

## Ranan Gulhan Aktas, M.D.

### Associate Professor of Histology & Embryology

#### PERSONAL DETAILS

Date / Place of Birth : April 11, 1966 / Ankara, Turkey

Nationality: Republic of Turkey

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#### EDUCATION

Degree	Faculty /Department	University	Date
University	Medicine	Hacettepe University	1988
Master	Medicine	Hacettepe University	1990
Doctorate/Specialist degree	Histology & Embryology	Trakya University	1998
Associate Professor	Histology & Embryology	Zonguldak Karaelmas University	2002

#### ACADEMIC POSITIONS

Position	University	Years
Resident	Faculty of Medicine, Trakya University, Edirne, TURKEY	1994-1998
Fellow	Oregon Health Science University, Portland, OR, USA	1996-1997
Specialist	Faculty of Medicine, Trakya University, Edirne, TURKEY	1998-1999
Instructor	Faculty of Medicine, Trakya University, Edirne, TURKEY	1999-2001
Instructor	Faculty of Medicine, Baskent University, Ankara, TURKEY	2001
Postdoctoral Fellow	University of Missouri, Columbia, MO, USA	2001-2002
Assistant professor	Faculty of Medicine, Zonguldak Karaelmas University, Zonguldak, TURKEY	2002-2003
Associate professor	Faculty of Medicine, Zonguldak Karaelmas University, Zonguldak, TURKEY	2003-2007
Associate professor	Assisted Reproductive Technologies Center, Zeynep Kamil Women and Children Diseases Hospital, TURKEY	2007-2010
Associate professor	Faculty of Medicine, Koc University	2010-2013
Associate professor	Faculty of Medicine, Maltepe University	2013-2014
Professor	Faculty of Medicine, Maltepe University	2015-

## POSITIONS HELD

- **Professor**, Maltepe University, School of Medicine, 2015-
- **Director, Cancer na Stem Cell Research Center**, Maltepe University, 2014-
- **Associate Professor**, Maltepe University, School of Medicine, 2013-
- **Associate Professor**, Koc University, School of Medicine, 2010-2013
- **Director of Embryology and Andrology Laboratories**, Assisted Reproductive Technologies Center, Zeynep Kamil Women and Children Diseases Education and Research Hospital, Istanbul, Turkey, 2007-2010
- **Chairman**, Department of Histology and Embryology, Zonguldak Karaelmas University, Zonguldak, Turkey, 2003-2007
- **Coordinator of Class II**, School of Medicine, Zonguldak Karaelmas University, Zonguldak, Turkey, 2003-2006
- **Chairman**, Division of Basic Medical Sciences, Zonguldak Karaelmas University, Zonguldak, Turkey, 2003
- **Vice President**, Health Sciences Institute, Zonguldak Karaelmas University, Zonguldak, Turkey, 2003
- **Assistant Professor**, Department of Histology & Embryology, Zonguldak Karaelmas University, Zonguldak, Turkey, 2003
- **Postdoctoral Fellow**, Department of Division of Biological Sciences, University of Columbia, Missouri, USA, 2001-2002
- **Instructor**, Department of Histology & Embryology, Baskent University, Ankara, Turkey, 2001
- **Instructor**, Department of Pathology, Trakya University, Edirne, Turkey, 1999-2001
- **Resident**, Department of Histology & Embryology, Trakya University, Edirne, Turkey, 1994-1998
- **General Practitioner**, Edirne, Turkey, 1990-1994.

## ACADEMIC AND PROFESSIONAL ACTIVITIES

- **Member of International Affairs Committee, The American Society for Cell Biology**, 2012-
- **Graduate Student Admission Committee, Koc University**, 2012-2013
- **Member of Executive Committee of Health Sciences Institute, Koc University**, 2010-2013
- **Member of Ethical Committee**, Experimental Animals & Research Department, Zonguldak Karaelmas University, Zonguldak, Turkey, 2003

- **Member of Editorial Board**, Zeynep Kamil Medical Bulletin, 2007-
- **Member of Editorial Board**, Mediform Zonguldak Karaelmas University, Zonguldak, Turkey, 2003-
- **Member of Advisory Board**, Journal of Medical Sciences, 2007-

## **THESIS**

Examination of the light & electron microscopic effects of Cyclosporin-A on rats which were given at different doses and combinations

## **PROJECTS**

- Can Differentiated Liver Cancer Cells be a Good Model for Bioartificial Liver Stds,es?, 2015-
- Mechanobiology of Liver: Correlation between Material Properties and Morphology, 2013
- Effect of Preservation Time and Fluid on Rheological Properties of Liver, 2012
- Study of Localization and Movement of ApolipoproteinB in Cells Using Light and Electron Microscopy, 2002.
- The Mechanisms of the Secretion of Renin from Juxtglomerular Cells: An Ultrastructural Study, 2001.
- The Importance of the Ultrastructural Changes of Peritubular Capillary Basal Membranes on the Diagnosis and Pathogenesis of Chronic Rejection, 2001.
- Classification of the Lung Tumors at Light Microscopic, Immunohistochemical and Electron Microscopic Level, 2000.
- The Effects of Deferroxamine and Erythropoietin on Experimental Acute Renal Failure, 2000.

