- Murray L. Barr Junior Scientist Award from the Canadian Society of Anatomy, 1982
- Vector Young Investigator Award from the American Society of Histochemistry, 1983
- Robert Feulgen Award from the Gesellschaft für Histochemie, 1984
- Cited in the Seventeenth Edition of "American Men & Women of Science" 1989 for outstanding achievement
- Award for Excellence in Research from the Quebec Diabetes Association, 1993
- Certificat d'appréciation Fonds de la Recherche en Santé du Québec, 2004
- Prix pour l'enseignement; étudiants de Pré-Med, Faculté de Médecine 2004
- Premio Venezia, Chambre de Commerce Italienne du Canada (Collaboration scientifique, Université de Siena), 2008.

## **SABBATICALS, VISITING PROFESSORS, POST-DOCTORAL FELLOWS, GRADUATE STUDENTS AND RESEARCH TRAINEES**

- 12 visiting professors on sabbatical
- 35 visiting professors
- 22 Post-doctoral Fellows
- 25 Graduate students (5 Ph.D. ; 20 M.Sc.)
- 35 Research trainees

**PUBLICATIONS** : 263 (excluding abstracts) see list below under Publications

**ABSTRACTS** : 290 see list below under Publications

## **ACTIVITIES (outside the University of Montreal)**

- Member of the MRC, Pathology/Morphology Committee, 1983-86, 1990-92
- Member of the MRC, site visit committee, 1986, 1988, 1992 & 1993
- Member of the ICERS 2001-2004

- Member of the MRC, Major equipment Committee, 1999-2005
- Member of the FRSQ, Scholarship committees, Junior researchers 1988-1991, Chairman of the Committee 1990-1991; Senior researchers 2002-2004
- Member of the FCAR, 1989
- Member of several MRC Site visits
- Member of the ADQ 2004-2009
- Member of the Editorial Board of The Journal of Histochemistry and Cytochemistry (1984- ), Associate Editor since 1995.
- Member of the Editorial Board of The Journal of Electron Microscopy Technique becoming Microscopy, Research and Techniques (1984- )
- Member of the Editorial Board of The Histochemical Journal (1983- )
- Member of the Editorial Board of the Int. J. Pancreatology (1991-1996)
- Editor of Progress Histochem. Cytochem. (1993- )
- Member of the Editorial Board of Cell Vision Journal of Analytical Morphology (1994-1999)
- Member of the Editorial Board of Applied Immunohistochemistry and Molecular Morphology (1999- )

### **VISITING PROFESSOR**

- Medical Research Council Visiting Professor to the Faculty of Medicine, University of Western Ontario, London, Ontario, March 1984
- Visiting Professor (advanced course in cytochemistry) to The Weizmann Institute of Science,
- Visiting Professor (advanced course in cytochemistry) to The Royal Postgraduate Medical School, University of London, London, England, March 1986
- Visiting Professor (advanced course in cytochemistry) to The Michigan State University, Michigan, January 1987
- Lady Davis Visiting Professor to The Hadassah Medical School The Hebrew University, Jerusalem, Israel, 1st October-31st December 1987
- Visiting Professor (advanced course in cytochemistry) to the University of Minnesota, Dept. of Genetics and Cell Biology, Minnesota, April 1988
- Visiting Professor (advanced course in cytochemistry) to the University of Illinois, Center of Electron Microscopy, Illinois, April 1990
- Medical Research Council Visiting Professor to the Faculty of Medicine, Queen's University, Kingston, Ontario, March 1993
- INSERM-FRSQ Visiting Professor (INSERM, U.55, Hôpital Saint-Antoine, Université de Paris VI, Paris) January 1996
- The Hebrew University, Jerusalem, Israel, 2006
- Diabetes Center, Hadassah Medical School, Jerusalem, Israel, 2008
- Università Degli Studi Di Siena, Siena, Italy, 2008

### **PUBLICATIONS**

#### **Peer reviewed articles**

**BENDAYAN, M., SANDBORN, E. and E. RASIO.** The capillary endothelium in the rete mirabile of the swimbladder of the eel (*Anguilla anguilla*): Functional and ultrastructural aspects. *Can. J. Physiol. Pharmacol.* 52, 613-623, 1974.

**BENDAYAN, M., SANDBORN, E. and E. RASIO.** Studies on capillary basal lamina. I. Ultrastructural of the rete mirabile of the eel swimbladder.

Lab. Invest., 32, 757-767, 1975.

**BENDAYAN, M.**, SANDBORN, E. and E. RASIO. Studies on capillary basal lamina. II. Preparation, chemical composition and metabolic properties. Lab. Invest., 32, 768-772, 1975.

RASIO, E., **BENDAYAN, M.** and C.A. GORESKY. Diffusion permeability of an isolated rete mirabile. Circ. Res., 41, 807-813, 1977.

RASIO, E. and **M. BENDAYAN**. Le métabolisme du tissu capillaire et ses anomalies au cours du diabète. Diabète et Métabolisme, 4, 57-62, 1978.

ROTH, J., **BENDAYAN, M.** and L. ORCI. Ultrastructural localization of intracellular antigens by the use of protein A-gold complex. J. Histochem. Cytochem., 26, 1074-1081, 1978.

**BENDAYAN, M.** and S. ITO. Immunohistochemical localization of exocrine enzymes in normal rat pancreas. J. Histochem. Cytochem., 27, 1029-1034, 1979.

ROTH, J., **BENDAYAN, M.** and L. ORCI. Protein A-gold complex for post-embedding staining of intracellular antigens. Acta Histochem., Suppl. 22, 269-273, 1980.

ROTH, J., **BENDAYAN, M.** and L. ORCI. FITC-Protein A-gold complex for light and electron microscopic immunocytochemistry. J. Histochem. Cytochem., 28, 55-57, 1980.

**BENDAYAN, M.**, ROTH, J., PERRELET, A. and L. ORCI. Quantitative immunocytochemical localization of exocrine pancreatic enzymes in subcellular compartments of the rat acinar cell. J. Histochem. Cytochem., 28, 149-160, 1980.

**BENDAYAN, M.** Use of the protein A-gold technique for the morphological study of vascular permeability. J. Histochem. Cytochem., 28, 1251-1254, 1980.

ROTH, J., RAVAZZOLA, M., **BENDAYAN, M.** and L. ORCI. Application of the protein A-gold technique for electron microscopic demonstration of polypeptide hormones. Endocrinology, 108, 247-253, 1981.

**BENDAYAN, M.** Ultrastructural localization of nuclei acids by the use of enzyme-gold complexes. J. Histochem. Cytochem., 29, 531-541, 1981.

**BENDAYAN, M.** and E. RASIO. Hyperglycemia and microangiopathy in the eel. Diabetes, 30, 317-325, 1981.

**BENDAYAN, M.** The protein A-gold technique: A new approach for qualitative and quantitative immunocytochemistry. Proc. Micros. Soc. Can., 8, 24-29, 1981.

ROTH, J., **BENDAYAN, M.**, CARLEMALM, E., VILLIGER, W. and M. GARAVITO. The enhancement of structural preservation and immunocytochemical staining in low temperature embedded pancreatic tissue. J. Histochem. Cytochem., 29, 663-671, 1981.

**BENDAYAN, M.** Electron-microscopic localization of nucleic acids by means of nuclease-gold complexes. Histochem. J., 13, 699-710, 1981.

RASIO, E., **BENDAYAN, M.** and C. GORESKY. The effect of hyperosmolality on the permeability and structure of the capillaries of the isolated rete mirabile of the eel. Circ. Res., 49, 661-676, 1981.

SHORE, G.C., POWER, F., **BENDAYAN, M.** and P. CARIGNAN. Biogenesis of a 35-kilodalton protein associated with outer-mitochondrial membrane in rat liver. J. Biol. Chem., 256, 8761-8766, 1981.

**BENDAYAN, M.** Ultrastructural localization of actin in insulin-containing granules. Biol. Cell, 41, 157-160, 1981.

**BENDAYAN, M.** and T.B. ORSTAVIK. Immunocytochemical localization of kallikrein in the rat exocrine pancreas. *J. Histochem. Cytochem.*, 30, 58-66, 1982.

**BENDAYAN, M.** Double immunocytochemical labeling applying the protein A-gold technique. *J. Histochem. Cytochem.*, 30, 81-85, 1982.

**BENDAYAN, M.** and G.C. SHORE. Immunocytochemical localization of mitochondrial proteins in the rat hepatocyte. *J. Histochem. Cytochem.*, 30, 139-147, 1982.

**BENDAYAN, M.** Contacts between endocrine and exocrine cells in the pancreas. *Cell Tiss. Res.*, 222, 227-230, 1982.

**BENDAYAN, M.** Ultrastructural localization of nucleic acids by the use of enzyme-gold complexes: Influence of fixation and embedding. *Biol. Cell*, 43, 153-156, 1982.

REDDY, J.K., **BENDAYAN, M.** and M.J. REDDY. Immunocytochemical localization of catalase, heat-labile enoyl-CoA hydratase and polypeptide PPA-80 in rat liver. *Ann. N. Y. Acad. Sci.*, 386, 495-498, 1982.

**BENDAYAN, M.**, ITO, S. and I. MANOCCHIO. Alterations of exocrine pancreatic enzymes in virus-induced diabetic cattle as revealed by immunohistochemistry. *Diabetologia*, 23, 65-68, 1982.

**BENDAYAN, M.** and J.K. REDDY. Immunocytochemical localization of catalase and heat-labile enoyl CoA hydratase in the livers of normal and peroxisome proliferator-treated rats. *Lab. Invest.*, 47, 364-369, 1982.

**BENDAYAN, M.**, MARCEAU, N., BEAUDOIN, A.R. and J.M. TRIFARO. Immunocytochemical localization of actin in the pancreatic exocrine cell. *J. Histochem. Cytochem.*, 30, 1075-1078, 1982.

GARZON, S., **BENDAYAN, M.** and E. KURSTAK. Ultrastructural localization of viral antigens using the protein A-gold technique. *J. Virol. Methods*, 5, 67-73, 1982.

PAIEMENT, J. and **M. BENDAYAN.** Association of RNA with chromatin granules in incubated rat liver nuclei. *J. Ultrastruct. Res.*, 81, 145-147, 1982.

STEPHENS, H., **BENDAYAN, M.** and M. SILVER. Immunocytochemical localization of collagen types and laminin in skeletal muscle with the protein A-gold technique. *Biol. Cell*, 44, 81-84, 1982.

**BENDAYAN, M.** Protein A-gold and enzyme-gold: Two novel affinity techniques for the ultrastructural localization of macromolecules. *Proceedings 10th Intern. Congress Elect. Microsc.*, 427-439, 1982.

**BENDAYAN, M.** Ultrastructural localization of actin in muscle, epithelial and secretory cells by applying the protein A-gold immunocytochemical technique. *Histochem. J.*, 15, 39-58, 1983.

**BENDAYAN, M.** and M. ZOLLINGER. Ultrastructural localization of antigenic sites on osmium-fixed tissues applying the protein A-gold technique. *J. Histochem. Cytochem.*, 31, 101-109, 1983.

**BENDAYAN, M.**, REDDY, M.K., HASHIMOTO, T. and J.K. REDDY. Immunocytochemical localization of fatty-acid metabolizing heat-stable and heat-labile enoyl CoA hydratases in liver and renal cortex. *J. Histochem. Cytochem.*, 31, 509-516, 1983.

BECICH, M.J., **BENDAYAN, M.** and J.K. REDDY. Intracellular transport and storage of secretory proteins in relation to cytodifferentiation in neoplastic pancreatic acinar cells. *J. Cell Biol.*, 96, 949-960, 1983.

**BENDAYAN, M.** and E. PUVION. Ultrastructural detection of RNA: Complementarity of high resolution autoradiography and RNAase-gold method. *J. Ultrastruct. Res.*, 83, 274-283, 1983.

PLOTON, D., **BENDAYAN, M.** and J.J. ADNET. Ultrastructural localization of Ag-NOR proteins and nucleic acids in thread-like structured nucleoli. *Biol. Cell*, 49, 29-34, 1983.

**BENDAYAN, M.** Concentration of amylase along its secretory pathway in the pancreatic acinar cell as revealed by high resolution immunocytochemistry. *Histochem. J.*, 16, 85-108, 1984.

HERBENER, G.H., **BENDAYAN, M.** and R.C. FELDHOFF. The intracellular pathway of vitellogenin secretion in the frog hepatocyte as revealed by protein A-gold immunocytochemistry. *J. Histochem. Cytochem.*, 32, 697-704, 1984.

**BENDAYAN, M.**, BECICH, M.J. and J.K. REDDY. Immunocytochemical localization of exocrine enzymes in rat pancreatic acinar carcinoma. *Eur. J. Cell Biol.*, 34, 151-158, 1984.

**BENDAYAN, M.** Protein A-gold electron microscopic immunocytochemistry: methods, applications and limitations. *J. Elect. Microsc. Tech.*, 1, 243-270, 1984.

**BENDAYAN, M.** Enzyme gold electron microscopic cytochemistry: a new affinity approach for the ultrastructural localization of macromolecules. *J. Elect. Microsc. Tech.*, 1, 349-372, 1984.

**BENDAYAN, M.** and E. PUVION. Ultrastructural localization of nucleic acids through several cytochemical techniques on osmium-fixed tissues: comparative evaluation of the different labelings. *J. Histochem. Cytochem.*, 32, 1185-1191, 1984.

**BENDAYAN, M.** and N.D. MAESTRACCI. Pituitary adenomas: patterns of hPRL and hGH secretion as revealed by high resolution immunocytochemistry. *Biol. Cell*, 52, 129-138, 1984.

NANCI, A., **BENDAYAN, M.**, BRINGAS, P. and H.C. SLAVKIN. High resolution immunocytochemical localization of enamel proteins in mouse ameloblasts in situ and in culture. Tooth morphogenesis and differentiation. *Les colloques de l'INSERM*, 125, 333-340, 1984.

BARQUE, J.P., LAGAYE, S., **BENDAYAN, M.**, PUVION-DUTILLEUL, F., DANON, F. and C.J. LARSEN. PSL, an S phase-related p<sup>55</sup> nuclear antigen, associates transiently with chromatin. *Exptl. Cell Res.*, 157, 8-14, 1985.

**BENDAYAN, M.** Morphometrical and immunocytochemical characterization of peri-insular and tele-insular acinar cells in the rat pancreas. *Eur. J. Cell Biol.*, 36, 263-268, 1985.

**BENDAYAN, M.** Ultrastructural localization of cytoskeletal proteins in pancreatic secretory cell. *Canad. J. Biochem. Cell Biol.*, 63, 680-690, 1985.

**BENDAYAN, M.**, BRUNEAU, A. and J. MORISSET. Morphometrical immuno-cytochemical and biochemical studies of rat pancreatic acinar cells under control and experimental conditions. *Biol. Cell*, 54, 227-234, 1985.

NANCI, A., **BENDAYAN, M.** and H.C. SLAVKIN. Enamel protein biosynthesis and secretion in mouse incisor secretory ameloblasts as revealed by high resolution immunocytochemistry. *J. Histochem. Cytochem.*, 33, 1153-1160, 1985.

**BENDAYAN, M.** Alteration in the distribution of type IV collagen in glomerular basal laminae in diabetic rats as revealed by immunocytochemical and morphometrical approach. *Diabetologia*, 28, 373-378, 1985.

STEPHENS, H., **BENDAYAN, M.** and V. GISIGER. Simultaneous labelling of basal laminae components and acetylcholinesterase at the neuromuscular junction. *Histochem. J.*, 17, 1203-1220, 1985.

HERBENER, G.H., **BENDAYAN, M.** and R.C. FELDHOFF. Immunocytochemical localization of a non-vitellogenin, estrogen-induced plasma protein in the hepatocyte of the American bullfrog *Rana Catesbeiana*. *Eur. J. Cell Biol.*,

39, 142-146, 1985.

RYALL, J., NGUYEN, M., **BENDAYAN, M.** and G.C. SHORE. Expression of nuclear genes encoding the mitochondrial enzymes, Carbamyl phosphate synthetase I and Ornithine carbamyl transferase, in rat liver and intestinal mucosa. Eur. J. Biochem., 152, 287-292, 1985.

HERBENER, G.H., NANCI, A. and **M. BENDAYAN.** The application of protein A-gold immunocytochemistry to studies of protein secretion. Proc. 43<sup>rd</sup> Ann. Meeting Elect. Microsc. Soc. Amer., pp. 426-429, 1985.

**BENDAYAN, M.** A review on colloidal gold post-embedding cytochemical technique. Proc. 43<sup>rd</sup> Ann. Meeting Elect. Microsc. Soc. Amer., pp. 422-425, 1985.

**BENDAYAN, M.** Colloidal gold post-embedding cytochemical techniques: a review. Proc. 1<sup>st</sup> Janssen Life Sciences Symposium: Gold probes in biological and biomedical research, pp. 1-31, 1985.

RAO, M.S., **BENDAYAN, M.**, KIMBROUGH, R.D. and J.K. REDDY. Characterization of pancreatic-type tissue in the liver of rat. J. Histochem. Cytochem., 34, 197-201, 1986.

**BENDAYAN, M.** and M.A. DUHR\*. Modification of the protein A-gold immunocytochemical technique for the enhancement of its efficiency. J. Histochem. Cytochem., 34, 569-575, 1986.

**BENDAYAN, M.**, NANCI, A., HERBENER, G.H., GRÉGOIRE\*, S. and M.A. DUHR\*. A review on the study of protein secretion applying the protein A-gold immunocytochemical approach. Amer. J. Anat., 175, 379-400, 1986.

HERBENER, G.H., **BENDAYAN, M.** and R.C. FELDHOFF. Albumin localization in the frog hepatocyte during vitellogenesis as revealed by protein A-gold immunocytochemistry. J. Histochem. Cytochem., 34, 665-671, 1986.

**BENDAYAN, M.** Facts and artefacts in colloidal gold post-embedding cytochemistry. Proc. 44<sup>th</sup> Ann. Meeting Elect. Microsc. Soc. Amer., pp. 44-47, 1986.

**BENDAYAN, M.**, DUHR\*, M.A. and D. GINGRAS\*. Studies on pancreatic acinar cells in tissue culture: basal laminae (basement membrane) matrix promotes three-dimensional reorganization. Eur. J. Cell Biol., 42, 60-67, 1986.

