Subject Index

Volume 37, 2015

Contributor index on page 376.

A

A549 cellular morphology
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37: 159–168

Abortion, missed
Distribution of Furin, TNF-α, and TGF-β2 in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

Acinar cell carcinoma
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

Active surveillance
Role of the Pathologist in Active Surveillance for Prostate Cancer. (Mazzucchelli et al), 2015;37: 65–68

Alkaline comet assay
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Alpha-CGRP
Expression Pattern of Calcitonin Gene-related Peptide-Like Immunoreactivity in the Duck Thymus During Embryonic and Postembryonic Development. (Yin et al), 2015;37:235–242

Androgens
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56

Angiogenesis inhibitors
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Blancconi et al), 2015;37:2–13

Antiandrogen therapy
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56

Antihypertensive agents
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Apoptosis
Trophoblast Cell Proliferation and Apoptosis in Placental Development During Early Gestation Period in Rats. (Erboga and Kanter), 2015;37:286–294

AQCH
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

Arterial spin labeling

Arterioles
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

Arteriosclerosis, coronary
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37: 115–122

Arteriovenous malformations
Arteriovenous Malformation Masquerading as a

Atherosclerosis, coronary
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Atypical adenomatous hyperplasia
Mimickers of Prostate Cancer in Needle Biopsies. (Algaba and Trias), 2015;37:57–64

Avian diseases

AVM

B

Beta-catenin
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Biomarkers
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2

Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Biphasic tumor

Bisphenol A
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

Bladder


Bladder cancer
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38


Value of Frozen Sections in Uropathology. (Algaba), 2015;37:23–28

Bladder pathology
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2

Bone sialoprotein 1
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

BPA
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

BrdU
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Breast cancer
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ of the Breast (Parra-Herran et al), 2015;37:331–338

Breast carcinoma
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Bromodeoxyuridine
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Bromouracil deoxyriboside
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

C

C-reactive protein
Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma:
Are We Really Making Steps Forward? (Bianconi et al), 2015;37:3–13

Calcitonin gene-related peptide

Cancer chemotherapy agents
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Cancer staging
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Cancer treatment protocols
Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Bianconi et al), 2015;37:3–13

Cancer variants
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

Carcinoma, colloid

Carcinoma, mucinous

Carcinoma, renal cell

Carcinoma, thymic

Carcinoma in situ
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38

Update on the Pathology of Testicular Tumors. (Mikuz), 2015;37:75–85

Cell proliferation
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Cervical cytology

Cervical intraepithelial neoplasia


Cicatrix, hypertrophic

Cigarette smoking

Classification
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

Clear cell renal cell carcinoma
Clinicopathological Significance of Matrix Metalloproteinase-2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363

Collision metastasis

Color correction according to control tissue images
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

Color normalization
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

Coloring agents
Color Correction of Stained Tissue Section Im-
images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

Comet assay
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Computer software applications
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37:159–168

Computer-assisted image analysis
Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ of the Breast (Parra-Herran et al), 2015;37:331–338

Computer-assisted image processing

Core needle biopsy

Coronary arteriosclerosis
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Coronary artery disease
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Coronary atherosclerosis
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Coronary disease
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Coronary heart disease
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Cox model
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Cystoscopy

Cytodiagnosis
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37:159–168

Cytology
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37:159–168

Cytopathology
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

Cytotoxic serine protease B

D

Dentin
Immunohistochemical and Histopathological Changes in the Teeth of Rats After Lead Acetate Application. (Er et al), 2015;37:109–114

Diabetes
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

Diabetes complications
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Diabetes insipidus, nephrogenic
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Diabetes mellitus
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Pro
tective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198
Effect of Resveratrol on Leptin and Sirtuin 2 Expression in the Kidneys in Streptozotocin-induced Diabetic Rats. (Yaylalı et al), 2015;37:243–251

**Diabetic kidney disease**
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198
Effect of Resveratrol on Leptin and Sirtuin 2 Expression in the Kidneys in Streptozotocin-induced Diabetic Rats. (Yaylalı et al), 2015;37:243–251

**Diabetic nephropathy**
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198
Effect of Resveratrol on Leptin and Sirtuin 2 Expression in the Kidneys in Streptozotocin-induced Diabetic Rats. (Yaylalı et al), 2015;37:243–251

**Diagnosis**
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38
Mimickers of Prostate Cancer in Needle Biopsies. (Algaba and Trias), 2015;37:57–64

