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Nowak N, Skupien J, Smiles AM, Yamanouchi M, Niewczas MA, Galecki AT, Duffin KL, Breyer MD, Pulle

Title
Urine peptidomic biomarkers for diagnosis of patients with systematic lupus erythematosus
Collagen-Derived Peptides in CKD: A Link to Fibrosis
Comparison of Urine and Plasma Peptidome Indicates Selectivity in Renal Peptide Handling
Association of kidney fibrosis with urinary peptides: a path towards non-invasive liquid biopsies?
Urinary proteomics predict onset of microalbuminuria in normoalbuminuric type 2 diabetic patients, a
Urinary proteomics for prediction of mortality in patients with type 2 diabetes and microalbuminuria
Urine biomarkers of chronic kidney damage and renal functional decline in childhood-onset systemic l
Urinary Activin A is a novel biomarker reflecting renal inflammation and tubular damage in ANCA-asso
Comparative differential proteomic analysis of minimal change disease and focal segmental glomerulo
Urinary CD80 excretion is a predictor of good outcome in children with primary nephrotic syndrome
Urinary CD80 Discriminates Among Glomerular Disease Types and Reflects Disease Activity
Noninvasive Urinary Monitoring of Progression in IgA Nephropathy
Urine Uromodulin as a Biomarker of Kidney Tubulointerstitial Fibrosis
Urinary Galectin-3 as a Novel Biomarker for the Prediction of Renal Fibrosis and Kidney Disease Progre
Matrix Metalloproteinase-7 Is a Urinary Biomarker and Pathogenic Mediator of Kidney Fibrosis
Novel Urinary Biomarkers For Improved Prediction Of Progressive Egfr Loss In Early Chronic Kidney Dis
Urinary Dickkopf-3: a new biomarker for CKD progression and mortality
Early detection of diabetic kidney disease by urinary proteomics and subsequent intervention with spi
A Novel Urinary Proteomics Classifier for Non-Invasive Evaluation of Interstitial Fibrosis and Tubular At
Molecular Mapping of Urinary Complement Peptides in Kidney Diseases
Urine proteomics for prediction of disease progression in patients with IgA nephropathy
Urine peptidome analysis predicts risk of end-stage renal disease and reveals proteolytic pathways inv
Predicting albuminuria response to spironolactone treatment with urinary proteomics in patients with
CKD273 Enables Efficient Prediction of Diabetic Nephropathy in Nonalbuminuric Patients
Biomarkers of inflammation and repair in kidney disease progression
Proteasuria in nephrotic syndrome-quantification and proteomic profiling
Urinary EGF and MCP-1 and risk of CKD after cardiac surgery
A panel of urinary proteins predicts active lupus nephritis and response to rituximab treatment
Urinary Growth Differentiation Factor-15 (GDF15) levels as a biomarker of adverse outcomes and biop
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Dickkopf-3 in the prediction of contrast media induced acute kidney injury
Association Between Urinary Epidermal Growth Factor and Renal Prognosis in Lupus Nephritis
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Associations of urinary epidermal growth factor and monocyte chemotactic protein-1 with kidney invo
Urinary peptidomics and bioinformatics for the detection of diabetic kidney disease
Differential Urinary Proteome Analysis for Predicting Prognosis in Type 2 Diabetes Patients with and w
Rapid, proteomic urine assay for monitoring progressive organ disease in Fabry disease
Circulating kidney injury molecule-1 as a biomarker of renal parameters in diabetic kidney disease
Assessment of urinary NGAL for differential diagnosis and progression of diabetic kidney disease
Association between urinary dickkopf-3, acute kidney injury, and subsequent loss of kidney function in
Urinary NGAL and RBP Are Biomarkers of Normoalbuminuric Renal Insufficiency in Type 2 Diabetes Me
Urinary biomarkers of tubular injury to predict renal progression and end stage renal disease in type 2
Markers of Collagen Formation and Degradation Reflect Renal Function and Predict Adverse Outcome
Dickkopf-3 (DKK3) in Urine Identifies Patients with Short-Term Risk of eGFR Loss
Markers of Glomerular and Tubular Damage in the Early Stage of Kidney Disease in Type 2 Diabetic Pat
Urinary epidermal growth factor, monocyte chemoattractant protein-1 or their ratio as predictors for
Urinary Proteomics for the Early Diagnosis of Diabetic Nephropathy in Taiwanese Patients
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Cost-effectiveness of screening type 2 diabetes patients for chronic kidney disease progression with th

