

## CURRICULUM VITAE\*

**NAME:** Sally P. Stabler, MD

**TITLE:** Professor of Medicine, Hematology with Tenure  
Cleo Scott & Mitchell Vincent Allen Endowed Chair in Hematology Research

**PRESENT ADDRESS:** University of Colorado Anschutz Medical Campus  
Department of Medicine / Division of Hematology

**EDUCATION:** Earlham College, Richmond, Indiana – BS - 1975  
Baylor College of Medicine, Houston, Texas – MD - 1978

**BOARD CERTIFICATION:** Internal Medicine, 1982  
Oncology, 1983  
Hematology, 1984

**LICENSURE:** Texas, 1978 - Inactive  
Colorado, 1983  
Montana, 1993

### ACADEMIC APPOINTMENTS:

1978-1979 Intern in Medicine, Baylor Affiliated Hospitals, Houston, Texas  
1979-1981 Junior & Senior Resident, Baylor Affiliated Hospitals, Houston  
1981-1982 Clinical Fellow in Hematology/Oncology, University of Colorado School of Medicine, Denver  
1982-1984 Research Fellow in Hematology/Oncology, University of Colorado School of Medicine  
1984-1985 Instructor, Division of Hematology/Department of Medicine, University of Colorado  
1984-Present Adult Hemophilia Care Coordinator, Mtn. States Regional Hemophilia & Thrombosis Program  
1986-1992 Assistant Professor of Medicine, University of Colorado School of Medicine, Denver  
1992-1998 Associate Professor of Medicine with Tenure, University of Colorado School of Medicine  
1998-2013 Co-Division Head, Division of Hematology, University of Colorado School of Medicine  
2000-Present Professor of Medicine with Tenure, University of Colorado School of Medicine  
2004 Awarded Chair - Cleo Scott and Mitchell Vincent Allen Endowed Chair in Hematology

### HONORS:

1975: All college honors, Phi Beta Kappa from Earlham College, Richmond, Indiana  
1978: Graduated with honors from Baylor College of Medicine, Houston, Texas

### PROFESSIONAL SOCIETY MEMBERSHIPS:

American Federation for Clinical Research  
Western Society for Clinical Investigation  
American Society of Hematology  
Federation of American Societies for Experimental Biology  
American Society of Clinical Nutrition

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• Updated 12/24/2022

**CURRENT COMMITTEE WORK:**

Institutional Animal Care Committee Chairman (IACUC) – resigned 2001  
Blood Utilization Review Committee, UCHSC – greater than 20 years – until 2017  
Hematology-Oncology Fellowship Review Committee – 23 years – present  
Hematology-Oncology Fellowship Selection Committee-27 years - present  
Intern Interview and Selection Committee – 2002 – Present  
Vice Chancellor’s Advisory Committee – 2010 – 2015  
Chair of the DOM Post Tenure Review Committee 2013-2017

**PATENTS HELD:**

Assay for Sulfhydryl Amino Acids and Methods for Detecting and Distinguishing Cobalamin and Folic Acid Deficiency

Inventors: Robert H. Allen, Sally P. Stabler, and John Lindenbaum

Patent No.: 4,940,658

Date Issued: July 10, 1990

Method for Screening and Distinguishing Between Cobalamin and Folic Acid Deficiency Based on Assay for Cystathionine and 2-Methylcitric Acid

Inventors: Robert H. Allen, Sally P. Stabler

Patent No.: 5,374,560

Date Issued: December 20, 1994

Assays for Sulfhydryl Amino Acids and Methylmalonic Acid and Their Application to Diagnosis of Cobalamin Deficiency

Inventors: Robert H. Allen, Sally P. Stabler

Patent No.: 5,438,017

Date Issued: August 1, 1995

Diagnostic Method for Cobalamin Deficiency

Inventors: Robert H. Allen, Sally P. Stabler, and John Lindenbaum

Patent No.: 5,457,055

Date Issued: October 10, 1995

Method for Treatment and Prevention of Deficiencies of Vitamins B<sub>12</sub>, Folic Acid and B<sub>6</sub>