GRÉGOIRE\*, S. and **M. BENDAYAN.** Immunocytochemical studies of pancreatic acinar cells in normal and streptozotocin-induced diabetic rats. Diabetologia, 29, 655-660, 1986.

**BENDAYAN, M.** GINGRAS\*, D. and P. CHAREST\*. Distribution of endogenous albumin in the glomerular wall of streptozotocin-induced diabetic rats as revealed by high resolution immunocytochemistry. Diabetologia, 29, 868-875, 1986.

GRÉGOIRE\*, S. and **M. BENDAYAN.** Immunocytochemical studies of pancreatic acinar cells in spontaneously diabetic BB rats. Pancreas, 2, 205-211, 1987.

DESJARDINS\*, M., GINGRAS, D. and **M. BENDAYAN.** Immunocytochemical studies of glomerular permeability in long term diabetics. Proc. Microsc. Soc. Canada, 14, 19-21, 1987.

**BENDAYAN, M.** and S. GRÉGOIRE\*. Immunohisto and cytochemical studies of pancreatic enzymes in peri-insular and tele-insular acinar cells of streptozotocin-induced diabetic rats. Pancreas, 2, 272-282, 1987.

**BENDAYAN, M.** Presence of endocrine cells in the wall of pancreatic ducts. Pancreas, 2, 393-397, 1987.

**BENDAYAN, M.** Introduction of the protein G-gold complex for high resolution immunocytochemistry. J. Elect. Microsc. Tech., 6, 7-13, 1987.



- BENDAYAN, M.**, NANJI, A. and F.W.K. KAN. Effect of tissue processing on colloidal gold cytochemistry. *J. Histochem. Cytochem.*, 35, 983-996, 1987
- LEVY, E., MARCEL, Y., DECKELBAUM, R., MILNE, R., LEPAGE, G., SEIDMAN, E., **BENDAYAN, M.** and C.C. ROY. Intestinal Apo B synthesis, lipids, and lipoproteins in chylomicron retention disease. *J. Lipid Res.*, 28, 1263-1274, 1987.
- BENDAYAN, M.** and N. BENHAMOU. Ultrastructural localization of glucoside residues on tissue sections by applying the enzyme-gold approach. *J. Histochem. Cytochem.*, 35, 1149-1155, 1987.
- LONDOÑO\*, I. and **M. BENDAYAN**. Ultrastructural localization of mannoside residues on tissue sections: Comparative evaluation of the enzyme-gold and the lectin-gold approaches. *Eur. J. Cell Biol.* 45, 88-96, 1987.
- POWERS-LEE, S.G., MASTICO, R.A. and **M. BENDAYAN**. The interaction of rat liver carbamoyl phosphate synthetase and ornithine transcarbamoylase with inner mitochondrial membranes. *J. Biol. Chem.* 262, 15683-15688, 1987.
- LEVY, E., THIBAUT, L.A., ROY, C.C., **BENDAYAN, M.**, LEPAGE G. and J. LETARTE. Circulating lipids and lipoprotein in glycogen storage disease type I with nocturnal intragastric feeding. *J. Lipid Res.*, 29, 215-226, 1988.
- BENDAYAN, M.** and S. GARZON. Protein G-gold complex: Comparative evaluation with the protein A-gold for high resolution immuno-cytochemistry. *J. Histochem. Cytochem.*, 36, 597-607, 1988.
- LONDOÑO\*, I. and **M. BENDAYAN**. High resolution cytochemistry of neuraminic and hexuronic acid-containing macromolecules applying the enzyme-gold approach. *J. Histochem. Cytochem.*, 36, 1005-1014, 1988.
- BENDAYAN, M.** and E. LEVY. Immunocytochemical and biochemical evaluation of pancreatic lipase in acinar cells of control and streptozotocin-induced diabetic rats. *Pancreas*, 3, 269-273, 1988.
- HERBENER, G.H. and **M. BENDAYAN**. A correlated morphometric and cytochemical study of hepatocyte nucleolar size and RNA distribution during vitellogenesis. *Histochem. J.*, 20, 194-200, 1988.
- COULOMBE\*, P.A., KAN, F.W.K. and **M. BENDAYAN**. Introduction of a high-resolution cytochemical method for studying the distribution of phospholipids in biological tissues. *Eur. J. Cell Biol.*, 46, 564-576, 1988.
- STROMER, M.H. and **M. BENDAYAN**. Arrangement of desmin intermediate filaments in smooth muscle cells as shown by high resolution immunocytochemistry. *Cell Motil. Cytosk.*, 11, 117-125, 1988.
- LEVY, E., ROY, C.C., LEPAGE, G. and **M. BENDAYAN**. Lipid abnormalities in pancreatic tissue of streptozotocin-induced diabetic rats. *Lipids*, 23, 771-779, 1988.
- DESJARDINS\*, M. and **M. BENDAYAN**. Ultrastructural distribution of endogenous IgGs in the glomerular wall of control and diabetic rats. *Histochem. J.*, 21, 731-742, 1989.
- RASIO, E., **BENDAYAN, M.** and C.A. GORESKY. Effect of reduced energy metabolism and reperfusion on the permeability and morphology of the capillaries of an isolated rete mirabile. *Circ. Res.*, 64, 243-254, 1989.
- BENDAYAN, M.** Ultrastructural localization of insulin and C-peptide antigenic sites in rat pancreatic B-cell applying the quantitative high resolution protein A-gold approach. *Amer. J. Anat.*, 185, 205-216, 1989.
- COULOMBE\*, P.A. and **M. BENDAYAN**. Cytochemical demonstration of an increased phospholipid content in cell membranes in chlorphentermine-induced phospholipidosis. *J. Histochem. Cytochem.*, 37, 139-147, 1989.

COULOMBE\*, P.A. and **M. BENDAYAN**. Heterogeneous distribution of phospholipids in membranes along the secretory pathway in pancreatic B-cells. *Biol. Cell*, 65, 83-86, 1989.

**BENDAYAN, M.**, BARTH, R.F., GINGRAS\*, D., LONDOÑO\*, I., ROBINSON, P.T., ALAM, F., ADAMS, D.M. and L. MATTIAZZI. Electron spectroscopy imaging for high resolution immunocytochemistry: Use of boronated protein A. *J. Histochem. Cytochem.*, 37, 573-580, 1989.

DESJARDINS\*, M. and **M. BENDAYAN**. Heterogeneous distribution of type IV collagen, entactin, heparan sulfate proteoglycan and laminin among renal basement membranes as demonstrated by quantitative immunocytochemistry. *J. Histochem. Cytochem.*, 37, 885-897, 1989.

RASIO, E.A., **BENDAYAN, M.**, GORESKEY, C.A., ALEXANDER, J.S. and D. SHEPRO. Effect of phalloidin on structure and permeability of rete capillaries in the normal and hypoxic state. *Circ. Res.*, 65, 591-599, 1989.

KAN, F.W.K. and **M. BENDAYAN**. Topographical and planar distribution of Helix pomatia lectin-binding glycoconjugates in secretory granules and plasma membrane of pancreatic exocrine acinar cells as revealed by thin section and fracture-label cytochemistry: Demonstration of membrane heterogeneity. *Amer. J. Anat.*, 185, 165-176, 1989.

LEVY, E., LEPAGE, G., **BENDAYAN, M.**, RONCO, N., THIBAUT, L., GALEANO, N., SMITH, L and C.C. ROY. Relationship of decreased hepatic lipase activity and lipoprotein abnormalities to essential fatty acid deficiency in cystic fibrosis patients. *J. Lipid Res.*, 30, 1197-1210, 1989.

COULOMBE\*, P.A. and **M. BENDAYAN**. Lung surfactant-associated protein and type IV collagen share common epitopes: An immunocytochemical demonstration. *Amer. Rev. Resp. Dis.*, 140, 1040-1044, 1989.

**BENDAYAN, M.** and D. GINGRAS\*. Effect of vanadate administration on blood glucose and insulin levels as well as on the exocrine pancreatic function in streptozotocin-diabetic rats. *Diabetologia*, 32, 561-567, 1989.

LONDOÑO\*, I. and **M. BENDAYAN**. Distribution of endogenous albumin across the rat aortic wall as revealed by quantitative immunocytochemistry. *Amer. J. Anat.*, 186, 407-416, 1989.

LONDOÑO\*, I., COULOMBE\*, P.A. and **M. BENDAYAN**. Brief review on progresses in enzyme-gold cytochemistry. *Scanning Microsc.*, Suppl. 3, 7-14, 1989.

KURIAKOSE, N.R., REIFEL, C.W., **BENDAYAN, M.**, ELCE, J.S. and S.H. SHIN. Prolactin crinophagy is induced in the estrogen-stimulated male rat pituitary. *Histochemistry*, 92, 499-503, 1989.

LEVY, E., ROCHETTE\*, C., LONDOÑO\*, I., ROY, C.C., MILNE, R.W., MARCEL, Y.L. and **M. BENDAYAN**. Apolipoprotein B-100: Immunolocalization and synthesis in human intestinal mucosa. *J. Lipid Res.*, 31, 1937-1946, 1990.

DESJARDINS\*, M. and **M. BENDAYAN**. Ultrastructural distribution of glomerular basement membrane components in experimental diabetes. *Diabetes Res.* 14, 65-73, 1990.

CHENICLET, C. and **M. BENDAYAN**. Comparative pyrimidine and purine-specific RNase-gold labeling on pancreatic acinar cells and isolated hepatocytes. *J. Histochem. Cytochem.*, 38, 551-562, 1990.

**BENDAYAN, M.**, BENHAMOU, N. and M. DESJARDINS\*. Ultrastructural distribution of lectin-binding sites in the glomerular wall of streptozotocin-induced diabetic rats. *J. Submicrosc. Cytol. Pathol.*, 22, 173-184, 1990.

**BENDAYAN, M.**, ZIV, E., BEN-SASSON, R., BAR-ON, H. and M. KIDRON. Morphocytochemical and biochemical evidence for insulin absorption by the rat ileal epithelium. *Diabetologia*, 33, 197-204, 1990.

LONDOÑO\*, I. and **M. BENDAYAN**. Quantitative immuno-cytochemical studies of

endogenous albumin in rat aortic endothelial and mesothelial cells. Biol. Cell, 69, 161-169, 1990.

**BENDAYAN, M.** Anatomic basis of islet-acinar interaction in the pancreas. Reg. Pept. Let. 11, 1-7, 1990.

DESJARDINS\*, M., GROS, F., WIESLANDER, J., GUBLER, M.C. and **M. BENDAYAN.** Heterogeneous distribution of monomeric elements from the globular domain (NC1) of type IV collagen in renal basement membranes as revealed by high resolution quantitative immuno-cytochemistry. Lab. Invest., 63, 637-646, 1990.

DESJARDINS\*, M., GROS, F., WIESLANDER, J., GUBLER, M.C. and **M. BENDAYAN.** Immunogold studies of monomeric elements from the globular domain (NC1) of type IV collagen in renal basement membranes during experimental diabetes. Diabetologia, 33, 661-670, 1990.

GHITESCU\*, L. and **M. BENDAYAN.** Immunolabeling efficiency of protein A-gold complexes. J. Histochem. Cytochem., 38, 1523-1530, 1990.

STROMER, M.H. and **M. BENDAYAN.** Immunocytochemical identification of cytoskeletal linkages to smooth muscle cell nuclei and mitochondria. Cell Mot. Cytoskel., 17, 11-18, 1990.

RUSSO, P.A. and **M. BENDAYAN.** Distribution of endogenous albumin in the glomerular wall of proteinuric patients. Am. J. Pathol., 137, 1481-1490, 1990.

LIVNI, N., **BENDAYAN, M.**, GINGRAS\*, D., ROSENMAN, E. and A.M. COHEN. Immunocytochemical distribution of endogenous albumin and immunoglobulins in the glomerular wall of the sucrose-fed "Cohen" diabetic rat. Diabetes Res., 14, 55-63, 1990.

LEVY, E. and **M. BENDAYAN.** Lipoprotein lipase in experimental diabetic rats. Beneficial effect of vanadate treatment. Diabete & Metabolism, 17, 44-48, 1991.

LACHAPELLE\*, M. and **M. BENDAYAN.** Contractile proteins in podocytes: Immunocytochemical localization of actin and alpha-actinin in normal and nephrotic rat kidneys. Virchows Archiv B Cell Pathol., 60, 105-111, 1991.

DESJARDINS\*, M. and **M. BENDAYAN.** Ontogenesis of glomerular basement membrane : structural and functional properties. J. Cell Biol., 113, 689-700, 1991

**BENDAYAN, M.** and I-S. PARK\*. Presence of extrapancreatic islets of Langerhans in the duodenal wall of the rat. Diabetologia, 34, 604-606, 1991.

ARIAS\*, A.E. and **M. BENDAYAN.** Secretagogue induction of cell differentiation in pancreatic acinar cells in vitro. Exp. Cell Res., 195, 199-206, 1991

GHITESCU\*, L., GALIS, Z. and **M. BENDAYAN.** Protein AG-gold complex : An alternative probe in immunocytochemistry. J. Histochem. Cytochem., 39, 1057-1065, 1991.

**BENDAYAN, M.** and I-S. PARK\*. Existence d'ilots de Langerhans au niveau de la paroi duodenale du rat. Medecine/Sciences, 7, 660-661, 1991.

LEVY, E., TARDIF, J., RUSSO, P., LAVIGNE, F., THIBAUT, L., ST-LOUIS, J., GAROFALO, C., **BENDAYAN, M.**, BOUTHILLIER, D. and D. GARCEAU. Effect of clentiazem on lipid profile, lipoprotein composition and aortic fatty streaks in cholesterol-fed rabbits. Atherosclerosis, 90, 141-148, 1991.

GINGRAS\*, D. and **M. BENDAYAN.** Differences in secretory granules content in pancreatic acinar cells from peri-insular and tele-insular regions. Pancreas, 7, 477-485, 1992.

PARK\*, I-S. and **M. BENDAYAN.** Characterization of the endocrine cells in the pancreatic-bile duct system of the rat. Anat. Rec., 232, 247-256, 1992

- LONDOÑO\*, I., LECLERC, Y. and **M. BENDAYAN**. Ultrastructural localization of endogenous albumin in human aortic tissue by protein A-gold immunocytochemistry. *Am. J. Pathol.*, 140, 179-191, 1992.
- RASIO, E.A., **BENDAYAN, M.** and C.A. GORESKY. Effect of temperature change on the permeability of eel rete capillaries. *Cir. Res.*, 70, 272-284, 1992.
- BENDAYAN, M.** Association of secreted insulin with particular domains of the pancreatic B-cell plasma membrane : The actin-rich microvilli. *J. Histochem. Cytochem.*, 40, 327-331, 1992.
- GHITESCU\*, L. and **M. BENDAYAN**. Transendothelial transport of serum albumin : A quantitative immunocytochemical study. *J. Cell Biol.*, 117, 745-755, 1992.
- LONDOÑO\*, I. and **M. BENDAYAN**. Endothelial protrusions in the rat aortic wall. An immunocytochemical evidence for alternative transendothelial passage of plasma proteins. *Virchow Arch. B. Cell Pathol.*, 61, 419-422, 1992.
- GHITESCU\*, L., DESJARDINS\*, M. and **M. BENDAYAN**. Immunocyto-chemical study of glomerular permeability to anionic, neutral and cationic albumins. *Kidney Int.*, 42, 25-32, 1992.
- GHITESCU\*, L. and **M. BENDAYAN**. Hapten-tagged plasma proteins as immunocytochemical probes for the study of vascular permeability. *Microsc. Res. Techn.*, 22, 392-401, 1992.
- PARK\*, I-S. and **M. BENDAYAN**. Coexistence of glucagon and pancreatic polypeptide in human and rat pancreatic endocrine cells. *Endocr. Pathol.*, 3, 134-143, 1992.
- ZIV , E., **BENDAYAN, M.**, GINGRAS\*, D., BEN-MOSHE, S., BAR-ON, H. and M. KIDRON. Mechanism of insulin absorption by the intestinal mucosa : A morpho-cytochemical and biochemical study. *J. Pharmac. Sciences.* 82, 868-872, 1993.
- RUSSO, P., GINGRAS\*, D. and **M. BENDAYAN**. Poly-l-lysine-gold probe for the detection of anionic sites in normal glomeruli and in idiopathic and experimentally-induced nephrosis. A comparative ultrastructural study. *Am. J. Pathol.*, 142, 261-271, 1993.
- ARIAS\*, A.E., BOLDICKE, T. and **M. BENDAYAN**. Absence of trypsinogen autoactivation and immunolocalization of pancreatic trypsin inhibitor in acinar cells in vitro. *In Vitro Cell. Dev. Biol.*, 29, 221-227, 1993.
- BENDAYAN, M.** Pathway of insulin in pancreatic tissue upon its release by the B-cell. *Am. J. Physiol.*, 264, G187-G194, 1993.
- BENDAYAN, M.** Sécrétion d'insuline : Parcours intracellulaire et cheminement extracellulaire. *Médecine/Sciences*, 9, 563-570, 1993.
- RASIO, E.A., **BENDAYAN, M.** and C.A. GORESKY. Le rete mirabile de l'anguille : Un modèle unique pour l'étude de la perméabilité capillaire. *Médecine/Sciences*, 9, 593-603, 1993.
- MALIDE\*, D., LONDOÑO\*, I., RUSSO, P. and **M. BENDAYAN**. Ultrastructural localization of DNA in immune deposits of human lupus nephritis. *Am. J. Pathol.*, 143, 304-311, 1993.
- ARIAS\*, A.E. and **M. BENDAYAN**. Pancreatic acinar and islet cells in coculture : Selectivity of non-B endocrine cells. *Eur. J. Cell Biol.*, 61, 193-196, 1993.
- PARK\*, I-S. and **M. BENDAYAN**. Development of the endocrine cells in the rat pancreatic and bile duct system. *Histochem. J.*, 25, 807-820, 1993.
- ARIAS\*, A.E. and **M. BENDAYAN**. Differentiation of pancreatic acinar cell into duct like cells in vitro. *Lab. Invest.*, 69, 518-530, 1993.