Urine Proteomics Revealed a Significant Correlation Between Urine-Fibronectin Abundance and Estima
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Urinary endotrophin predicts disease progression in patients with chronic kidney disease
The urinary proteomics classifier chronic kidney disease 273 predicts cardiovascular outcome in patier
Noninvasive diagnosis of chronic kidney diseases using urinary proteome analysis
Prediction of Chronic Kidney Disease Stage 3 by CKD273, a Urinary Proteomic Biomarker
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Neutrophil Gelatinase–Associated Lipocalin (NGAL) as a Marker of Kidney Damage
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Abstract Note
Background Systematic lupus erythematosus (SLE) is characterized with various complications which c
Collagen is a major component of the extracellular matrix (ECM) and has an imminent role in fibrosis, i
PURPOSE: Urine is considered to be produced predominantly as a result of plasma filtration in the kidr
Chronic kidney disease (CKD) is a prevalent cause of morbidity and mortality worldwide. A hallmark of
BACKGROUND: Early prevention of diabetic nephropathy is not successful as early interventions have s
BACKGROUND: The urinary proteomic classifier CKD273 has shown promise for prediction of progress
OBJECTIVES: To delineate urine biomarkers that reflect kidney structural damage and predict renal fur
Activin A, a member of the transforming growth factor-beta superfamily, is a critical modulator of infla
BACKGROUND: Minimal change disease (MCD) and primary focal segmental glomerulosclerosis (FSGS)
BACKGROUND: The level of urinary cluster of differentiation 80 (uCD80) is elevated in most children w
INTRODUCTION: Heterogeneity of nephrotic diseases and a lack of validated biomarkers limits interve
Standard methods for detecting and monitoring of IgA nephropathy (IgAN) have conventionally requir
BACKGROUND AND OBJECTIVES: Uromodulin, produced exclusively in the kidney's thick ascending lim
Plasma galectin-3 (Gal-3) is associated with organ fibrosis, but whether urinary Gal-3 is a potential bior
Matrix metalloproteinase-7 (MMP-7), a secreted zinc- and calcium-dependent endopeptidase, is a trar
Chronic kidney disease is associated with increased risk of CKD progression and death. Therapeutic ap
BACKGROUND: Kidney fibrosis has been reported to be a prognostic factor in chronic kidney disease ((
BACKGROUND: Microalbuminuria is an early sign of kidney disease in people with diabetes and indicat
Non-invasive urinary peptide biomarkers are able to detect and predict chronic kidney disease (CKD). I
Defective complement activation has been associated with various types of kidney disease. This led to
BACKGROUND: Risk of kidney function decline in immunoglobulin A (IgA) nephropathy (IgAN) is signifi
BACKGROUND: Autosomal dominant polycystic kidney disease (ADPKD) is characterized by slowly prog
BACKGROUND: The mineralocorticoid receptor antagonist spironolactone significantly reduces albumi
INTRODUCTIONAcute kidney injury and chronic kidney disease (CKD) are common in hospitalized patie
Nephrotic syndrome is characterized by urinary excretion of plasma proteases or proteasuria. There is
BACKGROUNDAssessment of chronic kidney disease (CKD) risk after acute kidney injury (AKI) is based
OBJECTIVES: 30% of patients with SLE develop LN. Presence and/or severity of LN are currently asses
BACKGROUND: Growth Differentiation Factor-15 (GDF15) is a member of the TGF-β superfamily. Incre
BACKGROUND: Lower urinary excretion of the kidney tubule-specific biomarker epidermal growth fact
BACKGROUND: Dickkopf-3 (DKK3) has recently been discovered as a urinary biomarker for the predict
OBJECTIVE: To evaluate the role of urinary epidermal growth factor (EGF) as a biomarker of chronic kic
BACKGROUND: Interstitial fibrosis and tubular atrophy (IFTA) is a well-recognized risk factor for poor r
BACKGROUND: In diabetic kidney disease (DKD), it is important to find biomarkers for predicting initia
The aim of this study was to establish a peptidomic profile based on LC-MS/MS and random forest (RF
Renal dysfunction, a major complication of type 2 diabetes, can be predicted from estimated glomerul
BACKGROUND: Fabry disease is a progressive multisystemic disease, which affects the kidney and card
AIMS/INTRODUCTION: Urinary kidney injury molecule-1 (KIM-1) has been associated with proximal tul
OBJECTIVE: Chronic kidney disease (CKD) related to diabetes has become more common than glomeru
BACKGROUND: Cardiac surgery is associated with a high risk of postoperative acute kidney injury (AKI)
OBJECTIVES: As a screening index of diabetic kidney disease (DKD), urinary albumin/creatine ratio (UA
BACKGROUND: Novel potential tubular biomarkers in diabetic nephropathy could improve risk stratific
OBJECTIVE: Patients with type 1 diabetes (T1D) have a higher risk of developing chronic kidney disease
BACKGROUND: The individual course of CKD may vary, and improved methods for identifying which pa
Diabetic kidney disease develops in half of genetically predisposed patients with type 2 diabetes (T2DI
BACKGROUND: Increased monocyte chemoattractant protein-1 (MCP-1) and decreased epidermal gro
Diabetic nephropathy (DN) is a major complication in diabetic patients. Microalbuminuria testing is use
BACKGROUND: Alport syndrome is a rare hereditary kidney disease manifested with progressive renal
BACKGROUND: In type 2 diabetes mellitus (T2DM) patients, chronic kidney disease (CKD) progression