Inventors: Robert H. Allen and Sally P. Stabler

Patent No.: 5,563,126

Date Issued: October 8, 1996

Method for Treatment and Prevention of Deficiencies of Vitamins B<sub>12</sub>, Folic Acid and B<sub>6</sub>

Inventors: Robert H. Allen and Sally P. Stabler

Patent No.: 5,795,873

Date of Issue: August 18, 1998

Method for Treatment and Prevention of Deficiencies of Vitamins B<sub>12</sub>, Folic Acid and B<sub>6</sub>

Inventors: Robert H. Allen and Sally P. Stabler

Patent No.: 6,207,651

Date of Issue: March 27, 2001

Method for Treatment, Preventing and Reduction of Elevated Serum Metabolite Levels  
Inventors: Robert H. Allen and Sally P. Stabler  
Patent No: 6,297,224  
Date of Issue: October 2, 2001

Compositions Treating, Preventing or Reducing Elevated Metabolic Levels  
Inventors: Robert H. Allen and Sally P. Stabler  
Patent No: 6,528,496  
Date of Issue: March 4, 2003

**MANUSCRIPT REVIEWS:**

*American Journal of Clinical Nutrition – Consulting Editor former 5 year term*  
*Annals of Internal Medicine*  
*Arteriosclerosis, Thrombosis, and Vascular Biology*  
*Arthritis and Rheumatism*  
*Blood*  
*Clinical Chemistry*  
*Contraception*  
*Drugs and Aging*  
*JAMA*  
*Journal of American Geriatric Society*  
*Journal of Biologic Chemistry*  
*Journal of Nutritional Biochemistry*  
*Laboratory and Clinical Medicine*  
*New England Journal of Medicine*  
*Metabolism*  
*and many others*

**INVITED EXPERT:**

1993 – Invited expert for a workshop held at The Centers for Disease Control, Division of Chronic Disease Control and Community Intervention in Atlanta, GA entitled “Possible Adverse Effects of Folic Acid

1994 – Invited to prepare responses to questions about the costs of possible adverse effects due to increased folic acid consumption for the Epidemiology Section, Aging Studies Branch, Division of Chronic Disease Control and Community Intervention, National Center for Chronic Disease Prevention and Health Promotion

1997 – Invited to serve on Institute of Medicine (National Academy of Sciences) panel on Folate and other B vitamins. Served both as a technical advisor and participated in an open meeting on Folate, Vitamin B12 and Choline

1997 – Invited to prepare responses about the “gold standard definition of incident Vitamin B12 deficiency” for Charles G. Helmick, M.D. from The Health Care and Aging Studies Branch Division of Adult and Community Health Centers for Disease Control and Prevention

1997 – Invited and reimbursed for a review of a protocol for The Bureau of Reproductive and Child Health, Health Protection Branch, Health Canada

1998 – Served as an expert for authors of a paper “The need for surveillance of the Vitamin B12 status of the UK population” which was involved in the process of setting up a Food Standards Agency in the United Kingdom

1999 – Participated in an MMA “Round Robin” sponsored by the Centers for Disease Control

1999 – Invited to a working committee for The National Council on Folic Acid to make recommendations for the prevention of neural tube defects sponsored by the March of Dimes and the Centers for Disease Control and Prevention. October 14-15, White Plains Meeting

2001 – Invited to be a Member of the Nutrition Committee of the American Heart Association

2003 – Invited to present research findings to the National Advisory Council on Aging during the NIA “Extramural Highlights.” May 21, 2003

2004 – Invited to be a Member of the Editorial Board of the American Journal of Clinical Nutrition

2004 – Invited to Consult at NHANES: Folate and Vitamin B12 Assessment Workshop, June 28-June 29, 2004

2005 – Invited to attend and evaluate the presentations at the WHO Technical Consultation on Folate and Vitamin B12 Deficiencies. Geneva, October 2005. (Eventually refused because of patent conflict of interest)