- ARIAS\*, A.E. and **M. BENDAYAN**. Intracisternal crystals in pancreatic acinar cells : Failure in the distinct aggregation of secretory proteins. *Eur. J. Cell Biol.*, 62, 282-293, 1993.
- PARK\*, I-S. and **M. BENDAYAN**. The endocrine cells in the rat pancreatic and bile duct system: Alteration in diabetes. *Pancreas*, 9, 566-573, 1994.
- BENDAYAN, M.**, ZIV, E., GINGRAS, D., BEN-SASSON, R., BAR-ON, H. and M. KIDRON. Biochemical and morpho-cytochemical evidence for the intestinal absorption of insulin in control and diabetic rats : Effectiveness between duodenal and colon mucosa. *Diabetologia*, 37, 119-126, 1994.
- VELEZ-GRANELL\*, C.S., ARIAS\*, A.E., TORRES-RUIZ, J.A. and **M. BENDAYAN**. Molecular chaperones in pancreatic tissue : presence of cpn10, cpn60 and hsp70 in distinct compartments along the secretory pathway of the acinar cells. *J. Cell Science*, 107, 539-549, 1994.
- GINGRAS\*, D. and **M. BENDAYAN**. Compartmentalization of secretory proteins in pancreatic zymogen granules as revealed by immunolabeling on cryo-fixed and molecular distillation processed tissues. *Biol. Cell*, 81, 153-163, 1994.
- ARIAS\*, A.E., VELEZ-GRANELL\*, C.S., TORRES-RUIZ, J.A. and **M. BENDAYAN**. Involvement of molecular chaperones in the aberrant aggregation of secretory proteins in pancreatic acinar cells. *Exp. Cell Res.*, 215, 1-8, 1994.
- LEVY, E., **BENDAYAN, M.**, THIBAUT, L., LAMBERT, M. and K. PARADIS. Lipoprotein abnormalities in two children with minimal biliary excretion. *J. Pediatr. Gastroenterol. Nutr.*, 20, 432-439, 1995.
- GOMEZ-PASCUAL\*, A., LONDOÑO\*, I., GHITESCU\*, L., DESJARDINS\*, M. and **M. BENDAYAN**. Immunocytochemical investigation of the in vivo endocytosis by renal tubular epithelial cells. *Microsc. Res. Techn.*, 31, 118-127, 1995.
- MALIDE\*, D., SEIDAH, N.G., CHRETIEN, M. and **M. BENDAYAN**. Electron microscopy immunocytochemical evidence for the involvement of the convertases PC1 and PC2 in the processing of proinsulin in pancreatic B-cells. *J. Histochem. Cytochem.*, 43, 11-19, 1995.
- RASIO, E.A., **BENDAYAN, M.**, and C.A. GORESKY. Effects of second messengers on the permeability and morphology of eel rete capillaries. *Cir. Res.*, 76, 566-574, 1995.
- GUGLIUCCI\*, A. and **M. BENDAYAN**. Reaction of advanced glycation endproducts with renal tissue from normal and streptozotocin-induced diabetic rats. An ultrastructural study using colloidal gold cytochemistry. *J. Histochem. Cytochem.*, 43, 591-600, 1995.
- MALIDE\*, D., RUSSO, P. and **M. BENDAYAN**. Presence of tumor necrosis factor alpha and interleukin-6 in renal mesangial cells of lupus nephritis patients. *Human Pathol.*, 26, 558-564, 1995.
- INOUE, S. and **M. BENDAYAN**. High resolution ultrastructural study of the rat glomerular basement membrane in long-term experimental diabetes. *Ultrastruct. Pathol.*, 19, 175-185, 1995.
- BENDAYAN, M.**, MALIDE\*, D., ZIV., E., LEVY, E., BEN-SASSON, R., KALMAN, R., BAR-ON, H., CHRETIEN, M. and N. SEIDAH. Immunocyto-chemical investigation of insulin secretion by pancreatic B-cells in control and diabetic Psammomys obesus. *J. Histochem. Cytochem.*, 43, 771-784, 1995.
- LONDOÑO\*, I., GHITESCU\*, L. and **M. BENDAYAN**. Glomerular handling of glycated albumin in the normal mouse kidney. *Am. J. Physiol.*, 268, F913-F921, 1995.
- VELEZ-GRANELL\*, C.S., ARIAS\*, A.E., TORRES-RUIZ, J.A. and **M. BENDAYAN**. Presence of Chromatium vinosum chaperonins 10 and 60 in mitochondria and peroxisomes of rat hepatocytes. *Biol. Cell*, 85, 67-75, 1995.

- BENDAYAN, M.** Possibilities of false immunocytochemical results generated by the use of monoclonal antibodies : The example of the anti-proinsulin antibody. *J. Histochem. Cytochem.*, 43, 881-886, 1995.
- GINGRAS\*, D. and **M. BENDAYAN.** Colloidal gold electron microscopic in situ hybridization: Combination with immunocytochemistry for the study of insulin and amylase secretion. *Cell Vision J. Anal. Morphol.*, 2, 218-225, 1995.
- GUGLIUCCI\*, A. and **M. BENDAYAN.** Histones from diabetic rats contain increased levels of advanced glycation end products. *Biochem. Biophys. Res. Com.*, 212, 56-62, 1995.
- CAPALA, J., BARTH, R.F., **BENDAYAN, M.**, LAUZON, M., ADAMS, D.A., SOLOWAY, A.H. and J. CARLSSON. Boronated epidermal growth factor as a potential targeting agent for boron neutron capture therapy of brain tumors. *BioConjugate Chem.*, 7, 7-15, 1996.
- BENDAYAN, M.** and I. LONDOÑO\*. Reabsorption of native and glycated albumin by renal proximal tubular epithelial cells. *Am. J. Physiol.*, 271, F261-F268, 1996.
- BENDAYAN, M.** and E.A. RASIO. Transport of insulin and albumin by the microvascular endothelium of the rete mirabile. *J. Cell Science*, 109, 1857-1864, 1996.
- CHEN\*, P., ARIAS\*, A.E., MORISSET, J., CALVO, E., DAGORN, J-C., IOVANNA, J. and **M. BENDAYAN.** Presence of pancreatitis-associated-protein in pancreatic acinar cells of rats treated with chlorophenylalanine methylester. *Pancreas*, 13, 147-153, 1996.
- GUGLIUCCI\*, A. and **M. BENDAYAN.** Renal fate of circulating advanced glycated products: Evidence for reabsorption and catabolism of AGE-peptides by proximal tubular cells. *Diabetologia*, 39, 149-160, 1996.
- LEVY, E., GAROFALO, C., ROULEAU, T., GAVINO, V. and **M. BENDAYAN.** Impact of essential fatty acid deficiency on hepatic sterol metabolism in rats. *Hepatology*, 23, 848-857, 1996.
- INOUE, S. and **M. BENDAYAN.** High resolution ultrastructural study of the rat glomerular basement membrane in aminonucleoside nephrosis. *Ultrastruct. Pathol.* 20, 409-416, 1996.
- LE GALL\*, I. and **M. BENDAYAN.** Possible association of chaperonin 60 with secretory proteins in pancreatic acinar cells. *J. Histochem. Cytochem.*, 44, 743-749, 1996.
- ASTESANO, A., FERRAND, N., **BENDAYAN, M.** and G. ROSSELIN. Subcellular localization of G-protein alpha subunits in adult rat islets. *Ann. NY. Acad. Sci.*, 805, 549-554, 1996.
- SANDBORN, E.B. and **M. BENDAYAN.** The existence of a circulatory system in animal cells. *Cell Vision, J. Anal. Morphol.*, 3, 180-190, 1996.
- DE BIE, I., MARCINKIEWICZ, M., MALIDE, D., LAZURE, C., NAKAYAMA, K., **BENDAYAN, M.**, and N.G. SEIDAH. The isoform of the proprotein convertase PC5 are sorted to different subcellular compartments. *J. Cell Biol.*, 135, 1261-1275, 1996.
- REGOLI\*, M. and **M. BENDAYAN.** Alterations in the expression of  $\alpha 3\beta 1$  integrin in certain membrane domains of the glomerular epithelial cells in diabetes. *Diabetologia*, 40, 15-22, 1997.
- MEHRAN\*, M., LEVY, E., **BENDAYAN, M.** and E. SEIDMAN. Lipid, apolipoprotein and lipoprotein synthesis and secretion during cellular differentiation in Caco-2 cells. *In Vitro, Cell. Devel. Biol.*, 33, 118-128, 1997.
- BENDAYAN, M.** and I.S. PARK\*. Extrapancreatic islets of Langerhans: Ontogenesis and alterations in diabetic conditions. *J. Endocrinology*, 153,

73-40, 1997.

MARSHANSKY, V., BOURGOIN, S., LONDONO, I., **BENDAYAN, M.** and P. VINAY. Identification of ADP-ribosylation factor-6 in brush-border membrane and early endosomes of human kidney proximal tubules. *Electrophoresis*, 18, 538-547, 1997.

**BENDAYAN, M.** and E.A. RASIO. Evidence of a tubular system for transendothelial transport in arterial capillaries of the rete mirabile. *J. Histochem. Cytochem.*, 45, 1365-1378, 1997.

BERTELLI\*, E. and **M. BENDAYAN**. Transdifferentiating pancreatic cells in duct-ligation conditions. *Am. J. Physiol.*, 273, C1641-C1649, 1997.

MAYER\*, G. and **M. BENDAYAN**. Biotinyl tyramide: A novel approach for electron microscopy immunocytochemistry. *J. Histochem. Cytochem.*, 45, 1449-1454, 1997.

MARSHANSKY, V., BOURGOIN, S., LONDONO, I., **BENDAYAN, M.**, MARANDA, B. and P. VINAY. Receptor-mediated endocytosis in kidney proximal tubules: Recent advances and hypothesis. *Electrophoresis*, 18, 2661-2676, 1997.

MIN, B.H., JEONG, S.Y., KANG, S.W., CRABO, B.G., FOSTER, D.N., CHUN, B.G., **BENDAYAN, M.** and I.S. PARK. Transient expression of clusterin (sulfated glycoprotein-2) during development of rat pancreas. *J. Endocrinol.*, 158, 43-52, 1998.

REGOLI\*, M., MAGRO, G., GRASSO, S. and **M. BENDAYAN**. Type VI collagen in glomeruli of short- and long-term experimental diabetic rats. *Histochem. J.*, 30, 13-20. 1998.

**BENDAYAN, M.** Immunocytochemical detection of advanced glycated end products (AGE) in rat renal tissue as a function of age and diabetes. *Kidney Int.*, 54, 438-447, 1998.

BRUNEAU\*, N., LOMBARDO, D. and **M. BENDAYAN**. Participation of GRP-94-related protein in secretion of pancreatic bile salt dependent lipase and in its internalization by the intestinal epithelium. *J. Cell Science*, 111, 2665-2679, 1998.

SIAUVE, N., CUNOD, C.A., CLEMENT, O., RASIO, E., **BENDAYAN, M.** and G. FRIJA. The rete mirabile of the eel: A useful model for the study of transcapillary passage of MRI contrast agents. *J. Mag. Res. Imag.*, 9, 353-361, 1999.

LONDONO, I., MARSHANSKY, V., BOURGOIN, S., VINAY, P. and **M. BENDAYAN**. Expression and distribution of ADP-ribosylation factors in the rat kidney. *Kidney Int.*, 55, 1407-1416, 1999.

ASTESANO, A., REGNAULD, K., FERRAND, N., GINGRAS, D., **BENDAYAN, M.**, ROSSELIN, G. and S. EMAMI. Cellular and sub-cellular expression of Golf/Gs and Gq/G11 $\alpha$  subunits in rat pancreatic endocrine cells. *J. Histochem. Cytochem.*, 47, 289-302, 1999.

MAYER\*, G. and **M. BENDAYAN**. Immunogold signal amplification : Application of the CARD approach to electron microscopy. *J. Histochem. Cytochem.*, 47, 421-430, 1999.

BRUNET, S., THIBAUT, L., DELVIN, E., Yomtov, W., **BENDAYAN, M.** and E. LEVY. Dietary iron overload and induced lipid peroxidation are associated with impaired plasma lipid transport and hepatic sterol metabolism. *Hepatology*, 29, 1809-1817, 1999.

PARK, I.S., CHE, Y.Z., **BENDAYAN, M.**, KANG, S.W. and B.H. MIN. Up-regulation of clusterin (sulfate glycoprotein-2) in pancreatic islet cells upon streptozotocin injection to rats. *J. Endocrinol.*, 162, 57-65, 1999.

STAN, S., DELVIN, E., ROULEAU, T., STEINMETZ, A., **BENDAYAN, M.** and E. LEVY. Modulation of Apo A-IV transcript levels and synthesis by n-3, n-6 and n-9 in Caco-2 cells. *J. Cell. Biochem.*, 75, 73-81, 1999.

- REGOLI\*, M. and **M. BENDAYAN**. Expression of  $\beta 1$  integrins in glomerular tissue of streptozotocin-induced diabetic rats. *Biochem. Cell Biol.*, 77, 71-78, 1999.
- DOUCET\*, M., LONDONO, I., GOMEZ-PASCUAL\*, A. and **M. BENDAYAN**. Glomerular basement membrane selective permeability in short-term streptozotocin-induced diabetic rats. *Int. J. Exp. Diabetes Res.*, 1, 19-30, 2000.
- BRUNEAU\*, N., LOMBARDO, D. and **M. BENDAYAN**. Affinity binding sites of pancreatic bile-salt-dependent lipase in pancreatic and intestinal tissue. *J. Histochem. Cytochem.* 48, 267-276, 2000.
- MAYER\*, G., LEONE, R.D., HAINFELD, J.F. and **M. BENDAYAN**. Introduction of a novel HRP-substrate-Nanogold probe for signal amplification in immunocytochemistry. *J. Histochem. Cytochem.* 48, 461-469, 2000.
- ARIAS\*, A.E., VÉLEZ-GRANELL\*, C.S., MAYER\*, G. and **M. BENDAYAN**. Colocalization of chaperone Cpn60, Proinsulin, and convertase PC1 within immature secretory granules of insulin-secreting cells suggests a role for Cpn60 in insulin processing. *J. Cell Science* 113, 2075-2083, 2000.
- ZIV, E. and **M. BENDAYAN**. Intestinal absorption of peptides through the enterocytes. *Microsc. Res. Techn.* 49, 346-352, 2000.
- LEVY, E. and **M. BENDAYAN**. The use of immunoelectron microscopy and intestinal models to explore the elaboration of apolipoproteins required for intra-enterocyte lipid transport. *Microsc. Res. Techn.*, 49, 374-382, 2000.
- BENDAYAN, M.** Functional properties of the intestinal wall: Novel aspects and recent avenues. *Microsc. Res. Techn.*, 49, 325-328, 2000.
- BRUNEAU\*, N., LOMBARDO, D., LEVY, E. and **M. BENDAYAN**. Roles of molecular chaperones in pancreatic secretion and their involvement in intestinal absorption. *Microsc. Res. Techn.*, 49, 329-345, 2000.
- ARSHI\*, K., **BENDAYAN, M.** and L.D. GHITESCU. Alterations of the rat mesentery vasculature in experimental diabetes. *Lab. Invest.*, 80, 1171-1184, 2000
- BENDAYAN, M.** A review of the potential and versatility of colloidal gold cytochemical labeling for molecular morphology. *Biotech. Histochem.* 75, 203-242, 2000
- MAYER\*, G. and **M. BENDAYAN**. Amplification methods for the immunolocalization of rare molecules in cells and tissues. *Prog. Histochem. Cytochem.*, 36, 1-78, 2001.
- LONDOÑO, I. and **M. BENDAYAN**. Temporary effects of circulating Amadori products on glomerular filtration properties in the normal mouse. *Am. J. Physiol.*, 280 F103-F111, 2001.
- BENDAYAN, M.** Worth its weight in gold. *Science*, 291, 1363-1365, 2001.
- BENDAYAN, M.** and V. GISIGER. Demonstration of acetylcholinesterase molecular forms in a continuous tubular lysosomal system of rat pancreatic acinar cells. *J. Histochem. Cytochem.*, 49, 29-39, 2001.
- BERTELLI, E., REGOLI, M., ORAZIOLI, D. and **M. BENDAYAN**. Association between islets of Langerhans and pancreatic ductal system in adult rat. Where endocrine and exocrine meet together ?. *Diabetologia*, 44, 575-584, 2001.
- DUBÉ, N., DELVIN, E., TOTOV, W., GAROFALO, C., **BENDAYAN, M.**, VEERKAMP, J.H. and E. LEVY. Modulation of intestinal and liver fatty acid-binding protein in Caco-2 cells by lipids, hormones and cytokines. *J. Cell Biochem.*, 81, 613-620, 2001.
- LEE, G., SCHLICHTER, L., **BENDAYAN, M.** and R. BENDAYAN. Functional



expression of P-glycoprotein in rat brain microglia. J. Pharmacol. Exp. Therap. 299, 204-212, 2001.

YOON\*, S., GINGRAS\*, D. and **M. BENDAYAN**. Alterations of vitronectin and of its receptor  $\alpha v$  integrin in the rat renal glomerular wall during diabetes. Am. J. Kidney Dis.. 38, 1298-1306, 2001.

BRUNEAU, N., NGANGA, A., **BENDAYAN, M.** and D. LOMBARDO. Transcytosis of pancreatic bile salt dependent lipase through human Int-407 intestinal cells. Exp. Cell Res. 271, 94-108, 2001.

RASIO, E. and **M. BENDAYAN**. Transport of peptides and large proteins across the eel rete capillary endothelium: Permeability coefficients and structural aspects. Submitted.

STAN, S., LEVY, E., **BENDAYAN, M.**, ZOLTOWSKA, M., LAMBERT, M., MICHAUD, J., ASSELIN, C. and E. DELVIN. Effect of human recombinant leptin on lipid handling by fully differentiated Caco-2 cells. FEBS Lett. 508, 80-84, 2001.

**BENDAYAN, M.** Vascular permeability in blood capillary. Microsc, Res. Tech. 57, 263-268, 2002

**BENDAYAN, M.** Morphological and cytochemical aspects of capillary permeability. Microsc. Res. Tech. 57, 327-349, 2002

RASIO, E.A. and **M. BENDAYAN**. Sequential morphological and permeability changes in the rete capillaries during hyperglycaemia. Microsc. Res. Tech. 57, 408-417, 2002

BENDAYAN, R., LEE, G. and **M. BENDAYAN**. Functional expression and localization of P-glycoprotein in the blood brain barrier. Microsc. Res. Tech. 57, 365-380, 2002.

