



## Rex L. Jamison

Professor of Medicine, Emeritus and Academic Secretary to the University, Emeritus

Medicine - Nephrology

 Curriculum Vitae available Online

 Resume available Online

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Nephrology
- Member, Cardiovascular Institute

#### ADMINISTRATIVE APPOINTMENTS

- Academic Secretary to the University, Stanford University, (2007-2014)

#### HONORS AND AWARDS

- Rhodes Scholar, Rhodes Trust (1955 - 1957)
- Guggenheim Fellow, John Simon Guggenheim Foundation (1977 - 1978)
- Fellow, American College of Physicians (1985)
- Fellow, Royal College of Physicians (London) (1998)
- Champion of Hope Award, National Kidney Foundation of Northern California (1999)
- Commendation, Department of Veterans Affairs (2003)
- Lifetime Honorary Medical Staff Appointment, Stanford Hospital and Clinics (2014)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- President, Sequoias of Portola Valley Resident Association Board of Directors (2015 - 2016)
- Member, National Kidney Foundation Board of Trustees (1981 - 1986)
- Member, Sequoia Living Board of Directors (2018 - present)

#### PROFESSIONAL EDUCATION

- A.B., University of Iowa , General Science (1955)
- B.A., Oxford University , Physiology (1957)
- M.D., Harvard Medical School , Medicine (1960)
- M.A., Oxford University , Physiology (1961)

#### COMMUNITY AND INTERNATIONAL WORK

- Rhodes Marshall Panel, Stanford University, Stanford University

#### LINKS

- Description of research: <http://www.clinicaltrials.gov/ct/gui/show/NCT00032435>

## Research & Scholarship

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### CLINICAL TRIALS

- Homocysteine Study (HOST), Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Nephrology (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Resolving an 80-yr-old controversy: the beginning of the modern era of renal physiology** *ADVANCES IN PHYSIOLOGY EDUCATION*  
Jamison, R. L.  
2014; 38 (4): 286-295
- **Medication adherence assessment in a clinical trial with centralized follow-up and direct-to-patient drug shipments.** *Clinical trials*  
Warren, S. R., Raisch, D. W., Campbell, H. M., Guarino, P. D., Kaufman, J. S., Petrokaitis, E., Goldfarb, D. S., Gaziano, J. M., Jamison, R. L.  
2013; 10 (3): 441-448
- **Effects of Lowering Homocysteine Levels With B Vitamins on Cardiovascular Disease, Cancer, and Cause-Specific Mortality Meta-analysis of 8 Randomized Trials Involving 37 485 Individuals** *ARCHIVES OF INTERNAL MEDICINE*  
Clarke, R., Halsey, J., Lewington, S., Lonn, E., Armitage, J., Manson, J. E., Bona, K. H., Spence, J. D., Nygard, O., Jamison, R., Gaziano, J. M., Guarino, P., Bennett, et al  
2010; 170 (18): 1622-1631
- **Homocysteine Lowering and Cognition in CKD: The Veterans Affairs Homocysteine Study** *AMERICAN JOURNAL OF KIDNEY DISEASES*  
Brady, C. B., Gaziano, J. M., Cxypoliski, R. A., Guarino, P. D., Kaufman, J. S., Warren, S. R., Hartigan, P., Goldfarb, D. S., Jamison, R. L.  
2009; 54 (3): 440-449
- **Effect of the MTHFR C677T and A1298C Polymorphisms on Survival in Patients With Advanced CKD and ESRD: A Prospective Study** *AMERICAN JOURNAL OF KIDNEY DISEASES*  
Jamison, R. L., Shih, M., Humphries, D. E., Guarino, P. D., Kaufman, J. S., Goldfarb, D. S., Warren, S. R., Gaziano, J. M., Lavori, P.  
2009; 53 (5): 779-789
- **Effect of homocysteine lowering on mortality and vascular disease in advanced chronic kidney disease and end-stage renal disease - A randomized controlled trial** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Jamison, R. L., Hartigan, P., Kaufman, J. S., Goldfarb, D. S., Warren, S. R., Guarino, P. D., Gaziano, J. M.  
2007; 298 (10): 1163-1170
- **Countercurrent exchange in the renal medulla** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Pallone, T. L., Turner, M. R., Edwards, A., Jamison, R. L.  
2003; 284 (5): R1153-R1175
- **Reflections by Rex L. Jamison** *The Stanford Senate of the Academic Council. Reflections on Fifty Years of faculty Governance, 1968-2018.*  
Jamison, R. L., Weiler, H. N., et al  
edited by Stansky, P., Ris, E. W., Schofield, S. W., et al  
Stanford University Office of the Academic Secretary with the support of the Stanford Historical Society.2018: 180-185
- **Space exploration** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*  
Jamison, R. L.  
2015; 309 (12): F1003-F1004
- **Homocysteine-lowering trials for prevention of cardiovascular events: A review of the design and power of the large randomized trials** *AMERICAN HEART JOURNAL*