## **PROFESSIONAL ORGANIZATIONS**

- European Microscopy Society
- Turkish Association of Medical Doctors
- Turkish Association of Histology and Embryology
- Turkish Electron Microscopy Society
- Pacific Northwest Electron Microscopy Society

- Microscopy Society of America
- The American Society for Cell Biology
- International Affairs Committee of The American Society for Cell Biology
- Society of Clinical Embryology
- Turkish Stem Cell and Cellular Therapies Association

## **TEACHING EXPERIENCE**

- Maltepe University, School of Medicine, Graduate and Postgraduate Level Courses
- Koc University, School of Medicine, Graduate and Postgraduate Level Courses
- Assisted Reproductive Technologies Center, Zeynep Kamil Women and Children Diseases Hospital, Uskudar, Istanbul, Turkey, Postgraduate Level Courses
- Karaelmas University, Zonguldak, Turkey, Graduate and Undergraduate Level Courses
- Trakya University, Edirne, Turkey, Graduate Level Courses

## **AWARDS**

- International Travel Award, The American Society for Cell Biology and International Federation of Cell Biology Meeting, December 6-10 2015, Philadelphia, USA
- 3rd Cerrahpasa Science Days, 2nd Best Poster Award, 8-9 March, 2014, Istanbul, Turkey
- 21th National Congress of Electron Microscopy Meeting, , with International Participation, Best Poster Award, 19-21 May 2013, Mersin, Turkey
- 19th International Congress of Electron Microscopy, Assistant Professor Mustafa Ozerler Microphotography Award, 22-25 June 2009, Trabzon, Turkey
- 38th Congress of the European Renal Association European Dialysis and Transplant Association, Outstanding Scientific Study Award, 23-27 June 2001, Vien, Avusturia.
- 37th Congress of the European Renal Association European Dialysis and Transplant Association, Outstanding Scientific Study Award, 17-20 September 2000, Nice, France.
- 12th European Electron Microscopy Congress, EUREM Young Participant Award, 9-14 July 2000, Brno, Czech Republic.
- XVII. National Nephrology, Hipertension, Dialysis and Transplantation Meeting, Best Oral Presentation Award, 5-8 June 2000, Istanbul, Turkey

- Microscopy&Microanalysis, 1999, Annual Meeting. Fellowship Award for the Scientists from Developing Countries, 5 August 1999, Portland, Oregon, U.S.A.
- 4th National Meeting of Histology and Embryology, Best Poster Award, 8-11 September 1998, Diyarbakir, Turkey.

## PUBLICATIONS

### A. INTERNATIONAL PUBLICATIONS

- A1. Ayyildiz M, **Aktas RG**, Basdogan C. Effect of solution and post-mortem time on mechanical and histological properties of liver during cold preservation. *Biorheology*. 51(1): 47-70 (2014).
- A2. Yarpuzlu B, Ayyildiz M, Tok OE, **Aktas RG**, Basdogan C. Correlation between the Mechanical and Histological Properties of Liver Tissue. *J Mech Behav Biomed Mater*. 29:403-16 (2014).
- A3. **Aktas RG**, Kayton RJ, Caglar M, Oktayer G. Comparative Quantitative Analysis of Immunogold Labeling Density for Basic Fibroblast Growth Factor According to the Activational Stages of Mast Cells. *Anal Quan Cytol Histol*. Accepted (2013).
- A4. **Aktas RG**, Kayton RJ. Ultrastructural Immunolocalization of Basic Fibroblast Growth Factor in Endothelial Cells: Morphologic Evidence for Unconventional Secretion of a Novel Protein. *J Mol Histol*, 42(5):417-25 (2011).
- A5. **Aktas RG**, Karabay G, Taskinalp O, Kutlu AK. Electron Microscopic Evaluation of the Secretory Mechanisms of Renin from Juxtaglomerular Cells. *Int J Morphol*, 28(3):723-728 (2010).
- A6. Tug N, Altunkaynak ME, **Aktas RG**, Kilic U, Yilmaz B, Cam C, Karateke A. Does Erythropoietin Affect Motility Of Spermatozoa? *Archives Of Gynecology and Obstetrics*. 281(5):933-8 (2010).
- A7. **Aktas RG**, Aktas S, Yazgan O, Altaner S. The Effects of Long Term-Low Dose Cyclosporin-A Treatment on Muscles and Tendons: An Experimental Study. *Turkish Journal of Trauma and Emergency Surgery*. 15(4): 317-23 (2009).
- A8. Kosif R, **Aktas G**. Investigation of the effects of Aloe Barbadensis on Rat Ovarium: A Preliminary Study. *J Med Food*. 12(6), 1393-7 (2009).
- A9. Kosif R, **Aktas G**, Oztekin A. Microscopic Examination of Placenta of Rats Prenatally Exposed to Aloe barbadensis: A preliminary study. *Int. J. Morphol*. 26(2): 275-81 (2008).
- A10. Sayan H, Ozacmak VH, Altaner S, **Aktas RG**, Arslan SO. Protective effects of L-arginine on rat terminal ileum subjected to ischemia/reperfusion. *J Pediatr Gastroenterol Nutr*. Jan;46(1):29-35 (2008).
- A11. Sayan H, Ozacmak VH, Guven A, **Aktas RG**, Ozacmak Erythropoietin stimulates wound healing and angiogenesis in mice. *J Invest Surg*. 19(3):163-73 (2008).
- A12. Durmus-Altun G, Altun A, **Aktas RG**, Salihoglu YS, Yigitbasi NO. Use of iodine-123 metaiodobenzylguanidine scintigraphy for the detection of amiodarone induced pulmonary toxicity in a

rabbit model: a comparative study with technetium-99m diethyltriaminepenta acetic acid radioaerosol scintigraphy. *Ann Nucl Med.* May;19(3):217-24 (2005).

A13. Ozacmak VH, Sayan H, Arslan SO, Altaner S, **Aktas RG**. Protective effect of melatonin on contractile activity and oxidative injury induced by ischemia and reperfusion of rat ileum. *Life Sci.* Feb 18;76(14):1575-88.(2005).