**Diagnostic imaging**
Analytical and Quantitative Cytology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

**Diagnostic molecular pathology**
Analytical and Quantitative Cytology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

**Differential diagnosis**

**Digital image analysis**
Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ of the Breast (Parra-Herran et al), 2015;37:331–338

**Digital pathology**

**Diltiazem**
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

**Disease classification**
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

**Disease-free survival**
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

**DNA damage**
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

**Ductal carcinoma in situ**
Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ of the Breast (Parra-Herran et al), 2015;37:331–338

**Dysplasia**
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38

**E**

**E-cadherin**
Effects of *Potentilla fulgens* as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316
Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ of the Breast (Parra-Herran et al), 2015;37:331–338

**E-cadherin antibodies**

**Embryonic development**
Trophoblast Cell Proliferation and Apoptosis in Placental Development During Early Gestation...
Endocrine disruptors
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

Epidemiology
Update on the Pathology of Testicular Tumors. (Mikuz), 2015;37:75–85

Epidermal growth factor receptor (EGFR)

Epithelial-mesenchymal transition
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37:159–168

Epoxy resins
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

Exfoliative cytology

Fetal development
Effect of Tunicamycin on Glycosaminoglycans and Laminins in Embryonic and Postnatal Thymic Tissues. (Balcan and Arslan), 2015;37:252–266

Fibroepithelial polyps
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

FK506-binding protein 52
Expression of 52-kDa FK506-Binding Protein (FKBP52) in Human Placenta Complicated by Preeclampsia and Intrauterine Growth Restriction. (Acar and Ustunel), 2015;37:87–95

Follow-up studies

Frozen sections
Testicular Nodules Suspected for Malignancy: Does the Pathologist Make the Difference for Organ-Sparing Surgery? (Fabiani et al), 2015;37:147–152
Value of Frozen Sections in Uropathology. (Algaiba), 2015;37:23–28

Furin
Distribution of Furin, TNF-α, and TGF-β in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

Gastric mucosa
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Gel electrophoresis, single-cell
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Germ cells
Update on the Pathology of Testicular Tumors. (Mikuz), 2015;37:75–85

Gleason grading
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

Glioblastoma

Gliclazide
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Furin
Distribution of Furin, TNF-α, and TGF-β in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

Gastric mucosa
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Gel electrophoresis, single-cell
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Germ cells
Update on the Pathology of Testicular Tumors. (Mikuz), 2015;37:75–85

Gleason grading
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

Glioblastoma

Gliclazide
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198
Granulosa cells
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

Granzyme B

Hamartoma
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

Heat-shock protein
Expression of 52-kDa FK506-Binding Protein (FKBP52) in Human Placenta Complicated by Preeclampsia and Intrauterine Growth Restriction. (Acar and Ustunel), 2015;37:87–95

Histiocytosis, sinus
Extranodal (Dural) Rosai-Dorfman Disease Radiologically and Histologically Mimicking Meningioma: A Case Report. (Nassif and Boulos), 2015;37:144–146

Histogram transfer
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

Histologic grade
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non-Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Histological features

Histological labeling
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

Histopathology
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

HIV

HSIL, high-grade squamous intraepithelial lesions

Human immunodeficiency virus

Human papillomavirus

Human placenta
Expression of 52-kDa FK506-Binding Protein (FKBP52) in Human Placenta Complicated by Preeclampsia and Intrauterine Growth Restriction. (Acar and Ustunel), 2015;37:87–95

Hydronephrosis

Hypertrophic scar

Hypoglycemic agents
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Image analysis, computer-assisted
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213
Quantitative Analysis of Rabbit Coronary Ath-
erosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122

Image processing

Immunocytochemistry
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

Immunohistochemistry
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2
Quantitative Analysis of Rabbit Coronary Atherosclerosis: Practical Techniques Utilizing Open-Source Software. (Zhang et al), 2015;37:115–122
Role of the Pathologist in Active Surveillance for Prostate Cancer. (Mazzucchelli et al), 2015;37:65–68

Inflammatory myofibroblastic tumor
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22
Informatics

Intraurothelial neoplasia
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38

Intrauterine growth restriction
Expression of 52-kDa FK506-Binding Protein (FKBP52) in Human Placenta Complicated by Preeclampsia and Intrauterine Growth Restriction. (Acar and Ustunel), 2015;37:87–95