BACKGROUND: /Aims: Renal disease is a common cause of morbidity in patients with Bardet-Biedl syn

Urinary matrix metalloproteinase-7 (uMMP-7) levels consistently reflect the activity of intrarenal Wnt/

BACKGROUND: Several novel biomarkers that predict acute kidney injury (AKI) have recently been pro

Renal fibrosis is the central pathogenic process in progression of chronic kidney disease (CKD). Collage

BACKGROUND: The urinary proteomic classifier chronic kidney disease 273 (CKD273) is predictive for t

BACKGROUND: In spite of its invasive nature and risks, kidney biopsy is currently required for precise d

INTRODUCTION: CKD273 is a urinary biomarker, which in advanced chronic kidney disease predicts fur

Chronic kidney disease (CKD) is characterized by the loss of kidney function. The molecular mechanism

Renal tubular atrophy and interstitial fibrosis are common hallmarks of etiologically different progress

Background: The epidermal growth factor (EGF) is a globular protein that is generated

The current standard of care measures for kidney function, proteinuria, and serum creatinine (SCr) are

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2018-01	2023-01-18 21:31	2023-01-18 21:31		6-16	
2021-12-23	2023-01-18 21:31	2023-01-18 21:31		10	
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Issue	Volume	Number Of Volumes	Journal Abbreviation
1	27		Lupus
1	14		Toxins (Basel)
5	12		Proteomics Clin Appl
1	7		Sci Rep
11	32		Nephrol Dial Transplant
1	17		Cardiovasc Diabetol
1	34		Pediatr Nephrol
10	14		PLoS One
1	18		BMC Nephrol
7	33		Pediatr Nephrol
11	5		Kidney Int Rep
18	20		Int J Mol Sci
9	17		Clin J Am Soc Nephrol
3	10		Biomedicines
2	28		J Am Soc Nephrol
1	8		Sci Rep
12	36		Nephrol Dial Transplant
4	8		Lancet Diabetes Endocrinol
3	9		Proteomes
4	9		Proteomes
1	37		Nephrol Dial Transplant
3	32		Nephrol Dial Transplant
2	33		Nephrol Dial Transplant
1	42		Diabetes Care
3	131		J Clin Invest
	230		J Proteomics
11	6		JCI Insight
8	60		Rheumatology (Oxford)
6	34		J Nephrol
10	36		Nephrol Dial Transplant
3	34		J Nephrol
2	73		Arthritis Rheumatol
2	36		Nephrol Dial Transplant
2	35		Nephrol Dial Transplant
1	10		Sci Rep
12	21		Int J Mol Sci
1	57		J Med Genet
2	11		J Diabetes Investig
10	34		J Diabetes Complications
10197	394		Lancet
	2019		J Immunol Res
9	33		J Diabetes Complications
9	42		Diabetes Care
11	29		J Am Soc Nephrol
	2018		Mediators Inflamm
1	19		BMC Nephrol
12	7		J Clin Med
10	33		Pediatr Nephrol
3	33		Nephrol Dial Transplant