A14. Sayan H, Ozacmak VH, Ozen OA, Coskun O, Arslan SO, Sezen SC, **Aktas RG**. Beneficial effects of melatonin on reperfusion injury in rat sciatic nerve. *J Pineal Res.* Oct;37(3):143-8(2004).

A15. Kiyici H, Demirhan B, Ozdemir BH, **Aktas G**, Karabay G, Haberal M. Significance of peritubular capillary basement membrane multilamellation in diagnosis of chronic allograft nephropathy. *Tranplant Proc* 35(7), 2643-2644 (2003).

A16. Kayton RJ, **Aktas RG**. Electron Microscopic Immunolocalization of Basic Fibroblast Growth Factor-Like Molecules in Peripheral Nerves. *Histochem Cell Biol* 114, 413-419 (2000).

A17. O. Taskinalp, **Aktas RG**, Cigali BS, Kutlu K. Immunohistochemical Demonstration of Cytochrome Oxidase in Different Parts of Central Nervous System: A Comparative Experimental Study. *Anat Histol Embryol* 29, 345-349 (2000).

A18. **Aktas RG**, Kayton RJ. Ultrastructural Immunolocalization of Basic Fibroblast Growth Factor in Fibroblasts and Extracellular Matrix. *Histochem Cell Biol* 113, 227-233 (2000).

A19. Kayton RJ, **Aktas RG**. Blister Artifact Formation Due to Organic Solvent Effects on Spurr's Epoxy Resin Semi-thin Sections. *Biotechnic&Histochemistry* 73(3), 157-163 (1998).

## **B. INTERNATIONAL PRESENTATIONS**

B1. **Aktas RG**. Can a Cancer Cell Turn Into a Normal Cell? *JOP. J Pancreas (Online)* 2014 Sep 28; 15(5):539, 2014.

B2. **Aktas RG**, Tok OE. Expression Patterns of F-Actin and Nanog, an embryonic stem cell marker, in monolayer and spheroid culture of human liver carcinoma cell line .The American Society for Cell Biology and International Federation of Cell Biology Meeting Abstracts, *Mol Biol Cell*, 2014.

B3. **Aktas RG**, Onder TB. Changes on The Expression of 84 Key Genes Involved In The Progression Of Hepatocellular Carcinoma During Differentiation of HepG2 Cells. The American Society for Cell Biology 51st Annual Meeting Abstracts, *Mol Biol Cell* 25, (1652), 2013.

B4. Karahuseyinoglu S, Sargin AK , **Aktas RG**, Verit FF, Yalcinkaya S, Yucel O. Differential Distribution Of bFGF and bFGF Receptors In Human Cumulus Granulosa Cells Of Poor, Normal And Over Responder IVF Patients. Accepted. 69<sup>th</sup> The American Society For Reproductive Medicine Annual Meeting, Boston, MA, USA, October 12-17 2013.

B5. Sargin AK, Karahuseyinoglu S, **Aktas RG**, Zebitay AG, Yalcinkaya S, Yucel O. Cumulus Granulosa Cells Of Poor, Normal And Over Responder IVF Patients Have Disparities In Organization Of Cytoplasmic Organelles: A Confocal Microscopic Study. Accepted. 69<sup>th</sup> The American Society For Reproductive Medicine Annual Meeting, Boston, MA, USA, October 12-17 2013.

B6. **Aktas RG**, Karahuseyinoglu S, Tok OE, Karabork M, Yucel D. Actin distribution in HepG2 cell-spheroids: A fluorescence microscopic study. The American Society for Cell Biology 51st Annual Meeting, Mol Biol Cell, 23 (24): 4663/536, 2012

B7. **Aktas RG**, Guven A, Ozacmak HS, Ozacmak VH, Ickin M, Tok OE, Oktayer AG. Mechanisms of the effects of Erythropoietin in wound healing: A morphologic study. The American Society for Cell Biology 51st Annual Meeting, Mol Biol Cell, 23 (24): 4663/2058, 2012

B8. **Aktas RG**, Karahuseyinoglu S, Karabork M, Tok OE, Yucel D. Mito Tracker labeling in HepG2 Cell Cultures: Influence of different staining techniques on the morphology of mitochondria. The American Society for Cell Biology 51st Annual Meeting, Mol Biol Cell, 23 (24): 4663/2195, 2012

B9. Karabork M, Kavgaci U, Tok OE, Lack N, **Aktas RG**. Relationship between the expression of F-Actin and Nanog, an embryonic stem cell gene, in prostate cancer cells. The American Society for Cell Biology 51st Annual Meeting, Mol Biol Cell, 23 (24): 4663/3029, 2012

B10. **Aktas RG**, Ozdemir AA, Tok OE, Karahisarli B. Success rate of surgical sperm retrieval in 47,XXY Klinefelter syndrome: a study of 38 azoospermic Turkish patients. Annual Meeting of European Society of Human Reproduction and Embryology. 1-4 July, 2012, Istanbul, Turkey, P049, 2012.

B11. Ozdemir AA, **Aktas RG**, Tok OE. Success rate of different surgical methods for sperm retrieval: a study of 211 azoospermic Turkish patients with normal karyotype. Annual Meeting of European Society of Human Reproduction and Embryology. 1-4 July, 2012, Istanbul, Turkey, P044, 2012.

B12. **Aktas RG**, Ercan F, Altaner S (2011). Light and Electron Microscopic Examination of The Effects of Long Term-Low Dose CyclosporinA (CsA) and Its Combination with Prednisolone on Hematopoietic Cells. Mol Biol Cell 22, 4705 (1223).

B13. **Aktas RG**, Altaner S, Atasever A. Histopathologic Examination of the Effects of Long Term-Low Dose Cyclosporin A Therapy: Does Prednisolone Prevent Its Side Effects? International Journal of Experimental and Clinical Anatomy, Volume 5, Supplement, S136, 2011.