Involucrin

Ionizing radiation
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Irradiation
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Ischemia-reperfusion injury
Effects of Potentilla fulgens as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316

K

Karyometric image analysis
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

Keloid

Kidney
Clinicopathological Significance of Matrix Metalloproteinase-2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

L-type calcium channel
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

Laminin
Effect of Tunicamycin on Glycosaminoglycans and Laminins in Embryonic and Postnatal Thymic Tissues. (Balcan and Arslan), 2015;37:252–266

Lead poisoning
Immunohistochemical and Histopathological Changes in the Teeth of Rats After Lead Acetate Application. (Er et al), 2015;37:109–114

LEEP

Leiomyosarcoma

Leptin
Effect of Resveratrol on Leptin and Sirtuin 2 Expression in the Kidneys in Streptozotocin-induced Diabetic Rats. (Yaylali et al), 2015;37:243–251

Leukopenia
Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Bianconi et al), 2015;37:3–13

Littré glands

Lobular carcinoma in situ
Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ of the Breast (Parra-Herran et al), 2015;37:331–338

Loop electrosurgical excision procedure

Losartan
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

LSIL-H

Lymph node excision

Lymph node metastasis
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Lymph nodes


Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Lymphadenectomy

Lymphoma
Update on the Pathology of Testicular Tumors. (Mikuz), 2015;37:75–85

MACC1 protein, human
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Machine learning
Male genitourinary diseases
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2

Male urethra

Male urogenital diseases
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2

Malignant primary brain tumors

MAP kinase signaling system
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Matrix metalloproteinase 2
Clinicopathological Significance of Matrix Metalloproteinase–2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363

Medicine in literature

Meningothelial proliferation
Extranodal (Dural) Rosai-Dorfman Disease Radiologically and Histologically Mimicking Meningioma: A Case Report. (Nassif and Boulos), 2015;37:144–146

Meta-analysis

Morphological and microscopic findings
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Malignant prostatic and urothelial metastasis in the same lymph node: A case report. (Pacella et al), 2015;37:139–143

Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Metastasis-associated in colon cancer 1 protein, human
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Micronodular thymoma

Micropapillary carcinoma
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

Microscopic image
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37:159–168

Microscopic lesion

Mixed epithelial and stromal tumor

MMP-2 metalloproteinase
Clinicopathological Significance of Matrix Metalloproteinase–2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363

Morphology
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56

Morphometry

Morphometric Analysis in the Diagnosis of Low-Grade Ductal and Lobular Carcinoma in Situ
of the Breast (Parra-Herran et al), 2015;37:331–338

**Mucinous adenocarcinoma**

**N**

**Needle biopsy**

**Neoplasm metastasis**
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

**Neoplasm staging**
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

**Nephrectomy**

**Nested carcinoma**
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

**Neutrophils**
Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Bianconi et al), 2015;37:73–13

**Nicotine**

**Nifedipine**
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

**Non-small cell lung cancer**
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

**Nosologic entities**
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47

**Nuclear chromatin pattern**
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

**Odontoblasts**
Immunohistochemical and Histopathological Changes in the Teeth of Rats After Lead Acetate Application. (Er et al), 2015;37:109–114

**Oral cytology**

**Organ donors**
Value of Frozen Sections in Uropathology. (Algbaba), 2015;37:23–28

**Organogenesis**
Effect of Tunicamycin on Glycosaminoglycans and Laminins in Embryonic and Postnatal Thymic Tissues. (Balcan and Arslan), 2015;37:252–266

**OSTEOPONTIN**
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

**Ovarian torsion**
Effects of *Potentilla fulgens* as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316

**Ovary**
Effects of *Potentilla fulgens* as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316

**Oxalic acid**
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

**Pagetoid spread**
Extravesical Pagetoid Spread of Urothelial Car-
analitic and Quantitative Cytopathology and Histopathology®

Subject Index


**Pathogenesis**

**Pathology**
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38

**Pathology, molecular**
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

**PCNA**
Trophoblast Cell Proliferation and Apoptosis in Placental Development During Early Gestation Period in Rats. (Erboga and Kanter), 2015;37:286–294

**Penile cancer**
Value of Frozen Sections in Uropathology. (Algaba), 2015;37:23–28

**Photoshop software**
Preprocessing with Photoshop Software on Microscopic Images of A549 Cells in Epithelial-Mesenchymal Transition. (Ren et al), 2015;37:159–168

