

## Publicaties der leden 2003

### Analytisch

#### Klinische Chemie

Artz MA, Boots JMM, Ligtenberg G, Roodnat JI, Christiaans MHL, Vos PF, Blom HJ, Sweep CGJ, Demacker PNM, Hilbrands LB. Improved cardiovascular risk profile and renal function in renal transplant patients after randomized conversion from cyclosporine to tacrolimus. *J Am Soc Nephrol* 2003; 14: 1880-1888.

Asselt DZB van, Thomas CMG, Segers MFG, Blom HJ, Wevers RA, Hoefnagels WHL. Cobalamin-binding proteins in normal and cobalamin-deficient older subjects. *Ann Clin Biochem* 2003; 40: 65-69.

Beurden WJC van, Bosch MJA van den, Janssen WCM, Smeenk FWJM, Dekhuijzen PNR, Harff GA. Fluorimetric analysis of hydrogen peroxide with automated measurement. *Clin Lab* 2003; 49: 637-643.

Davelaar EM, Schutter EM, Mensdorff-Pouilly S von, Kamp GJ van, Verstraeten RA, Kenemans P. Clinical and technical evaluation of the ACS:OV serum assay and comparison with three other CA125-detecting assays. *Ann Clin Biochem* 2003; 40: 663-673.

Groenen PMW, Merkus HMWM, Sweep FCGJ, Wevers RA, Janssen FSM, Steegers-Theunissen RPM. Kinetics of myoinositol loading in women of reproductive age. *Ann Clin Biochem* 2003; 40: 79-85.

Hectors MP, Tits LJ van, Rijke YB de, Demacker PN. Stability studies of ubiquinol in plasma. *Ann Clin Biochem* 2003; 40: 100-101.

Hessels J, Eindhoven HHM, Steggink J, Roeloffzen WWH, Wu K, Tan G, Stadt J van de, Bergeijk L van. Assessment of hypolactasia and site-specific intestinal permeability by differential sugar absorption of raffinose, lactose, sucrose and mannitol. *Clin Chem Lab Med* 2003; 41: 1056-1063.

Huck JH, Struys EA, Verhoeven NM, Jakobs C, Knaap MS van der. Profiling of pentose phosphate pathway intermediates in blood spots by tandem mass spectrometry: application to transaldolase deficiency. *Clin Chem* 2003; 49: 1375-1380.

Kraaij DJW van, Jansen RWMM, Sweep FCGJ, Hoefnagels WHL. Neurohormonal effects of furosemide withdrawal in elderly heart failure patients with normal systolic function. *Eur J Heart Fail* 2003; 5: 47-53.

Poland DCW, Beijer C. Testen op coeliakie, de stand van zaken. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 145-149.

Ross HA, Sweep CGJ. An improved procedure for testing for assay linearity. *Ann Clin Biochem* 2003; 40: 75-78.

Span PN, Grebenchtchikov N, Geurts-Moespot J, Sweep CGJ. Screening for interference in immunoassays. *Clin Chem* 2003; 49: 1708-1709.

Stieber P, Molina R, Chan DW, Fritzsche HA, Beyrau R, Bonfrer JM, Filella X, Gorner TG, Hoff T, Jager W, van Kamp GJ, Nagel D, Peisker K, Sokoll LJ, Troalen F, Untch M, Domke I. Clinical evaluation of the Elecsys CA 15-3 test in breast cancer patients. *Clin Lab* 2003; 49: 15-24.

Verhoeven NM, Schor DS, Roos B, Battini R, Stockler-Ipsiroglu S, Salomons GS, Jakobs C. Diagnostic enzyme assay that uses stable-isotope-labeled substrates to detect L-arginine: glycine amidinotransferase deficiency. *Clin Chem* 2003; 49: 803-805.

Willemse JJ, Sweep CGJ, Lenders JWM, Ross HA. Stability of plasma free metanephrenes during collection and storage as assessed by an optimized HPLC method with electrochemical detection. *Clin Chem* 2003; 49: 1951-1953.

Zuidendorp FMJ, Weykamp CW, Willemse JL. Measurement of urinary porphyrins and porphyrin precursors in Dutch hospital laboratories: a review of quality control over 5 years. *Ann Clin Biochem* 2003; 40: 417-418.

#### Hematologie

Ceelie H, Spaargaren-van Riel CC, Jong M de, Bertina RM, Vos HL. Functional characterization of transcription factor binding sites for HNF1-alpha, HNF3-beta (FOXA2), HNF4-alpha, Sp1 and Sp3 in the human Prothrombin gene enhancer. *J Thromb Haemost* 2003; 1: 1688-1698.

