Jacob Selhub

List of Publications by Year in Descending Order

271 papers	29,053 citations	89 h-index	165 g-index
273 ext. papers	31,341 ext. citations	7.9 avg, IF	6.55 L-index

#	Paper	IF	Citations
271	Genetic variants modify the associations of concentrations of methylmalonic acid, vitamin B-12, vitamin B-6, and folate with bone mineral density. *American Journal of Clinical Nutrition*, **2021**, 114, 578-587	7	3
270	Perspective: The High-Folate-Low-Vitamin B-12 Interaction Is a Novel Cause of Vitamin B-12 Depletion with a Specific Etiology-A Hypothesis. *Advances in Nutrition*, **2021**,	10	2
269	Knowledge gaps in understanding the metabolic and clinical effects of excess folates/folic acid: a summary, and perspectives, from an NIH workshop. *American Journal of Clinical Nutrition*, **2020**, 112, 1390-1403	7	27
268	A prospective birth cohort study on cord blood folate subtypes and risk of autism spectrum disorder. *American Journal of Clinical Nutrition*, **2020**, 112, 1304-1317	7	6
267	Association Between Folate Metabolites and the Development of Food Allergy in Children. *Journal of Allergy and Clinical Immunology: in Practice*, **2020**, 8, 132-140.e5	5.4	12
266	Plasma B-vitamins and one-carbon metabolites and the risk of breast cancer in younger women. *Breast Cancer Research and Treatment*, **2019**, 176, 191-203	4.4	6
265	Plasma B-vitamin and one-carbon metabolites and risk of breast cancer before and after folic acid fortification in the United States. *International Journal of Cancer*, **2019**, 144, 1929-1940	7.5	6
264	Assessing all the Evidence for Risks and Benefits With Folic Acid Fortification and Supplementation **2018**, 241-246		2
263	Investigating methotrexate toxicity within a randomized double-blinded, placebo-controlled trial: Rationale and design of the Cardiovascular Inflammation Reduction Trial-Adverse Events (CIRT-AE) Study. *Seminars in Arthritis and Rheumatism*, **2017**, 47, 133-142	5.3	20
262	Associations between post translational histone modifications, myelomeningocele risk, environmental arsenic exposure, and folate deficiency among participants in a case control study in Bangladesh. *Epigenetics*, **2017**, 12, 484-491	5.7	18
261	Redox homeostasis in stomach medium by foods: The Postprandial Oxidative Stress Index (POSI) for balancing nutrition and human health. *Redox Biology*, **2017**, 12, 929-936	11.3	31
260	Low vitamin B increases risk of gastric cancer: A prospective study of one-carbon metabolism nutrients and risk of upper gastrointestinal tract cancer. *International Journal of Cancer*, **2017**, 141, 1120-1129	7.5	27
259	Prenatal folic acid use associated with decreased risk of myelomeningocele: A case-control study offers further support for folic acid fortification in Bangladesh. *PLoS ONE*, **2017**, 12, e0188726	3.7	9
258	Interaction between excess folate and low vitamin B12 status. *Molecular Aspects of Medicine*, **2017**, 53, 43-47	16.7	40
257	Prospective study of serum cysteine and cysteinylglycine and cancer of the head and neck, esophagus, and stomach in a cohort of male smokers. *American Journal of Clinical Nutrition*, **2016**, 104, 686-93	7	7
256	Decision on folic acid fortification in Europe must consider both risks and benefits. *BMJ, The*, **2016**, 352, i734	5.9	10
255	Evidence from a Randomized Trial That Exposure to Supplemental Folic Acid at Recommended Levels during Pregnancy Does Not Lead to Increased Unmetabolized Folic Acid Concentrations in Maternal or Cord Blood. *Journal of Nutrition*, **2016**, 146, 494-500	4.1	26

254	High folic acid intake reduces natural killer cell cytotoxicity in aged mice. *Journal of Nutritional Biochemistry*, **2016**, 30, 102-7	6.3	30
253	Bacterial Folates Provide an Exogenous Signal for C. elegans Germline Stem Cell Proliferation. *Developmental Cell*, **2016**, 38, 33-46	10.2	22
252	Excessive folic acid intake and relation to adverse health outcome. *Biochimie*, **2016**, 126, 71-8	4.6	88
251	Transcobalamin 776C->G polymorphism is associated with peripheral neuropathy in elderly individuals with high folate intake. *American Journal of Clinical Nutrition*, **2016**, 104, 1665-1670	7	14
250	Sulfur amino acids and atherosclerosis: a role for excess dietary methionine. *Annals of the New York Academy of Sciences*, **2016**, 1363, 18-25	6.5	31
249	The association between vitamin B12, albuminuria and reduced kidney function: an observational cohort study. *BMC Nephrology*, **2015**, 16, 7	2.7	27
248	Arsenic is associated with reduced effect of folic acid in myelomeningocele prevention: a case control study in Bangladesh. *Environmental Health*, **2015**, 14, 34	6	29
247	Dihydrofolate reductase 19-bp deletion polymorphism modifies the association of folate status with memory in a cross-sectional multi-ethnic study of adults. *American Journal of Clinical Nutrition*, **2015**, 102, 1279-88	7	17
246	Polymorphisms in maternal folate pathway genes interact with arsenic in drinking water to influence risk of myelomeningocele. *Birth Defects Research Part A: Clinical and Molecular Teratology*, **2015**, 103, 754-62		19
245	Diet- and Genetically-Induced Obesity Differentially Affect the Fecal Microbiome and Metabolome in Apc1638N Mice. *PLoS ONE*, **2015**, 10, e0135758	3.7	29
244	Genome-wide meta-analysis of homocysteine and methionine metabolism identifies five one carbon metabolism loci and a novel association of ALDH1L1 with ischemic stroke. *PLoS Genetics*, **2014**, 10, e1004214	6	57
243	The association between Vitamin B6 and cognitive decline is modified by inflammatory state (LB425). *FASEB Journal*, **2014**, 28, LB425	0.9	
242	Dietary vitamin B6 intake modulates colonic inflammation in the IL10-/- model of inflammatory bowel disease. *Journal of Nutritional Biochemistry*, **2013**, 24, 2138-43	6.3	52
241	Moderately high intake of folic acid has a negative impact on mouse embryonic development. *Birth Defects Research Part A: Clinical and Molecular Teratology*, **2013**, 97, 47-52		56
240	Common genetic loci influencing plasma homocysteine concentrations and their effect on risk of coronary artery disease. *American Journal of Clinical Nutrition*, **2013**, 98, 668-76	7	122
239	Mechanistic perspective on the relationship between pyridoxal 5'-phosphate and inflammation. *Nutrition Reviews*, **2013**, 71, 239-44	6.4	75
238	Prediagnostic plasma vitamin B6 (pyridoxal 5'-phosphate) and survival in patients with colorectal cancer. *Cancer Causes and Control*, **2013**, 24, 719-29	2.8	7
237	Pre-diagnostic leukocyte genomic DNA methylation and the risk of colorectal cancer in women. *PLoS ONE*, **2013**, 8, e59455	3.7	16