2010 – Invited to submit Clinical Practice manuscript to New England Journal of Medicine. (Patent conflict of interest delayed invitation for 2-3 years)

2010 – Invited participant for NHANES: Monitoring of Biomarkers of Folate and Vitamin B12 Status, CDC, NHANES, Bethesda, MD. July 15-16, 2010

2010 – 2014 Elected to be Co-organizer for FASEB Summer Research Conference: Folic Acid, Vitamin B12 and One-Carbon Metabolism for Year 2012 and 2014

2013 – Invited speaker 9<sup>th</sup> International Conference on Homocysteine and One-Carbon Metabolism-Hcy, Trinity College Dublin, Ireland. Sept 8-12, 2013

2015 – Invited participant and speaker at 10<sup>th</sup> International Conference “One-Carbon Metabolism, Vitamins B and Homocysteine,” Nancy, France. July 7-11, 2015

2015 – Invited expert for the Scientific Advisory Board of Nestle Health Science- PamLab, members charged with developing a research agenda in B vitamin supplementation

2016 – Invited to be on the Scientific Committee and to be a speaker for the 11<sup>th</sup> International Conference on Homocysteine and One-Carbon Metabolism, May 14-18, 2017, Aarhus, Denmark.

2018 – Invited speaker at the Cure HHT (Hereditary Hemorrhagic Telangiectasia) Southwest Regional Conference, March 3-4, 2018, Scottsdale, AZ

2019 – Invited speaker at 12<sup>th</sup> International Conference on One Carbon Metabolism, B vitamins and Homocysteine, June 9-13, 2019, Montbrió, Southern Catalonia

2019 – Invited to the NIH/NIDDK Workshop on Metabolic Interaction Between Excess Folates/Folic Acid and Vitamin B12 Deficiency Conference as panelist and a breakout section chair, July 30-August 1, 2019, Bethesda, Maryland

#### **PAST GRANT SUPPORT**

Source: National Institute of General Medical Sciences, National Research Service Award  
Identifying Number: 5 F32 GM09968-02  
Project Title: Characterization of D,L-methylmalonyl-CoA Racemase  
Principal Investigator: Sally P. Stabler, M.D.  
Annual Direct Cost: \$30,000  
Entire Period of Support: 1/1/84-12/31/85

Source: Chapman Research Fund  
Identifying Number: None  
Project Title: Antimetabolite Effects of Cobalamin Analogues  
Principal Investigator: Sally P. Stabler, M.D.  
Annual Direct Costs: \$21,131  
Entire Period of Support: 7/1/87-6/30/88

Source: National Institute of Diabetes and Digestive and Kidney Diseases, DHHS  
Identifying Number: 1 RO1 DK37165-03  
Project Title: Metabolic Aspects of Cobalamin and Folate Pathways  
Principal Investigator: Sally P. Stabler, M.D.  
Percent Effort: 60%  
Annual Direct Costs: \$75,203  
Entire Period of Support: 4/1/86-3/31/89

Source: Biomedical Research Assistance Committee  
Identifying Number: BRS960  
Project Title: Antimetabolite Effects of Cobalamin Analogues in Tissue Culture  
Principal Investigator: Sally P. Stabler, M.D.  
Direct Cost Requested: \$14,036  
Entire Period of Support: 10/1/89-4/30/90

Source: Chapman Research Fund  
Identifying Number: None  
Project Title: Metabolic Role of Methylmalonic Acid in the Central Nervous System  
Principal Investigator: Sally P. Stabler, M.D.  
Direct Cost Requested: \$20,203  
Entire Period of Support: 7/1/89-6/30/91

Source: National Institute for Aging  
Identifying Number: 5-RO1-AG09834-02  
Project Title: Prevalence and Spectrum of B12 Deficiency in the Aged  
Principal Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 65%