Jonge R de. Automated counting of white blood cells in synovial fluid. In: Proceedings of the Sysmex European Symposium 2003; p. 68-79.

Komarova O, Meer W van der, Levchenko E, Monnens L. Effective chemical preservation of morphology of urinary erythrocytes. *Pediatr Nephrol* 2003; 7: 665-666.

Meer W van der. Band cell and variant lymphocyte estimates: Fact or Fiction? *Cell Dyn News* Dec 2003: 17-18.

Meer W van der, Keijzer MH de. Het automatisch tellen van leukocyten in synoviaalvocht. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 157-158.

Relou IA, Hackeng CM, Akkerman JW, Malle E. Low-density lipoprotein and its effect on human blood platelets. *Cell Mol Life Sci* 2003; 60: 961-971.

#### Immunochemie

Aken MO van, Romijn JA, Miltenburg JA, Lentjes EG. Automated measurement of salivary cortisol. *Clin Chem* 2003; 49: 1408-1409.

Bartels PCM, Schoorl M, Schoorl M. Application of haemocytometry in combination with reticulocyte count and red cell zinc protoporphyrin for appropriate classification of microcytic anaemia. *Sysmex J Int* 2003; 13: 78-82.

Blijenberg BG, Lilja H, Neels H, Stenman UH. Quality assessment for prostate-specific antigen (PSA) in relation to ERSPC: report of the PSA committee. *BJU Int* 2003; 92 Suppl 2: 66-70.

Blijenberg BG, Wildhagen MF, Bangma CH, Finlay JA, Vaisanen V, Schroder FH. Comparison of two assays for human kallikrein 2. *Clin Chem* 2003; 49: 243-247.

Boekel E ten, Kieviet W de, Bartels PCM. Subjects with a shortened activated partial thromboplastin time show increased in hospital mortality associated with elevated D-dimer, C-reactive protein and glucose levels. *Scand J Clin Lab Invest* 2003; 63: 441-448.

Chan CP, Sum KW, Cheung KY, Glatz JFC, Sanderson JE, Hempel A, Lehmann M, Renneberg I, Renneberg R. Development of a quantitative lateral-flow assay for rapid detection of fatty acid-binding protein. *J Immunol Methods* 2003; 279: 91-100.

Gok MA, Pelsers MMAL, Glatz JFC, Bhatti AA, Shenton BK, Peaston R, Cornell C, Mantle D, Talbot D. Comparison of perfuse activities of glutathion S-transferase, alanine aminopeptidase and fatty acid binding protein in the assessment of non-heart beating donor kidneys. *Ann Clin Biochem* 2003; 40: 252-258.

Muley T, Ebert W, Stieber P, Raith H, Holdenrieder S, Nagel D, Furst H, Roth HJ, Luthe H, Blijenberg BG, Gurr E, Uhl W, Pawel J von, Drings P. Technical performance and diagnostic utility of the new Elecsys neuron-specific enolase enzyme immunoassay. *Clin Chem Lab Med* 2003; 41: 95-103.

Schwarz MJ, Domke I, Helander A, Janssens PMW, Pelt J van, Springer B, Ackenheil M, Bernhardt K, Weigl G, Soyka M. Multicenter evaluation of a new assay for determination of carbohydrate-deficient transferrin. *Alcohol Alcoholism* 2003; 38: 270-275.

Telting D, Foolen Y, Michels R, Schellekens APM. Prestaties van de Bayer cardiaal troponine-I bepaling op de Advia-Centaur. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 153-156.

Voort D van der, Pelsers MMAL, Korf J, Hermens WT, Glatz JFC. Development of a displacement immunoassay for human heart-type fatty acid-binding protein in plasma: the basic conditions. *Biosens Bioelectron* 2003; 19: 465-471.

Zelst BD van, Blijenberg BG. PSA-vergelijkbaarheid: standaardisatie of harmonisatie. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 26-32.

### Moleculaire technieken

Bergh FA van der, Martens A. DNA testing, the first step in diagnosing cystic fibrosis. *Ned Tijdschr Geneesk* 2003; 147: 1001-1005.

Cryns K, Sivakumaran TA, Ouwehand JM van den, Pennings RJE, Cremers CRWJ, Flothmann K, Young T-L, Smith RJH, Lesperance MM, Camp G van. Mutational spectrum of the WFS1 gene in Wolfram syndrome, nonsyndromic hearing impairment, diabetes mellitus and psychiatric genetics. *Hum Mut* 2003; 22: 275-287.