236	Dietary Vitamin B6 intake modulates colonic inflammation in the IL10/ model of Inflammatory Bowel Disease. *FASEB Journal*, **2013**, 27, 1077.19	0.9	
235	Folate status in relation to cognitive function and decline in a population with high folic acid intake. *FASEB Journal*, **2013**, 27, 346.7	0.9	
234	Vitamin B-12 and folate status in relation to decline in scores on the mini-mental state examination in the framingham heart study. *Journal of the American Geriatrics Society*, **2012**, 60, 1457-64	5.6	73
233	Cognitive dysfunction and depression in adult kidney transplant recipients: baseline findings from the FAVORIT Ancillary Cognitive Trial (FACT). *Journal of Renal Nutrition*, **2012**, 22, 268-276.e3	3	27
232	Multiple biomarkers and risk of clinical and subclinical vascular brain injury: the Framingham Offspring Study. *Circulation*, **2012**, 125, 2100-7	16.7	48
231	Risk of retinoblastoma is associated with a maternal polymorphism in dihydrofolatereductase (DHFR) and prenatal folic acid intake. *Cancer*, **2012**, 118, 5912-9	6.4	29
230	Plasma folate, methylenetetrahydrofolate reductase (MTHFR), and colorectal cancer risk in three large nested case-control studies. *Cancer Causes and Control*, **2012**, 23, 537-45	2.8	37
229	Effect of combined folic acid, vitamin B(6), and vitamin B(12) on colorectal adenoma. *Journal of the National Cancer Institute*, **2012**, 104, 1562-75	9.7	26
228	Plasma pyridoxal-5-phosphate is inversely associated with systemic markers of inflammation in a population of U.S. adults. *Journal of Nutrition*, **2012**, 142, 1280-5	4.1	70
227	Associations between genes in the one-carbon metabolism pathway and advanced colorectal adenoma risk in individuals with low folate intake. *Cancer Epidemiology Biomarkers and Prevention*, **2012**, 21, 417-27	4	15
226	Status of vitamins B-12 and B-6 but not of folate, homocysteine, and the methylenetetrahydrofolate reductase C677T polymorphism are associated with impaired cognition and depression in adults. *Journal of Nutrition*, **2012**, 142, 1554-60	4.1	52
225	Prevalence of MTHFR C677T and MS A2756G polymorphisms in major depressive disorder, and their impact on response to fluoxetine treatment. *CNS Spectrums*, **2012**, 17, 76-86	1.8	14
224	Metabolic syndrome in the elderly living in marginal peri-urban communities in Quito, Ecuador. *Public Health Nutrition*, **2011**, 14, 758-67	3.3	28
223	Segment-specific association between plasma homocysteine level and carotid artery intima-media thickness in the Framingham Offspring Study. *Journal of Stroke and Cerebrovascular Diseases*, **2011**, 20, 155-61	2.8	15
222	High intake of folic acid disrupts embryonic development in mice. *Birth Defects Research Part A: Clinical and Molecular Teratology*, **2011**, 91, 8-19		80
221	Folic acid fortification: why not vitamin B12 also?. *BioFactors*, **2011**, 37, 269-71	6.1	33
220	Association of plasma vitamin B6 with risk of colorectal adenoma in a multiethnic case-control study. *Cancer Causes and Control*, **2011**, 22, 929-36	2.8	13
219	Hyperhomocysteinemia from trimethylation of hepatic phosphatidylethanolamine during cholesterol cholelithogenesis in inbred mice. *Hepatology*, **2011**, 54, 697-706	11.2	6

218	Biomarkers of folate status in NHANES: a roundtable summary. *American Journal of Clinical Nutrition*, **2011**, 94, 303S-312S	7	81
217	Biomarkers of vitamin B-12 status in NHANES: a roundtable summary. *American Journal of Clinical Nutrition*, **2011**, 94, 313S-321S	7	131
216	Homocysteine-lowering and cardiovascular disease outcomes in kidney transplant recipients: primary results from the Folic Acid for Vascular Outcome Reduction in Transplantation trial. *Circulation*, **2011**, 123, 1763-70	16.7	140
215	Determination of unmetabolized folic acid in human plasma using affinity HPLC. *American Journal of Clinical Nutrition*, **2011**, 94, 343S-347S	7	23
214	Prospective study of serum cysteine levels and oesophageal and gastric cancers in China. *Gut*, **2011**, 60, 618-23	19.2	35
213	B vitamins and the aging brain. *Nutrition Reviews*, **2010**, 68 Suppl 2, S112-8	6.4	73
212	Vitamin B-6 intake is inversely related to, and the requirement is affected by, inflammation status. *Journal of Nutrition*, **2010**, 140, 103-10	4.1	80
211	A multi-marker approach to predict incident CKD and microalbuminuria. *Journal of the American Society of Nephrology: JASN*, **2010**, 21, 2143-9	12.7	79
210	Uracil misincorporation into DNA and folic acid supplementation. *American Journal of Clinical Nutrition*, **2010**, 91, 160-5	7	15
209	Circulating unmetabolized folic acid and 5-methyltetrahydrofolate in relation to anemia, macrocytosis, and cognitive test performance in American seniors. *American Journal of Clinical Nutrition*, **2010**, 91, 1733-44	7	99
208	Multimarker approach for the prediction of heart failure incidence in the community. *Circulation*, **2010**, 122, 1700-6	16.7	94
207	Are dietary choline and betaine intakes determinants of total homocysteine concentration?. *American Journal of Clinical Nutrition*, **2010**, 91, 1303-10	7	31
206	Relations of biomarkers of distinct pathophysiological pathways and atrial fibrillation incidence in the community. *Circulation*, **2010**, 121, 200-7	16.7	211
205	Plasma homocysteine and cysteine and risk of breast cancer in women. *Cancer Research*, **2010**, 70, 2397-405	10.1	84
204	Plasma total cysteine and total homocysteine and risk of myocardial infarction in women: a prospective study. *American Heart Journal*, **2010**, 159, 599-604	4.9	22
203	A prospective study of one-carbon metabolism biomarkers and risk of renal cell carcinoma. *Cancer Causes and Control*, **2010**, 21, 1061-9	2.8	21
202	Food frequency questionnaires (FFQ) for children under the age of two years: two validation studies. *FASEB Journal*, **2010**, 24, lb314	0.9	
201	High-dose B vitamin supplementation and progression of subclinical atherosclerosis: a randomized controlled trial. *Stroke*, **2009**, 40, 730-6	6.7	94