LEVY, E., STAN, S., DELVIN, E., MENARD, D., SHOULDERS, C., GAROFALO, C., SLIGHT, I., SEIDMAN, E., MAYER, G. and **M. BENDAYAN**. Localization of microsomal triglyceride transfer protein in the Golgi: Possible role in the assembly of chylomicrons. J. Biol. Chem. 277, 16470-16477, 2002.

BOUCHARD\*. P., GHITESCU, L. and **M. BENDAYAN**. Morpho-functional studies of the blood-brain barrier in streptozotocin-induced diabetic rats. Diabetologia 45, 1017-1025, 2002.

BRUNEAU, N., **BENDAYAN, M.**, GINGRAS, D., GHITESCU, L., LEVY, E. and D. LOMBARDO. Circulating bile-salt-dependent lipase originates from the pancreas via intestinal transcytosis. Gastroenterology 124, 470-480, 2003.

MAYER\*, G., BOILEAU, G. and **M. BENDAYAN**. Furin interacts with pro-MT1-MMP and integrin  $\alpha v$  at specialized domains of renal cells plasma membrane. J. Cell Science. 116, 1763-1773, 2003.

BAMRI-EZZRINE\*, S., AO\*, Z.J., LONDONO, I., GINGRAS, D. and **M. BENDAYAN**. Apoptosis of tubular epithelial cells in glycogen nephrosis during diabetes. Lab, Invest, 83, 1069-1080, 2003.

LONDONO, I., GINGRAS, D. and **M. BENDAYAN**. Circulating glycated albumin and glomerular anionic charges. Exp. Diabetes Res., 4, 83-92, 2003.

LEBEL\*, S.P., CHEN, Y., CHUNG, A.E. and **M. BENDAYAN**. Morpho-functional studies of the glomerular wall in mice lacking of entactin. J. Histochem. Cytochem., 51, 1467-1478, 2003.

REGOLI, M., **BENDAYAN, M.**, FONZI, L., SERNIA, C. and E. BERTELLI. Angiotensinogen localization and secretion in rat pancreas. J. Endocrinology, 179, 81-89, 2003.

LI\*, Y., GINGRAS, D., LONDONO, I. and **M. BENDAYAN**. Expression differences in mitochondrial and secretory chaperonin 60 (Cpn60) in pancreatic acinar cells. Cell Stress & Chaperones, 8, 287-294, 2003.

- MIN, B.H., KIM, B.M., LEE, S.H., **BENDAYAN, M.** and I.S. PARK. Clusterin expression in the early process of pancreas regeneration in pancreatectomized rat. *J. Histochem. Cytochem.* 51, 1355-1365, 2003.
- PASCARIU\*, M., **BENDAYAN, M.** and L. GHITESCU. Correlated endothelial caveolin overexpression and increased transcytosis in experimental diabetes. *J. Histochem. Cytochem.*, 52, 65-76, 2004.
- KIM, S.Y., LEE, S.H., KIM, B.M., MIN, B.H., **BENDAYAN, M.** and I.S. PARK. Activation of nestin-positive duct stem cells (NPDS) in pancreas upon neogenic motivation and possible cytodifferentiation into insulin-secreting-cells from NPDS cells. *Developmental Dynamics*, 230, 1-11, 2004.
- LEVY, E., MENARD, D., SUC, I., DELVIN, E., MARCIL, V., BRISSETTE, L., THIBAUT, L. and **M. BENDAYAN**. Ontogeny, immunolocalization, distribution and function of SR-B1 in the human intestine. *J. Cell Science*, 117, 327-337, 2004.
- RONALDSON\*, P.T., **BENDAYAN, M.**, GINGRAS, D., PIQUETTE-MILLER, M. and R. BENDAYAN. Localization and functional expression of P-glycoprotein in rat astrocytes cultures. *J. Neurochem.*, 89, 788-800, 2004.
- MAYER\*, G., BOILEAU, G. and **M. BENDAYAN**. The proprotein convertase furin colocalizes with caveolin-1 in the Golgi apparatus and endosomes of hepatocytes. *Cell Tiss. Res.*, 316, 55-63, 2004.
- MAYER\*, G., BOILEAU, G. and **M. BENDAYAN**. Sorting of furin in polarized epithelial and endothelial cells : Expression beyond the Golgi apparatus. *J. Histochem. Cytochem*, 52, 567-579, 2004.
- DALLAS, S., RONALDSON\*, P. T., **BENDAYAN, M.** and R. BENDAYAN. Multidrug resistance protein 1-mediated transport of saquinavir by microglia. *NeuroReport*, 15, 1183-1186, 2004.
- LONDOÑO, I, BAMRI-EZZRINE\*, S., GINGRAS, D. and **M. BENDAYAN**. Redistribution of integrins in tubular epithelial cells during diabetic glycogen nephrosis. *Nephron Exp. Nephrol.*, 98, 22-30, 2004.
- SLIGHT, I., **BENDAYAN, M.**, MALO, C., DELVIN, E. and E. LEVY. Identification of microsomal triglyceride transfer protein in intestinal brush-border membrane. *Exp. Cell Res.* 300, 11-22, 2004.
- GINGRAS, D. and **M. BENDAYAN**. Evaluation of pancreatic amylase mRNA upon cholinergic stimulation of secretion. *J. Histochem. Cytochem.*53, 93-103, 2005.
- CAMMISOTTO\*, P., RENAUD\*, C., GINGRAS, D., DELVIN, E., LEVY, E. and **M. BENDAYAN**. Endocrine and exocrine secretion of leptin by the gastric mucosa. *J. Histochem. Cytochem.* 53, 851-860, 2005.
- ZOLTOWSKA, M, SEIDMAN, E, DELVIN, E, **BENDAYAN, M**, ALVAREZ, F, and E. LEVY. Cellules ductulaires: mise à jour et implication dans le métabolisme des lipides. In: La fibrose hépatique et les agents antifibrosants: physiopathologie de la fibrose hépatique et son traitement. Cahiers scientifiques de l'ACFAS, 102, 35-53, 2005.
- BERTELLI, E. and **M. BENDAYAN**. Association between endocrine pancreas and ductal system. More than an epiphenomenon of endocrine differentiation and development ? *J. Histochem. Cytochem.*, 53, 1071-1086, 2005.
- LONDONO, I. and **M. BENDAYAN**. Glomerular handling of native albumin in the presence of circulating modified albumins by the normal rat kidney. *Am. J. Physiol. Renal Physiol.* 289, F1201-F1209, 2005.
- LI, YY and **M. BENDAYAN**. Alteration of chaperonin 60 and pancreatic enzymes in pancreatic acinar cells under pathological conditions. *World J. Gastroenterol.* 11, 7359-7363, 2005.

JOLY, E., **BENDAYAN, M.**, RODUIT, R., SAHA, A.K., RUDERMAN, N.B., and M. PRENTKI. Malonyl-CoA decarboxylase is present in the cytosolic, mitochondrial and peroxisomal compartments of the rat hepatocytes. *FEBS Letters*, 579, 6581-6586, 2005.

MONTOUDIS, A., DELVIN, E., MENARD, D., BEAULIEU, J.F., DOMINIC, J., TREMBLAY, E., **BENDAYAN, M.** and E. LEVY. Intestinal fatty acid binding protein and lipid transport in human intestinal epithelial cells. *Biochem. Biophys. Res. Com.* 339, 248-254, 2006.

CAMMISOTTO\*, P.G., GINGRAS, D., RENAUD\*, C., LEVY, E. and **M. BENDAYAN**. Secretion of soluble leptin receptors by exocrine and endocrine cells of the gastric mucosa. *Am. J. Physiol. Gastrointest. Liver Physiol.* 290, G242-249, 2006.

KIM, B.M., KIM, S.Y., LEE, Y.J., SHIN, Y.J., MIN, B.H., **BENDAYAN, M.** and I.S. PARK. Clusterin induces differentiation of pancreatic duct cells into insulin-secreting cells. *Diabetologia*, 49, 311-320, 2006.

BOUCHER\*, E., MAYER\*, G., LONDONO, I. and **M. BENDAYAN**. Expression and localization of MT1-MMP and furin in the glomerular wall of short and long-term diabetic rats. *Kidney Intern.* 69, 1570-1577, 2006.

CAMMISOTTO\*, P., BUKOWIECKI, L.J., DESHAIES, Y. and **M. BENDAYAN**. Leptin biosynthetic pathway in white adipocytes. *Biochem. Cell Biol.* 84, 207-214, 2006.

**(250)**

CLOUTIER\*, M., GINGRAS, D. and **M. BENDAYAN**. Internalization and transcytosis of pancreatic enzymes by the intestinal mucosa. *J. Histochem. Cytochem.*, 54, 781-794, 2006.

BENDAYAN, R., RONALDSON P.T., GINGRAS, D. and **M. BENDAYAN**. In situ localization of P-glycoprotein (ABC1) in human and rat brain. *J. Histochem. Cytochem.* 54, 1159-1167, 2006.

SANÉ, A.T., SINNETT, D., DELVIN, E., **BENDAYAN, M.**, MARCIL V., MENARD, D., BEAULIEU, J-F., and E. LEVY. Localization and role of NPC1L1 in cholesterol absorption in human intestine. *J. Lipid Res.* 47, 2112-2120, 2006.

CAMMISOTTO\*, P.G. and **M. BENDAYAN**. Leptin secretion by white adipose tissue and gastric mucosa: A review. *Histol. Histopathol.*, 22, 199-210, 2007.

BABAKHANIAN, K, **BENDAYAN, M** and R. BENDAYAN. Localization of P-glycoprotein at the nuclear envelope of rat brain cellular compartments. *Biochem. Biophys. Res. Com.* 321, 301-306, 2007.

CAMMISOTTO\*, P.G., GINGRAS, D. and **M. BENDAYAN**. Transcytosis of gastric leptin through the rat duodenal mucosa. *Am. J. Physiol. Gastrointest. Liver Physiol.* 293, G773-G779, 2007.

LEVY, E., TRUDEL, K., **BENDAYAN, M.**, SEIDAMNAN, E.G., DELVIN, E., LAVOIE, J.C., PERCOURT, L.P., AMRE, D., and D. SINNETT. Biological role, protein expression, subcellular localization and oxidative stress response of paraoxonase 2 in the intestine of humans and rats. *Am. J. Physiol. Gastrointest. Liver Physiol.*, 293, G1252-G1261, 2007.

WEI, C., MOLLER, C., ALTINTAS M., LI, J., SCHWARZ, K., ZACCHIGNA, S., XIE, L., HENGER, A., SCHMID, H., RASTALDI, M.P., COWAN, P., KRETZLER, M., PARRILLA, R., **BENDAYAN, M.**, GUPTA, V., NIKOLIC, B., KALLURI, R., CARMELIET, P., MUNDEL P. and J. REISER. Modification of kidney barrier function by the urokinase receptor. *Nature Medicine*, 14, 55-63, 2008.

SHIMONY, N., **BENDAYAN, M.**, ELKIN, G., BENNNUN-SHAUL, O., ABD-EL-LATIF, M., SCHERZER, P., ARBEL, O., ZIV, E., KRASNY, L., PIZOV, G., OPPENHEIM, A. and Y.S. HAVIV. Pancreatic acinar and islet cell infection by low-dose SV40 administration. *Pancreas*, 36, 411-416, 2008.

ACEVEDO\*, L.M., LONDONO, I., OUBAHA, M., GHITESCU, L. and **M. BENDAYAN**. Glomerular CD34 expression in short- and long-term diabetes. *J. Histochem.*

Cytochem., 56, 605-614, 2008.

CAMMISOTTO\*, P.G., LONDONO, I., GINGRAS, D. and **M. BENDAYAN**. Control of glycogen synthase through ADIPO-R1-AMPK pathway in renal distal tubules of normal and diabetic rats. *Am. J. Physiol. Renal Physiol.*, 294, F881-F889, 2008.

**BENDAYAN, M.**, GINGRAS, D., HAVIV, Y.S. and E. ZIV. Low voltage transmission electron microscopy reveals SV40 viral particles within secretory granules in pancreatic cells. *Microsc. Res. Tech.* 71, 659-662, 2008.

ZASTRE, J.A., CHAN, G.N.Y., RONALDSON, P.T., RAMASWAMY, M., COURAUD, P.O., ROMERO, I.A., WESLER, B., **BENDAYAN, M.** and R. BENDAYAN. Up-regulation of P-glycoprotein by HIV protease inhibitors in a human brain microvessel endothelial cell line. *J. NeuroScience, Res.* in press, 2008.

RAVID\*, Z., **BENDAYAN, M.**, DELVIN, E., SANÉ, A.T., ELCHEBLY, M., LAFOND, J., LAMBERT, M., MAILHOT, G. and E. LEVY. Modulation of intestinal cholesterol absorption by high glucose levels: impact on cholesterol transporters, regulatory enzymes and transcription factors. *Am. J. Physiol. Gastrointest. Liver Physiol.* 295, 873-885, 2008.

CAMMISOTTO\*, P.G. and **M. BENDAYAN**. Adiponectin stimulates phosphorylation of AMP-activated protein kinase  $\alpha$  in renal glomeruli. *J. Mol. Histol.*, 39, 579-584, 2008.

- graduate student or post-doctoral trainee

## Book chapters

RASIO, E., **BENDAYAN, M.** and E. SANDBORN. Ultrastructural and glucose metabolism of an isolated blood capillary preparations. *In: Diabetes. Excerpta Medical Foundation, W.J. Malaisse and J. Pirart, eds, 1974, pp. 396-410.*

SANDBORN, E.B., STEPHENS, H.R. and **M. BENDAYAN**. The influence of dimethylsulfoxide on biological ultrastructure and cytochemistry. *In: "Biological Actions of Dimethylsulfoxide". Ann. N.Y. Acad. Sci.* 243, 1975, pp. 122-138.

**BENDAYAN, M.**, SANDBORN, E. and E. RASIO. An intracellular tubular system in endothelial cells. *Microcirculation I*, Grayson and Zingg eds, Plenum Publishing Corp. New York, 1976, pp. 149-152.

NANCI, A., **BENDAYAN, M.** and H.C. SLAVKIN. Distribution of enamel protein antigens during mouse incisor amelogenesis as revealed by high resolution immunocytochemistry. *Tooth Enamel IV.* R.W. Fearnhead and S. Suza Edts., Elsevier, Amsterdam, pp. 141-145, 1984.

**BENDAYAN, M.** and H. STEPHENS. Double labeling cytochemistry applying the protein A-gold technique. *In: "Immunolabeling for electron microscopy". J.M. Polak and I.M. Varndell Edts., pp. 143-154, 1984.*

RASIO, E. and **M. BENDAYAN**. The rete mirabile of the hyperglycemic eel: a model for the study of diabetic microangiopathy. *In: "Lessons from animal diabetes". E. Shafir and A.E. Renold Edts., J. Libbey, London, pp. 491-499, 1984.*

**BENDAYAN, M.** The enzyme-gold technique: a new cytochemical approach for the ultrastructural localization of macromolecules. *In: "Techniques in immunocytochemistry". Bullock and Petrusz Edts., Academic Press, London, 3, 179-201, 1985.*

SNEAD, M.L., LAN, E.C., ZEICHNER-DAVID, M., NANCI, A., **BENDAYAN, M.**, BRINGRAS, P., BESSEM, C. and H.C. SLAVKIN. Relationship of the ameloblast biochemical phenotype to morpho-cytodifferentiation. *In: "Molecular approaches to developmental biology". UCLA Symposia, pp. 1-12, 1986.*

DESJARDINS\*, M., GINGRAS\*, D. and **M. BENDAYAN**. Morphological study of

glomerular permeability to serum proteins during diabetes. Prog. Basement Membrane Res., M.C. Gubler & M. Sternberg Edts., John Libbey Eurotext, pp. 211-216, 1988.

**BENDAYAN, M.** and E. RASIO. Structure and function relationships in blood capillaries of hyperglycemic eels. In: "*Lessons from animal diabetes II*". E. Shafrir & A.E. Renold Edts. John Libbey & Co., 495-499, 1988.

**BENDAYAN, M.** Protein A-gold and protein G-gold post-embedding immunoelectron microscopy. In: "*Colloidal Gold: Principles, methods and applications*". M.A. Hayat ed., Vol. I, pp. 33-94, Academic Press, San Diego Ca., 1989.

**BENDAYAN, M.** The enzyme-gold cytochemical approach: A review. In: "*Colloidal Gold: Principles, methods and applications*". M.A. Hayat ed., Vol. II, pp. 117-147, Academic Press, San Diego Ca., 1989.

GARZON, S. and **M. BENDAYAN.** The colloidal gold probe: An overview of the application in viral cytochemistry. In: "*Immunoelectron microscopy in virus research and diagnosis*". Hyatt A.D. and Eaton B.T., eds, CRC Press, 137-176, 1993.

**BENDAYAN, M.** Immunoelectron microscopy. In: "*Practical Electron Microscopy*", E. Hunter Editor, Cambridge University Press, Victoria, Australia, pp. 71-92, 1993.

RASIO, A.E., **BENDAYAN, M.** and C. A. GORESKY. The isolated rete. In: Biochemistry and Molecular Biology of Fishes. Hochachka P.W. and T.P. Mommsen, eds. Elsevier, Amsterdam. vol. 3, 191-203, 1994.

CHENICLET\*, C., GARZON, S. and **M. BENDAYAN.** In situ detection of nucleic acids by the nuclease-gold method. In: Visualization of nucleic acids. Morel, G. ed. pp.95-109, 1995.

MALIDE\*, D. and **M. BENDAYAN.** Ultrastructural detection of nucleic acids in the glomerular basement membrane of lupus nephritis. In : Visualization of nucleic acids. Morel, G. ed. pp. 323-329, 1995.

RASIO, E.A., **BENDAYAN, M.** and C.A. GORESKY. Study of blood capillary permeability with the rete mirabile. In: Whole organ approaches to cellular metabolism. Bassingthwaighte J, Goresky CA, Linehan JH, Edts. Springer-Verlag. New York, 71-90, 1998.

