

Kidney

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The kidneys are organs that filter wastes from the blood and excrete them, along with water, as urine. The medical field that studies the kidneys and diseases of the kidney is called nephrology. The prefix nephro- meaning kidney is from the Ancient Greek word nephros ; the adjective renal meaning related to the kidney is from Latin *ren*, meaning kidneys. In humans, the kidneys are located in the posterior part of the abdomen. There is one on each side of the spine; the right kidney sits just below the liver, the left below the diaphragm and adjacent to the spleen. Above each kidney is an adrenal gland . The asymmetry within the abdominal cavity caused by the liver results in the right kidney being slightly lower than the left one while the left kidney is located slightly more medial. The kidneys are retroperitoneal. They are approximately at the vertebral level T12 to L3. The upper parts of the kidneys are partially protected by the eleventh and twelfth ribs, and each whole kidney is surrounded by two layers of fat which help to cushion it. Congenital absence of one or both kidneys, known as unilateral or bilateral renal agenesis, can occur.

Recent Publications on Kidney:



- [Expression of cell adhesion molecules in the normal and T3 blocked development of the tadpole's kidney of *Bufo arenarum* \(Amphibian, Anuran, Bufonidae\).](#)
Cell adhesion molecules act as signal transducers from the extracellular... 4th October, 2008
Facultad de Bioingenieria, Laboratorio de Microscopia, Universidad- Braz J Biol. 2008 Aug;68(3):561-9.
- [Visualizing transient events in amino-terminal autoprocessing of HIV-1 protease.](#)
HIV-1 protease processes the Gag and Gag-Pol polyproteins into mature... 4th October, 2008
Laboratory of Chemical Physics, Building 5, National Institute of Diabetes- Nature. 2008 Oct 2;455(7213):693-6. ([DOI Direct Link](#))
- [Curing of the \[URE3\] prion by Btn2p, a Batten disease-related protein.](#)
[URE3] is a prion (infectious protein), a self-propagating amyloid form of... 4th October, 2008
Laboratory of Biochemistry and Genetics, National Institute of Diabetes- EMBO J. 2008 Oct 2. ([DOI Direct Link](#))
- [Endocochlear potential depends on Cl\(-\) channels: mechanism underlying deafness in Bartter syndrome IV.](#)
Human Bartter syndrome IV is an autosomal recessive disorder characterized... 4th October, 2008
Leibniz-Institut für Molekulare Pharmakologie (FMP) and- EMBO J. 2008 Oct 2. ([DOI Direct Link](#))
- [308 nm monochromatic excimer light in dermatology: personal experience and review of the literature.](#)
For over five years, we have been using a new ultraviolet B ray source, a... 4th October, 2008
Dermatology Unit,- G Ital Dermatol Venereol. 2008 Oct;143(5):329-37.
- [Cutaneous sarcoidosis in Tunisia.](#)
AIM: Sarcoidosis is a multisystem disease of unknown etiology... 4th October, 2008
Department of Dermatology, Charles Nicolle Hospital, Tunis, Tunisia- G Ital Dermatol Venereol. 2008 Jun;143(3):181-5.