- Clarke, R., Armitage, J., Lewington, S., Sherliker, P., Collins, R., Brown, M., Blackwood, S., Bostom, A., Loan, E., Yusuf, S., Genest, J., Bona, K., Njolstad, et al  
2006; 151 (2): 282-287
- **Design and statistical issues in the Homocysteinemia in Kidney and End Stage Renal Disease (HOST) Study.** *Clinical Trials*  
Jamison RL, Hartigan P, Gaziano JM, Fortmann SP, Goldfarb DS, Haroldson JA, Lavori P, McCully KS, Robinson K  
2004; 1 (5): 451-460
  - **Urinary concentrating mechanism** *MEMBRANE TRANSPORT AND RENAL PHYSIOLOGY*  
Jamison, R. L.  
2002; 129: 177-192
  - **Natriuretic peptide B receptor and C-type natriuretic peptide in the rat kidney** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*  
Lohe, A., Yeh, I., HYVER, T., Pratt, R., Jamison, R.  
1995; 6 (6): 1552-1558
  - **RENAL EFFECTS OF SEVOFLURANE** *ANESTHESIOLOGY*  
Mazze, R. I., Jamison, R.  
1995; 83 (3): 443-445
  - **DETERMINATION OF BLOOD-FLOW TO THE TRANSPLANTED KIDNEY - A NOVEL APPLICATION OF PHASE-CONTRAST, CINE MAGNETIC-RESONANCE-IMAGING** *TRANSPLANTATION*  
Myers, B. D., Sommer, F. G., Li, K., Tomlanovich, S., Pelc, N., McDonnell, C., PAGTALUNAN, E., Newton, L., Jamison, R.  
1994; 57 (10): 1445-1450
  - **TRANSPORT OF SODIUM AND UREA IN OUTER MEDULLARY DESCENDING VASA-RECTA** *JOURNAL OF CLINICAL INVESTIGATION*  
Pallone, T. L., Work, J., Myers, R. L., Jamison, R. L.  
1994; 93 (1): 212-222
  - **REGULATION OF PLATELET CLEARANCE RECEPTORS FOR ATRIAL-NATRIURETIC-PEPTIDE IN DIABETIC NEPHROPATHY** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*  
CANAANKUHL, S., PARRAROIDE, L., Bialek, J. W., Jamison, R. L., Myers, B. D.  
1992; 3 (2): 236-243
  - **NORMAL RENAL BLOOD-FLOW MEASUREMENT USING PHASE-CONTRAST CINE MAGNETIC-RESONANCE-IMAGING** *INVESTIGATIVE RADIOLOGY*  
Sommer, G., NOORBEHESHT, B., Pelc, N., Jamison, R., Pinevich, A. J., Newton, L., Myers, B.  
1992; 27 (6): 465-470
  - **Urinary concentration and dilution: physiology.** *Handbook of Physiology. Sect.8: Renal Physiology. New York:Oxford University Press*  
Jamison RL, Gehrig JJ.  
1992: 1219-1279
  - **RESISTANCE OF DESCENDING VASA RECTA TO THE TRANSPORT OF WATER** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Pallone, T. L., Work, J., Jamison, R. L.  
1990; 259 (4): F688-F697
  - **RENAL MEDULLARY MICROCIRCULATION** *PHYSIOLOGICAL REVIEWS*  
Pallone, T. L., Robertson, C. R., Jamison, R. L.  
1990; 70 (3): 885-920
  - **EFFECT OF SMALL-SOLUTE GRADIENTS ON TRANS-CAPILLARY FLUID MOVEMENT IN RENAL INNER MEDULLA** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Pallone, T. L., Yagil, Y., Jamison, R. L.  
1989; 257 (4): F547-F553
  - **INNER MEDULLARY BLOOD-FLOW IN POSTISCHEMIC ACUTE RENAL-FAILURE IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Yagil, Y., Miyamoto, M., Jamison, R. L.  
1989; 256 (3): F456-F461
  - **EFFECT OF URETERAL EXCISION ON INNER MEDULLARY SOLUTE CONCENTRATION IN RATS** *AMERICAN JOURNAL OF PHYSIOLOGY*