2	43	Kidney Blood Press Res
11	28	J Am Soc Nephrol
12	32	Pediatr Nephrol
1	7	Sci Rep
5	36	Nephrol Dial Transplant
12	32	Nephrol Dial Transplant
6	2	Kidney Int Rep
1	17	PLoS One
1	1	JCI Insight
5	53	Am J Nephrol
3	52	American Journal of Kidney Diseases
4	8	JCM
		Kidney Int.

Short Title
Collagen-Derived Peptides in CKD
Association of kidney fibrosis with urinary peptides
Urinary Dickkopf-3
Early detection of diabetic kidney disease by urinary proteomics and subsequent intervention with spi
Association between urinary dickkopf-3, acute kidney injury, and subsequent loss of kidney function ir
Urinary biomarkers of tubular injury to predict renal progression and end stage renal disease in type 2

Urinary Epidermal Growth Factor

Series	Series Number	Series Text	Series Title	Publisher	Place	Language
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Extra	Notes
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Automatic Tags
Biomarkers; Case-Control Studies; Electrophoresis, Capillary; Humans; Lupus Erythematosus, Systemic
Biomarkers; CE-MS; chronic kidney disease; Collagen; collagen alpha-1(I) chain; fibrosis; Fibrosis; Pepti
Chromatography, Liquid; Humans; Kidney; peptide sequencing; Peptides; peptidomics; plasma; Proteo
Adult; Collagen; Electrophoresis, Capillary; Female; Fibrosis; Humans; Kidney; Liquid Biopsy; Male; Mas
Aged; albuminuria; Albuminuria; Angiotensin II Type 1 Receptor Blockers; Benzimidazoles; Biomarkers;
Adult; Aged; Albuminuria; Biomarkers; Cross-Sectional Studies; Diabetes; Diabetes Mellitus, Type 2; Di
Adiponectin; Adolescent; Area Under Curve; Biomarker; Biomarkers; Biopsy; Child; Children; Chronicity
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2D-DIGE; Adult; Aged; alpha 1-Antitrypsin; Biomarkers; Calbindin 2; Decision Trees; Electrophoresis, G
B7-1 Antigen; Biomarkers; CD80; Child; Child, Preschool; Children; Chronic kidney disease; Diagnosis, D
CD80; focal segmental glomerulosclerosis; lupus nephritis; minimial change disease; nephrotic syndror
Adrenal Cortex Hormones; Adult; Biomarkers; Creatinine; diagnostics; Disease Progression; Female; Gl
Albumins; Animals; Atrophy; biomarker; Biomarkers; Creatinine; cross-sectional analysis; Fibrosis; glom
galectin-3; kidney disease progression; renal biopsy; renal fibrosis; urinary biomarkers
Animals; beta Catenin; Biomarkers; chronic kidney disease; Fibrosis; Humans; Kidney; Kidney Diseases;
Adult; Aged; Albuminuria; Area Under Curve; Biomarkers; Disease Progression; Early Diagnosis; Female
Biomarkers; chronic kidney disease (CKD) progression; Creatinine; Disease Progression; fibrosis; Glome
Adult; Aged; Albuminuria; Diabetes Mellitus, Type 2; Diabetic Nephropathies; Disease Progression; Ear
biomarkers; fibrosis; IFTA; peptides; urine
biomarker; capillary electrophoresis; CE-MS; complement; kidney disease; peptide; proteomics; urine
Adult; biomarker; Disease Progression; Glomerular Filtration Rate; glomerulonephritis; Glomerulonepl
Adolescent; ADPKD; Adult; Biomarkers; Disease Progression; Electrophoresis, Capillary; ESRD; Female;
Adolescent; Adult; Aged; Albuminuria; diabetes mellitus type II; Diabetes Mellitus, Type 2; Double-Blin