B14. **Aktas RG**. Visualization of Four Different Cell Membrane Associated Proteins on Epithelial Cells of Ileum: A Confocal Microscopic Study. The American Society for Cell Biology 50th Annual Meeting. December 11-15 2010, 2956-L062, Philadelphia, PA, USA.

B15. **Aktas RG**, Arat N, Ankarali H, Sofuoglu K, Cetinkaya T, Devranoglu B. Comparison of the Morphology of Oocytes at Different Cycles of the Same Patients: A Different Approach to Examine the Occurrence Mechanisms of Morphological Abnormalities of Oocytes. Alpha 2008, 7th Biennial Conference, Reproductive BioMedicine Online, Vol. 16, Sup.4, S-22, 2008.

B16. **Aktas RG**, Arat N, Ankarali H, Cetinkaya T, Devranoglu B, Sofuoglu K. Comparison of the Number of Collected Mature Oocytes, Age and the Stimulation Protocol at Different Cycles on the Same Patients. Alpha 2008, 7th Biennial Conference, Reproductive BioMedicine Online, Vol. 16,

Sup.4, S-23, 2008.

B17. **Aktas RG**, Arat N, Ankarali H, Sofuoglu K, Cetinkaya T, Devranoglu B. Comparison of Sperm Concentration and Sperm Motility After 6 months Intervals in the Same Patients. Alpha 2008, 7th Biennial Conference, Reproductive BioMedicine Online, Vol. 16, Sup.4, S-32, 2008.

B18. **Aktas RG**, Gazi C, Arat N, Sofuoglu K, Cetinkaya T, Tug N. Statistical Analysis of Morphologic Characteristics of Oocytes: Which Factors Might Effect These Features and Which Characteristics Might Play Important Role During Fertilization? A Prospective Study. 63rd Annual Meeting of American Society for Reproductive Medicine. Fertility and Sterility, Vol. 88 Sup. 1,s140, 2007.

B19. Kars B, Sofuoglu K, Caliskan E, Oztekin DC, **Aktas G**, Tug N. A Randomised Comparison of Gantrelax Nd Cetrorelix Use in ICSI Cycle of Women with Polycystic Ovary Syndrome. 63rd Annual Meeting of American Society for Reproductive Medicine. Fertility and Sterility, Vol. 88 Sup. 1,s181, 2007.

B20. **Aktas RG**. The Effects of LowDose-Long Term Cyclosporin-A Therapy on Juxtglomerular Cells: Light and Electron Microscopic Study. XXIII. World Congress of Pathology and Laboratory Medicine. Abstract Book, P3-091, Istanbul, Turkey, 2005.

B21. **Aktas RG**, Bezir A, Altaner S. Effects of Low Dose-Long Term Cyclosporin-A on Cortex Cerebri, Cerebellum and Hippocampus: An Experimental Study. 4th Asian-Pacific International Congress of Anatomists, Abstract Book, PP-28, Kusadasi, Turkey, 2005.

B22. **Aktas RG**, Hancer H, Altaner S, Yazgan O, Oztekin A. Morphologic Analysis of the Effects of Long Term-Low Dose Cyclosporin-A (CsA) Therapy on Spleen. 4th Asian-Pacific International Congress of Anatomists, Abstract Book, PP-29, Kusadasi, Turkey, 2005.

B23. **Aktas RG**, Ozacmak H, Sayan H. Expression of Vascular Endothelial Growth Factor, Heat Shock Proteins 27&70 on Kidney After Long Term-Low Dose Cyclosporin-A Therapy. Abstract Book, PP-30, Kusadasi, Turkey, 2005.

B24. Karamanlioglu B, **Aktas RG**. Do Deferoxamine, Ticlopidine or Trimetazidine Prevent Sevoflurane Nephrotoxicity? An Electron Microscopic Study. Microscopy&Microanalysis 2003, Vol.9, Supl.2, 1428-1429, San Antonio TX, U.S.A., 2003.

B25. **Aktas RG**, Altaner S, Guven A, Coskun O, Cagatay B, Ozen OA. Histopathologic Examination of Cyclosporin-A Alone and the Combined Therapy of Prednisolone on Lung: An Experimental Study. Microscopy&Microanalysis 2003, Vol.9, Supl.2, 1428-1429, San Antonio TX, U.S.A., 2003.

B26. Sayan H, Ozen OA, Ozacmak VH, Coskun O, Arslan SO, **Aktas RG**. Beneficial Effects of Melatonin on Reperfusion Injury in the Rat Sciatic Nerve. Molecular Mechanisms of Neurodegeneration, Abstract Book, P37, Milan, Italy, 2003.

B27. Sayan H, Ozacmak VH, Ozen OA, Guven A, Arslan SO, **Aktas RG**. The Effects of Estradiol and Progesteron on Rats Subjected to Global Cerebral Ischemia: Evaluation of Hippocampal Neuronal



Degeneration and Y-Maze Performance. The First International Conference of the National Neuroscience Society of Romania, Abstracts, 100-101, 2003.

B28. Croley N, **Aktas RG**, Phillips TE. Vitamin-A analog AM580 inhibits differentiation of a human tumor cell line. LS UROP Spring Symposium, 2002.

B29. Sen S, Ustundag S, **Aktas RG**, Yalcin O. The Comparison Effects of L-Carnitine, Erythropoietin, LC-EPO with Desferrioxamine in Experimental Myoglobinuric Acute Renal Failure" 38<sup>th</sup> Congress of the European Renal Association European Dialysis and Transplant Association, Abstracts, Syf.83, Vienna, Austria, 2001.