Heil SG, Kluijtmans LA, Spiegelstein O, Finnell RH, Blom HJ. Gene-specific monitoring of T7-based RNA amplification by real-time quantitative PCR. *Biotechniques* 2003; 35: 502-504, 506-508.

Hessels D, Klein Gunnewiek J, Oort I van, Karthaus H, Leenders G van, Balken B van, Kiemeney L, Witjes J, Schalken J. DD3/PSA based molecular urine analysis in the diagnosis of prostate cancer. *Eur Urol* 2003; 44: 8-16.

Heuvel LP van den, Farhoud MH, Wevers RA, Engelen BG van, Smeitink JA. Proteomics and neuromuscular diseases: theoretical concept and first results. *Ann Clin Biochem* 2003; 40: 9-15.

Kok JB de. Quantification and integrity analysis of DNA in the stool of colorectal cancer patients may represent a complex alternative to fecal occult blood testing. *Clin Chem* 2003; 49: 2112-2113.

Oudejans CB, Go AT, Visser A, Mulders MA, Westerman BA, Blankenstein MA, Vugt JM van. Detection of chromosome 21-encoded mRNA of placental origin in maternal plasma. *Clin Chem* 2003; 49: 1445-1449.

Ouweland JM van den, Cryns K, Pennings RJE, Walraven I, Janssen GMC, Maassen JA, Veldhuijzen BFE, Arntzenius AB, Lindhout D, Cremers CRWJ, Camp G van, Dikkeschei LD. Molecular Characterization of WFS1 in Patients with Wolfram Syndrome. *J Mol Diagn* 2003; 5: 88-95.

Roelofs RW, Sprong T, Kok JB de, Swinkels DW. PCR-restriction fragment length polymorphism method to detect the X/Y polymorphism in the promotor site of the mannose-binding lectin-gene. *Clin Chem* 2003, 49: 1557-1558.

Swinkels DW, Wiegerinck ETG, Steegers EAP, Kok JB de. Blood processing protocols for the isolation of cell-free DNA. *Clin Chem* 2003; 49: 525-526.

### Klinisch

#### Hart- en vaatziekten

Abid Hussein MN, Meesters EW, Osmanovic N, Romijn FP, Nieuwland R, Sturk A. Antigenic characterization of endothelial cell-derived microparticles and their detection ex vivo. *J Thromb Haemost*. 2003; 1: 2434-2443.

Abou El Hassan MA, Verheul HM, Jorna AS, Schalkwijk C, Bezu J van, Vijgh WJ van der, Bast A. The new cardioprotector Monohydroxyethylrutoside protects against doxorubicin-induced inflammatory effects in vitro. *Br J Cancer* 2003; 89: 357-362.

Artz MA, Boots JM, Ligtenberg G, Roodnat JI, Christiaans MH, Vos PF, Blom HJ, Sweep FC, Demacker PN, Hilbrands LB. Improved cardiovascular risk profile and renal function in renal transplant patients after randomized conversion from cyclosporine to tacrolimus. *J Am Soc Nephrol* 2003; 14: 1880-1888.

Bholasingh R, Cornel JH, Kamp O, Straalen JP van, Sanders GT, Tijssen JG, Umans VA, Visser CA, Winter RJ de. Prognostic value of predischarge dobutamine stress echocardiography in chest pain patients with a negative cardiac troponin T. *J Am Coll Cardiol*. 2003; 41: 596-602.

Bholasingh R, Cornel JH, Kamp O, Straalen JP van, Sanders GT, Dijksman L, Tijssen JG, Winter RJ de. The prognostic value of markers of inflammation in patients with troponin T-negative chest pain before discharge from the emergency department. *Am J Med*. 2003; 115: 521-528.