200	Micronutrient deficiencies are associated with impaired immune response and higher burden of respiratory infections in elderly Ecuadorians. *Journal of Nutrition*, **2009**, 139, 113-9	4.1	47
199	Folate-vitamin B-12 interaction in relation to cognitive impairment, anemia, and biochemical indicators of vitamin B-12 deficiency. *American Journal of Clinical Nutrition*, **2009**, 89, 702S-6S	7	118
198	Prospective study of plasma vitamin B6 and risk of colorectal cancer in men. *Cancer Epidemiology Biomarkers and Prevention*, **2009**, 18, 1197-202	4	29
197	Mild methionine excess does not affect thymidylate synthesis or inflammation markers expression in human aortic endothelial cells. *Annals of Nutrition and Metabolism*, **2009**, 54, 28-34	4.5	2
196	Telomere length in peripheral blood mononuclear cells is associated with folate status in men. *Journal of Nutrition*, **2009**, 139, 1273-8	4.1	51
195	Serum creatinine and prostate cancer risk in a prospective study. *Cancer Epidemiology Biomarkers and Prevention*, **2009**, 18, 2643-9	4	26
194	Multimarker approach to evaluate correlates of vascular stiffness: the Framingham Heart Study. *Circulation*, **2009**, 119, 37-43	16.7	89
193	Genome-wide significant predictors of metabolites in the one-carbon metabolism pathway. *Human Molecular Genetics*, **2009**, 18, 4677-87	5.6	127
192	A randomized trial on folic acid supplementation and risk of recurrent colorectal adenoma. *American Journal of Clinical Nutrition*, **2009**, 90, 1623-31	7	95
191	Plasma vitamin B(6) and risk of myocardial infarction in women. *Circulation*, **2009**, 120, 649-55	16.7	27
190	Baseline characteristics of participants in the Folic Acid for Vascular Outcome Reduction in Transplantation (FAVORIT) Trial. *American Journal of Kidney Diseases*, **2009**, 53, 121-8	7.4	40
189	Not all cases of neural-tube defect can be prevented by increasing the intake of folic acid. *British Journal of Nutrition*, **2009**, 102, 173-80	3.6	92
188	Common variants of FUT2 are associated with plasma vitamin B12 levels. *Nature Genetics*, **2008**, 40, 1160-2	32.3	120
187	A 19-base pair deletion polymorphism in dihydrofolate reductase is associated with increased unmetabolized folic acid in plasma and decreased red blood cell folate. *Journal of Nutrition*, **2008**, 138, 2323-7	4.1	56
186	The use of blood concentrations of vitamins and their respective functional indicators to define folate and vitamin B12 status. *Food and Nutrition Bulletin*, **2008**, 29, S67-73	1.8	110
185	Public health significance of elevated homocysteine. *Food and Nutrition Bulletin*, **2008**, 29, S116-25	1.8	92
184	B-vitamin deficiency causes hyperhomocysteinemia and vascular cognitive impairment in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12474-9	11.5	140
183	Plasma B vitamins, homocysteine, and their relation with bone loss and hip fracture in elderly men and women. *Journal of Clinical Endocrinology and Metabolism*, **2008**, 93, 2206-12	5.6	95

182	Cognitive impairment in folate-deficient rats corresponds to depleted brain phosphatidylcholine and is prevented by dietary methionine without lowering plasma homocysteine. *Journal of Nutrition*, **2008**, 138, 2502-9	4.1	65
181	C-reactive protein and reclassification of cardiovascular risk in the Framingham Heart Study. *Circulation: Cardiovascular Quality and Outcomes*, **2008**, 1, 92-7	5.8	189
180	Correspondence: will increasing folic acid in fortified grain products further reduce neural tube defects without causing harm?. *Pediatric Research*, **2008**, 63, 450; author reply 450-1	3.2	
179	Association of plasma total homocysteine levels with subclinical brain injury: cerebral volumes, white matter hyperintensity, and silent brain infarcts at volumetric magnetic resonance imaging in the Framingham Offspring Study. *Archives of Neurology*, **2008**, 65, 642-9		123
178	Public health significance of supplementation or fortification of grain products with folic acid. *Food and Nutrition Bulletin*, **2008**, 29, S173-6	1.8	5
177	Plasma pyridoxal 5-phosphate in the US population: the National Health and Nutrition Examination Survey, 2003-2004. *American Journal of Clinical Nutrition*, **2008**, 87, 1446-54	7	112
176	Plasma folate, vitamin B-6, vitamin B-12, and risk of breast cancer in women. *American Journal of Clinical Nutrition*, **2008**, 87, 734-43	7	100
175	Circulating folic acid in plasma: relation to folic acid fortification. *American Journal of Clinical Nutrition*, **2008**, 88, 763-8	7	98
174	Preliminary evidence shows that folic acid fortification of the food supply is associated with higher methotrexate dosing in patients with rheumatoid arthritis. *Journal of the American College of Nutrition*, **2007**, 26, 453-5	3.5	27
173	Reply to RJ Berry et al. *American Journal of Clinical Nutrition*, **2007**, 86, 267-268	7	4
172	Plasma cysteinylglycine levels and breast cancer risk in women. *Cancer Research*, **2007**, 67, 11123-7	10.1	9
171	Multiple biomarkers and the risk of incident hypertension. *Hypertension*, **2007**, 49, 432-8	8.5	138
170	Multimarker approach to evaluate the incidence of the metabolic syndrome and longitudinal changes in metabolic risk factors: the Framingham Offspring Study. *Circulation*, **2007**, 116, 984-92	16.7	153
169	Associations of plasma natriuretic peptide, adrenomedullin, and homocysteine levels with alterations in arterial stiffness: the Framingham Heart Study. *Circulation*, **2007**, 115, 3079-85	16.7	47
168	In vitamin B12 deficiency, higher serum folate is associated with increased total homocysteine and methylmalonic acid concentrations. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 19995-20000	11.5	161
167	Folate and vitamin B-12 status in relation to anemia, macrocytosis, and cognitive impairment in older Americans in the age of folic acid fortification. *American Journal of Clinical Nutrition*, **2007**, 85, 193-200	7	446
166	Relationship between homocysteine and mortality in chronic kidney disease. *Circulation*, **2006**, 113, 1572-7	16.7	44
165	Regulation of folate-mediated one-carbon metabolism by 10-formyltetrahydrofolate dehydrogenase. *Journal of Biological Chemistry*, **2006**, 281, 18335-42	5.4	71