B30. Adiguzel M, Sen S, **Aktas RG**, Yalcin O, Gümüstas K. The Effects of Deferrioxamine, Erythropoietin and L-Carnitine on Myoglobinuric Acute Renal Failure. Nephrol Dial Transplant, 15 (9): A82, 2000, Nis, Fransa, 2000.

B31. **Aktas RG**, Demiralay E, Altaner S, Candan L, Kutlu AK. Ultrastructural and Histochemical Characterization of Secretory Granules in Human Lung Adenocarcinoma Cells. Microscopy&Microanalysis 2000, Vol.6, Suppl.2, 480-481, Philadelphia PA, U.S.A., 2000.

B32. **Aktas RG**, Kayton RJ. Examination of Hyaluronidase Digestion as an Effective Antigen Retrieval Method for Immunolabeling Basic Fibroblast Growth Factor at Electron Microscope Level. 12<sup>th</sup> European Congress on Electron Microscopy, Proceedings, Vol 1, B63-64, Brno, Czech Republic, 2000.

B33. Taskinalp O, **Aktas RG**, Cigali BS, Kutlu K. Immunohistochemical Demonstration of Cytochrome Oxidase in Different Parts of Central Nervous System. XIV. National Congress of Anatomy, Histology and Embryology with International Participation, Abstracts, Syf.43, Pleven, Bulgaria, 1999.

B34. **Aktas RG**, Taskinalp O, Cigali BS, Kutlu AK. Ultrastructural Analysis of Renal Cortical Interstitial Cells. XIV. National Congress of Anatomy, Histology and Embryology with International Participation, Abstracts, Syf.44, Pleven, Bulgaria, 1999.

B35. **Aktas RG**, Kutlu K. Light and Electron Microscopic Examination of the Vascular Changes After Long Term-Low Dose Cyclosporin-A Treatment. Microscopy & Microanalysis'99, Vol.5, Suppl.2, 1150-1151, Portland, Oregon, U.S.A., 1999.

B36. **Aktas RG**, Kayton RJ. Subcellular Distribution of Basic Fibroblast Growth Factor-Like Molecules in Fibroblasts and Extracellular Matrix. Microscopy & Microanalysis'99, Vol.5, Suppl.2, 1332-1333, Portland, Oregon, U.S.A., 1999.

B37. Kayton RJ, **Aktas RG**. Ultrastructural Distribution of Basic Fibroblast Growth Factor-Like Molecules in Peripheral Nerves. Microscopy&Microanalysis'98, Vol.4, Suppl.2, 1100-1101, Atlanta, GA, U.S.A. 1998.

B38. **Aktas RG**, Kayton RJ. Electron Microscopic Immunolocalization of Basic Fibroblast Growth Factor-Like Molecules in Capillary Endothelial Cells. Microscopy&Microanalysis'98, Vol.4, Suppl.2, 1100-1101, Atlanta, GA, U.S.A. 1998.

B39. **Aktas RG**, Kayton RJ. Ultrastructural Examination of the Localization of Basic Fibroblast

Growth Factor-Like Molecules in Blood Cells and Macrophages. Symposium Tertium Anatomiae Clinicae. Scripta Scientifica Medica, Vol 30, Suppl. 3, 1998.

#### **D. NATIONAL PUBLICATIONS**

D1. **Aktas RG**, Altunkaynak ME, Tunalı G, Arat N, Sofuoglu K, Cogendez E, Kutlu T, Devranoglu B, Ankaralı H. Effects Of Laser Zona Thinning On Pregnancy Rates In Patients With Implantation Failure. *Maltepe Medical Journal* , 6 (2): 1-7, 2014.

D2. Kosif R, **Aktas RG**, Ok E. Possible Healing Effects of Aloe Barbadensis on Nephrotoxicity Induced by Soybean Oil in Rats. *Erciyes Medical Journal*, 33(3): 175-182, 2011.

D3. **Aktas RG**, Aksoy E, Ankarali H. How Does the Waiting Time of Insemination Specimens in Catheters or in Tubes Effect Sperm Motility? A Comparative Experimental Study *Zeynep Kamil Medical Bulletin*. 2009

D4. **Aktas RG**, Arat N, Tunali G, Sofuoglu K, Ozdemir A. Intracytoplasmic Sperm Injection with Immature Sperms and Its Results: Case Report *Zeynep Kamil Medical Bulletin*, 40-4:201-204, 2009.

D5. **Aktas RG**, Arat N, Ankarali H, Sofuoglu K, Cetinkaya T, Devranoglu B, Ozdemir A, Ayas S. Comparison of Sperm Concentration and Sperm Motility After Six Months Intervals on Same Patients. *Zeynep Kamil Medical Bulletin*, 39 4 : 181-185, 2008.

D6. **Aktas RG**, Oztekin A, Bayar U, Oztekin C. Immunohistochemical Demonstration of CD31, HCG and Estrogen Receptors on Normal Human Placenta at Term Stage. *Zeynep Kamil Medical Bulletin*, 39 - 4 : 175-180, 2008.

D7. Kosif R, **Aktas RG**, Oztekin A. The effects of oral administration of Aloe Vera [barbadensis] on rat central nervous system: An experimental preliminary study. *Neuroanatomy* 7: 22-27, 2008.

D8. Kosif R, **Aktas RG**, Birincioglu S. Effects of Aloe Barbadensis on Reproductive System. *Journal of Faculty of Veterinary of Istanbul University*, 21-38, 2008

D9. **Aktas RG**, Altaner S, Ozpuyan F, Kutlu AK. Comparison of Angiogenesis in Granulation Tissue and Tumours: Light Microscopic, Electron Microscopic and Immunohistochemical Study. *Journal of Morphology*, 9(2), 2001.