Acute Kidney Injury; Aged; Animals; Biomarkers; Chemokine CCL2; Chitinase-3-Like Protein 1; Chronic
Animals; Humans; Mice; Nephrotic syndrome; Nephrotic Syndrome; Protease activity; Proteases; Prote
Acute Kidney Injury; Aged; Aged, 80 and over; Cardiac Surgical Procedures; Cardiovascular disease; Ch
Adult; Antirheumatic Agents; biomarker; Ceruloplasmin; Chemokine CCL2; Female; Humans; inflamma
Biomarker; Biomarkers; Biopsy; Chronic kidney disease; Diabetic nephropathy; GDF15; Glomerular Filt
chronic kidney disease; clinical epidemiology; Creatinine; Disease Progression; epidermal growth facto
Acute Kidney Injury; Adaptor Proteins, Signal Transducing; Aged; Biomarkers; CI-AKI; Contrast Media; C
Adult; Blotting, Western; Case-Control Studies; Cohort Studies; Cross-Sectional Studies; Disease Progre
Biomarkers; Chemokine CXCL16; CXCL16; Diabetes Mellitus; diabetic kidney disease; Diabetic Nephrop
Biomarkers; Chemokine CCL2; Creatinine; Cross-Sectional Studies; diabetic kidney disease; Diabetic Ne
Aged; Algorithms; Biomarkers; Chromatography, Liquid; Computational Biology; Diabetic Nephropathi
Acid Phosphatase; Adult; Aged; Biomarkers; Calcium-Binding Proteins; Case-Control Studies; Cathepsin
biomarker; Biomarkers; Chromatography, Liquid; Fabry disease; Fabry Disease; Female; Glycolipids; Hu
Aged; Biomarker; Biomarkers; Cross-Sectional Studies; Diabetes Mellitus, Type 2; Diabetic kidney disea
Adult; Aged; Diabetes Mellitus, Type 2; Diabetic kidney disease (DKD); Diabetic Nephropathies; Diagnc
Acute Kidney Injury; Adaptor Proteins, Signal Transducing; Aged; Aged, 80 and over; Biomarkers; Cardi
Aged; Albuminuria; Biomarkers; Diabetes Mellitus, Type 2; Diabetic Nephropathies; Female; Humans;
Aged; Albuminuria; Angiotensinogen; Biomarkers; Cohort Studies; Cystatin C; Diabetes Mellitus, Type
Aged; Biomarkers; Collagen Type III; Collagen Type VI; Diabetes Mellitus, Type 1; Diabetic Cardiomyop
Adaptor Proteins, Signal Transducing; Adult; Aged; Aged, 80 and over; Albuminuria; Biomarkers; Chem
Albuminuria; Biomarkers; Creatinine; Cross-Sectional Studies; Cystatin C; Diabetes Mellitus, Type 2; Di
Aged; Albuminuria; Biomarker; Biomarkers; Cardiovascular Diseases; Chemokine CCL2; Creatinine; Dia
early prediction; nephropathy; proteomics
Adolescent; Age Factors; Alport syndrome; Biomarkers; Case-Control Studies; Child; Child, Preschool; C
Albumins; Biomarkers; Cohort Studies; Cost-Benefit Analysis; Diabetes Mellitus, Type 2; Diabetic Neph

Adult; Bardet-Biedl Syndrome; Biomarkers; Case-Control Studies; Female; Fibronectin; Fibronectins; Fi
Acute Kidney Injury; Adolescent; Adult; Biomarker; Cardiac Surgery; Cardiac Surgical Procedures; Child
Acute kidney injury; Acute Kidney Injury; Acute renal failure; Area Under Curve; Biomarkers; Cardiac su
Aged; Biomarkers; Collagen Type VI; Creatinine; Disease Progression; Female; Follow-Up Studies; Glom
Adult; Aged; Albuminuria; Cardiovascular Diseases; cardiovascular risk; chronic kidney disease; CKD273
Adult; Aged; biomarkers; Biomarkers; chronic kidney disease; Female; Humans; Male; Middle Aged; pe
biomarker; chronic kidney disease; clinical science; glomerular filtration rate; peptidomics; proteomics
Aged; Biomarkers; Body Fluids; Case-Control Studies; Databases, Factual; Female; Gene Expression; Ge
Adaptor Proteins, Signal Transducing; Animals; Atrophy; Fibrosis; Intercellular Signaling Peptides and P

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