164	Multiple biomarkers for the prediction of first major cardiovascular events and death. *New England Journal of Medicine*, **2006**, 355, 2631-9	59.2	978
163	Folate and vitamin B12 transport systems in the developing infant. *Journal of Pediatrics*, **2006**, 149, S62-S63	3.8	4
162	The many facets of hyperhomocysteinemia: studies from the Framingham cohorts. *Journal of Nutrition*, **2006**, 136, 1726S-1730S	4.1	140
161	Dietary choline and betaine assessed by food-frequency questionnaire in relation to plasma total homocysteine concentration in the Framingham Offspring Study. *American Journal of Clinical Nutrition*, **2006**, 83, 905-11	7	163
160	Unmetabolized folic acid in plasma is associated with reduced natural killer cell cytotoxicity among postmenopausal women. *Journal of Nutrition*, **2006**, 136, 189-94	4.1	284
159	Use of the affinity/HPLC method for quantitative estimation of folic acid in enriched cereal-grain products. *Journal of Nutrition*, **2006**, 136, 3079-83	4.1	32
158	Association of a 31 bp VNTR in the CBS gene with postload homocysteine concentrations in the Framingham Offspring Study. *European Journal of Human Genetics*, **2006**, 14, 1125-9	5.3	7
157	Relation between homocysteine and B-vitamin status indicators and bone mineral density in older Americans. *Bone*, **2005**, 37, 234-42	4.7	124
156	Effects of dietary folate intake and folate binding protein-2 (Folbp2) on urinary speciation of sodium arsenate in mice. *Environmental Toxicology and Pharmacology*, **2005**, 19, 1-7	5.8	15
155	Homocysteine versus the vitamins folate, B6, and B12 as predictors of cognitive function and decline in older high-functioning adults: MacArthur Studies of Successful Aging. *American Journal of Medicine*, **2005**, 118, 161-7	2.4	213
154	Low plasma vitamin B12 is associated with lower BMD: the Framingham Osteoporosis Study. *Journal of Bone and Mineral Research*, **2005**, 20, 152-8	6.3	50
153	Homocysteine in chronic kidney disease: Effect of low protein diet and repletion with B vitamins. *Kidney International*, **2005**, 67, 1539-46	9.9	23
152	C-reactive protein as a predictor of total arteriosclerotic outcomes in type 2 diabetic nephropathy. *Kidney International*, **2005**, 68, 773-8	9.9	14
151	Developmental consequences of in utero sodium arsenate exposure in mice with folate transport deficiencies. *Toxicology and Applied Pharmacology*, **2005**, 203, 18-26	4.6	23
150	Methylenetetrahydrofolate reductase 677C->T polymorphism and folate status affect one-carbon incorporation into human DNA deoxynucleosides. *Journal of Nutrition*, **2005**, 135, 389-96	4.1	55
149	The methylenetetrahydrofolate reductase 677C->T polymorphism and dietary folate restriction affect plasma one-carbon metabolites and red blood cell folate concentrations and distribution in women. *Journal of Nutrition*, **2005**, 135, 1040-4	4.1	36
148	Homocysteine synthesis is elevated but total remethylation is unchanged by the methylenetetrahydrofolate reductase 677C->T polymorphism and by dietary folate restriction in young women. *Journal of Nutrition*, **2005**, 135, 1045-50	4.1	32
147	Polymorphisms in cytoplasmic serine hydroxymethyltransferase and methylenetetrahydrofolate reductase affect the risk of cardiovascular disease in men. *Journal of Nutrition*, **2005**, 135, 1989-94	4.1	38

