





## 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

#### 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, Northern California Presbyterian Homes and Services 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>

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Nephrology (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Space exploration.** *American journal of physiology. Renal physiology*  
Jamison, R. L.  
2015; 309 (12): F1003-4
- **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., Bonaa, 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
- **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., Bonaa, 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
- **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
- **Urinary concentrating mechanism** *MEMBRANE TRANSPORT AND RENAL PHYSIOLOGY*  
Jamison, R. L.  
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- **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.  
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- **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*  
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*  
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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.  
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- **UREA FLUX IN THE URETER** *AMERICAN JOURNAL OF PHYSIOLOGY*  
WALSER, B. L., Yagil, Y., Jamison, R. L.  
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- **COURSE AND PATHOGENESIS OF POSTISCHEMIC ACUTE RENAL-FAILURE IN THE RAT** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Yagil, Y., Myers, B. D., Jamison, R. L.  
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- **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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Jamison, R. L., Hammerman, M. R., Kurokawa, K., Handler, J. S., Stokes, J. B., Brown, D., Schrier, R. W., Brown, J., Ausiello, D. A., Dousa, T. P., Masur, S. K., Goligorsky, M. S.  
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- **EFFECT OF ADRENALECTOMY ON TRANSPORT IN THE RAT MEDULLARY THICK ASCENDING LIMB** *JOURNAL OF CLINICAL INVESTIGATION*  
Work, J., Jamison, R. L.  
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- **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.  
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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.  
1986; 250 (3): F566-F572
- **ROLE OF V2 RECEPTOR IN ARGININE VASOPRESSIN (AVP) EFFECT ON VASA RECTA BLOOD-FLOW**  
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- **THE MICROCIRCULATION OF THE RENAL MEDULLA** *CIRCULATION RESEARCH*  
Zimmerhackl, B., Robertson, C. R., Jamison, R. L.  
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- **EFFECT OF ARGININE VASOPRESSIN (AVP) ON VASA RECTA BLOOD-FLOW**  
Zimmerhackl, B., Robertson, C. R., Jamison, R. L.  
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- **USE OF DIGITAL CROSS-CORRELATION FOR ONLINE DETERMINATION OF SINGLE-VESSEL BLOOD-FLOW IN THE MAMMALIAN KIDNEY** *MICROVASCULAR RESEARCH*  
Zimmerhackl, B., TINSMAN, J., Jamison, R. L., Robertson, C. R.  
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- **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
- **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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  - **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  
1983; 24 (2): 256-267
  - **DETERMINATION OF BLOOD-FLOW IN THE RENAL PAPILLA BY DIRECT TELEVISION MICROSCOPY**  
Jamison, R. L., Robertson, C. R., Zimmerhackl, B.  
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  - **DIRECT DETERMINATION OF RENAL PAPILLARY BLOOD-FLOW**  
Jamison, R. L., Holliger, C., Lemley, K. V., SCHMITT, S. L., Thomas, F. C., Robertson, C. R.  
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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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  - **GLOMERULAR AND TUBULAR FUNCTION IN NONOLIGURIC ACUTE-RENAL-FAILURE** *AMERICAN JOURNAL OF MEDICINE*  
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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.  
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- **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*  
Oliver, R. E., Roy, D. R., Jamison, R. L.  
1982; 69 (1): 157-164
- **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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1982; 5 (3): 105-114
- **EFFECTS OF ACUTE ACID-BASE DISTURBANCES ON K<sup>+</sup> DELIVERY TO THE JUXTAMEDULLARY END-DESCENDING LIMB** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Roy, D. R., Blouch, K. L., Jamison, R. L.  
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- **POTASSIUM RECYCLING IN THE RENAL MEDULLA AND NEWER ASPECTS OF POTASSIUM-TRANSPORT** *SEMINARS IN NEPHROLOGY*  
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- **MICROPUNCTURE STUDY OF THE SUPERFICIAL NEPHRON OF PEROGNATHUS-PENICILLATUS** *AMERICAN JOURNAL OF PHYSIOLOGY*  
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- **POTASSIUM RECYCLING IN THE RENAL MEDULLA - EFFECTS OF ACUTE KCL ADMINISTRATION TO RATS FED A POTASSIUM-FREE DIET** *KIDNEY INTERNATIONAL*  
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- **PHOSPHATE REABSORPTION IN JUXTAMEDULLARY NEPHRON TERMINAL SEGMENTS** *PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY*  
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1979; 16 (5): 537-545
- **ERYTHROCYTE VELOCITY IN VASA RECTA - EFFECT OF ANTI-DIURETIC HORMONE AND SALINE LOADING** *AMERICAN JOURNAL OF PHYSIOLOGY*  
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