- [Adenosine 5'-Tetraphosphate Is a Highly Potent Purinergic Endothelium-Derived Vasoconstrictor.](#)
*Besides serving as a mechanical barrier, the endothelium has important...*4th October, 2008
Medizinische Klinik IV-Nephrology, and Insitut fur Pathologie,- Circ Res. 2008 Oct 2. ([DOI Direct Link](#))
- [CD4 T cell-mediated rejection of cardiac allografts in B cell-deficient mice.](#)
*CD4 T cell-dependent mechanisms promoting allograft rejection include...*4th October, 2008
Glickman Urological and Kidney Institute, Cleveland Clinic Foundation,- J Immunol. 2008 Oct 15;181(8):5257-63.
- [Lipid Droplet-Associated Proteins Protect Renal Tubular Cells from Fatty Acid-Induced Apoptosis.](#)
*Proteinuria is a major cause of tubulointerstitial kidney damage, and free...*4th October, 2008
From the Department of Internal Medicine,* Division of Nephrology, and the- Am J Pathol. 2008 Oct 2. ([DOI Direct Link](#))
- [Loss of Vitamin D Receptor Produces Polyuria by Increasing Thirst.](#)
*Vitamin D receptor (VDR)-null mice develop polyuria, but the underlying...*4th October, 2008
*Department of Medicine and Committee on Molecular Metabolism and- J Am Soc Nephrol. 2008 Oct 2. ([DOI Direct Link](#))
- [Podocyte-Specific Loss of Functional MicroRNAs Leads to Rapid Glomerular and Tubular Injury.](#)
*MicroRNAs (miRNAs) are in a class of endogenous, small, noncoding RNAs...*4th October, 2008
Departments of *Medicine and ||Pathology and paragraph signStem Cell- J Am Soc Nephrol. 2008 Oct 2. ([DOI Direct Link](#))
- [Clinical practice. Autosomal dominant polycystic kidney disease.](#)
*MicroRNAs (miRNAs) are in a class of endogenous, small, noncoding RNAs...*4th October, 2008
Kidney Institute and the Department of Internal Medicine, Kansas- N Engl J Med. 2008 Oct 2;359(14):1477-85. ([DOI Direct Link](#))
- [A Survey of Nephrologists' Views on Preemptive Transplantation.](#)
*BACKGROUND AND OBJECTIVES: Despite emerging evidence that preemptive...*4th October, 2008
Department of Pharmaceutical Health Services Research, School of Pharmacy,- Clin J Am Soc Nephrol. 2008 Oct 1. ([DOI Direct Link](#))
- [Bone morphogenetic protein-2 antagonizes renal interstitial fibrosis by promoting catabolism of type I TGF- \$\beta\$ receptors.](#)
*TGF-beta is a therapeutic target for renal fibrosis. Scientists have long...*4th October, 2008
Department of Biological Science and Technology, Chung Hwa University of- Endocrinology. 2008 Oct 1. ([DOI Direct Link](#))
- [Changes in hemodynamic and neuro-humoral control cause cardiac damage in 1 kidney, 1 clip hypertensive mice.](#)
*Sympathovagal balance and baroreflex control of heart rate (HR) were...*4th October, 2008
Physiology, School of Medicine of Ribeirao Preto, Ribeirao Preto, Brazil.- Am J Physiol Regul Integr Comp Physiol. 2008 Oct 1. ([DOI Direct Link](#))

BioNews Results for Kidney

- [Ipsilateral Synchronous Neoplasms of Kidney Presenting as Acute Pyelonephritis and Bladder Metastasis](#)
MDLinx: Oct 3 2008 11:33PM Matching: kidney
- [Regional Briefs: Two proposals in Davie for dialysis centers](#)
Winston-Salem Journal: Oct 4 2008 6:18AM Matching: kidney
- [Lack of HAART and Low CD4 Cell Count Are Linked to Non-AIDS-related as well as Opportunistic Conditions](#)
HIV and Hepatitis.com: Oct 4 2008 12:24AM Matching: kidney
- [A comparison between once-weekly and twice- or thrice-weekly subcutaneous injection of epoetin alfa: results f](#)

- MDLinx: Oct 3 2008 9:42PM Matching: kidney
- [3,4-Dideoxyglucosone-3-ene as a mediator of peritoneal demesothelization](#)
MDLinx: Oct 3 2008 4:07AM Matching: kidney
- [Renal Infarction Resulting From Segmental Arterial Injury During Radiofrequency Ablation of Renal Tumor in Pat](#)
MDLinx: Oct 3 2008 9:40PM Matching: kidney
- [Hypertension common, undertreated in pediatric renal patients](#)
MedWire News: Oct 3 2008 6:20PM Matching: kidney
- [Behavioral Management Plans Help Kids Lose Weight](#)
Montana's News Station: Oct 3 2008 6:01PM Matching: kidney
- [StemCells wins NIH grant to develop cell-based therapeutic for hepatitis](#)
Therapeutics Daily: Oct 3 2008 4:14PM Matching: kidney
- [Local Man First Nevadan to Use New Kidney Dialysis Machine](#)
KLAS-TV: Oct 3 2008 10:20AM Matching: kidney
- [U.S. Food & Drug Administration Approved the use of REYATAZ \(atazanavir sulfate\) Boosted with Ritonavir, in Co](#)
Drugs.com: Oct 3 2008 7:35AM Matching: kidney
- [Efficacy and safety of lisinopril for mild childhood IgA nephropathy: a pilot study](#)
MDLinx: Oct 3 2008 4:07AM Matching: kidney
- [Conversion From Mycophenolate Mofetil to Mizoribine for Patients With Positive Polyomavirus Type BK in Urine](#)
MDLinx: Oct 3 2008 4:07AM Matching: kidney
- [Minimal Skin Incision in Living Kidney Transplantation](#)
MDLinx: Oct 3 2008 4:06AM Matching: kidney
- [Ferric gluconate treatment provides cost savings in patients with high ferritin and low transferrin saturation](#)
MDLinx: Oct 3 2008 4:06AM Matching: kidney