**Placenta**
Expression of 52-kDa FK506-Binding Protein (FKBP52) in Human Placenta Complicated by Preeclampsia and Intrauterine Growth Restriction. (Acar and Ustunel), 2015;37:87–95

**Placental development**
Trophoblast Cell Proliferation and Apoptosis in Placental Development During Early Gestation Period in Rats. (Erboga and Kanter), 2015;37:286–294

**Plastics**
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

**Polyps**
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

**Polystyrene**
Light and Transmission Electron Microscopic Studies on Subacute Toxicity of Bisphenol A on the Rat Ovary. (Saddick), 2015;37:227–234

**Postimplantation embryonic development**

**Preeclampsia**
Expression of 52-kDa FK506-Binding Protein (FKBP52) in Human Placenta Complicated by Preeclampsia and Intrauterine Growth Restriction. (Acar and Ustunel), 2015;37:87–95

**Prognosis**
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

**Proliferating cell nuclear antigen**
Trophoblast Cell Proliferation and Apoptosis in Placental Development During Early Gestation Period in Rats. (Erboga and Kanter), 2015;37:286–294

**Proportional hazards models**
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

**Prostate**
Mimickers of Prostate Cancer in Needle Biopsies. (Algaba and Trias), 2015;37:57–64
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

**Prostate cancer**
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47
Mimickers of Prostate Cancer in Needle Biopsies. (Algaba and Trias), 2015;37:57–64
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56
Role of the Pathologist in Active Surveillance for Prostate Cancer. (Mazzucchelli et al), 2015;37:65–68
Prostate-specific antigen

Prostatic duct

Prostatic urethra

Protein expression
Clinicopathological Significance of Matrix Metalloproteinase–2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363

qRT-PCR
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Quantitative histopathology
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

Radiotherapy
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56

Reactive atypia
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38

Receptors, TGF-beta
Distribution of Furin, TNF-α, and TGF-β2 in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

Renal cell carcinoma
Clinicopathological Significance of Matrix Metalloproteinase–2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363

Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Bianconi et al), 2015;37:3–13


Value of Frozen Sections in Uropathology. (Algaba), 2015;37:23–28

Reperfusion injury
Effects of Potentilla fulgens as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316

Resveratrol
Biochemical and Histopathological Investigation of Resveratrol, Gliclazide, and Losartan Protective Effects on Renal Damage in a Diabetic Rat Model. (Ezel et al), 2015;37:187–198

Effect of Resveratrol on Leptin and Sirtuin 2 Expression in the Kidneys in Streptozotocin-induced Diabetic Rats. (Yaylali et al), 2015;37:243–251

Reverse transcriptase polymerase chain reaction
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Rosai-Dorfman disease
Extraneal (Dural) Rosai-Dorfman Disease Radiologically and Histologically Mimicking Meningioma: A Case Report. (Nassif and Boullos), 2015;37:144–146

Sarcoma

Scars, hypertrophic

Sclerosing adenosis
Mimickers of Prostate Cancer in Needle Biopsies. (Algaba and Trias), 2015;37:57–64

Secreted phosphoprotein 1
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Seminal vesicles
Extravesical Pagetoid Spread of Urothelial Carc-

Sialoprotein 1
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Single-cell analysis
Evaluation of Cytogenetic and Genotoxic Effects of Oxalic Acid by the Alkaline Comet Assay and QRT PCR in Human Buccal Epithelial Cells (Unlu and Saglar), 2015;37:347–352

Sirtuin 2
Effect of Resveratrol on Leptin and Sirtuin 2 Expression in the Kidneys of Streptozotocin-induced Diabetic Rats. (Yaylalı et al), 2015;37:243–251

Skin cancer
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

Small cell carcinoma
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

Smoking

Squamous cell carcinoma
High Proportion of Nuclear Phenotype Identifies Aggressive Cutaneous Squamous Cell Carcinoma. (Glazer et al), 2015;37:302–309

Squamous intraepithelial lesions of the cervix

Staining
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

Stereology
Upregulation of the L-type Calcium Channel in Renin-Positive Smooth Muscle Cells of Arterioles in the Kidneys of Rats with Streptozotocin-Induced Diabetes. (Razga et al), 2015;37:214–220

Stomach
Impairment and Regeneration of Gastric Mucosa After Irradiation in Mice. (Zeng et al), 2015;37:169–176

Submandibular gland

Sunitinib
Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Bianconi et al), 2015;37:3–13