Direct Costs: \$123,393  
Entire Period of Support: 6/1/91-5/31/96

Source: National Institute of Allergy and Infectious Diseases  
Identifying Number: ACTG-36  
Project Title: A Placebo Controlled Trial to Evaluate Zidovudine in the Treatment of Human Immunodeficiency Virus in Hemophiliacs

Co-Principal Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 10%  
Annual Direct: \$11,000 in Salary Support  
Entire Period of Support: 3/01/88-6/14/96

Source: National Institute on Aging  
Identifying Number: R01-AG09834  
Project Title: Prevalence and Spectrum of B12 Deficiency in the Aged  
Principal Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 40%  
Direct Costs: \$135,386  
Entire Period of Support: 8/01/97-8/31/02

Source: National Heart/Lung/Blood Institute  
Identifying Number: 1-P50-HL46481  
Project Title: SColoradoR-Lung Biology and Diseases in Infants and Children  
Co-Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 10%  
Annual Direct Costs: \$10,000  
Entire Period of Support: 12/1/96-11/30/01

Source: National Heart/Lung/Blood Institute  
Identifying Number: 1-U1D-HL56263-01  
Project Title: Critical Targets in Mitochondrial Injury  
Co-Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 10%  
Annual Direct Costs: \$20,838 in salary and supplies  
Entire Period of Support: 9/01/99-8/31/03

Source: National Institute on Aging  
Identifying Number: R01-AG09834-12  
Project Title: B12 Nutrition in the Aged  
Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 40%  
Annual Direct Costs: \$175,000  
Entire Period of Support: 07/01/03-06/30/08  
A No Cost Extension was granted for 5 R01AG9834-15, until 6/30/09 for \$52,600. The Project Number is 2-5-20667

Source: National Institute of Health/National Cancer Institute  
Identifying Number: R21-CA137262-01A1  
Project Title: Diet-Induced Adaptive Leukemogenesis: BCR-Abl dependent upregulation of folate

Investigator: James DeGregori, PhD.  
Co-Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 15%  
Annual Direct Costs: \$9,563  
Entire Period of Support: 3/01/09-2/28/10

Source: National Institute of Environmental Health Sciences  
Identifying Number: 1U54ESO15678-01  
Project Title: Novel Antioxidant Therapeutics for Sulfur Mustard Toxicity  
Investigator: Carl White, M.D.  
Co-Investigator: Sally P. Stabler, M.D.  
Percent of Effort: 15%  
Annual Direct Costs: \$40,470  
Entire Period of Support: 9/26/06-05/31/11

Source: National Institute of Diabetes and Digestive and Kidney Diseases Special  
Emphasis Panel  
Identifying Number: 1 R13 DK103410-01  
Project Title: FASEB SRC on Folic Acid, Vitamin B12 and One Carbon Metabolism  
Investigator: Sally P Stabler M.D.  
Annual Direct Costs: \$40,000  
Period of Support: 2014

### **CURRENT LABORATORY SUPPORT**

Stabler Royalty account –about \$1,000,000 - that can be used for lab and personnel support without restrictions (My remaining individual laboratory share of the royalties paid to the University Colorado Department of Medicine for my patents that were licensed)

### **TEACHING RESPONSIBILITIES**

#### **MEDICAL STUDENTS**

- Dr. Stabler was an integral part of the development of the new curriculum, Blood and Lymph course for freshman medical students about 10 years ago. In the decades before then, she had taught much of the same material in the Pathophysiology Course for 2<sup>nd</sup> year students. During the Hematology part of the current Blood and Lymph course, she is a small-group leader for two sessions on anemia cases (4 hours), one session on hemostasis (2 hours) and one on hematologic malignancy cases (2 hours). In addition, she presents two one hour sessions on anemia cases to the full class (clicker sessions) and one hour of clinical hemostasis lectures.
- She has presented the “Therapeutic Use of Vitamins” lecture for at least sixteen years for the Applied Clinical Pharmacology course MED8029.
- She is a preceptor for Phase 1 (first year) Foundations of Doctoring for Medical Students and for later phases occasionally, also.