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- Pallone, T. L., Jamison, R. L.  
1988; 255 (6): F1225-F1229
- **EFFECTS OF INTRARENAL ADENOSINE ON RENAL-FUNCTION AND MEDULLARY BLOOD-FLOW IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Miyamoto, M., Yagil, Y., Larson, T., Robertson, C., Jamison, R. L.  
1988; 255 (6): F1230-F1234
  - **EFFECT OF LONG-TERM, ALTERNATE DAY FEEDING ON RENAL-FUNCTION IN AGING CONSCIOUS RATS** *KIDNEY INTERNATIONAL*  
GEHRIG, J. J., Ross, J., Jamison, R. L.  
1988; 34 (5): 620-630
  - **UREA FLUX IN THE URETER** *AMERICAN JOURNAL OF PHYSIOLOGY*  
WALSER, B. L., Yagil, Y., Jamison, R. L.  
1988; 255 (2): F244-F249
  - **COURSE AND PATHOGENESIS OF POSTISCHEMIC ACUTE RENAL-FAILURE IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Yagil, Y., Myers, B. D., Jamison, R. L.  
1988; 255 (2): F257-F264
  - **MICROPUNCTURE STUDY OF THE EFFECT OF ANP ON THE PAPILLARY COLLECTING DUCT IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
VANDESTOLPE, A., Jamison, R. L.  
1988; 254 (4): F477-F483
  - **THE EFFECT OF INTRARENAL ADENOSINE ON RENAL EXCRETORY FUNCTION AND HEMODYNAMICS IN THE RAT**  
Yagil, Y., Miyamoto, M., Larson, T., Robertson, C. R., Jamison, R. L.  
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  - **HORMONE RECEPTOR INTERACTIONS - DISCUSSION** *KIDNEY INTERNATIONAL*  
BRENNER, B. M., Schrier, R. W., Striker, G. E., Brown, D., Rabkin, R., Jamison, R. L., Hammerman, M. R., Seifter, J. L., Daniel, T. O., SKORECKI, C. L., FINE, L. G.  
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1987; 32: S208-S210
  - **EFFECT OF ADRENALECTOMY ON TRANSPORT IN THE RAT MEDULLARY THICK ASCENDING LIMB** *JOURNAL OF CLINICAL INVESTIGATION*  
Work, J., Jamison, R. L.  
1987; 80 (4): 1160-1164
  - **EFFECT OF V2-RECEPTOR-MEDIATED CHANGES ON INNER MEDULLARY BLOOD-FLOW INDUCED BY AVP** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Kiberd, B., Robertson, C. R., Larson, T., Jamison, R. L.  
1987; 253 (3): F576-F581
  - **THE RENAL CONCENTRATING MECHANISM** *KIDNEY INTERNATIONAL*  
JAMISON, R. J.  
1987; 32: S43-S50
  - **EFFECT OF ATRIAL-NATRIURETIC-PEPTIDE ON VASA RECTA BLOOD-FLOW IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Kiberd, B. A., Larson, T. S., Robertson, C. R., Jamison, R. L.  
1987; 252 (6): F1112-F1117
  - **POTASSIUM RECYCLING** *KIDNEY INTERNATIONAL*  
Jamison, R. L.  
1987; 31 (3): 695-703