Survival analysis
Metastasis Associated in Colon Cancer 1 Predicts Poor Outcomes in Patients with Breast Cancer. (Kim et al), 2015;37:96–104

Tamm-Horsfall glycoprotein

Teeth
Immunohistochemical and Histopathological Changes in the Teeth of Rats After Lead Acetate Application. (Er et al), 2015;37:109–114

Telepathology
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

Testicular cancer
Testicular Nodules Suspected for Malignancy: Does the Pathologist Make the Difference for Organ-Sparing Surgery? (Fabiani et al), 2015;37:147–152

Value of Frozen Sections in Uropathology. (Algaba), 2015;37:23–28

Testicular nodules
Testicular Nodules Suspected for Malignancy: Does the Pathologist Make the Difference for Organ-Sparing Surgery? (Fabiani et al), 2015;37:147–152

Testicular tumors
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2

Testicular Nodules Suspected for Malignancy: Does the Pathologist Make the Difference for Organ-Sparing Surgery? (Fabiani et al), 2015;37:147–152

Update on the Pathology of Testicular Tumors. (Mikuz), 2015;37:75–85

Testicular-sparing surgery
Testicular Nodules Suspected for Malignancy:
Does the Pathologist Make the Difference for Organ-Sparing Surgery? (Fabiani et al), 2015; 37:147–152

**TGF-beta receptor**
Distribution of Furin, TNF-α, and TGF-β2 in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

**Thymoma**

**Thymus gland**


**Tissue stains**
Color Correction of Stained Tissue Section Images by Histogram Transfer According to Control Images. (Zengin et al), 2015;37:177–186

**TNF-alpha**
Distribution of Furin, TNF-α, and TGF-β2 in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

**TNM staging**
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non-Small Cell Lung Cancer. (Han et al), 2015;37:295–301

**Tumor classification**

**Tumor extent**
Role of the Pathologist in Active Surveillance for Prostate Cancer. (Mazzucchelli et al), 2015;37: 65–68

**Tumor markers**
Predictive Factors for Sunitinib Treatment Response in Advanced Renal Cell Carcinoma: Are We Really Making Steps Forward? (Bianconi et al), 2015;37:3–13

Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

**Tumor necrosis factor**
Distribution of Furin, TNF-α, and TGF-β2 in the Endometrium of Missed Abortion and Voluntary First Trimester Termination Cases. (Ozbilgin et al), 2015;37:123–133

**Tumor staging**
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

**Tunicamycin**
Effect of Tunicamycin on Glycosaminoglycans and Laminins in Embryonic and Postnatal Thymic Tissues. (Balcan and Arslan), 2015;37:252–266

**U**

**Undifferentiated carcinoma**
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

**Urachus**

**Ureter**
Urinary bladder
Dysplasia and Carcinoma in Situ of the Urinary Bladder. (Lopez-Beltran et al), 2015;37:29–38
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22
Value of Frozen Sections in Uropathology. (Algaba), 2015;37:23–28

Urine

Urologic pathology
Analytical and Quantitative Cytopathology and Histopathology: Three Years Later. (Lopez-Beltran), 2015;37:211–213

Uromodulin

Uropathology
Morphology and Biomarkers in Genitourinary Cancers: Introduction to the Symposium. (Volavšek et al), 2015;37:1–2
Morphology of Treatment-related Changes in the Prostate and Prostatic Cancer. (Volavšek), 2015;37:48–56

Uropontin
Serum Osteopontin Levels Correlate with Clinical and Pathological Features in Non–Small Cell Lung Cancer. (Han et al), 2015;37:295–301

Urothelial carcinoma
Histologic Classification of Prostate Cancer. (Mikuz), 2015;37:39–47
Rare Entities in Urinary Bladder Pathology. (Lopez-Beltran et al), 2015;37:14–22

Vagina

Vascular endothelial growth factor
Effects of Potentilla fulgens as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316

Vascular lesions

VEGF
Effects of Potentilla fulgens as a Prophylactic Agent for Ischemia/Reperfusion Injury in the Rat Ovary. (Togrul et al), 2015;37:310–316

Vimentin
Immunohistochemical and Histopathological Changes in the Teeth of Rats After Lead Acetate Application. (Er et al), 2015;37:109–114

Z

Zinc-dependent endopeptidases
Clinicopathological Significance of Matrix Metalloproteinase–2 Protein Expression in Renal Cell Carcinoma Patients. (Cheng et al), 2015;37:353–363