D10. **Aktas RG**, Kayton RJ. Mast Cells and Angiogenesis. *Journal of Morphology*, 9(1), 2001.

D11. **Aktas RG**, Kayton RJ. Electron Microscopic Examination of the Location of Basic Fibroblast Growth Factor on Blood Cells and Macrophages. *Journal of Morphology*, 9(1), 2001.

D12. **Aktas RG**, Kayton RJ. Immunohistochemical Demonstration of Senile Plaques in Alzheimer Diseases. *Pathology Bulletin*, 2001, 18(1): 35-38.

D13. Candan L., Demiralay E., **Aktas RG**, Altaner S, Kutlu AK. Electron Microscopic Study of Lung Tumours. *Trakya University, Journal of Medical Faculty*, 18(1), 9-13, 2001.

D14. Yalcinkaya U, **Aktas RG**, Altaner S, Aktas G, Doganay L, Kutlu AK. A Case of Stromal Tumor in Stomach (Histologic, Immunohistochemical and Electron Microscopic Findings). *Turkish Journal of*

Ecopathology, 7(1-2), 49-52, 2001.

D15. Karamanlioglu B, Yüksel M, **Aktas RG**, Ciftci S. Examination of the Hepatotoxicity of Halotane and Sevoflurane on Rabbits and the Role of Catechin to Prevent Hepatotoxicity. Turkish Journal of Anesthesiology and Reanimation Society, 29(9), 489-496, 2001.

D16. **Aktas RG**, Karabay G. Ultrastructural Changes on the Ciliated Epithelial Cells After Recurrent Respiratory Infections, Journal of the Studies in Health Sciences 11(24),253-66 2001.

D17. **Aktas RG**, Ozyilmaz F, Kutlu AK. Comparison of the Effects of Different Processing Techniques on Ultrastructure of the Cells. Journal of Morphology, 9(2), 2001.

D18. Altaner S, **Aktas RG**, Atalay Y, Kaplan M, Doganay L, Kutlu K. Renal Angiomyolipoma: Examination of Six Cases at Clinicopathologic, Immunohistochemical and Ultrastructural Level. Turkish Journal of Neoplasia, 8(2), 47-53, 2000.

D19. Altaner S, **Aktas RG**, Yalcin O, Yalcinkaya U, Doganay U, Yalniz B. Abdominal Malign Mesothelioma with Solid Organ Metastasis. Turkish Journal of Ecopathology, 6(3-4): 217-220, 2000.

D20. **Aktas RG**, Doganay L, Yalcinkaya U, Kutlu AK. Electron Microscopic Demonstration of the Stages of Lipogenesis from Mesenchymal Cells to Lipocytes. Journal of Morphology, 9: 2, 2000.

D21. **Aktas RG**, Taskinalp O, Cigali B, Kutlu AK. Ultrastructural Analysis of Renal Interstitial Cells, Journal of Morphology, 7(3), 14-17, 2000.

D22. Cakir E, Karlikaya C, Yalcin O, **Aktas RG**. Lung Small Cell Carcinomas in Women. Trakya University Journal of Faculty of Medicine, 17: 3, 2000.

## **E. NATIONAL PRESENTATIONS**

E1. Hazır K, Güzelce E, Tok OE, Esrefolu M, **Aktas RG**. Light and Confocal Microscopic Visualisation of "Nanog", a protein which plays a key role on embryonal stem cells, in prostate and liver cancer cells . Stem Cell Student Symposium, Abstract Book, Page: 72, 2014.

E2. Garip A, Uzak E, Tok OE, Esrefoglu M, **Aktas RG**. Apoptotic Changes on Kidney After Low Term Low Dose of Cyclosporin Application. III. Cerrahpasa Science Days, Abstracts Book, Page:52, 2014.

E3. Buyuktopcu E, Tok OE, **Aktas RG**, Yarpuzlu B, Ayyildiz M, Basdogan C. Time relevant effects of two important solutions which are being used after organ transplantations, University of Wisconsin and Custodiol, on liver tissues. 21st National Congress of Electron Microscopy with International Participation, May 19-21 , 2013, Mersin, 2013.

E4. Guney G, Tok OE, Ercan F, **Aktas RG**. Morphologic Features of HepG2 cells under stress conditions, with no carbondioxide on room temperature. 21st National Congress of Electron Microscopy with International Participation, May 19-21 , 2013, Mersin, 2013.

E5. **Aktas RG** and Lack N. The importance of Different Techniques to Support the Results of Immunohistochemical Examinations. 21st National Congress of Electron Microscopy with International Participation, May 19-21 , 2013, Mersin, 2013.

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E30. Oz Puyan F, Candan L, **Aktas RG**. Perianal Alveolar Rhabdomyosarcoma in Adults (Case Report). XVth National Symposium of Surgical Pathology. Antalya, Proceedings, 241, 2000.

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E33. **Aktas RG**, Taskinalp O, Kutlu K. Morphologic Analysis of Juxtglomerular Cells. 14th National

Electron Microscopy Meeting, Bursa, Abstract Book, 129, 1999.

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E35. **Aktas RG**, Uygun M. Light and Electron Microscopic Examination of the Effects of Cyclosporin-A on Kidney at Different Dosages and Forms. 4th National Meeting of Histology and Embryology, Diyarbakir, Abstract Book, 66, 1998.

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E37. **Aktas RG**, Kayton RJ. Histochemical Demonstration of Senile Plaques. 4th National Meeting of Histology and Embryology, Diyarbakir, Abstract Book, 152, 1998.

### **F-REVIEWS**

F1. **Aktas RG**, Karahisarli B, Ozdemir A. Can the Patients with Klinefelter Syndrome be Considered as 'Sterile'? Andrology Bulletin, 49: 113-114, 2012.