146	Total plasma homocysteine and arteriosclerotic outcomes in type 2 diabetes with nephropathy. *Journal of the American Society of Nephrology: JASN*, **2005**, 16, 3397-402	12.7	14
145	Autoantibodies to folate receptors in the cerebral folate deficiency syndrome. *New England Journal of Medicine*, **2005**, 352, 1985-91	59.2	200
144	Homocysteine and cognitive performance in the Framingham offspring study: age is important. *American Journal of Epidemiology*, **2005**, 162, 644-53	3.8	110
143	Plasma vitamin B6 and the risk of colorectal cancer and adenoma in women. *Journal of the National Cancer Institute*, **2005**, 97, 684-92	9.7	77
142	Low Plasma Vitamin B12 Is Associated With Lower BMD: The Framingham Osteoporosis Study. *Journal of Bone and Mineral Research*, **2005**, 20, 152-158	6.3	117
141	Vitamin B-12 deficiency induces anomalies of base substitution and methylation in the DNA of rat colonic epithelium. *Journal of Nutrition*, **2004**, 134, 750-5	4.1	70
140	Relations of plasma homocysteine to left ventricular structure and function: the Framingham Heart Study. *European Heart Journal*, **2004**, 25, 523-30	9.5	75
139	Enhancement of folates in plants through metabolic engineering. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5158-63	11.5	102
138	Polymorphisms in the one-carbon metabolic pathway, plasma folate levels and colorectal cancer in a prospective study. *International Journal of Cancer*, **2004**, 110, 617-20	7.5	63
137	Homocysteine as a predictive factor for hip fracture in older persons. *New England Journal of Medicine*, **2004**, 350, 2042-9	59.2	482
136	Association of a common polymorphism in the methylenetetrahydrofolate reductase (MTHFR) gene with bone phenotypes depends on plasma folate status. *Journal of Bone and Mineral Research*, **2004**, 19, 410-8	6.3	70
135	Clinical and nutritional correlates of C-reactive protein in type 2 diabetic nephropathy. *Atherosclerosis*, **2004**, 172, 121-5	3.1	20
134	Homocysteine as a risk factor for coronary heart diseases and its association with inflammatory biomarkers, lipids and dietary factors. *Atherosclerosis*, **2004**, 177, 375-81	3.1	69
133	Mice deficient in methylenetetrahydrofolate reductase exhibit tissue-specific distribution of folates. *Journal of Nutrition*, **2004**, 134, 2975-8	4.1	43
132	Breakfast cereal fortified with folic acid, vitamin B-6, and vitamin B-12 increases vitamin concentrations and reduces homocysteine concentrations: a randomized trial. *American Journal of Clinical Nutrition*, **2004**, 79, 805-11	7	73
131	Depression and folate status in the US Population. *Psychotherapy and Psychosomatics*, **2003**, 72, 80-7	9.4	153
130	Plasma folate, vitamin B6, vitamin B12, homocysteine, and risk of breast cancer. *Journal of the National Cancer Institute*, **2003**, 95, 373-80	9.7	263
129	Plasma homocysteine, hypertension incidence, and blood pressure tracking: the Framingham Heart Study. *Hypertension*, **2003**, 42, 1100-5	8.5	85

128	The atherogenic effect of excess methionine intake. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 15089-94	11.5	129
127	Age and gender affect the relation between methylenetetrahydrofolate reductase C677T genotype and fasting plasma homocysteine concentrations in the Framingham Offspring Study Cohort. *Journal of Nutrition*, **2003**, 133, 3416-21	4.1	59
126	Plasma pyridoxal 5'-phosphate concentration is correlated with functional vitamin B-6 indices in patients with rheumatoid arthritis and marginal vitamin B-6 status. *Journal of Nutrition*, **2003**, 133, 1056-9	4.1	33
125	Combined marginal folate and riboflavin status affect homocysteine methylation in cultured immortalized lymphocytes from persons homozygous for the MTHFR C677T mutation. *Journal of Nutrition*, **2003**, 133, 2716-20	4.1	21
124	Serum total homocysteine concentrations in children and adolescents: results from the third National Health and Nutrition Examination Survey (NHANES III). *Journal of Nutrition*, **2003**, 133, 2643-9	4.1	48
123	The effect of N-acetylcysteine on plasma total homocysteine levels in hemodialysis: a randomized, controlled study. *American Journal of Kidney Diseases*, **2003**, 41, 442-6	7.4	47
122	Effects of polymorphisms of methionine synthase and methionine synthase reductase on total plasma homocysteine in the NHLBI Family Heart Study. *Atherosclerosis*, **2003**, 166, 49-55	3.1	81
121	Effects of dietary folate intake and folate binding protein-1 (Folbp1) on urinary speciation of sodium arsenate in mice. *Toxicology Letters*, **2003**, 145, 167-74	4.4	43
120	Abnormal vitamin B(6) status is associated with severity of symptoms in patients with rheumatoid arthritis. *American Journal of Medicine*, **2003**, 114, 283-7	2.4	83
119	Plasma homocysteine and risk for congestive heart failure in adults without prior myocardial infarction. *JAMA - Journal of the American Medical Association*, **2003**, 289, 1251-7	27.4	150
118	Methenyltetrahydrofolate synthetase regulates folate turnover and accumulation. *Journal of Biological Chemistry*, **2003**, 278, 29856-62	5.4	50
117	RESPONSE: Re: Plasma Folate, Vitamin B6, Vitamin B12, Homocysteine, and Risk of Breast Cancer. *Journal of the National Cancer Institute*, **2003**, 95, 1091-1091	9.7	1
116	B vitamins and plasma homocysteine concentrations in an urban and rural area of Costa Rica. *Journal of the American College of Nutrition*, **2003**, 22, 224-31	3.5	18
115	The glutamate carboxypeptidase gene II (C>T) polymorphism does not affect folate status in the Framingham Offspring cohort. *Journal of Nutrition*, **2002**, 132, 1176-9	4.1	33
114	In the cystathionine beta-synthase knockout mouse, elevations in total plasma homocysteine increase tissue S-adenosylhomocysteine, but responses of S-adenosylmethionine and DNA methylation are tissue specific. *Journal of Nutrition*, **2002**, 132, 2157-60	4.1	56
113	Folate status and age affect the accumulation of L-isoaspartyl residues in rat liver proteins. *Journal of Nutrition*, **2002**, 132, 1357-60	4.1	21
112	The relationship between riboflavin and plasma total homocysteine in the Framingham Offspring cohort is influenced by folate status and the C677T transition in the methylenetetrahydrofolate reductase gene. *Journal of Nutrition*, **2002**, 132, 283-8	4.1	102
111	Elevated serum methylmalonic acid concentrations are common among elderly Americans. *Journal of Nutrition*, **2002**, 132, 2799-803	4.1	58