ZOLTOWOSKA, M., SEIDMAN, E., DELVIN, E., **BENDAYAN, M.**, ALVAREZ F. and E. LEVY . Cellules ductulaires: Mise à jour et implication dans le métabolisme des lipides. La fibrose hépatique et les agents antifibrosants. Cahiers scientifiques 102, Desmoulière A. et Tuchweber B. ACFAS Montreal, pp 35-53, 2005.

## Abstracts

**BENDAYAN, M.**, E. SANDBORN and E. RASIO. Electron microscopy of capillaries in the eel. Proc. Can. Fed. Biol. Soc. 16, 6, 1973.

**BENDAYAN, M.** and E. RASIO. Scanning and transmission electron microscopy of capillaries from the rete mirabile of the eel. Anat. Rec. 178, 308-309, 1974.

**BENDAYAN, M.**, E. RASIO and E. SANDBORN. Studies on capillary basement membrane (C.B.M.). Proc. Can. Fed. Biol. Soc. 17, 125, 1974.

**BENDAYAN, M.**, E. SANDBORN and E. RASIO. Concurrent studies on the morphology, the permeability and the metabolism of a blood capillary preparation. Diabetologia 10, 358-359, 1974.

SANDBORN, E., H. STEPHENS and **M. BENDAYAN**. The influence of dimethylsulfoxide on biological ultrastructure. Proc. 8th Int. Cong. Electron Microscopy, II, 158-159, 1974.

**BENDAYAN, M.**, E. SANDBORN and E. RASIO. Continuity of structure in endothelial cells. Proc. Can. Fed. Biol. Soc. 18, 100, 1975.

**BENDAYAN, M.** and E. SANDBORN. The presence of a tubular system in capillary endothelium in the eel and in the rat. Proc. Micros. Soc. Can. 3, 138-139, 1976.

RASIO, E., **M. BENDAYAN** and E. SANDBORN. Hyperglycemia and microangiopathy in the cold acclimated eel. Diabetes 25, suppl. 1, 382, 1976.

**BENDAYAN, M.**, E. SANDBORN and E. RASIO. Morphological, biochemical and functional alterations induced by chronic hyperglycemia in an isolated blood capillary preparation. Proc. V Intern. Cong. Endocrinology, Hambourg, 1976.

**BENDAYAN, M.**, S. ITO and L. ORCI. Inhomogeneous pattern of enzyme immunofluorescence in pancreatic acinar cells of normal and diabetic rats. Proc. Eur. Soc. Clin. Invest., 12<sup>th</sup> annual meeting. 29-30, 1978.

**BENDAYAN, M.** and S. ITO. Immunocytochemistry of enzymes in normal and diabetic rat exocrine pancreas. Experientia, 34, 933, 1978.

ROTH, J., **M. BENDAYAN**, A. PERRELET and L. ORCI. Ultrastructural localization of antigenic sites with the protein A-gold complex: a qualitative and quantitative approach. Ultramicroscopy, 5, 107, 1980.

**BENDAYAN, M.**, J. ROTH and L. ORCI. Qualitative and quantitative immunocytochemistry of exocrine enzymes in the normal rat pancreas. Experientia, 35, 956, 1979.

**BENDAYAN, M.** Ultrastructural localization of enzyme substrates by the use of enzyme-gold complexes: A new approach in cytochemistry. VI<sup>th</sup> Intern. Histochemistry and Cytochemistry Cong. p.31, 1980.

ROTH, J., **M. BENDAYAN**, A. PERRELET and L. ORCI. Protein A-gold (pAg) technique: A qualitative and quantitative approach for ultrastructural localization of antigens. VI<sup>th</sup> Intern. Histochemistry and Cytochemistry Cong. p. 331, 1980.

ROTH, J., **M. BENDAYAN**, E. CARLEMALM and W. VILLIGER. Advances in specimen preparation for electron microscopy. IV. Immunocytochemistry on thin sections with the protein A-gold (pAg) technique. Experientia, 36, 69, 1980.

**BENDAYAN, M.** Ultrastructural localization of nucleic acids using RNase-gold and DNase-gold complexes. Anat. Rec., 199, 25A, 1981.

RACHUBINSKI, R., **M. BENDAYAN** and G.C. SHORE. Membrane biogenesis: Post-translational insertion of precursor polypeptides into outer mitochondrial membrane of rat liver. Proc. Can. Fed. Biol. Soc., 24, 152,

1981.

**BENDAYAN, M.** Ultrastructural localization of nucleic acids using enzyme-gold complexes: Effect of fixation and embedding. Proc. Can. Fed. Biol. Soc., 24, 248, 1981.

**BENDAYAN, M.** and T.B. ORSTAVIK. Ultrastructural localization of kallikrein in rat pancreatic acinar cells. Proc. Can. Fed. Biol. Soc., 24, 275, 1981.

ORSTAVIK, T.B. and **M. BENDAYAN.** Localization of kallikrein in the pancreas and its subcellular distribution. Proc. Inter. Conf. Kallikreins-Kinins-Kininogens-Kinases, B-9, 1981.

REDDY, J.K., **M. BENDAYAN** and M.K. REDDY. Immunocytochemical localization of catalase, heat-labile enoyl-CoA hydratase and peroxisome proliferation associated 80,000 mol. wt. polypeptide in rat liver. J. Cell Biol., 91, 280a, 1981.

**BENDAYAN, M.**, M.J. BECICH and J.K. REDDY. Immunocytochemical localization of pancreatic enzymes in neoplastic pancreatic acinar epithelium of the rat. Nat. Panc. Canc. Proj. Newsletter, 6, 8, 1981.

**BENDAYAN, M.** Morphometric and immunocytochemical evaluations of peri-insular and tele-insular acinar cells in the rat pancreas. Nat. Panc. Canc. Proj. Newsletter, 6, 9, 1981.

**BENDAYAN, M.** and E. PUVION. Localisation ultrastructurale de l'ARN: Comparaison entre les techniques d'autoradiographie et de RNAase-or colloïdal. Biol. Cell, 44, 30a, 1982.

**BENDAYAN, M.** and M. ZOLLINGER. Protein A-gold immunocytochemical labeling on osmicated tissues. J. Histochem. Cytochem., 30, 576, 1982.

STEPHENS, H., **BENDAYAN, M.**, SILVER, M. and G. MARTIN. Protein A-gold immunocytochemical localization of collagen types and laminin in skeletal muscle. J. Histochem. Cytochem., 30, 605, 1982.

**BENDAYAN, M.** Intracellular aspects of protein secretion in exocrine pancreas as revealed by immunocytochemistry. Proc. VII<sup>th</sup> International Conference defined immunofluorescence immunoenzyme studies and related labeling techniques, p. 39, 1982.

**BENDAYAN, M.** and M. ZOLLINGER. Protein A-gold immunocytochemical technique: Ultrastructural localization of antigens on postosmicated tissues. Proceedings 10<sup>th</sup> International Congress on Electron Microscopy, 267-268, 1982.

**BENDAYAN, M.** Enzyme-gold cytochemical technique: Conditions for optimal labelling. Proceedings 10<sup>th</sup> International Congress on Electron Microscopy, 271-272, 1982.

**BENDAYAN, M.**, REDDY, M.K. and J.K. REDDY. Ultrastructural localization of heat-stable and heat-labile enoyl-CoA hydratase in rat liver and kidney cortex. J. Cell Biol., 95, 279a, 1982.

POLIQVIN, L., LEVINE, G., **BENDAYAN, M.** and G.C. SHORE. Role of the Golgi apparatus and a restructured nuclear envelope in the assembly of Herpes simplex virus type I glycoproteins. J. Cell Biol., 95, 408a, 1982.

**BENDAYAN, M.** The concentration of amylase along its secretory pathway in acinar cells: Emphasis on the Golgi apparatus and role of cytoskeletal elements. J. Histochem. Cytochem., 31, 1061, 1983.

PLOTON, D., **BENDAYAN, M.** and J.J. ADNET. Ultrastructural localization of Ag-NOR proteins and nucleic acids in thread-like structured nucleoli. Proc. 8th Nucleolar Workshop, p. 43, 1983.

**BENDAYAN, M.** Concentration of amylase along its secretory pathway in acinar cells as revealed by quantitative immunocytochemistry: role of

cytoskeletal elements. Proc. Can. Fed. Biol. Soc., 26, 91, 1983.

BRUNEAU, A., **BENDAYAN, M.** and J. MORISSET. Etudes morphométriques et immunocytochimiques du pancréas exocrine de rat soumis à une stimulation de la sécrétion. Proc. Can. Fed. Biol. Soc., 26, 162, 1983.

HERBENER, G.H., **BENDAYAN, M.** and R.C. FELDHOFF. The intracellular pathway of vitellogenin secretion in the frog hepatocyte as revealed by protein A-gold immunocytochemistry. J. Cell Biol., 97, 78a, 1983.

STEPHENS, H., **BENDAYAN, M.** and V. GISIGER. Ultrastructural co-localization of collagen type IV or laminin with acetylcholinesterase (AChE) in endplate regions. J. Cell Biol., 97, 234a, 1983.

**BENDAYAN, M.** Concentration of amylase along its secretory pathway in acinar cells, as revealed by immunocytochemistry emphasis on the Golgi apparatus and possible role of cytoskeletal elements. Dig. Dis. Sci., 28, 926, 1983.

**BENDAYAN, M.** The enzyme-gold cytochemistry: extension of the technique for the ultrastructural localization of various substrates. Proc. Royal Microsc. Soc., 19, suppl. 4, S. 11, 1984.

**BENDAYAN, M.** and H. STEPHENS. Alterations in the distribution of collagen type IV in glomerular basal laminae of streptozotocin-diabetic rats as revealed by immunocytochemistry. Proc. 7<sup>th</sup> International Congress Endocrinol., 336, 1984.

MAESTRACCI, N.D., **BENDAYAN, M.** and J. HARDY. Pituitary adenomas: patterns of hPRL and hGH secretion as revealed by high resolution immunocytochemistry. Proc. 7<sup>th</sup> International Congress Endocrinol., 1050, 1984.

**BENDAYAN, M.** and H. STEPHENS. Immunocytochemical studies of renal basal laminae from diabetic rats: alterations in the distribution of collagen type IV. Proc. 7<sup>th</sup> International Congress Histochem., 35, 1984.

NANCI, A., **BENDAYAN, M.** and H.C. SLAVKIN. Distribution of enamel protein antigens in mouse incisor secretory ameloblasts as revealed by high resolution immunocytochemistry. Proc. 7<sup>th</sup> International Congress Histochem., 291, 1984.

PLOTON, D., ADNET, J.J. and **M. BENDAYAN.** Ultrastructural localization of Ag-NOR proteins, nucleic-acids and nucleoproteins in various types of nucleoli in human breast cancerous tissues. Proc. 7<sup>th</sup> International Congress Histochem., 335, 1984.

STEPHENS, H., **BENDAYAN, M.** and V. GISIGER. Ultrastructural colocalization of collagen type IV or laminin with acetylcholinesterase at the neuromuscular junction in normal and dystrophic mice. Proc. 7<sup>th</sup> International Congress Histochem., 409, 1984.

**BENDAYAN, M.** and H. STEPHENS. Ultrastructural localization of type IV collagen antigenicity in glomerular basal laminae: alteration of its distribution in diabetes. J. Cell Biol., 99, 78a, 1984.

**BENDAYAN, M.** and M.A. DUHR\*. Enhancement of the efficiency of the protein A-gold immunocytochemical technique. Proc. Microsc. Soc. Canada, 12, 6-7, 1985.

RAO, M.S., **BENDAYAN, M.** and J.K. REDDY. Localization of carbamoylphosphate synthetase (Ammonia) (CPS) in pancreatic hepatocytes of rat. Fed. Proc., 44, 740, 1985.

GRÉGOIRE\*, S. and **M. BENDAYAN.** Immunocytochemical and biochemical studies on pancreatic acinar tissue in normal and streptozotocin-induced diabetic rats. Proc. Can. Fed. Biol. Soc., 28, 122, 1985.

HERBENER, G.H., FELDHOFF, R.C., **BENDAYAN, M.** and R.O. MITCHEL. Immunocytochemical and biochemical characterization of a non-vitellogenin, estrogen-induced plasma protein in American Bullfrog. J. Cell Biol., 101,



381a, 1985.

**BENDAYAN, M.** and M.A. DUHR\*. Modification of the protein A-gold immunocytochemical technique for the enhancement of its efficiency. *J. Histochem. Cytochem.*, 34, 107, 1986.

GRÉGOIRE\*, S. and **M. BENDAYAN**. Immunocytochemical investigation of pancreatic acinar tissue in normal and streptozotocin-induced diabetic rats. *J. Histochem. Cytochem.*, 34, 118, 1986.

HERBENER, G.H., **BENDAYAN, M.** and R.C. FELDHOFF. Immunocytochemical comparison of albumin and vitellogenin secretion by hepatocytes of normal and estrogen-treated frogs. *J. Histochem. Cytochem.*, 36, 119, 1986.

**BENDAYAN, M.** Parallel processing and secretion of insulin and C-peptide by the pancreatic B-cell as revealed by the quantitative high resolution protein A-gold immunocytochemical approach. *J. Histochem. Cytochem.*, 34, 125, 1986.

NANCI, A., **BENDAYAN, M.**, SLAVKIN, H.C. and C.E. SMITH. Immunocytochemical localization of enamel proteins in ruffle and smooth-ended ameloblasts. *J. Dent. Res.*, 65, 349, 1986.

GRÉGOIRE\*, S., **BENDAYAN, M.**, RAO, M.S. et J.K. REDDY. Études immunocytochimiques des cellules acineuses d'un carcinome pancréatique implanté chez des rats diabétiques. *Annales de l'ACFAS*, 54, 27, 1986.

**BENDAYAN, M.** Restrictions et artefacts propres aux techniques cytochimiques à l'or colloïdal. *Biol. Cell*, 57, 2a, 1986.

NANCI, A., **BENDAYAN, M.**, SLAVKIN, H.C. et C.E. SMITH. Études immunocytochimique et radioautographique de la maturation de l'émail dans l'incisive de rat. *Biol. Cell*, 57, 5a, 1986.

**BENDAYAN, M.**, DUHR\*, M.A. and D. GINGRAS. Pancreatic acinar cells in tissue culture: potentiality of a new model for the in vitro study of protein secretion. *Biol. Cell*, 57, 38a, 1986.

BENHAMOU, N., GARZON, S. et **M. BENDAYAN**. Localisation ultrastructurale de l'ADN sur coupes de tissus fixés au tétroxyde d'osmium par immunocytochimie. *Biol. Cell*, 57, 42a, 1986.

KAN, F.W.K., **BENDAYAN, M.** and E. PUVION. Ultrastructural localization of glycoconjugates in the nucleus of liver cells cultured under normal and experimental conditions, as revealed by the lectin-gold approach. *Biol. Cell*, 57, 42a, 1986.

NANCI, A., **BENDAYAN, M.**, LACOURSIERE, S. et C.E. SMITH. Caractérisation cytochimique et immunocytochimique de la structure riche en glycoprotéines (lamelle basale?) associées aux améloblastes de maturation. *Biol. Cell*, 57, 43a, 1986.

**BENDAYAN, M.**, GINGRAS, D. and P. CHAREST. Distribution of endogenous albumin in normal and diabetic rat glomerular wall as revealed by immunocytochemistry. *J. Cell Biol.*, 103, 380a, 1986.

**BENDAYAN, M.**, GINGRAS, D., DUHR\*, M.A., KAN, F.W.K. and A. NANCI. Morphological characterization of pancreatic acinar cells cultured on a basal laminae matrix. *J. Cell Biol.*, 103, 381, 1986.

KAN, F.W.K., **BENDAYAN, M.** and E. PUVION. Lectin-gold cytochemistry of

glycoconjugates in the nucleus of liver cells cultured under normal and experimental conditions. *J. Cell Biol.*, 103, 48a, 1986.

**BENDAYAN, M.** Pancreatic acinar cells in tissue culture: morphological characterization after culture on a basal laminae matrix. *Digest. Dis. Sci.*, 31, 1125, 1986.

**BENDAYAN, M.** Étude de la distribution de l'albumine endogène au niveau de la paroi glomérulaire chez le rat normal et diabétique. *L'Union Médicale du Canada*, 115, 574, 1986.

NANCI, A., **BENDAYAN, M.**, LACOURSIERE, S. and C.E. SMITH. Cytochemical and immunocytochemical characterization of the basal laminae-like structure associated with modulating ameloblasts in the rat incisor. *J. Dent. Res.* 66, 353, 1987.

**BENDAYAN, M.** Effect of basal laminae matrix and secretagogues on the differentiation and three-dimensional reorganization of cultured pancreatic acinar cells. *Anat. Rec.* 218, 15A, 1987.

HERBENER, G.H. and **M. BENDAYAN.** The localization and quantitation of RNA in the frog hepatocyte during vitellogenesis as revealed by enzyme-gold electron microscopic cytochemistry. *Anat. Rec.* 218, 60A, 1987.

**BENDAYAN, M.**, DESJARDINS, M., ARSENAULT, A. and D. GINGRAS. Application of the protein A-gold approach to the study of glomerular permeability. *J. Histochem. Cytochem.*, 35, 1018, 1987.

**BENDAYAN, M.**, GRÉGOIRE\*, S., MORISSET, J. and M.S. RAO. Immunocytochemical and biochemical studies on amylase and chymotrypsinogen secretion by pancreatic acinar carcinoma cells in diabetic condition. *J. Histochem. Cytochem.*, 35, 1018, 1987.

KURIAKOSE, N., SHIN, S., ELCE, J.S. and **M. BENDAYAN.** Immunolocalization of cathepsin D and prolactin in rat anterior pituitary. *J. Histochem. Cytochem.*, 35, 1022, 1987.

KURIAKOSE, N., SHIN, S., ELCE, J.S. AND **M. BENDAYAN.** Immunolocalization of cathepsin D and prolactin in rat anterior pituitary. *Proc. Canad. Fed. Biol. Soc.* 30, 183, 1987.