- She Co-Mentored (with Sean Colgan, PhD) a senior medical student in a research project which started in the summer of 2015 and finished after the student started his Yale Internship in 2016 and resulted in a publication in 2019.
- She has participated in the Internal Medicine career fairs, student poster sessions and other events

### **RESIDENT TEACHING**

- Dr. Stabler had delivered the Noon Conference Resident Lecture Series on various topics including bleeding disorders, platelets and anemias over the last 20 years. In the most recent format for Internal Medicine Resident Didactic Teaching, she presented lectures twice per year entitled, “The Abnormal SPEP - MGUS and MM,” and “Myeloproliferative Disorders and Myelodysplastic Syndromes.”
- She delivered Medical Grand Rounds in April 2007 and on many previous occasions over 30 years. She attends Medical Grand Rounds at least twice per month.
- Dr. Stabler presented a lecture for the Anesthesia Grand Rounds about “Management of Bleeding Disorders in Surgery” in 2009.
- She attends IM Morning Report (now at noon) for relevant cases and is the expert at many Internal Medicine Case Conferences and Morbidity and Mortality Conferences. On numerous occasions she has presented at the Emergency Department Mortality and Morbidity Conference.
- She was the Coordinator for the Resident Hematology/Oncology Ambulatory Elective until about 2008. She oversees Medical Residents in the Hematology Clinic frequently.
- She attended on the Medical Oncology ward rotation teaching 3 House staff for 2-4 weeks per year until 2013 when there was reorganization of the service.
- She has had 2 Residents on a research elective. One authored 2 publications as a result of his elective and went on to Hematology-Oncology fellowship at Washington University, St. Louis.

### **HEMATOLOGY/ONCOLOGY FELLOWSHIP TEACHING**

- Dr. Stabler presents between 2-4 didactic morning conference lectures to the Hematology and Oncology Divisions for the Fellowship Program per year and she attends regularly the other conferences including the Journal Clubs, M and M, and Fellow’s presentations, 2 hours every Friday AM.
- She supervises 1-2 Hematology/Oncology Fellows in the Hematology Clinic as well as the Hemophilia Clinic, weekly and monthly, respectively. She oversees a Hematology/Oncology Fellow on Hematology Consult rounds approximately 13 weeks per year. The 10-12 Heme-Onc fellows rotate yearly through the Hematology Consult service thus she interacts and teaches each fellow for 3-4 months in total during their time at UCH.
- She is part of the Fellow evaluation process.



- She screens, interviews and ranks Fellowship Candidates every year as part of the Hematology – Oncology Fellowship Selection Committee
- She has provided funding for the entire salary of one of the 8 first and second year fellows for more than 16 years because of her association with the Mountain States Hemophilia and Thrombosis Center.
- She funded 50% of a third year Hematology-Oncology fellow, researching bleeding disorders, now on the staff of the Massachusetts General Hospital.

### **GRADUATE STUDENTS**

- Dr. Stabler has been a member of the Thesis Committee for two Graduate students from the Department of Pharmacology, Mihalis I. Panayiotidis, PhD and Heidi O’Neill PhD. She supported and co-mentored their research projects. She provided salary support for 1 year and was on the examining committee for Heidi O’Neill, PhD., 2010. Currently, Dr. Panayiotidis is a Professor of Health and Nutrition at Heriot Watt University in Edinburgh, UK. Dr. O’Neill is a Research Associate in the Institute for Behavioral Genetics, University of Colorado, Boulder.
- She has provided advice on experimental design and laboratory support for many MS and PhD graduate students, post-docs and junior faculty who were working in laboratories of her local, national and international research collaborators. Often, the co-authored publications were the core of their theses. Notable examples are: Leslye C. Pennypacker, MD, now at Malcom Randall VAMC, Gainesville, FL Suparna Rajan, PhD now at VA Puget Sound Health Care System, Amanda MacFarlane, PhD now at Health Canada, Ottawa, Canada and Anna Beaudin, PhD at University of California, Santa Cruz in Biomedical Engineering.
- She has provided mentoring and lab support for the metabolic laboratory portion of a project of a UCD Pediatrics Department PhD student, Molly Kingsley, from Kathrin Bernt’s lab in the Division of Hematology-Oncology and Bone Marrow Transplant.