110	Folic acid intake from fortification in United States exceeds predictions. *Journal of Nutrition*, **2002**, 132, 2792-8	4.1	215
109	Hyperhomocysteinemia in renal transplant recipients. *American Journal of Transplantation*, **2002**, 2, 308-83	3.7	37
108	Homocysteine, cysteine, and B vitamins as predictors of kidney disease progression. *American Journal of Kidney Diseases*, **2002**, 40, 932-9	7.4	28
107	Distribution of plasma folate forms in hemodialysis patients receiving high daily doses of L-folinic or folic acid. *Kidney International*, **2002**, 62, 2246-9	9.9	26
106	Investigation of the effects of folate deficiency on embryonic development through the establishment of a folate deficient mouse model. *Teratology*, **2002**, 65, 219-27		105
105	A common mutation in the 5,10-methylenetetrahydrofolate reductase gene affects genomic DNA methylation through an interaction with folate status. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5606-11	11.5	765
104	Total homocysteine lowering treatment among coronary artery disease patients in the era of folic acid-fortified cereal grain flour. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 488-91	9.4	24
103	Proteinuria as a predictor of total plasma homocysteine levels in type 2 diabetic nephropathy. *Diabetes Care*, **2002**, 25, 2037-41	14.6	9
102	Preconception homocysteine and B vitamin status and birth outcomes in Chinese women. *American Journal of Clinical Nutrition*, **2002**, 76, 1385-91	7	115
101	A method to assess genomic DNA methylation using high-performance liquid chromatography/electrospray ionization mass spectrometry. *Analytical Chemistry*, **2002**, 74, 4526-31	7.8	208
100	Homocysteine levels and decline in physical function: MacArthur Studies of Successful Aging. *American Journal of Medicine*, **2002**, 113, 537-42	2.4	86
99	Plasma homocysteine as a risk factor for dementia and Alzheimer© disease. *New England Journal of Medicine*, **2002**, 346, 476-83	59.2	2635
98	Preconception folate and vitamin B(6) status and clinical spontaneous abortion in Chinese women. *Obstetrics and Gynecology*, **2002**, 100, 107-13	4.9	35
97	The curly-tail (ct) mouse, an animal model of neural tube defects, displays altered homocysteine metabolism without folate responsiveness or a defect in Mthfr. *Molecular Genetics and Metabolism*, **2002**, 76, 297-304	3.7	7
96	Plasma total homocysteine levels among patients undergoing nocturnal versus standard hemodialysis. *Journal of the American Society of Nephrology: JASN*, **2002**, 13, 265-268	12.7	54
95	Association between increased homocysteine levels and impaired fibrinolytic potential: potential mechanism for cardiovascular risk. *Thrombosis and Haemostasis*, **2002**, 88, 799-804	7	14
94	Folic acid fortification increases red blood cell folate concentrations in the Framingham study. *Journal of Nutrition*, **2001**, 131, 3277-80	4.1	101
93	Determinants of plasma total homocysteine concentration in the Framingham Offspring cohort. *American Journal of Clinical Nutrition*, **2001**, 73, 613-21	7	499

92	Rapid communication: L-folinic acid versus folic acid for the treatment of hyperhomocysteinemia in hemodialysis patients. *Kidney International*, **2001**, 59, 324-7	9.9	28
91	Elevated serum homocysteine levels and increased risk of invasive cervical cancer in US women. *Cancer Causes and Control*, **2001**, 12, 317-24	2.8	35
90	Renal insufficiency, vitamin B(12) status, and population attributable risk for mild hyperhomocysteinemia among coronary artery disease patients in the era of folic acid-fortified cereal grain flour. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2001**, 21, 849-51	9.4	39
89	Low circulating vitamin B(6) is associated with elevation of the inflammation marker C-reactive protein independently of plasma homocysteine levels. *Circulation*, **2001**, 103, 2788-91	16.7	202
88	Association of the B-vitamins pyridoxal 5'-phosphate (B(6)), B(12), and folate with lung cancer risk in older men. *American Journal of Epidemiology*, **2001**, 153, 688-94	3.8	71
87	Influence of a methionine synthase (D919G) polymorphism on plasma homocysteine and folate levels and relation to risk of myocardial infarction. *Atherosclerosis*, **2001**, 154, 667-72	3.1	131
86	Hyperhomocysteinemia and hypercholesterolemia associated with hypothyroidism in the third US National Health and Nutrition Examination Survey. *Atherosclerosis*, **2001**, 155, 195-200	3.1	98
85	Proteinuria and plasma total homocysteine levels in chronic renal disease patients with a normal range serum creatinine: critical impact of true glomerular filtration rate. *Atherosclerosis*, **2001**, 159, 219-23	3.1	27
84	Mice deficient in methylenetetrahydrofolate reductase exhibit hyperhomocysteinemia and decreased methylation capacity, with neuropathology and aortic lipid deposition. *Human Molecular Genetics*, **2001**, 10, 433-43	5.6	458
83	Power Shortage: clinical trials testing the "homocysteine hypothesis" against a background of folic acid-fortified cereal grain flour. *Annals of Internal Medicine*, **2001**, 135, 133-7	8	74
82	Hyperhomocysteinemia associated with poor recall in the third National Health and Nutrition Examination Survey. *American Journal of Clinical Nutrition*, **2001**, 73, 927-33	7	155
81	The kidney and homocysteine metabolism. *Journal of the American Society of Nephrology: JASN*, **2001**, 12, 2181-2189	12.7	183
80	Controlled Comparison of L-Folinic Acid Versus Folic Acid for the Treatment of Hyperhomocysteinemia in Hemodialysis Patients. *Circulation*, **2001**, 103, 1367-1367	16.7	2
79	Plasma vitamin B-12 concentrations relate to intake source in the Framingham Offspring study. *American Journal of Clinical Nutrition*, **2000**, 71, 514-22	7	154
78	B vitamins, homocysteine, and neurocognitive function in the elderly. *American Journal of Clinical Nutrition*, **2000**, 71, 614S-620S	7	315
77	Analysis of Folate Form Distribution by Affinity Followed by Reversed-Phase Chromatography with Electrochemical Detection. *Clinical Chemistry*, **2000**, 46, 404-411	5.5	107
76	Conversion of 5-formyltetrahydrofolic acid to 5-methyltetrahydrofolic acid is unimpaired in folate-adequate persons homozygous for the C677T mutation in the methylenetetrahydrofolate reductase gene. *Journal of Nutrition*, **2000**, 130, 2238-42	4.1	21
75	Analysis of factors influencing the comparison of homocysteine values between the Third National Health and Nutrition Examination Survey (NHANES) and NHANES 1999+. *Journal of Nutrition*, **2000**, 130, 2850-4	4.1	15