DESJARDINS\*, M., GINGRAS, D. and **M. BENDAYAN.** Morphological studies of glomerular permeability to albumin and immunoglobulin G, in short and long term diabetes. *IV Intern. Symp. Renal Basement Membranes* p. A 55, 1987

LONDOÑO\*, I., BENHAMOU, N. and **M. BENDAYAN.** Application of the enzyme-gold cytochemical approach for the ultrastructural localization of sugar residues on tissue sections. *J. Cell Biol.* 105, 225a, 1987

COULOMBE\*, P.A., KAN, F.W.K. and **M. BENDAYAN.** Ultrastructural localization of phospholipids on tissue sections and fracture-label replicas applying the enzyme-gold cytochemical approach. *J. Cell Biol.* 105, 225a, 1987.

DESJARDINS\*, M., A. ARSENAULT, D. GINGRAS and **M. BENDAYAN.** Etude de la perméabilité glomérulaire par approche immunocytochimique. *Ann. ACFAS* 55, 30, 1987.

**BENDAYAN, M.**, M. DESJARDINS\* and D. GINGRAS. Immunocytochemical studies of the glomerular permeability: effect of age and diabetes. *Proc. The Uremic Diabetic Conference*, 1987.

COULOMBE\*, P.A. and **M. BENDAYAN**. High resolution cytochemistry of phospholipids in lung and pancreatic tissues applying the enzyme-gold approach. *J. Histochem. Cytochem.* 36, 883, 1988.

LONDOÑO\*, I., BENHAMOU, N. and **M. BENDAYAN**. Colloidal gold cytochemistry for glycoconjugates: Comparative evaluation of the enzyme-gold and lectin-gold approaches. *J. Histochem. Cytochem.* 36, 920, 1988.

**BENDAYAN, M.**, DESJARDINS\*, M. and D. GINGRAS. Spatial distribution of basal lamina components and functional properties of the glomerular wall in normal and diabetic conditions as revealed by immunocytochemistry. *J. Histochem. Cytochem.*, 36, 957, 1988.

GARZON, S. and **M. BENDAYAN**. Protein G-gold complex: An alternative approach in immunocytochemistry. *Proc. IV Int. Cong. Cell Biol.* 201, 1988.

COULOMBE\*, P.A., LONDOÑO\*, I., KAN, F.W.K. and **M. BENDAYAN**. New development in the enzyme-gold approach for the ultrastructural localization of sugar residues and phospholipids. *Proc. IV Int. Cong. Cell Biol.* 203, 1988.

LEVY, E., ROY, C.C., LEPAGE, G. and **M. BENDAYAN**. Pancreatic lipid composition abnormalities in diabetic conditions. *Gastroenterol. Int.* 1, suppl. 1, 1041, 1988.

**BENDAYAN, M.**, ZIV, E., BEN-SASSON, R., BAR-ON, H. and M. KIDRON. Morphological evidence for insulin absorption by the ileal epithelium. *Proc. Int. Conf. Pharmac. Sci. Clin. Pharmac.* p. 23, 1988.

ROY, C.C., LEVY, E., LEPAGE, G. and **M. BENDAYAN**. Lipid abnormalities in pancreatic tissue of streptozotocin-induced diabetic rats. *FASEB*, 2, 8080, 1988.

NANCI, A., COULOMBE\*, P.A., LEVY, E., SMITH, C.E. and **M. BENDAYAN**. Ultrastructural localization of phospholipids in mineralized tissues using a phospholipase A2-gold complex. *Third Intern. Conf. Chem. Biol. Mineral. Tiss.*, 1988.

RASIO, E.A., **BENDAYAN, M.**, GORESKY, C.A., ALEXANDER, S.J. and D. SHEPRO. Phalloidin protects the structure and function of rete capillaries against injury by hypoxia and reperfusion. *APS/ASPET*, 1988.

DESJARDINS\*, M. and **M. BENDAYAN**. Hétérogénéité des membranes basales renales telle que révélée par approche immunocytochimique. *LXX Congrès Association des Anatomistes de Langue Française*, Paris 1988.

**BENDAYAN, M.** and D. GINGRAS. Effect of sodium vanadate on amylase secretion by the exocrine pancreas in diabetes. *Pancreas* 3, 591, 1988.

COULOMBE\*, P.A. and **M. BENDAYAN**. Cytochemical evidence for a differential phospholipid content in cell membranes along the insulin synthetic and secretory pathway in pancreatic B-cells. *Pancreas* 3, 594, 1988.

DESJARDINS\*, M. and **M. BENDAYAN**. Immunocytochemical study of renal basement membranes in control and diabetic animals. *J. Histochem. Cytochem.*, 37, 927, 1989.

KAN, F.W.K. and **M. BENDAYAN**. Topographical distribution of Helix Pomatia lectin-binding glycoconjugates in secretory granules and plasma membrane of pancreatic acinar cells as revealed by thin-section and fracture-label cytochemistry. *J. Histochem. Cytochem.* 37, 930, 1989.

LONDOÑO\*, I. and **M. BENDAYAN**. Distribution of endogenous albumin across the rat aortic wall. *J. Histochem. Cytochem.*, 37, 930, 1989.

GINGRAS, D. and **M. BENDAYAN**. Effect of vanadate administration on blood glucose levels and exocrine pancreatic secretion in diabetes. *J. Histochem. Cytochem.*, 37, 933, 1989.

**BENDAYAN, M.**, BARTH, R.F., GINGRAS, D., LONDOÑO\*, I., ROBINSON, P., ALAN, F., ADAMS, D.M. and L. MATTIAZZI. Electron spectroscopy imaging for high resolution immunocytochemistry: use of boronated protein A. *J. Histochem. Cytochem.*, 37, 940, 1989.

**BENDAYAN, M.**, ZIV, E., BEN-SASSON, R., BAR-ON, H. and M. KIDRON. Morphological evidence for insulin absorption by the ileal epithelium. *Diabetes*, 38, suppl. 2, 156A, 1989.

**BENDAYAN, M.** and D. GINGRAS. Effet de l'administration de sodium vanadate sur les niveaux de glycémie et d'insuline ainsi que sur la sécrétion pancréatique chez des rats diabétiques. *Medecine Sciences*, 5, 15A, 1989.

LEVY, E., C. ROCHETTE\*, I. LONDOÑO\*, C. ROY, Y. MARCEL, R. MILNE and **M. BENDAYAN**. Evidence morphologique et biochimique de l'apo B-100 dans l'intestin humain: synthèse et endocytose. *Medecine Sciences*, 5, 36A, 1989.

ARIAS\*, A.E., D. GINGRAS and **M. BENDAYAN**. Rôle d'une matrice extracellulaire et de secretagogues sur les cellules acineuses pancréatiques en culture. *Medecine Sciences*, 5, 65A, 1989.

GHITESCU\*, L. and **M. BENDAYAN**. Etudes ultrastructurales de la perméabilité capillaire à l'albumine. *Medecine Sciences*, 5, 65A, 1989.

ROCHETTE\*, C., E. LEVY, I. LONDOÑO\*, C.C. ROY, R.H. MILNE, Y.L. MARCEL and **M. BENDAYAN**. Presence of apolipoprotein B-100 in human intestine. *Proc. Int. Atherosclerosis Congress*, p.46, 1989.

STROMER, M.H. and **M. BENDAYAN**. Desmin filaments are directly connected to mitochondrial and nuclear membranes. *J. Cell Biol.*, 109, 256a, 1989.

CHENICLET, C. and **M. BENDAYAN**. Use of various specific ribonuclease-gold complexes for the in situ localization of RNA molecules. *Biol. Cell* 66, 6a, 1989.

GROS, F., M. DESJARDINS\*, J. WIESLANDER, M.C. GUBLER and **M. BENDAYAN**. Distribution of monomeric components from the NC1 domain of type IV collagen in rat renal basement membranes. *Biol. Cell* 66, 10a, 1989.

**BENDAYAN, M.**, BARTH, R.F., GINGRAS, D., LONDOÑO\*, I., ROBINSON P.T., ALAN, F., ADAMS, D.M. and L. MATTIAZZI. Electron spectroscopy imaging immunocytochemistry: Use of boronated-protein A. *Proc. 47<sup>th</sup> Annual Meeting of Electron Microscopy Soc. America*. Bailey G.W. ed. San Francisco, 892-893, 1989.

GINGRAS\*, D. and **M. BENDAYAN**. Immunocytochemical studies of secretory granules in pancreatic acinar cells. *Biol. Cell*, 69, 33a, 1990.

DESJARDINS\*, M. and **M. BENDAYAN**. Immunocytochemical distribution of type IV collagen over the glomerular basement membrane at different stages of renal development. *J. Histochem. Cytochem.*, 38, 1078, 1990.

GHITESCU\*, L. and **M. BENDAYAN**. Immunolabeling efficiency of protein A-gold complex. *J. Histochem. Cytochem.*, 38, 1052, 1990.

LONDOÑO\*, I., LECLERC, M. and **M. BENDAYAN**. Distribution of endogenous albumin across rat and human aortic walls. *Proc. 1<sup>st</sup> Altschul Symp. Atherosclerosis*, pp.15, Saskatchewan, 1990.

LONDOÑO\*, I. and **M. BENDAYAN**. Intra e extracellular distribucion de la albumina endogena a traves de la pared aortica. *Proc. IV Jornada Microscopia Electronica*, 51-52, Cumana, 1990.

RUSSO, P. and **M. BENDAYAN**. The distribution of endogenous albumin in the glomerular wall of proteinuric patients: An immuno-ultrastructural study. *Lab. Invest.* 62, 87A, 1990.

**BENDAYAN, M.** Immuno-gold post-embedding labeling for electron microscopy: technical procedures and potential limitations. *Proc. XII<sup>th</sup> Intern. Cong. Electron Microscopy*, 142-143, 1990.

GHITESCU\*, L. and **M. BENDAYAN**. Characterization of an optimal protein A-gold complex: Improvement of the labeling efficiency. *Proc. XII<sup>th</sup> Intern. Cong. Electron Microscopy*, 942-943, 1990.

DESJARDINS\*, M., GROS, F., WIESLANDER, J., GUBLER, M.C. and **M. BENDAYAN**. Immunocytochemical study of M1, M2\* and M3 monomers of type IV collagen in renal basement membranes of normal and experimentally diabetic rats. *Proc. Fifth Intern. Symp. Basement Membranes*, 4.3, 1990.

DESJARDINS\*, M. and **BENDAYAN, M.** Immunocytochemical study of renal basement membrane heterogeneity. *Proc. Fifth Intern. Symp. Basement Membranes*, 1.2, 1990.

DESJARDINS\*, M. and **BENDAYAN, M.** Immunocytochemistry of basement membranes during renal maturation. *Cell Biol. Intern. Rep.*, 14, 124, 1990.

RUSSO, P. and **M. BENDAYAN**. The distribution of endogenous albumin in the glomerular wall of proteinuric patients : An immuno-ultrastructural study. *Pediatric Nephrology*, 4, C61, 1990

ROCHETTE\*, C., **M. BENDAYAN**, C.C. ROY, R. MILNE, Y. MARCEL and E. LEVY. Both apo B-48 and apo B-100 are synthesized by human enterocytes and secreted in hepatic bile. *FASEB J.* 4, A697, 1990.

ARIAS\*, A.E. and **M. BENDAYAN**. Rat pancreatic acinar cells in culture : Maintenance and differentiation by secretagogues. *Pancreas*, 5, 699, 1990.

GINGRAS\*, D. and **M. BENDAYAN**. Differences in secretory granules content in pancreatic acinar cells from peri- and tele-insular regions as revealed by quantitative immunocytochemistry. *Pancreas*, 5, 708, 1990.

LACHAPELLE\*, M., A.E. ARIAS\* and **M. BENDAYAN**. Distribution and role of actin and keratin filaments during pancreatic acinar cell secretion. *Pancreas*, 5, 717, 1990.

GHITESCU\*, L. and **M. BENDAYAN**. Transendothelial passage of albumin. *J. Histochem. Cytochem.*, 39, 717, 1991.

STROMER, M.H. and **M. BENDAYAN**. Immunolocalization of intermediate filaments in smooth muscle cells. *J. Histochem. Cytochem.*, 39, 720, 1991.

GINGRAS, D., DESJARDINS\*, M., RUSSO, P. and **M. BENDAYAN**. Poly-L-lysine-gold probe for the detection of anionic sites in the glomerular wall during nephrogenesis and in pathological conditions. *J. Histochem. Cytochem.*, 39, 726, 1991.

DESJARDINS\*, M., GHITESCU\*, L. and **M. BENDAYAN**. Immunocytochemical study of renal handling of native, neutral and cationic albumin in mice. *J. Histochem. Cytochem.*, 39, 727, 1991.

GHITESCU\*, L., GALIS, Z. and **M. BENDAYAN**. Protein AG-gold complex: An alternative probe in immunocytochemistry. *J. Histochem. Cytochem.*, 39, 727, 1991.

**BENDAYAN, M.** Pathway of insulin upon its release by the pancreatic B-cell: Quantitative immunocytochemical study. *J. Histochem. Cytochem.*, 39, 727, 1991.

**BENDAYAN, M.** and I-S. PARK\*. Présence d'ilots de Langerhans extrapancreatiques dans la paroi duodénale de rat. *Médecine/Science* 7, Suppl. 1, 24, 1991.

ARIAS\*, A.E., BOLDICKE, T., HERMON-TAYLOR, J. and **M. BENDAYAN**. Inhibiteurs de trypsine dans les cellules acineuses pancréatiques en culture. *Médecine/Sciences*, 7, Suppl.1, 29, 1991.

PARK\*, I-S. and **M. BENDAYAN**. Characterization and distribution of endocrine cells in the pancreatic-bile duct system of the rat. *Pancreas*, 6, 725, 1991.

GINGRAS\*, D. and **M. BENDAYAN**. Compartmentalization of secretory proteins in pancreatic zymogen granules : Fact or artifact ? *Pancreas*, 6, 725, 1991.

**BENDAYAN, M.** Pathway of insulin upon its release by the pancreatic B-cell. *Pancreas*, 6, 725, 1991.

**BENDAYAN, M.** and I-S. PARK\*. Presence of extrapancreatic islets of Langerhans in the duodenal wall of the rat. *Pancreas*, 6, 726, 1991.

GHITESCU\*, L. and **M. BENDAYAN**. Quantitative immuno-cytochemical study of albumin transcytosis in continuous capillary. *J. Cell Biol.*, 115, 404a, 1991.

LIU, L., BARTH, R.F., TJARKS, W., SOLOWAY, A., IVES, D.H. and **M. BENDAYAN**. Cellular and biochemical studies on 2'-O-(o-carboranylmethyl) uridine (CBU-2'), a delivery agent for boron neutron capture therapy (BNCT). *Am. Ass. Cancer Res.*, 1992.

NISHIHARA, K., BARTH, R.F., LIU, L., TJARKS, W., SOLOWAY, A.H., STAUBUS, A.ER., ROTARU, J., ADAMS, D.M., **BENDAYAN, M.** and A. KASSIS. Direct intratumoral injection of 2'-O-(o-carboranylmethyl) uridine (CBU-2'), a potential delivery agent for boron neutron capture therapy (BNCT). *Am. Ass. Cancer Res.*, 1992.

LONDOÑO\* I., GHITESCU\*, L. and **M. BENDAYAN**. Ultrastructural localization of glucosylated-albumin in normal mouse renal tissue. *J. Histochem. Cytochem.*, 40, 593, 1992.

PARK\*, I.-S. and **M. BENDAYAN**. Developmental characteristics of the endocrine cells of the pancreatic duct system and their alterations in

diabetes. J. Histochem. Cytochem., 40, 597, 1992.

**BENDAYAN, M.** and I.-S. PARK\*. Extrapancreatic islets in the rat duodenal wall: Development and alteration in diabetes. J. Histochem. Cytochem., 40, 597, 1992.

GINGRAS\*, D. and **M. BENDAYAN**. Pancreatic zymogen granules: Compartmentalization and heterogeneity of their secretory proteins. J. Histochem. Cytochem., 40, 597, 1992.

GHITESCU\*, L. and **M. BENDAYAN**. Hapten-tagged proteins for the immunocytochemical study of vascular permeability. J. Histochem. Cytochem., 40, 598, 1992.

ARIAS\*, A.E., BOLDICKE, T., HERMON-TAYLOR, J. and **M. BENDAYAN**. Inhibiteurs de trypsine dans des cellules acineuses pancréatiques en culture. XI Congrès de l'AEGSFM, mars 1992.

**BENDAYAN, M.** and E. ZIV. Intestinal absorption of insulin in normal and diabetic conditions. Proc. Can. Fed. Biol. Soc., 35, 47, 1992

RUSSO, P., **BENDAYAN, M.** et D. GINGRAS\*. Utilisation de la poly-lysine-*o* pour la détection ultrastructurale des sites anioniques glomérulaires. Congrès de l'Association des Pathologistes du Québec, 1992.

**BENDAYAN, M.** and L. GHITESCU\*. Recent developments and applications of post-embedding quantitative immunocytochemistry. Histochem. J. 24, 468, 1992.

ARIAS\*, A.E. and **M. BENDAYAN**. Redifferentiation of pancreatic acinar cells into duct like cells. Mol. Biol. Cell, 3, 76a, 1992.

**BENDAYAN, M.** et E. ZIV. Absorption intestinale d'insuline chez le rat normal et diabétique. Médecine/Sciences, 8, Suppl. 2, 17, 1992.

RUSSO, P., **BENDAYAN, M.**, FILLIT, H. and M. CORRIVEAU. Ultrastructural localization of heparan sulfate proteoglycan in renal biopsies from idiopathic nephrosis. Ann. Meet. Soc. Ped. Pathol., 1993.

GINGRAS\*, D. and **M. BENDAYAN**. Compartmentalization and heterogeneity of secretory proteins in pancreatic zymogen granules. Proc. Can. Fed. Biol. Soc. 36, 79, 1993.

PARK\*, I-S., DRAGIN\*, N., KAN, F.W.K. and **M. BENDAYAN**. Immunocytochemical localization of insulin receptor in liver tissue. Proc. Can. Fed. Biol. Soc., 36, 120, 1993.

MALIDE\*, D., LONDONO\* I., RUSSO, P and **M. BENDAYAN**. DNA molecules in glomerular basement membrane immune deposits of human lupus nephritis, as revealed by colloidal gold cytochemistry. J. Histochem. Cytochem., 41, 1115, 1993.