### **INTERNATIONAL AND NATIONAL CONFERENCES**

- She has participated in all but two of the FASEB SRC Folic Acid, Vitamin B12 and One Carbon Metabolism conferences since the first one in 1986. She was the Chair and organizer of the fully subscribed conference in 2014 held in Steamboat Springs, CO. She obtained the maximum R13 funding from the NIH, and obtained another \$40,000 dollars from private grants so that 78% of speaker costs were covered and numerous travel awards to students and junior faculty were made. The diversity of gender, junior scientists, under-represented minorities and scientists who had not spoken at the meeting before was excellent.
- She has participated as a presenter or session moderator in 9 of the 11 past International Homocysteine Meetings held every other year, and is invited to speak at the 12<sup>th</sup> conference in 2019 in Spain.
- She has attended and has been an invited speaker on multiple occasions to the Bi or Tri Regional Hemophilia Treatment Center Meetings since they began in the mid 1980’s. These yearly meetings are attended by lay Hemophilia Foundation representatives, Medical, Nursing, Physical Therapy, Social Work and other providers. National governmental representatives also attend from NIH or CDC etc.

## HEMATOLOGY REFERENCE AND RESEARCH LABORATORY

- She was the Assistant Laboratory Director for Metabolite Laboratories, Inc. founded by the University of Colorado to perform assays of homocysteine and methylmalonic acid and related vitamin dependent metabolites for 34 years. This CLIA approved lab performs panels for many children's hospitals such as Boston Children's Hospital, Children's Hospital of Wisconsin and Children's Hospital Colorado. Samples were sent from ARUP, Mayo Medical, Queen Elizabeth II Health Sciences and Quest. The unique panel of methylmalonic acid, 2-methylcitric acid, total homocysteine and cystathionine developed by Robert Allen and Sally Stabler at UCD provides almost instant diagnosis of disorders of B12 or folate metabolism, renal failure associated hyperhomocysteinemia versus classical homocystinuria, severe methylenetetrahydrofolate deficiency and other methylation associated causes of elevated homocysteine. She is frequently called by referring providers to interpret the results.
- She is currently the Director of *Anemia Metabolite Laboratory*.
- She directs a research laboratory funded in the past by RO1 NIH grants (20 years with other private and collaborative grants) and now by patent royalties, which are the result of successful inventions. Over 30 years she has investigated metabolic perturbations of metabolites in vitamin deficiency and inborn errors of homocysteine and methionine metabolism. The distinct abnormalities detected in her assays led to the investigation of two newly recognized disorders, S-Adenosylhomocysteine hydrolase deficiency and Glycine N-methyltransferase deficiency as reported in collaboration with others.

## CLINICAL RESPONSIBILITIES

- Dr. Stabler holds a general Hematology Clinic 1 day per week where patients are seen with bleeding disorders, anemias, cytopenias and myeloproliferative or lymphoproliferative disorders.
- She was the only Adult Hematologist for the Mountain States Hemophilia and Thrombosis Center from 1984 until April 2015 when another General Hematologist joined the UH and the Hemophilia Center. She provides ongoing, specialized care for both congenital and acquired hemophilia and rare bleeding disorders. There are approximately 500 adult patients registered with the Center who attend a comprehensive hemophilia clinic yearly to assess their ongoing treatment considerations. In addition, she supervises the ongoing care of these patients with the help of 4 Hemophilia Nurses and answers almost daily calls about treatment for bleeding episodes. She now shares the responsibilities with new providers. She coordinates Factor coverage for surgical treatment of the patients registered at the Center but also for all patients from Kaiser Permanente with congenital bleeding disorders as well as referral for most of the Mountain States Region.
- She performs hematology consults for the University Colorado Hospital approximately 12 weeks per year. She attended on the Oncology ward service for 2-4 weeks per year until 2013. From 2012 to April 2015 she attended 17-18 weeks per year on the UH Hematology consult service.
- She attended 2-3 yearly Hemophilia Outreach Clinics in Billings and Missoula, MT and Grand Junction, CO until 2015 and is now sharing the clinic schedule with another adult provider with likely one clinic per year.
- Named 5280 Top Doctor in Hematology in 2014