- **TRIBUTE TO BERLINER,ROBERT** *KIDNEY INTERNATIONAL*  
Jamison, R. L.  
1987; 31 (2): 502-506
- **THE MEDULLARY MICROCIRCULATION** *KIDNEY INTERNATIONAL*  
ZIMMERHACKL, B. L., Robertson, C. R., Jamison, R. L.  
1987; 31 (2): 641-647
- **SHORT AND LONG LOOP NEPHRONS** *KIDNEY INTERNATIONAL*  
Jamison, R. L.  
1987; 31 (2): 597-605
- **POTASSIUM RECYCLING** *CURRENT TOPICS IN MEMBRANES AND TRANSPORT*  
Jamison, R. L., MULLERSUUR, R.  
1987; 28: 115-131
- **THE SHAPE OF RENAL VASA RECTA CAPILLARIES AND ITS EFFECT ON CALCULATION OF SINGLE CAPILLARY BLOOD-FLOW** *MICROVASCULAR RESEARCH*  
Lemley, K. V., Zimmerhackl, B., Jamison, R. L., Kriz, W.  
1986; 32 (1): 1-20
- **EFFECT OF INTERMITTENT FEEDING ON RENAL HEMODYNAMICS IN CONSCIOUS RATS** *AMERICAN JOURNAL OF PHYSIOLOGY*  
GEHRIG, J. J., Jamison, R. L., Baylis, C., Troy, J. L., BRENNER, B. M., Jamison, R. L.  
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- **ROLE OF V2 RECEPTOR IN ARGININE VASOPRESSIN (AVP) EFFECT ON VASA RECTA BLOOD-FLOW**  
Kiberd, B., Robertson, C. R., Jamison, R. L.  
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- **THE MICROCIRCULATION OF THE RENAL MEDULLA** *CIRCULATION RESEARCH*  
Zimmerhackl, B., Robertson, C. R., Jamison, R. L.  
1985; 57 (5): 657-667
- **FLUID UPTAKE IN THE RENAL PAPILLA BY VASA RECTA ESTIMATED BY 2 METHODS SIMULTANEOUSLY** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Zimmerhackl, B., Robertson, C. R., Jamison, R. L.  
1985; 248 (3): F347-F353
- **THE VARIABLE HYPONATREMIC RESPONSE TO HYPERGLYCEMIA** *WESTERN JOURNAL OF MEDICINE*  
Moran, S. M., Jamison, R. L.  
1985; 142 (1): 49-53
- **EFFECT OF ACUTE POTASSIUM LOAD ON REABSORPTION IN HENLES LOOP IN CHRONIC RENAL-FAILURE IN THE RAT** *KIDNEY INTERNATIONAL*  
Milanes, C. L., Jamison, R. L.  
1985; 27 (6): 919-927
- **VIDEOMICROSCOPIC METHOD FOR DIRECT DETERMINATION OF BLOOD-FLOW TO THE PAPILLA OF THE KIDNEY** *ANNALS OF BIOMEDICAL ENGINEERING*  
Jamison, R. L., Zimmerhackl, B., Robertson, C. R.  
1985; 13 (3-4): 273-280
- **EFFECT OF ARGININE VASOPRESSIN ON RENAL MEDULLARY BLOOD-FLOW - A VIDEOMICROSCOPIC STUDY IN THE RAT** *JOURNAL OF CLINICAL INVESTIGATION*  
Zimmerhackl, B., Robertson, C. R., Jamison, R. L.  
1985; 76 (2): 770-778
- **VIDEOMICROSCOPIC METHOD FOR DIRECT DETERMINATION OF BLOOD-FLOW TO THE PAPILLA OF THE KIDNEY** *ANNALS OF BIOMEDICAL ENGINEERING*  
Jamison, R. L., Zimmerhackl, B., Robertson, C. R.