F2. **Aktas RG**, Oktayer AG, Karahisarli B, Meram E, Ozdemir A. Environmental Factors Which Effects Spermatogenesis. Andrology Bulletin. 48: 33-35, 2012.

F3. **Aktas RG**, Ozdemir A. Which Sperm Preparation Method is the Most Successful for Obtaining High Quality Sperms? Andrology Bulletin, 44:48-50, 2011.

F4. **Aktas RG**, Ozdemir A. The Structure of Sperm DNA: Significance of the Structure and Evaluation Techniques. Andrology Bulletin, 36:39-40, 2009.

F5. **Aktas RG**, Ozdemir A. Spermatogonial Stem Cells and Their Use in Clinics. Andrology Bulletin, 33: 141-142, 2008.

F6. **Aktas RG**, Ozdemir A. Advanced Sperm Function Tests, Recent Approaches Related with Diagnosis and Treatment. Andrology Bulletin, 32: 39-41, 2008.

### **G-NON-PROFESSIONAL PUBLICATIONS**

G1. **Aktas RG**, Osman M. Diabetes, Cancer and Their Connection, IAC's Second Meeting Adresses Regional health Concerns, ASCB Newsletter, Vol:37, Issue:9, Pages:18-20, 2014, USA, The American Society for Cell Biology

G2. **Aktas RG**. Cell Biology in Turkey, ASCB Newsletter, Vol:34, Issue:6, Pages:29-30, 2011, USA, The American Society for Cell Biology

### **H-NON-PROFESSIONAL PRESENTATIONS**

H1. **Aktas RG**. Biomedical Research in Turkey. International Exchange Fair, The American Society for Cell Biology 53rd Annual Meeting, December 6, 2015, Philadelphia, PA, USA

H2. **Aktas RG**. Turkey : A Country With More Opportunities For International Collaborations in Biosciences, International Exchange Fair, The American Society for Cell Biology 52nd Annual Meeting, December 15, 2013, New Orleans, CA, USA

H3. **Aktas RG**, Dursun I, Arslan A, Dilek O. Biosciences in Turkey, International Exchange Fair, The American Society for Cell Biology 51st Annual Meeting, December 15, 2012, San Francisco, CA, USA

H4. **Aktas RG**, Dursun I. Key Research Centers Related with Cell Biology in Turkey, International Exchange Fair, The American Society for Cell Biology 51st Annual Meeting, December 15, 2012, San Francisco, CA, USA

### **INVITED TALKS**

- Frontiers in Medical Sciences: Diabetes, Cancer and Their Connection, Can a Cancer Cell Turn Into a Normal Cell? 6-8 July, Istanbul, 2014
- 12nd National Histology and Embryology Congress, 27-30 May 2014, Ankara, 2014
- Seminars of Turkish Electron Microscopy Society: Can a tumor cell turn into a normal cell?, 2013, Maltepe University, Istanbul, 2014
- 21st National Congress of Electron Microscopy with International Participation: Immunoelectron Microscopy, May 19-21, 2013, Mersin, 2013.
- Bogazici University, Molecular Biology and Genetics Department, Can a tumor cell turn into a normal cell? May 17, Istanbul, 2013.
- Biomedical Sciences Seminars, University of Pacific, San Francisco, CA, USA : Can a tumor cell turn into a normal cell? A presentation on a US-Turkey collaborative study, and the state of science in Turkey, December 14, 2012.
- Microscopy Course 2012: Fundamentals and Applications of Fluorescence Microscopy in Modern Cell Biology. Fundamentals of Fluorescence Microscopy: Microscope parts, lamps and alignment Koc University, 11-17 August, 2012.
- Turkish Electron Microscopy Society Seminars: "Demonstration of Localization of Proteins at Electron Microscope Level: Methods & Problems", Koc University, April 29, 2011.
- March 14 Doctors Day: "Laboratory on Assisted Reproductive Technologies", Zonguldak Karamelmas University, March 14, 2006.
- Turkish Electron Microscopy Society Seminars: "Immunogold Labeling Techniques for Ultrastructural Examination of the Localization of Basic Fibroblast Growth Factor on Different Types of Cells, Istanbul University, Faculty of Medicine, January 8, 1999.

### **JOURNAL EDITING / REVIEWING FOR PROFESSIONAL JOURNALS**

- Acta Histochemica, Reviewer
- Zeynep Kamil Medical Bulletin, Scientific Committee
- Turkish Medical Sciences
- International Research of Biochemistry and Bioinformatics, Reviewer
- Journal of Assisted Reproduction and Genetics, Reviewer
- Ondokuz Mayıs University, Journal of Experimental and Clinical Medicine, National Advisory Board
- Maltepe Medical Journal, Editor for Basic Sciences
- Turkiye Klinikleri, Journal of Neurology, Advisory Board

## **COURSES**

- Microscopy Course 2012: Fundamentals and Applications of Fluorescence Microscopy in Modern Cell Biology. Koc University, 11-17 August, 2012, Istanbul, TURKEY
- First Aid Certification, June 3-4, 2011, Koc University, Istanbul, TURKEY
- Applications of Cryopreservation and Recent IVF Technologies, November 1-2 2010, Ankara, TURKEY
- Techniques for Application of Stem Cells and Endometrial Co-culture Applications, June 17-18, 2008, Kocaeli University, Izmit, TURKEY
- A Hands-on Blastocyst Workshop, Aug 15-16 2008, Cork, IRELAND
- Training for Embryologists in Assisted Reproductive Technologies, July 12, 2005-January 12 2006, Zeynep Kamil Women and Children Diseases Hospital, Istanbul, TURKEY
- 1st International Workshop on Current Techniques and Future Trends of Gamete and Embryo Manipulation, March 4-5, 2006, Istanbul, TURKEY
- An Intense Course for Development of Education Skills, Istanbul University, February 9-11, 2005, Cerrahpasa Medical Faculty, Istanbul, TURKEY
- Image Processing and Analysis, August 3, 2003, San Antonio, TX, U.S.A.
- Computer-Assisted Processing and Stereological Measurement of Digital Images, August 3, 2003, San Antonio, TX, U.S.A.
- Workshop on EM Viral Diagnostics, July 11, 2000; EUREM, Brno, CZECH REPUBLIC
- Gold Labeling Workshop, August 1, 1999, Portland, OR, U.S.A.
- Using the Tools of Stereology: Theory and Practice, August 10, 1997, Cleveland, OH, U.S.A.
- Course for Immunohistochemical Methods, May 8-10, 1996; Ankara, TURKEY