Kidney Clinical Trials:



- [Combined Bone Marrow and Kidney Transplant for Multiple Myeloma With Kidney Failure](#)
Kidney Failure, Chronic; Multiple Myeloma

Kidney Patents:



- 7429397- [Herbal formulation as memory enhancer in Alzheimer condition](#)
- 7429480- [Promoter sequences from WSSV immediate early genes and their uses in recombinant DNA techniques](#)

- 7429481- [Targeting viruses using a modified sindbis glycoprotein](#)
- 7429482- [Screening tools for discovery of novel anabolic agents](#)
- 7429485- [Method of producing infectious reovirus](#)
- 7429488- [Method for processing lipoaspirate cells](#)
- 7429491- [Restricted glucose feed for animal cell culture](#)
- 7429543- [Method for the production of a substrate](#)
- 7429551- [Adsorbents for removing heavy metals](#)
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- 7429564- [Oral insulin therapy](#)
- 7429475- [Phytase enzymes, nucleic acid sequences encoding phytase enzymes and vectors and host cells incorporating same](#)
- 7429474- [2-O sulfatase compositions and methods of analyzing therewith](#)
- 7429473- [Diacylglycerol acyltransferase genes, proteins, and uses thereof](#)
- 7429448- [Therapeutic use of the SMR1 protein and active derivatives thereof](#)
- 7429449- [Potassium channel mutants of the yeast Saccharomyces cerevisiae and their use for screening eukaryotic potassium channels](#)
- 7429450- [HIP1 cancer markers](#)
- 7429458- [Methods of using bioelastomers](#)
- 7429459- [Methods for identifying a compound that inhibits the procession of amyloid-beta protein production in a mammalian cell expressing APP and overexpressing a G-protein coupled receptor in the cell](#)
- 7429460- [Methods of screening for inhibitors of phospholipid synthesis related to glycolipid-storage diseases](#)
- 7429461- [Genetic products differentially expressed in tumors and use thereof](#)
- 7429462- [Kits for assays of rapid screening of diabetes](#)
- 7429466- [Methods and arrays for detecting biological molecules](#)
- 7429471- [Regulation of matrix metalloproteinase gene expression using specific and selective electrical and electromagnetic signals](#)
- 7429568- [Glucopyranosyloxypyrazole derivatives and use thereof in medicines](#)
- 7429569- [Compositions and methods for the regulation of homocysteine levels within the body](#)
- 7429618- [Potassium channel modulators](#)
- 7429640- [PRO6181 polypeptides](#)
- 7429641- [PRO9830 polypeptides](#)
- 7429643- [POSH nucleic acids, polypeptides and related methods](#)
- 7429646- [Antibodies to human tumor necrosis factor receptor-like 2](#)
- 7429648- [IREN protein, its preparation and use](#)
- 7429656- [Inhibition of SARS-associated coronavirus \(SCoV\) infection and replication by RNA interference](#)
- 7429681- [Combretastatin analogs with tubulin binding activity](#)
- 7429690- [Transgenic bovines having reduced prion protein production](#)
- 7429812- [Drive unit](#)
- 7429615- [Cyclohexyl prostaglandin analogs as EP.sub.4-receptor agonists](#)
- 7429614- [Medicament containing an effector of the glutathione metabolism together with .alpha.-lipoic acid for treating diabetes mellitus](#)
- 7429608- [Benzo\[d\]imidazol analogs as vanilloid receptor ligands and their use in treatments](#)
- 7429570- [Methods of optimizing drug therapeutic efficacy for treatment of immune-mediated gastrointestinal disorders](#)
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- 7429594- [Substituted heterocyclic compounds and methods of use](#)
- 7429595- [Acyl and sulfonyl derivatives of 6,9-disubstituted 2-\(trans-1,4-diaminocyclohexyl\)-purines and their use as antiproliferative agents](#)

- 7429596- [1H-pyrrolo \[2,3-D\] pyrimidine derivatives and methods of use thereof](#)
- 7429599- [Methods for treating or preventing an inflammatory or metabolic condition or inhibiting JNK](#)
- 7429604- [Six-membered heterocycles useful as serine protease inhibitors](#)
- 7429605- [Phenylpyridine derivatives](#)
- 7430476- [Method for identification of t-cell epitopes and use for preparing molecules with reduced immunogenicity](#)

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