## **BIBLIOGRAPHY**

### **Peer-Reviewed Manuscripts**

1. **Stabler SP**, Marcell PD, Allen RH. Isolation and characterization of D,L-methylmalonyl-coenzyme A racemase from rat liver. Arch Biochem Biophys 241: 252-264, 1985 (PMID: 2862845).
2. Marcell PD, **Stabler SP**, Podell ER, Allen RH. Quantitation of methylmalonic acid and other dicarboxylic acids in normal serum and urine using capillary gas chromatography-mass spectrometry. Anal Biochem 150: 58-66, 1985 (PMID: 4083484).
3. **Stabler SP**, Marcell PD, Podell ER, Allen RH, Lindenbaum J. Assay of methylmalonic acid in the serum of patients with cobalamin deficiency using capillary gas chromatography-mass spectrometry. J Clin Invest 77: 1606-1613, 1986 (PMID: 3700655).
4. **Stabler SP**, Marcell PD, Podell ER, Savage DG, Lindenbaum J, Allen RH. Quantitation of total homocysteine, total cysteine, and methionine in normal serum using capillary gas chromatography-mass spectrometry. Anal Biochem 162: 185-196, 1987 (PMID: 3605587).
5. **Stabler SP**, Marcell PD, Podell ER, Savage DG, Lindenbaum J, Allen RH. Elevation of total homocysteine in the serum of patients with cobalamin or folate deficiency detected by capillary gas chromatography-mass spectrometry. J Clin Invest 81:466-474, 1988 (PMID: 3339129).
6. **Stabler SP**, Lindenbaum J, Allen R. Failure to detect  $\beta$ -leucine in human blood or leucine 2,3 amino mutase in rat liver using capillary gas chromatography-mass spectrometry. J Biol Chem 263: 5581-5588, 1988 (PMID: 3356699).
7. Lindenbaum J, Heaton EB, Savage DG, Brust JCM, Garrett TJ, Podell ER, Marcell PD, **Stabler SP**, Allen RH. Neuropsychiatric disorders caused by cobalamin deficiency in the absence of anemia or macrocytosis. NEJM 318: 1720-1728, 1988 (PMID: 3374544).
8. Brass E and **Stabler S**. Carnitine metabolism in the vitamin B12 deficient rat. Biochem J 255:153-59, 1988. (PMID: 3196310)
9. Kovachy R, **Stabler SP**, Allen R. D-methylmalonyl-CoA hydrolase. Methods Enzymol 166: 393-400, 1988 (PMID: 3071714).
10. Kolhouse JF, **Stabler SP**, Allen RH. L-methylmalonyl-CoA mutase from human placenta. Methods Enzymol 166: 407-414, 1988 (PMID: 2907367).
11. Broxson Jr, EH, Stork LC, Allen RH, **Stabler SP**, Kolhouse J. Changes in plasma methionine and total homocysteine levels in patients receiving methotrexate infusions. Cancer Res 49: 5879-5883, 1989 (PMID: 2790801).
12. Brass EP, Allen RH, Arung T, **Stabler SP**. Coenzyme-A metabolism in vitamin B12 deficient rats. J Nutr 120: 290-297, 1990 (PMID: 2319347).
13. Brass EP, Allen RH, Ruff LJ, **Stabler SP**. Effect of hydroxycobalamin [c-lactam] on propionate and carnitine metabolism in the rat. Biochem J 266: 809-815, 1990 (PMID: 2327967).
14. Allen RH, **Stabler SP**, Savage DG, Lindenbaum J. Diagnosis of cobalamin deficiency I: Usefulness of serum methylmalonic acid and total homocysteine concentrations. Am J Hematol 34: 90-98, 1990 (PMID: 2339683).
15. Lindenbaum J, Savage DG, **Stabler SP**, Allen RH. Diagnosis of cobalamin deficiency II. Relative sensitivities of serum cobalamin, methylmalonic acid and total homocysteine concentrations. Am J Hematol 34: 99-107, 1990 (PMID: 2339684).
16. **Stabler SP**, Allen RH, Savage DG, Lindenbaum J. Clinical spectrum and diagnosis of cobalamin deficiency. Blood 76: 871-881, 1990 (PMID: 2393714).
17. Krahenbuhl S, Ray DB, **Stabler SP**, Allen RH, Brass EP. Increased hepatic mitochondrial capacity in rats with hydroxy-cobalamin [c-lactam]-induced methylmalonic aciduria. J Clin Invest 86: 2054-2061, 1990 (PMID: 1701451).
18. **Stabler SP**, Brass EP, Marcell PD, Allen RH. Inhibition of cobalamin-dependent enzymes by cobalamin analogues in rats. J Clin Invest 87: 1422-1430, 1991 (PMID: 1672697).
19. **Stabler SP**, Allen RH, Savage DG, Lindenbaum J. Cerebrospinal fluid methylmalonic acid levels in normal subjects and patients with cobalamin deficiency. Neurol 41: 1627-1632, 1991 (PMID: 1922806).