- International Workshop on Stereology and Morphometry, December 8-11, 1995; Izmir, TURKEY

## **CONFERENCE ORGANIZATION**

- Frontiers in Medical Sciences: Diabetes, Cancer and Their Connection, Maltepe University, 6-8 July, 2014
- Microscopy Course 2012: Fundamentals and Applications of Fluorescence Microscopy in Modern Cell Biology. Koc University, 11-17 August, 2012

## **MEETINGS**

- The American Society for Cell Biology 52nd Annual Meeting Conjoined with International Federation of Cell Biology Meeting, , December 6-10, 2014, Philadelphia, PA, USA
- Frontiers in Medical Sciences: Diabetes, Cancer and Their Connection, Maltepe University, 6-8 July, 2014
- 12nd National Histology and Embryology Congress, 27-30 May 2014, Ankara, Turkey
- 1st Diabetes Symposium with International Participation, 6 April, 2014, Istanbul, Turkey
- The American Society for Cell Biology 52nd Annual Meeting, December 15-17, 2013, New Orleans, LA, USA
- 21st National Congress of Electron Microscopy with International Participation, May 19-21, 2013, Mersin, Turkey.
- Diabetes: Experimental and Clinical Approaches, Acibadem University, School of Medicine, May 24, 2013, Istanbul, Turkey
- The American Society for Cell Biology 51st Annual Meeting, December 15-19, 2012, San Francisco, CA, USA
- XI. National Histology and Embryology Congress, 16-19 May 2012, Denizli, Turkey
- 9th Biennial Alpha Conference, April 27-29, 2012; London, UK
- 51st Annual Meeting of American Society for Cell Biology, December 3-7, 2011, Denver, Colorado, USA
- 20th National Electron Microscopy Meeting with International Participation, October 25-28, 2011, Izmir, Turkey.
- 2nd Clinical Embryology Congress, September 23-25, 2011, Mugla, Turkey.

- 50th Annual Meeting of American Society for Cell Biology, December 11-15, 2010; Philadelphia, PA, U.S.A:
- Symposium for Applications of Cryopreservation and Recent IVF Technologies, November 1-2 2010, Ankara, TURKEY
- Xth National Meeting of Histology and Embryology with International Participation, May 17-20 2010, Izmir, TURKEY
- The 65th Annual Meeting, American Society for Reproductive Medicine, October 17-21 2009, Atlanta, G.A., U.S.A.
- Acibadem Seminars on Fertility Preservation of Women Who has Diagnosed as Cancer, March 22-23, 2008; Istanbul, TURKEY
- Infertility and Perinatology, March 26-29, 2008; Istanbul University, Istanbul, TURKEY
- Seventh Biennial Alpha Conference, May 2-4, 2008; Istanbul, TURKEY
- 25th Zeynep Kamil Gyneco-Pathology Congress, June 05-08 2007, Istanbul, TURKEY
- 63rd Meeting of American Society for Reproductive Medicine, October 13-17, 2007; Washington D.C.,U.S.A:
- V. National Neurosciences Meeting, April 10-14, 2006; Zonguldak, TURKEY
- 4th Asian-Pacific International Congress of Anatomists, October 7-10, 2005; Kuşadası, Izmir, TURKEY
- XXIII. World Congress of Pathology and Laboratory Medicine, May 26-30, 2005; Istanbul, TURKEY.
- 1st National Molecular Medicine Congress, April 16-19; 2005; Istanbul, TURKEY
- XIX. National Turkish Orthopaedics and Traumatology Congress, May 14-19; 2005, Antalya, TURKEY
- Microscopy &Microanalysis'2003, Aug 3-7, 2003; San Antonio, TX, U.S.A.
- XXXVII ERA-EDTA Congress, June 24-27, 2001; Vienna, Austria
- First Combined Congress between ERA-EDTA (XXXVII) and EKRA, September 17-20, 2000; Nice, France
- Microscopy &Microanalysis'2000, Aug 14-17, 2000; Philadelphia, PA, U.S.A.
- V. National Histology and Embryology Congress, Aug 28-31, 2000; Kayseri, TURKEY
- 12th European Congress on Electron Microscopy, July 9-14, 2000; CZECH REPUBLIC

- XVII. National Nephrology, Hipertension, Dialysis and Transplantation Congress, June 5-8, 2000; Istanbul, TURKEY
- Microscopy & Microanalysis'99, Aug 1-5, 1999; Portland, OR, U.S.A.
- Turkish Electron Microscopy Society Seminars, July 1999, Istanbul, TURKEY
- Symposium Internationale Tertium Anatomiae Clinicae, October 9-11, 1998; Varna, Bulgaria
- National Histology and Embryology Congress, September 8-11, 1998; Diyarbakir, TURKEY
- The Annual Meeting of Pacific Northwest Electron Microscopy Society, May 3, 1997; Portland, OR, U.S.A.