LONDONO\*, I., GOMEZ-PASCUAL\*, A., GHITESCU\*, L., DESJARDINS\*, M. and **M. BENDAYAN**. Study of in vivo endocytic activity by renal epithelial cells. J. Histochem. Cytochem., 41, 1115, 1993.

ARIAS\*, A.E. and **M. BENDAYAN**. Intracisternal crystals in pancreatic acinar cells reveal defects in the distinct aggregation mechanism of secretory proteins. J. Histochem. Cytochem., 41, 1115, 1993.

ARIAS\*, A.E. and **M. BENDAYAN**. Intracisternal crystal in pancreatic acinar

cells reveal failures in distinct aggregation of secretory proteins. *Pancreas*, 8, 747, 1993.

ARIAS\*, A.E. and **M. BENDAYAN**. Induction of redifferentiation from pancreatic acinar cells into duct-like cells in vitro. *Pancreas*, 8, 748, 1993.

VELEZ-GRANELL\*, C., ARIAS\*, A.E., TORRES-RUIZ, J.A. and **M. BENDAYAN**. Involvement of chaperones in the secretory activity of pancreatic acinar cells. *Pancreas*, 8, 775, 1993.

VELEZ-GRANELL\*, C., ARIAS\*, A.E., TORRES-RUIZ, J.A. and **M. BENDAYAN**. Presence of molecular chaperones in pancreatic tissue. *Mol. Biol. Cell*, 4, 212a, 1993.

NEHRAN, M., GURBINDO, C., SEIDMAN, E., **BENDAYAN, M.**, DUHAIME, A., et E. LEVY. Synthèse et sécrétion des lipides et des lipoprotéines par les cellules CACO-2 en fonction du temps de culture. *Médecine/Sciences*, 9, suppl. 1, 25, 1993.

**BENDAYAN, M.** and D. GINGRAS\*. Effect of cryofixation and molecular distillation on immunolabeling of pancreatic secretory proteins. Proc. 21st annual meeting of the Microsc. Soc. Can., 1994.

MALIDE\*, D., SEIDAH, N.G. and **M. BENDAYAN**. Prohormone processing by convertases in insulin-secreting cells : Electron microscopy immunocytochemistry. *Proc. Can. Fed. Biol. Soc.*, 37, 80, 1994.

GUGLIUCCI\*, A. and **M. BENDAYAN**. Ultrastructural detection of advanced glycation end-products reaction sites in renal tissues from control and diabetic rats. *Proc. Can. Fed. Biol. Soc.*, 37, 80, 1994.

**BENDAYAN, M.**, VELEZ-GRANEL\*, C., ARIAS\*, A. and J.A. TORRES-RUIZ. Involvement of molecular chaperones in protein secretion. *Proc. Can. Fed. Biol. Soc.*, 37, 129, 1994.

**BENDAYAN, M.**, VELEZ-GRANEL\*, C., ARIAS\*, A.E., TORRES-RUIZ, J.A. and R. CALVERT. Involvement of chaperones in the secretory activity of various exocrine glands acinar cells. Proc. 13th Int. Congress Electron Microscopy, 359-360, 1994.

MALIDE\*, D. and **M. BENDAYAN**. cytochemical studies of the glomerular wall in lupus nephritis : Evidence for DNA molecules in immune deposits and synthesis of TNF $\alpha$  and IL-6 synthesis by mesangial cells. Euro-Conference in Autoimmune diseases. Paris sept. 1994.

LONDOÑO\*, I., GHITESCU, L. and **M. BENDAYAN**. Gold immunocytochemistry as applied to the study of renal glomerular permeability and epithelial reabsorption. II Cong. Mex. Microsc. Electr., SSB8, 1994

**BENDAYAN, M.**, MENINI\*, T., VELEZ-GRANELL\*, C., TORRES-RUIZ, J.A. et R. CALVERT. Implications des chapérones moléculaires dans le processus de sécrétion des glandes exocrines. *Médecine/Sciences*, 10, Suppl. 1, 29, 1994.

GUGLIUCCI\*, A. et **M. BENDAYAN**. Évidence ultrastructurale de la réactivité des produits de glycation avancés vis-à-vis du tissu rénal de rats normaux et de rats diabétiques. *Médecine/Sciences*, 10, Suppl. 1, 34, 1994.

MENINI\*, T. and **M. BENDAYAN**. HSP-70 is restricted to the Golgi apparatus of exocrine acinar cells. *Pancreas*, 9, 796, 1994.



RASIO, E., **BENDAYAN, M.** and C.A. GORESKY. Protein transport across the eel rete capillaries. *Int. J. Microcircul.*, 14, Suppl. 1, 110, 1994.

GUGLIUCCI\*, A. et **M. BENDAYAN.** Participation du système endo-lysosomal tubulaire dans la clairance rénale des produits de glycation avancée : étude immunocytochimique. *Diabète & Métabolisme*, 21, 6, 1995.

LONDONO\*, I. et **M. BENDAYAN.** Perméabilité glomérulaire et réabsorption tubulaire de l'albumine native et glyquée au niveau du rein de souris normale. *Diabète & Métabolisme*, 21, 34, 1995.

RASIO, E.A. and **M. BENDAYAN.** Transport of insulin and albumin through the eel rete capillaries. *Microcirculation*, 2, 89, 1995.

LONDONO\*, I. and **M. BENDAYAN.** Renal handling of native and glycosylated albumins by the normal mouse. *Proc. Microsc. Microanal.* 948-949, 1995.

GUGLIUCCI\*, A. and **M. BENDAYAN.** Immunocytochemical studies on the renal fate of circulating advanced glycosylated products. *Proc. Microsc. Microanal.* 946-947, 1995.

MENINI\*, T. and **M. BENDAYAN.** Molecular chaperones HSP-70 and BiP are present in the secretory pathway of exocrine glands. *Proc. Microsc. Microanal.* 896-897, 1995.

MENINI\*, T. and **M. BENDAYAN.** Involvement of the HSP-70 family of proteins in exocrine pancreatic secretion. *Mol. Biol. Cell.* 6, 187a, 1995.

LE GALL\*, I. and **M. BENDAYAN.** Association of HSP-60 with secretory proteins in pancreatic acinar cells. *Mol. Biol. Cell.* 6, 188a, 1995.

LONDONO\*, I. and **M. BENDAYAN.** Glomerular filtration and tubular epithelial endocytic reabsorption of native and glycosylated albumins. *Mol. Biol. Cell.* 6, 218a, 1995.

**BENDAYAN, M.** and E. RASIO. Transport of serum proteins through the rete mirabile microvascular endothelium. *Mol. Biol. Cell.* 6, 296a, 1995.

LEVY, E., SEIDMAN, E., GAROFALO, C., ROULEAU, T., DELVIN, E. and **M. BENDAYAN.** Apical and basolateral apolipoprotein trafficking in Caco-2 cells : Differential modulation by drugs affecting intracellular organelles. *Gastroenterology*, 110, A816, 1996.

INOUE, S. and **M. BENDAYAN.** Long-term experimental diabetes : Alterations in the glomerular basement membrane as observed with high resolution electron microscopy. *Matrix* 96, 20-21, 1996.

GUGLIUCCI\*, A., GINGRAS\*, D. and **M. BENDAYAN.** Localisation ultrastructurale des produits de glycation avancée dans le rein : effet de l'âge et du diabète. *Diabetes & Metabolism*, 22, 10, 1996.

**BENDAYAN, M.** and E.A. RASIO. Transport of serum proteins, differing in molecular weight, through the vascular endothelium of the rete mirabile. *J. Histochem. Cytochem.*, 44, 790, 1996.

GINGRAS\*, D. and **M. BENDAYAN.** Studies on rat pancreatic amylase synthesis and secretion by ultrastructural in situ hybridization and enzyme-gold cytochemistry. *Cell Vision, J. Anal. Morphol.*, 3, 252-253, 1996.

INOUE, S. and **M. BENDAYAN.** High-resolution ultrastructural study of glomerular basement membrane in experimental pathological conditions. *Cell*

Vision, *J. Anal. Morphol.*, 3, 254-255, 1996.

**BENDAYAN, M.** and E. RASIO. Transcapillary transport of insulin into the blood stream. *Int. J. Microcirc.* 16, Suppl. 1, 23, 1996.

RASIO, E., **BENDAYAN, M.** and C.A. GORESKEY. Specific sequential permeability changes during chronic hyperglycemia in the rete capillaries. *Int. J. Microcirc.* 16, Suppl. 1, 2218, 1996.

**BENDAYAN, M.** and E. RASIO. Transendothelial transport of serum proteins differing in their molecular weight, by the vascular bed of the rete mirabile. *Mol. Biol. Cell* 7, 665a, 1996.

MARSHANSKY, V., BOURGOIN, S., LONDOÑO, I., **BENDAYAN, M.**, and P. VINAY. ADP-ribosylation factor 6 (ARF6) is present in early endosomes and brush-border membrane of human and dog kidney proximal tubules. *J. Am. Soc. Nephrol.* 7, 1311, 1996.

ASTESANO, A., FERRAND, N., ARIMURA, A., **BENDAYAN, M.**, ROSSELIN, G. and S. EMAMI. Diversity of the transduction system expression in pancreatic A cells. 16th, Intern. Diab. Fed. Congress, 1997

EMAMI, S., ASTESANO, A., SHIMIZU, F., FERRAND, N., **BENDAYAN, M.**, and G. ROSSELIN. Functional and molecular characterization of B-cell G $\alpha$ olf gene using oligo antisense. 16th, Intern. Diab. Fed. Congress, 1997

**BENDAYAN, M.** and I. LONDOÑO. Structural and functional alterations of the glomerular basement membrane (GBM) in diabetic conditions. *Matrix Biol.*, 1997.

BERTELLI\*, E., BASTIANINI, A. and **M. BENDAYAN.** Appearance of intermediate acinar-endocrine cells upon rat pancreatic duct-ligation. 51<sup>st</sup> Cong. Soc. Ital. Anatomia, 1997.

BRUNEAU\*, N. and **M. BENDAYAN.** Absorption of pancreatic bile salt dependent lipase (BSDL) by the duodenal epithelium. *Mol. Biol. Cell*, 8, 301, 1997.

LONDOÑO, I., MARSHANSKY, V., BOURGOIN, S., VINAY, P. and **M. BENDAYAN.** Expression and distribution of ADP-ribosylation factors in rat kidney. *Mol. Biol. Cell*, 8, 91a, 1997.

MARSHANSKY, V., MARANDA, B., BOURGOIN, S., LONDOÑO, I., **BENDAYAN, M.** and P. VINAY. Role of ADP-ribosylation factors (ARF1 and ARF6) in regulation of receptor-mediated endocytosis in kidney proximal tubules. *Mol. Biol. Cell*, 8, 142a, 1997.

BERTELLI\*, E. and **M. BENDAYAN.** Apparition de cellules mixtes endocrine-exocrine lors de la ligature du canal pancréatique: Étapes dans une transdifférenciation cellulaire? XIII Réunion, Club Français du Pancréas, 1997.

BRUNEAU\*, N. and **M. BENDAYAN.** Participation de la Grp94 dans la sécrétion pancréatique de la BSDL et dans son internalisation par l'entérocyte. Journée Québécoise de la Recherche Fondamentale sur le Système Digestif. 1997.

REGOLI\*, M. and **M. BENDAYAN.** Alterations in the expression of the  $\alpha\beta 1$  integrin in glomerular tissue of diabetic rats. *J. Histochem. Cytochem.*, 46, A25, 1998.

MAYER\*, G., LEONE, R., HAINFELD, J.F. and **M. BENDAYAN.** The CARD approach

in immunocytochemistry: Introduction of a new probe using the Nanogold marker for light and electron microscopy. *J. Histochem. Cytochem.*, 46, A6, 1998.

MAYER\*, G. and **M. BENDAYAN**. Introduction of the biotinyl-tyramide to electron microscopy immunocytochemistry. 25<sup>th</sup> Annual meeting of the Microscopical Society of Canada, p.47, 1998.

MAYER\*, G. and **M. BENDAYAN**. The CARD approach in immunocytochemistry: Introduction of the biotinyl-tyramide protocol to electron microscopy. *J. Histochem. Cytochem.*, 46, A49, 1998.

BRUNEAU\*, N. and **M. BENDAYAN**. Participation of Grp94 related protein in secretion of pancreatic Bile Salt Dependant Lipase and in its internalization by the intestinal epithelium. *J. Histochem. Cytochem.*, 46, A19, 1998.

BRUNEAU\*, N., LOMBARDO, D. et **M. BENDAYAN**. Participation de la Grp94 dans la sécrétion de la lipase sels biliaires dépendante et dans son absorption par l'épithélium intestinal. Club d'Étude des Cellules Épithéliales Digestives Bruxelles, 1999.

BOUCHARD\*, P., GHITESCU, L. et **M. BENDAYAN**. Études de la perméabilité vasculaire des vaisseaux sanguins du système nerveux central au cours du diabète. Congrès de l'Association du Diabète du Québec. Québec, Novembre 1999.

LONDONO, I. and **M. BENDAYAN**. Evaluation of glomerular filtration and tubular reabsorption in early diabetes by quantitative immunocytochemistry. V InterAmerican Electron Microscopy Congress, Margarita Venezuela October 1999, on CD-ROM

DOUCET\*, M., LONDONO, I. and **M. BENDAYAN**. Glomerular basement membrane selective permeability in streptozotocin-induced diabetic rats. *J. Histochem. Cytochem.*, 47, 1646, 1999.

LONDONO, I and **M. BENDAYAN**. Transitory effect of circulating glycated albumin on glomerular filtration properties. *J. Histochem. Cytochem.*, 47, 1646, 1999.

GAROFALO, C., **BENDAYAN, M.**, THIBAUT, L., SLIGHT, I. and E. LEVY. Location of apolipoprotein B and MTP in both the endoplasmic reticulum (ER) and Golgi : Implications in lipoprotein assembly. *FASEB J.* 14, A451, 2000.

SLIGHT, I., **BENDAYAN, M.**, GAROFALO, C. and E. LEVY. Localisation du microsomal transfer protein (MTP) dans l'entérocyte. *ACFAS*, S-101, 2000.

BOUCHARD\*, P. ,GHITESCU, L. and **M. BENDAYAN**. Morphological and functional studies of the blood-brain-barrier during diabetes mellitus. Conference on Molecular Morphology, p. 6.8, Santa-Fe 2001

BRUNEAU, N., NGANGA, A., LOMBARDO, D. and **M. BENDAYAN**. Studies on the transcytosis of pancreatic bile salt dependent lipase (BSDL) through Int407 intestinal cells in tissue culture. Conference on Molecular Morphology, p.6.8, Santa Fe 2001.

BRUNEAU, N., LOMBARDO, D. and **M. BENDAYAN**. Studies on the transcytosis of pancreatic bile salt dependent lipase (BSDL) through intestinal epithelial cells in vivo and in vitro. II International Symposium on pediatric gastroenterology. Montreal, 2001.

LEJOSSEC, M., SUC, I., **BENDAYAN, M.**, MENARD, D., GENEST, J., GAROFALO, C., DENIS, M., SEIDMAN, E. and E. LEVY. Immunolocalization and functional role of scavenger receptor B1(SR-B1) and ATP-binding cassette A1 (ABC1). II International Symposium on pediatric gastroenterology. Montreal, 2001.

SLIGHT, I., **BENDAYAN, M.**, DELVIN, E., MALO, C., GAROFALO, C., MENARD, D. and E. LEVY. Distribution and expression of microsomal triglyceride transfer protein (MTP) within subcellular compartments of small intestine epithelial cells. II International Symposium on pediatric gastroenterology. Montreal, 2001.

STAN, S., LEVY, E., **BENDAYAN, M.** and E. DELVIN. Modulation of intestinal lipid transport by leptin. II International Symposium on pediatric gastroenterology. Montreal, 2001.

ZOLTOWSKA, M., SUC, I., DELVIN, E., **BENDAYAN, M.**, ALVAREZ, F., SEIDMAN E.G. and E. LEVY. Sterol metabolism in bile duct cells: modulation by insulin. II International Symposium on pediatric gastroenterology. Montreal, 2001.

LEE, G., **BENDAYAN, M.**, SCHLICHTER, L., PALLAPOTHU, M.K. and R. BENDAYAN. Expression of P-glycoprotein (P-gp) in rat brain microglial relevance to the treatment of HIV-1 infection in the brain. CAHR 2001.

LEE, G., **BENDAYAN, M.**, SCHLICHTER, L. and R. BENDAYAN. Novel cellular localization and functional expression of P-glycoprotein (P-gp) in teh central nervous system. AFPC, 2001.

PARK, I. S., **BENDAYAN, M.**, KIM B.M., LIM, J. K., SHIN, Y. J. and B. H. MIN. Clusterin expression in the process of pancreas regeneration of the pancreatectomized rats. Proc. Am. Diabetes Assoc. San Francisco 2001.

MAYER\*, G., BOILEAU, G and **M. BENDAYAN**. Expression of furin at the cell surface following in vivo gene delivery in mice. Mol. Biol. Cell 12, 347a, 2001.

**BENDAYAN, M.**, AO\*, Z., BAMRI\*, S., LONDONO, I., and D. GINGRAS. Apoptosis in diabetic glycogen nephrosis. Acta Histochem. Cytochem., 35, 234, 2002..

PASCARIU\*, M., **BENDAYAN, M.** and L., GHITESCU. Diabetes increases caveolin expression and transcytosis in endothelial cells of the lung microvasculature. Mol. Biol. Cell 13, 548a, 2002.

CIUBOTARIU\*, E., MENARD, D., **BENDAYAN, M.**, GAROFALO.C., DELVIN,E. and E., LEVY. Identification et fonction des récepteurs SR-B1 et SR-A1 dans l'intestin humain. Médecine/Science 19, Suppl. 2, 16, 2003.

LEBEL\*, SP. and **M. BENDAYAN**. Études structurales et fonctionnelles de la paroi glomérulaire chez des souris transgéniques. Médecine/Science, 19, Suppl. 2, 36, 2003.

PASCARIU\*, M., **BENDAYAN, M.** and L., GHITESCU. Surexpression de la cavéoline par les cellules endothéliales des capillaires pulmonaires au cours du diabète. Médecine/Science, 19, Suppl. 2, 47, 2003.