20. Kolhouse JF, Utley C, **Stabler SP**, Allen RH. Mechanism of conversion of human apo- to holomethionine synthase by various forms of cobalamin. *J Biol Chem* 266: 23010-23015, 1991 (PMID: 1744096).
21. Merigan TC, Amato DA, Balsby J, Power J, Price W, Benoit S, Perez-Michael A, Brownstein A, Kramer A, Brettler D, Aledort L, Ragni M, Andes WA, Gill JC, Goldsmith J, **Stabler SP**, Sanders N, Gjerset G, Lusher J, the ACTG-NHF 036 Study Group Placebo-controlled trial to evaluate zidovadine in treatment of human immunodeficiency virus infection in asymptomatic patients with hemophilia. *Blood* 78: 900-906, 1991 (PMID: 1831059).
22. Pennypacker LC, Allen RH, Kelly JP, Mathews LM, Grigsby J, Kaye K, Lindenbaum J, **Stabler SP**. High prevalence of cobalamin deficiency in elderly outpatients. *JAGS* 40: 1197-1204, 1992 (PMID: 1447433).
23. Allen RH, **Stabler SP**, Savage DG, Lindenbaum J. New approaches to the diagnosis of cobalamin (Cbl, vitamin B12) deficiency in neuropsychiatric disorders. *J Nutr Sci Vitaminol Spec No*: 130-133, 1992 (PMID: 1297723).
24. Allen RH, **Stabler SP**, Savage DG, Lindenbaum J. Elevation of 2-methylcitric acid I and II levels in serum, urine, and cerebrospinal fluid of patients with cobalamin deficiency. *Metabolism* 42: 978-988, 1993 (PMID: 8345822).
25. Rusakow LS, White CW, **Stabler SP**. O<sub>2</sub>-induced changes in lung and storage pool thiols in mice: Effect of superoxide dismutase. *J Appl Physiol* 74: 989-997, 1993 (PMID: 8482694)
26. **Stabler SP**, Lindenbaum J, Savage DG, Allen RH. Elevation of serum cystathionine levels in patients with cobalamin and folate deficiency. *Blood* 81: 3404-3413, 1993. (PMID: 8507876).
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Note: The above publications had an accompanying editorial – Numbers 7, 31, 37, 43, 49.

## **REVIEWS – INVITED OR PEER REVIEWED**

### **Editorials, Scholarly Reviews**

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