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- **EFFECT OF ARGININE VASOPRESSIN ON RENAL MEDULLARY BLOOD-FLOW - A VIDEOMICROSCOPIC STUDY IN THE RAT** *JOURNAL OF CLINICAL INVESTIGATION*  
Zimmerhackl, B., Robertson, C. R., Jamison, R. L.  
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- **PROSTAGLANDIN SYNTHESIS INHIBITORS AND VASA RECTA ERYTHROCYTE VELOCITIES IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Lemley, K. V., SCHMITT, S. L., Holliger, C., Dunn, M. J., Robertson, C. R., Jamison, R. L.  
1984; 247 (4): F562-F567
- **DIGITAL CROSS-CORRELATION FOR ONLINE DETERMINATION OF SINGLE VESSEL BLOOD-FLOW IN THE MAMMALIAN KIDNEY IN EPI-ILLUMINATION**  
Zimmerhackl, B., TINSMAN, J. E., Jamison, R. L., Robertson, C. R.  
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- **EXAMINATION OF TRANS-EPITHELIAL EXCHANGE OF WATER AND SOLUTE IN THE RAT RENAL PELVIS** *JOURNAL OF CLINICAL INVESTIGATION*  
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1984; 74 (5): 1860-1870
- **STRUCTURE AND FUNCTION OF THE RENAL PAPILLA** *SEMINARS IN NEPHROLOGY*  
DOBYAN, D. C., Jamison, R. L.  
1984; 4 (1): 5-26
- **A PATIENT WITH POLYURIA AND HYPONATREMIA** *KIDNEY INTERNATIONAL*  
Jamison, R. L., Bohman, B., Marshall, W. H., Berns, A., Coe, F., Donohoe, J., Glynn, J., Muldowney, F., Vinay, P., Bushinsky, D., McCoy, C. E., Madias, N. E., Harrington, et al  
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- **DETERMINATION OF BLOOD-FLOW IN THE RENAL PAPILLA BY DIRECT TELEVISION MICROSCOPY**  
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BLACKWELL SCIENCE INC.1983: 622-22
- **DIRECT DETERMINATION OF RENAL PAPILLARY BLOOD-FLOW**  
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- **DIETARY-PROTEIN, GLOMERULAR HYPEREMIA, AND PROGRESSIVE RENAL-FAILURE** *ANNALS OF INTERNAL MEDICINE*  
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- **EFFECT OF ACUTE POTASSIUM LOAD ON REABSORPTION IN HENLE LOOP IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
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- **DIRECT DETERMINATION OF VASA RECTA BLOOD-FLOW IN THE RAT RENAL PAPILLA** *CIRCULATION RESEARCH*  
Holliger, C., Lemley, K. V., SCHMITT, S. L., Thomas, F. C., Robertson, C. R., Jamison, R. L.  
1983; 53 (3): 401-413
- **THE RENAL CONCENTRATING MECHANISM - MICROPUNCTURE STUDIES OF THE RENAL MEDULLA** *FEDERATION PROCEEDINGS*  
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- **SURREPTITIOUS DIURETIC INGESTION AND PSEUDO-BARTTERS SYNDROME** *AMERICAN JOURNAL OF MEDICINE*  
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- **VASA RECTA BLOOD-FLOW - DETERMINATION OF FLOW PARAMETERS**  
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- **MEASURING SPECIFIC-GRAVITY OF URINE** *LANCET*  
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- **EFFECTS OF ACUTE ACID-BASE DISTURBANCES ON RENAL TUBULE REABSORPTION OF MAGNESIUM IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Roy, D. R., Blouch, K. L., Jamison, R. L.  
1982; 243 (2): F197-F203
- **DISORDERS OF URINARY CONCENTRATION AND DILUTION** *AMERICAN JOURNAL OF MEDICINE*  
Jamison, R. L., Oliver, R. E.  
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- **URINARY CONCENTRATION IN THE PAPILLARY COLLECTING DUCT OF THE RAT - ROLE OF THE URETER** *JOURNAL OF CLINICAL INVESTIGATION*  
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- **EFFECT OF FUROSEMIDE ON SODIUM AND POTASSIUM FLOW AT THE END OF THE JUXTAMEDULLARY DESCENDING-LIMB IN PSAMMOMYS-OBESUS** *RENAL PHYSIOLOGY AND BIOCHEMISTRY*  
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- **EFFECTS OF ACUTE ACID-BASE DISTURBANCES ON K<sup>+</sup> DELIVERY TO THE JUXTAMEDULLARY END-DESCENDING LIMB** *AMERICAN JOURNAL OF PHYSIOLOGY*  
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- **NEW PATHWAYS FOR POTASSIUM-TRANSPORT IN THE KIDNEY** *AMERICAN JOURNAL OF PHYSIOLOGY*  
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- **POTASSIUM RECYCLING IN THE RENAL MEDULLA AND NEWER ASPECTS OF POTASSIUM-TRANSPORT** *SEMINARS IN NEPHROLOGY*  
SUFIT, C. R., Jamison, R. L.  
1982; 2 (4): 328-335
- **MICROPUNCTURE STUDY OF THE SUPERFICIAL NEPHRON OF PEROGNATHUS-PENICILLATUS** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Braun, E. J., Roy, D. R., Jamison, R. L.  
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  - **TERMINAL PAPILLARY COLLECTING DUCT REABSORPTION OF WATER, SODIUM, AND POTASSIUM IN PSAMMOMYS-OBESUS** *AMERICAN JOURNAL OF PHYSIOLOGY*  
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  - **DIABETES-INSIPIDUS - A PHYSIOLOGIC APPROACH TO DIAGNOSIS** *POSTGRADUATE MEDICINE*  
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  - **Questions and replies: role of the collecting tubule in fluid, sodium, and potassium balance.** *The American journal of physiology*  
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GUSSIS, G. L., Jamison, R. L., Robertson, C. R.  
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  - **ACUTE RENAL-FAILURE FOLLOWING CARDIAC-SURGERY** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
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