- Bourajjaj M, Stehouwer CD, Hinsbergh VW van, Schalkwijk CG. Role of methylglyoxal adducts in the development of vascular complications in diabetes mellitus. *Biochem Soc Trans* 2003; 31: 1400-1402.
- Bradamante S, Barenghi L, Piccinini F, Bertelli AA, Jonge R de, Beemster P, Jong JW de. Resveratrol provides late-phase cardioprotection by means of a nitric oxide- and adenosine-mediated mechanism. *Eur J Pharmacol* 2003; 465: 115-123.
- Bree A de, Verschuren WM, Bjørke-Monsen AL, Put NM van der, Heil SG, Trijbels FJ, Blom HJ. Effect of the methylene-tetrahydrofolate reductase 677C\_T mutation on the relations among folate intake and plasma folate and homocysteine concentrations in a general population sample. *Am J Clin Nutr* 2003; 77: 687-693.
- Bree A de, Verschuren WM, Blom HJ, Nadeau M, Trijbels FJ, Kromhout D. Coronary heart disease mortality, plasma homocysteine, and B-vitamins: a prospective study. *Atherosclerosis* 2003; 166: 369-377.
- Brown KS, Kluijtmans LA, Young IS, Woodside J, Yarnell JW, McMaster D, Murray L, Evans AE, Boreham CA, McNulty H, Strain JJ, Mitchell LE, Whitehead AS. Genetic evidence that nitric oxide modulates homocysteine: the NOS3 894TT genotype is a risk factor for hyperhomocystenemia. *Arterioscler Thromb Vasc Biol* 2003; 23: 1014-1020.
- Castro R, Rivera I, Ravasco P, Jakobs C, Blom HJ, Camilo ME, Almeida IT de. 5,10-Methylenetetrahydrofolate reductase 677C\_T and 1298A\_C mutations are genetic determinants of elevated homocysteine. *QJM* 2003; 96: 297-303.
- Castro R, Rivera I, Struys EA, Jansen EE, Ravasco P, Camilo ME, Blom HJ, Jakobs C, Tavares de Almeida I. Increased homocysteine and S-adenosylhomocysteine concentrations and DNA hypomethylation in vascular disease. *Clin Chem* 2003; 49: 1292-1296.
- Chan CPY, Cheng WS, Glatz JFC, Voort D van der, Sanderson JE, Hempel A, Lehmann M, Renneberg I, Renneberg R. Early diagnosis of acute myocardial infarction using immunosensors and immunotests. *Anal Lett* 2003; 36: 1987-2004.
- Dam B van, Hinsbergh VW van, Stehouwer CD, Versteilen A, Dekker H, Buytenhek R, Princen HM, Schalkwijk CG. Vitamin E inhibits lipid peroxidation-induced adhesion molecule expression in endothelial cells and decreases soluble cell adhesion molecules in healthy subjects. *Cardiovasc Res* 2003; 57: 563-571.
- Drent M, Singh S, Gorgels APM, Hansell DM, Bekers O, Nicholson AG, Suylen RJ van, Bois RM du. Drug-induced pneumonitis and heart failure simultaneously associated with Venlafaxine. *AM J Respir Crit Care Med* 2003; 167: 958-961.
- Duscheck EJ, Stehouwer CD, Valk-de Roo GW de, Schalkwijk CG, Lambert J, Netelenbos C. Raloxifene, conjugated oestrogen and endothelial function in postmenopausal women. *J Intern Med* 2003; 254: 85-94.
- Fokkema MR, Dijck-Brouwer DAJ, Doormaal JJ van, Reijngoud DJ, Muskiet FAJ. Low diagnostic value of fasting and post methionine load homocysteine tests. A study in Dutch patients and family members with homocysteine test indications. *Clin Chim Acta* 2003; 331: 153-157.
- Fokkema MR, Dijs FPL van der, Steward HN, Muskiet FAJ. High homocysteine and low vitamin B12 in an Indian population, living in the island of Curaçao. In: Trends Clin Biochem Lab Medicine (Association of Clinical Biochemists India) 2003; 463-468.
- Fokkema MR, Gilissen MF, Doormaal JJ van, Muskiet FAJ. Fasting vs nonfasting homocysteine concentrations for diagnosis of hyperhomocysteinemia. *Clin Chem* 2003; 49: 818-821.
- Franke HR, Kenemans P. Oral, more than transdermal, estrogen therapy improves lipids and lipoprotein(a) in postmenopausal women: a randomized, placebo-controlled study. *Menopause* 2003; 10: 550-558.
- Gaughan DJ, Kluijtmans LAJ, Barbaux S, McMaster D, Young IS, Yarnell JWG, Evans A, Whitehead AS. Corrigendum to "The methionine synthase reductase (MTRR) A66G polymorphism is a novel genetic determinant of plasma homocysteine concentrations" [Atherosclerosis 2001; 157: 451-456]. *Atherosclerosis* 2003; 167: 373.
- Glatz JFC, Putten RFM van der, Hermens WT. Fatty acid-binding protein as an early plasma marker of myocardial ischemia and risk stratification. In: *Cardiac Markers*, 2nd edition (Wu AHB, ed). Humana Press, Totowa NJ, pp. 319-337, 2003.
- Gok MA, Pelsers MMAL, Glatz JFC, Shenton BK, Buckley PE, Cornell C, Peaston R, Leung E, El-Sheikh MFA, Mantle D, Jacques BC, Soomro N, Manas DM, Talbot D. Creatinine clearance and viability biomarkers of machine perfused non-heart-beating donors: is there a correlation? *Transplant Proc* 2003; 35: 768-768.
- Gok MA, Pelsers MMAL, Glatz JFC, Shenton BK, Buckley PE, Peaston R, Cornell C, Mantle D, Soomro N, Jaques BC, Manas DM, Talbot D. Do tissue damage biomarkers used to assess machine-perfused NHBD kidneys predict long-term renal function post-transplant? *Clin Chim Acta* 2003; 338: 33-43.
- Gok MA, Pelsers MMAL, Glatz JFC, Shenton BK, Peaston R, Cornell C, Talbot D. Use of two biomarkers of renal ischemia to assess machine-perfused non-heart beating donor kidneys. *Clin Chem* 2003; 49: 172-175.
- Goor JM van den, Brink A van den, Nieuwland R, Oeveren W van, Rutten PM, Tepaske R, Tijssen JG, Sturk A, Mol BA de, Eijsman L. Generation of platelet-derived microparticles in patients undergoing cardiac surgery is not affected by complement activation. *J Thorax Cardiovasc Surg* 2003; 126: 1101-1106.
- Groot MJM de, Kragten HJA, Hermens WT, Glatz JFC. Assessment of coronary reperfusion by cardiac marker proteins in patients with myocardial infarction - a review. *Cardiovasc Reviews Reports* 2003; 24: 144-149.
- Harff GA, Vrijland CCA, Dijkstra JB, Bosch MJA van den, Schönberger JPAM. Impact of allogenic blood transfusions on temperature, platelet count and differential leukocyte count of patients after coronary artery bypass grafting. *Clin Lab* 2003; 49: 143-146.
- Harff GA, Vrijland CCA, Dijkstra JB, Bosch MJA van den, Schönberger JPAM. Impact of perioperative myocardial infarction on temperature, platelet count and differential leukocyte count of patients just before and after coronary artery bypass grafting. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 202-203.
- Hemelaar M, Mooren MJ van der, Mijatovic V, Bouman AA, Schijf CP, Kroeks MV, Horrobin DF, Fokkema MR, Muskiet FAJ. The effects on plasma, red cell and platelet fatty acids of taking 12 g/day of ethyl-eicosapentaenoate for 16 months: dihomogammalinolenic, arachidonic and docosahexaenoic acids and relevance to Inuit metabolism. *Prostaglandins Leukot Essent Fatty Acids* 2003; 68: 301-304.