RONALDSON, P.T., PIQUETTE-MILLER, M., **BENDAYAN, M.** and R. BENDAYAN. Functional expression of P-glycoprotein in rat astrocytes cultures: Relevance to the treatment of HIV-1 infection in the brain. Am. Ass. Pharmaceut. Sci. Peachtree City GA, 2003.

RONALDSON, P.T., PIQUETTE-MILLER., M., **BENDAYAN, M.** and R. BENDAYAN.

Localization and functional expression of P-glycoprotein in rat astrocytes cultures: Relevance to the treatment of HIV-1 infection in the brain. AAPS Workshop, Toronto, 2003.

RONALDSON, P.T., GINGRAS D, PIQUETTE-MILLER M, **BENDAYAN M** and R. BENDAYAN. Localization and functional expression of P-glycoprotein in rat astrocyte cultures. **Poster Award**, Association of Faculties of Pharmacy of Canada, Montreal, 2003.

RONALDSON P.T., **BENDAYAN M.**, GINGRAS D. and R. BENDAYAN. Molecular expression and subcellular localization of P-glycoprotein (P-gp) in rat astrocyte cultures: Relevance to the treatment of HIV-1 infection in the CNS. Ontario HIV Treatment Network Research Day, Toronto, Ontario, 2003.

MARCI, V., MENARD, D., **BENDAYAN, M.**, SUC, I., DELVIN, E., BRISSETTE, L., THIBAUT, L., GAROFALO, C., CHARTRÉ, M. and E. LEVY. SR-B1 dans l'intestin: Localisation et fonction. Club de recherches cliniques du Québec, septembre 2003. Médecine/Sciences, 19, suppl. 2,34, 2003.

CIUBOTARIU, E., MÉNARD, D., **BENDAYAN, M.**, GAROFALO, C., DELVIN, E. et E. LEVY. La lignée cellulaire Caco-2 et un de ses clones, le Caco-2/15 : une analyse comparative pour l'état de différenciation cellulaire, du métabolisme et du transport des lipides. 71<sup>ème</sup> Congrès de l'ACFAS, 2003

PASCARIU\*, C, **BENDAYAN, M.** et L. GHITESCU. Surexpression de la cavéoline par les cellules endothéliales. 71<sup>ème</sup> Congrès de l'ACFAS 2003.

BOUCHER\*, E., MAYER\*, G. and **M. BENDAYAN**. Expression of glomerular membrane-type I metalloproteinase in renal tissue of diabetic rats. 12th Intern. Congress of Histochemistry, J. Histochem. Cytochem. 52, Suppl.1, S60, 2004.

LONDONO, I. and **M. BENDAYAN**. Glomerular handling of modified albumins in the normal rat kidney. 12<sup>th</sup> Intern. Cong Histochemistry, J. Histochem. Cytochem. 52, Suppl.1, S56, 2004.

CLOUTIER\*, M., GINGRAS, D. and **M. BENDAYAN**. Internalization of pancreatic enzymes by the intestinal mucosa. 12<sup>th</sup> Intern. Congress of Histochemistry, J. Histochem. Cytochem. 52, Suppl.1, S55, 2004.

GINGRAS, D. and **M. BENDAYAN**. Evaluation of pancreatic amylase synthesis and secretion through molecular morphology. 12<sup>th</sup>. Intern. Congress of Histochemistry, J. Histochem. Cytochem. 52, Suppl.1, S59, 2004

BENDAYAN, R., RONALDSON, P.T., LEE, G., GINGRAS, D. and **M. BENDAYAN**. Localization of P-glycoprotein (ABCB1, Pgp) in brain cellular and subcellular compartments. 12<sup>th</sup>. Intern. Congress of Histochemistry, J. Histochem. Cytochem. 52, Suppl.1, S58, 2004.

RENAUD\*, C., GINGRAS, D., DELVIN, E., LEVY, E. and **M. BENDAYAN**. Exocrine secretion of leptin by the gastric mucosa: Existence of a functional gastro-enteric axis. 12<sup>th</sup>. Intern. Congress of Histochemistry. J. Histochem. Cytochem. 52, Suppl.1, S55, 2004

**BENDAYAN, M.** Internalisation des enzymes pancréatiques par la muqueuse intestinale. 72<sup>ème</sup> Congrès de l'ACFAS, 2004.

**BENDAYAN, M.**, RENAUD\*, C., GINGRAS, D., DELVIN, E. and E. LEVY. A gastro-enteric axis for the exocrine secretion of gastric leptin. NAASO, 2004. Obesity, 12, A178, 2004.

PERETTI, N., **BENDAYAN, M.**, MENARD, D., DELVIN, E., MARCIL, V., SEIDMAN, E. and E. LEVY. Developmental and functional characteristics of SR-B1 in the human intestine. 2<sup>nd</sup> World Congress Pediatric Gastroenterology, Paris 2004.

PERETTI, N., MARCIL, V., **BENDAYAN, M.**, MENARD, D., DELVIN, E., SEIDMAN, E. and E. LEVY. Le récepteur SR-B1 est-il modulé au niveau intestinal ? Médecine Sciences 20, A159, 2004.

**BENDAYAN R**, RONALDSON PT, GINGRAS D and **M. BENDAYAN**. Cellular localization of P-glycoprotein (P-gp) in rat astrocytes. Gordon Research Conferences Barriers of the Central Nervous System, Tilton NH, 2004.

MONTOUDIS, A., DELVIN, E., MÉNARD D., **BENDAYAN M.**, BEAULIEU, J.F., GAROFALO, C. et LEVY, E. Implication du I-FABP dans le transport intestinal des lipides et des lipoprotéines Société Québécoise de Lipidologie et Nutrition, Quebec, Medecine Science 21, IV, 2005

CAMMISOTTO\*, P.G., RENAUD\*, C., GINGRAS, D., DELVIN, E., LEVY, E. et **BENDAYAN, M.** Sécrétion endocrine et exocrine de leptine par la muqueuse de l'estomac. Société Québécoise de Lipidologie et Nutrition, Quebec, Médecine Science, 21, XII, 2005

SANÉ, A.T., MARCIL, V., SINNETT, D., DELVIN, E., **BENDAYAN, M.**, MÉNARD, D., BEAULIEU, J.F., ET LEVY, E. Niemann-Pick C1 Like 1 (NPC1L1) et le transport de cholestérol. 47<sup>e</sup> réunion du Club de Recherches Cliniques du Québec, Bromont , 2005.

**BENDAYAN M**, CAMMISOTTO\* PG, RENAUD\* C, GINGRAS D, DELVIN E. ET LEVY E. Sécrétion endocrine et exocrine de la leptine par la muqueuse gastrique. 3<sup>e</sup> colloque du réseau mère-enfant de la Francophonie, juin 2005, Genève.

CAMMISOTTO\*, P.G., GINGRAS, D. et **M. BENDAYAN**. Exocrine secretion of leptin-leptin receptor complex by the gastric mucosa. Research topics in GI disease V. 5<sup>th</sup> Meeting, Can. Soc. Gastroenterol., King City, Ontario, 2005.

CAMMISOTTO\*, P.G., RENAUD\*, C., GINGRAS, D., DELVIN, E., LEVY, E. et, **M. BENDAYAN**. Sécrétion exocrine et endocrine de leptine par la muqueuse gastrique. Diabète Québec, Novembre 2005.

CAMMISOTTO\*, P.G., GINGRAS, D., RENAUD\*, C., LEVY. E. and **M. BENDAYAN**. Sécrétion simultanée de la leptine associée à son récepteur par la muqueuse gastrique. 4<sup>e</sup> Symposium Physiopathologie digestive, Orford 2005.

LEVY, E., SANE, A.T., SINNETT, D., DELVIN, E., **BENDAYAN, M.** and D. MENARD. Vers une compréhension du transport intestinal du cholestérol, sa relation avec l'athérosclérose et les traitements potentiels. 4<sup>e</sup> Symposium Physiopathologie digestive. Orford, 2005.

BENDAYAN, R., RONALDSON, P.T. and **M. BENDAYAN**. In situ localization of P-glycoprotein (ABCB1) in human and rat brain. Selected poster. American Association of Pharmaceutical Scientists. Nashville, TN, 2005.

CAMMISOTTO\*, P.G., LONDONO, I., GINGRAS, D., et **M. BENDAYAN**. Rôle de l'AMP Kinase et de l'adiponectine dans les néphropathies à glycogène chez le rat diabétique. Médecine Sciences 22, VII, Congrès de Lipidologie, Québec Avril 2006.

MONTOUDIS, A., DELVIN, E., MENARD, D., **BENDAYAN, M.**, BEAULIEU, J.F., GAROFALO, C. et E., LEVY. Implication di I-FABP dans le transport intestinal des acides gras vers les organelles cellulaires. Médecine

Sciences 22, XV, Congrès de Lipidologie, Québec Avril 2006.

SANE, A.T., MARCIL, V., SINNETT, D., DELVIN, E., **BENDAYAN, M.**, MENARD, D., BEAULIEU, J.F., et E. LEVY. Niemann-Pick C1 like 1 (NPC1L1) et le transport intestinal du cholestérol. Médecine Sciences 22, XIX, Congrès de Lipidologie, Québec Avril 2006.

SCHERZER, P., KATALAN, S., GOT, G., PIZOV G., **BENDAYAN, M.** and E., ZIV. Developing complications of nephropathy in the Psammomys, an animal model of diabetes type 2. 23rd Annual Meeting Israel Diabetes Association, 43, 2006

**BENDAYAN, M.** and P., CAMMISOTTO\*. Different pathways for leptin secretion by adipose tissue and the gastric mucosa: implication on energy homeostasis. NAAO 2006 Obesity, 863-LP, Boston, 2006.

SCHERZER, P., KATALAN, S., GOT, G., PIZOV G., **BENDAYAN, M.** and E., ZIV. Developing complications of nephropathy in the Psammomys, an animal model of diabetes type 2. J. Amer. Soc. Nephrol. 17, 396A, 2006.

KATSETOS, C.D., DE CHADAREVIAN, J.P., REDDY, G., DEL VALLE, L., LEGIDO, A., DRABER, P. and M. **BENDAYAN**. High-resolution immunolocalization of tubulin in human glioblastoma cell lines by electron microscopy. Annals Neurology 60 (Suppl. 3), S121, 2006

SANE, A.T., SINNETT, D., DELVIN, E., **BENDAYAN, M.**, MARCIL, V., MENARD, D. and E. LEVY. Lumière sur le processus d'absorption du cholestérol par le petit intestin: nouveaux gènes candidats. 5<sup>e</sup> Symposium Physiopathologie digestive, Sherbrooke, 2006.

CAMMISOTTO\*, P.G., PORQUET\*, N., GINGRAS, D. and M. **BENDAYAN**. Parallel vs non-parallel secretion of leptin, pepsinogen and lipase by gastric mucosa Chief cells in various mammalian species. 6th Meeting, Can. Soc. Gastroenterol., KingCity Ont. 2006.

**BENDAYAN, R.**, RONALDSON P.T., BABAKHANIAN K., and **M. BENDAYAN**. In Situ Localization of P-glycoprotein (P-gp; ABCB1) in human and rat brain. Selected poster Gordon Research Conference <Barriers of the Central Nervous System>, Tilton, NH, 2006.

SHIMONY, N., **BENDAYAN, M.**, ELKIN, G., EL-LATIF, M., OPPENHEIM, A. and Y.S. HAVIV. Targeting Pancreatic Islets with SV40. 5<sup>th</sup> Conference Israel Society Gene Therapy, Tel Aviv April 2007

SCHERZER, P., KATALAN, S., GOT, G., PIZOV, G., LONDONO, I., POPOVTZER, M., ZIV, E. and **M. BENDAYAN**. Nephropathy complications in the Psammomys Obesus, an animal model of diabetes type 2. Israel Society of Nephrology, Tel Aviv, March 2007.

CAMMISOTTO\*, P.G., LONDONO, I., GINGRAS, D. and **M. BENDAYAN**. AMPK activation by adiponectin in renal tubules of control and diabetic rats. Experimental Biology 2007. FASEB J. 21:866.2, 2007

**BENDAYAN, M.**, ZIV, E., LONDONO, I., KATALAN, S., GOT, G., PIZOV, G. and P. SCHERZER. Nephropathy complications in the hyperglycaemic Psammomys obesus, an animal model for type 2 diabetes. Experimental Biology 2007. FASEB J. 21:866.3, 2007

SANE, A., SEIDMAN, E., **BENDAYAN, M.**, GAROFALO, C., PERETTI, N., DELVIN, E., MENARD, M., and E. LEVY. Does a relation exist between scavenger receptor B1 and intestinal cholesterol absorption, membrane raft microdomains,

apoptotic enterocytes and Niemann-Pick C1-like 1 (NPC1L1) transporter ? 3<sup>rd</sup> Intern. Sympos. Gastroenterol. Montreal, 2007.

RAVID\*, Z., **BENDAYAN, M.**, SPAHIS, S., ZIV, E., DELVIN, E., SEIDMAN, E. and E. LEVY. Substantial contribution of dietary glucose to intestinal lipoprotein secretion and postprandial lipids in insulin resistance and diabetes type 2. 3<sup>rd</sup> Intern. Sympos. Gastroenterol. Montreal, 2007.

(275)

LONDONO, I., ACEVEDO, L.M., GHITESCU, L. and **M. BENDAYAN**. Changes in renal glomerular CD34 expression with age and diabetes. Experimental Biology 2007. FASEB J. 21: LB321, 2007

**BENDAYAN, M.**, LONDONO, I., GINGRAS, D., RUDERMAN, N. and M. PRENTKI. Association of AMP kinase  $\beta$ 2 subunit with glycogen particles as revealed by immunoelectron microscopy. Experimental Biology 2007. FASEB J. 21:LB322, 2007

GINGRAS, D., GHITESCU, L.D. and **M. BENDAYAN**. Amadori products and Advanced Glycated End-products in glomerular tissues of short- and long-term diabetic animals. Experimental Biology 2007. FASEB J. 21:LB320, 2007

CAMMISOTTO\*, P.G., GINGRAS, D. and **M. BENDAYAN**. Exocrine secretion of the leptin-leptin receptor complex by the gastric mucosa. Experimental Biology 2007. FASEB J. 21:A367.6, 2007

ACEVEDO\*, L.M., LONDONO, I., GHITESCU, L. y **M. BENDAYAN**. Inmunolocalización ultraestructural del CD34 en tejido renal de ratas normales y diabéticas a diferentes edades. LXII Convención anual de la Asociación Venezolana para el Avance de la Ciencia. San Cristó, Venezuela, noviembre 2007. Acta Científica Venezolana 58:516, 2007

ELCHEBLY, M., **BENDAYAN, M.**, SPAHIS, S., ZIV, E., DELVIN, E., SEIDMAN, E. and E. LEVY. Substantial contribution of dietary glucose to intestinal lipoprotein secretion and postprandial lipids in insulin resistance and diabetes type 2. 3<sup>rd</sup> International Symposium on Pediatric Gastroenterology, Montreal, 2007.

SHIMONY, N., **BENDAYAN, M.**, ELKIN, G., BEN-NUN-SHAUL, O., ABD-EL-LATIF, M., SCHERZER, P., ARBEL, O., ZIV, E., KRASNY, L., PIZOV, G., OPPENHEIM, A. and Y.S. HAVIV. Kidney and pancreatic gene therapy, Israeli Society of Nephrology and Hypertension, 2007.

SHIMONY, N., **BENDAYAN, M.**, ELKIN, G., BEN-NUN-SHAUL, O., ABD-EL-LATIF, M., SCHERZER, P., ARBEL, O., ZIV, E., KRASNY, L., PIZOV, G., OPPENHEIM, A. and Y.S. HAVIV. Pancreatic islet targeting. Israeli Society of Gene Therapy, Haifa, Israel, 2007.

SCHERZER, P., KATALAN, S., GOT, G., PIZOV, G., LONDONO, I., POPOVTZER, M., ZIV, E. and **M. BENDAYAN**. Nephropathy complications in the hyperglycaemic Psammomys obesus, an animal model for type 2 diabetes ? Nexus Symposium, Diabetes & Kidney, Dublin, Ireland, 2008.

PRECOURT, L.P., **BENDAYAN, M.**, DELVIN, E., LEBLOND, F., AMRE, D., SEIDMAN, E., SINNETT, D. and E. LEVY. Les paraxonases 1, 2, 3, sont distinctement modulées par le stress oxydant et l'inflammation. 9<sup>e</sup> Congrès Soc. Québécoise Lipidologie, Montréal 2008.

CAMMISOTTO\*, P., SANE, A.T., LEBLOND, F., GAROFALO, C., LALONDE, G., PRECOURT, L.P., **BENDAYAN, M.** and E. LEVY. Mécanisme de transport de la leptine au travers d'une monocouche de cellules intestinales humaine Caco-



2. 9<sup>e</sup> Cong. Soc. Québ. Lipidologie, Montréal 2008.

RAVID\*, Z., **BENDAYAN, M.** and E. LEVY. Régulation du transport du cholestérol par le glucose dans les enterocytes. 9<sup>e</sup> Congrès Soc. Québécoise Lipidologie, Montréal, 2008.

CAMMISOTTO\*, P., SANE, A., LEBLOND, F., GAROFALO, C., LALONDE, G., PRECOURT, L.P., **BENDAYAN, M.**, and E. LEVY. Transcytosis of gastric leptin through duodenal mucosa: Role of apical membrane receptor. 8<sup>th</sup> Meeting of the Canadian Association of Gastroenterology. Toronto, 2008.

CHAN, G.N.Y., ZASTRE, J., RAMASWAMY, M., **BENDAYAN, M.** and R. BENDAYAN. Upregulation of the efflux drug transporter, P-glycoprotein (P-gp), by HIV protease inhibitors (PIs), in a human brain microvessel endothelial cell line. Ontario HIV Treatment Network, Toronto, ON. 2008.

CHAN, G.N.Y., ZASTRE, J., RAMASWAMY, M., **BENDAYAN, M.** and R. BENDAYAN. Upregulation of the efflux drug transporter, P-glycoprotein (P-gp), by HIV protease inhibitors (PIs), in a human brain microvessel endothelial cell line. IXth World Conference on Clinical Pharmacology and Therapeutics, Québec, 2008.