74	Serum total homocysteine concentration is related to self-reported heart attack or stroke history among men and women in the NHANES III. *Journal of Nutrition*, **2000**, 130, 3073-6	4.1	17
73	Effect of dietary patterns on serum homocysteine: results of a randomized, controlled feeding study. *Circulation*, **2000**, 102, 852-7	16.7	141
72	Controlled comparison of L-5-methyltetrahydrofolate versus folic acid for the treatment of hyperhomocysteinemia in hemodialysis patients. *Circulation*, **2000**, 101, 2829-32	16.7	67
71	Homocysteine and its disulfide derivatives: a suggested consensus terminology. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 1704-6	9.4	177
70	Treatment of mild hyperhomocysteinemia in renal transplant recipients versus hemodialysis patients. *Transplantation*, **2000**, 69, 2128-31	1.8	19
69	Association of dietary protein intake and coffee consumption with serum homocysteine concentrations in an older population. *American Journal of Clinical Nutrition*, **1999**, 69, 467-75	7	106
68	Serum total homocysteine concentrations in adolescent and adult Americans: results from the third National Health and Nutrition Examination Survey. *American Journal of Clinical Nutrition*, **1999**, 69, 482-9	7	199
67	Reply to JE Baggott. *American Journal of Clinical Nutrition*, **1999**, 70, 939-940	7	
66	Nonfasting plasma total homocysteine levels and all-cause and cardiovascular disease mortality in elderly Framingham men and women. *Archives of Internal Medicine*, **1999**, 159, 1077-80		220
65	Enhanced reduction of fasting total homocysteine levels with supraphysiological versus standard multivitamin dose folic acid supplementation in renal transplant recipients. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 2918-21	9.4	51
64	Homocysteine and arteriosclerosis: subclinical and clinical disease associations. *Circulation*, **1999**, 99, 2361-3	16.7	52
63	Cystatin C as a determinant of fasting plasma total homocysteine levels in coronary artery disease patients with normal serum creatinine. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 2241-4	9.4	45
62	Disease Prevention: Broadening the Definition of Folate Nutrition. *Nutrition in Clinical Care: an Official Publication of Tufts University*, **1999**, 2, 82-86		1
61	The effect of folic acid fortification on plasma folate and total homocysteine concentrations. *New England Journal of Medicine*, **1999**, 340, 1449-54	59.2	894
60	Prevalence of mild fasting hyperhomocysteinemia in renal transplant versus coronary artery disease patients after fortification of cereal grain flour with folic acid. *Atherosclerosis*, **1999**, 145, 221-4	3.1	27
59	Serum total homocysteine concentrations in the third National Health and Nutrition Examination Survey (1991-1994): population reference ranges and contribution of vitamin status to high serum concentrations. *Annals of Internal Medicine*, **1999**, 131, 331-9	8	244
58	A common mutation A1298C in human methylenetetrahydrofolate reductase gene: association with plasma total homocysteine and folate concentrations. *Journal of Nutrition*, **1999**, 129, 1656-61	4.1	182
57	Nonfasting plasma total homocysteine level and mortality in middle-aged and elderly men and women in Jerusalem. *Annals of Internal Medicine*, **1999**, 131, 321-30	8	86

56	Nonfasting plasma total homocysteine levels and stroke incidence in elderly persons: the Framingham Study. *Annals of Internal Medicine*, **1999**, 131, 352-5	8	289
55	Serum cystatin C as a determinant of fasting total homocysteine levels in renal transplant recipients with a normal serum creatinine. *Journal of the American Society of Nephrology: JASN*, **1999**, 10, 164-6	12.7	46
54	Determinants of fasting plasma total homocysteine levels among chronic stable renal transplant recipients. *Transplantation*, **1999**, 68, 257-61	1.8	41
53	Properties of food folates determined by stability and susceptibility to intestinal pteroylpolyglutamate hydrolase action. *Journal of Nutrition*, **1998**, 128, 1956-60	4.1	87
52	Relationship between homocysteine and thrombotic disease. *American Journal of the Medical Sciences*, **1998**, 316, 129-41	2.2	51
51	Analysis of folates using combined affinity and ion-pair chromatography. *Methods in Enzymology*, **1997**, 281, 16-25	1.7	25
50	Effect of L-Dopa and the catechol-O-methyltransferase inhibitor Ro 41-0960 on sulfur amino acid metabolites in rats. *Clinical Neuropharmacology*, **1997**, 20, 55-66	1.4	74
49	Response to Letter to the Editor from Koehler et al.. *Journal of Nutrition*, **1997**, 127, 1536-1536	4.1	
48	Elevated fasting total plasma homocysteine levels and cardiovascular disease outcomes in maintenance dialysis patients. A prospective study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1997**, 17, 2554-8	9.4	244
47	Excess prevalence of fasting and postmethionine-loading hyperhomocysteinemia in stable renal transplant recipients. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1997**, 17, 1894-900	9.4	80
46	The effect of l-dopa administration and folate deficiency on plasma homocysteine concentrations in rats. *Journal of Nutritional Biochemistry*, **1997**, 8, 634-640	6.3	25
45	Correlation of a common mutation in the methylenetetrahydrofolate reductase gene with plasma homocysteine in patients with premature coronary artery disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1997**, 17, 569-73	9.4	150
44	Interrelation of hyperhomocyst(e)inemia, factor V Leiden, and risk of future venous thromboembolism. *Circulation*, **1997**, 95, 1777-82	16.7	234
43	High homocysteine levels are independently related to isolated systolic hypertension in older adults. *Circulation*, **1997**, 96, 1745-9	16.7	185
42	Hyperhomocysteinemia and Thrombosis: Acquired Conditions. *Thrombosis and Haemostasis*, **1997**, 78, 527-531	7	31
41	Plasma homocysteine as a risk factor for atherothrombotic events in systemic lupus erythematosus. *Lancet, The*, **1996**, 348, 1120-4	40	315
40	Lack of effect of oral N-acetylcysteine on the acute dialysis-related lowering of total plasma homocysteine in hemodialysis patients. *Atherosclerosis*, **1996**, 120, 241-4	3.1	46
39	Folate status is the major determinant of fasting total plasma homocysteine levels in maintenance dialysis patients. *Atherosclerosis*, **1996**, 123, 193-202	3.1	99

38	Hyperhomocysteinemia, hyperfibrinogenemia, and lipoprotein (a) excess in maintenance dialysis patients: a matched case-control study. *Atherosclerosis*, **1996**, 125, 91-101	3.1	85
37	Dietary intake pattern relates to plasma folate and homocysteine concentrations in the Framingham Heart Study. *Journal of Nutrition*, **1996**, 126, 3025-31	4.1	119
36	Oxidative damage caused by free radicals produced during catecholamine autoxidation: protective effects of O-methylation and melatonin. *Free Radical Biology and Medicine*, **1996**, 21, 241-9	7.8	126
35	Effect of methotrexate and 5-fluorouracil on de novo thymidylate synthesis in human colon carcinoma cell line, Caco-2. *Journal of Nutritional Biochemistry*, **1996**, 7, 513-517	6.3	2
34	High dose-B-vitamin treatment of hyperhomocysteinemia in dialysis patients. *Kidney International*, **1996**, 49, 147-52	9.9	178
33	Relation between folate status, a common mutation in methylenetetrahydrofolate reductase, and plasma homocysteine concentrations. *Circulation*, **1996**, 93, 7-9	16.7	941
32	Methylenetetrahydrofolate reductase polymorphism, plasma folate, homocysteine, and risk of myocardial infarction in US physicians. *Circulation*, **1996**, 94, 2410-6	16.7	304
31	Hyperhomocysteinemia confers an independent increased risk of atherosclerosis in end-stage renal disease and is closely linked to plasma folate and pyridoxine concentrations. *Circulation*, **1996**, 94, 2743-8	16.7	228
30	Behavioral and neurochemical changes in folate-deficient mice. *Physiology and Behavior*, **1995**, 58, 935-41	3.5	41
29	Short term betaine therapy fails to lower elevated fasting total plasma homocysteine concentrations in hemodialysis patients maintained on chronic folic acid supplementation. *Atherosclerosis*, **1995**, 113, 129-32	3.1	41
28	Hyperhomocysteinemia and traditional cardiovascular disease risk factors in end-stage renal disease patients on dialysis: a case-control study. *Atherosclerosis*, **1995**, 114, 93-103	3.1	156
27	Net uptake of plasma homocysteine by the rat kidney in vivo. *Atherosclerosis*, **1995**, 116, 59-62	3.1	196
26	Post-methionine load hyperhomocysteinemia in persons with normal fasting total plasma homocysteine: initial results from the NHLBI Family Heart Study. *Atherosclerosis*, **1995**, 116, 147-51	3.1	160
25	Association between plasma homocysteine concentrations and extracranial carotid-artery stenosis. *New England Journal of Medicine*, **1995**, 332, 286-91	59.2	1044
24	Renal metabolism of homocysteine in vivo. *Biochemical Society Transactions*, **1995**, 23, 470S	5.1	8
23	Homocysteine and coronary artery disease in French Canadian subjects: relation with vitamins B12, B6, pyridoxal phosphate, and folate. *American Journal of Cardiology*, **1995**, 75, 1107-11	3	156
22	Hyperhomocysteinemia and low pyridoxal phosphate. Common and independent reversible risk factors for coronary artery disease. *Circulation*, **1995**, 92, 2825-30	16.7	244
21	Severe folate deficiency causes secondary depletion of choline and phosphocholine in rat liver. *Journal of Nutrition*, **1994**, 124, 2197-203	4.1	123

20	Global DNA hypomethylation increases progressively in cervical dysplasia and carcinoma. *Cancer*, **1994**, 74, 893-9	6.4	163
19	Effect of chronic alcohol ingestion on hepatic folate distribution in the rat. *Biochemical Pharmacology*, **1994**, 47, 1561-6	6	38
18	High dose ascorbate supplementation fails to affect plasma homocyst(e)ine levels in patients with coronary heart disease. *Atherosclerosis*, **1994**, 111, 267-70	3.1	8
17	Elevations in total plasma homocysteine in premature coronary artery, cerebrovascular and peripheral vascular disease. *Atherosclerosis*, **1993**, 102, 121-4	3.1	6
16	Vitamin status and intake as primary determinants of homocysteinemia in an elderly population. *JAMA - Journal of the American Medical Association*, **1993**, 270, 2693-8	27.4	1095
15	Long-term folate deficiency alters folate content and distribution differentially in rat tissues. *Journal of Nutrition*, **1992**, 122, 986-91	4.1	87
14	Effect of chronic choline deficiency in rats on liver folate content and distribution. *Journal of Nutritional Biochemistry*, **1992**, 3, 519-522	6.3	58
13	Bacterially synthesized folate in rat large intestine is incorporated into host tissue folyl polyglutamates. *Journal of Nutrition*, **1991**, 121, 1955-9	4.1	84
12	Combined affinity and ion pair liquid chromatographies for the analysis of folate distribution in tissues. *Journal of Nutritional Biochemistry*, **1991**, 2, 44-53	6.3	18
11	Folate binding in intestinal brush border membranes: evidence for the presence of two binding activities. *Journal of Nutritional Biochemistry*, **1990**, 1, 257-61	6.3	7
10	Determination of tissue folate composition by affinity chromatography followed by high-pressure ion pair liquid chromatography. *Analytical Biochemistry*, **1989**, 182, 84-93	3.1	78
9	Affinity chromatography of naturally occurring folate derivatives. *Analytical Biochemistry*, **1988**, 168, 247-51	3.1	21
8	Intestinal absorption of biotin in the rat. *Journal of Nutrition*, **1986**, 116, 1266-71	4.1	28
7	Milk folate binding protein (FBP): A secretory protein for folate?. *Nutrition Research*, **1984**, 4, 181-187	4	35
6	FMN phosphatase and FAD pyrophosphatase in rat intestinal brush borders: role in intestinal absorption of dietary riboflavin. *Journal of Nutrition*, **1982**, 112, 263-8	4.1	32
5	Preparation and use of affinity columns with bovine milk folate-binding protein (FBP) covalently linked to Sepharose 4B. *Methods in Enzymology*, **1980**, 66, 686-90	1.7	29
4	Assay of folylpolyglutamate hydrolase using pteroyl-labeled substrates and selective short-term bacterial uptake for product determination. *Methods in Enzymology*, **1980**, 66, 663-6	1.7	8
3	Inhibition of folate enzymes by sulfasalazine. *Journal of Clinical Investigation*, **1978**, 61, 221-4	15.9	107

2	Uptake and reduction of radioactive folate by everted sacs of rat small intestine. *FEBS Journal*, **1973**, 33, 433-8		35
1	Chemical fixation of folate binding protein to activated sepharose. *FEBS Letters*, **1973**, 35, 76-8	3.8	13