Hussein MNA, Meesters EW, Osmanovic N, Romijn FPHT, Nieuwland R, Sturk A. Antigenic characterization of endothelial cell-derived microparticles and their detection ex vivo. *J Thromb Haemost* 2003; 1: 2434-2443.

Klerk M, Lievers KJ, Kluijtmans LA, Blom HJ, Heijer M den, Schouten EG, Kok FJ, Verhoef P. The 2756A>G variant in the gene encoding methionine synthase: its relation with plasma homocysteine levels and risk of coronary heart disease in a Dutch case-control study. *Thromb Res* 2003; 110: 87-91.

Kluijtmans LA, Young IS, Boreham CA, Murray L, McMaster D, McNulty H, Strain JJ, McPartlin J, Scott JM, Whitehead AS. Genetic and nutritional factors contributing to hyperhomocysteinemia in young adults. *Blood* 2003; 101: 2483-2488.

Lievers KJ, Kluijtmans LA, Blom HJ. Genetics of hyperhomocysteinaemia in cardiovascular disease. *Ann Clin Biochem* 2003; 40: 46-59.

Lievers KJ, Kluijtmans LA, Heil SG, Boers GH, Verhoef P, Heijer M den, Trijbels FJ, Blom HJ. Cystathione beta-synthase polymorphisms and hyperhomocysteinaemia: an association study. *Eur J Hum Genet* 2003; 11: 23-29.

Meleady R, Ueland PM, Blom H, Whitehead AS, Refsum H, Daly LE, Vollset SE, Donohue C, Giesendorf B, Graham IM, Ulvik A, Zhang Y, Bjørke Monsen AL. EC Concerted Action Project: Homocysteine and Vascular Disease. Thermolabile methylenetetrahydrofolate reductase, homocysteine, and cardiovascular disease risk: the European Concerted Action Project. *Am J Clin Nutr* 2003; 77: 63-70.

Meuwissen M, Winter RJ de, Chamuleau SAJ, Heijne M, Koch KT, Berg A van den, Straalen JP van, Bax M, Schorborgh CE, Kearney D, Sanders GT, Tijssen JGP, Piek JJ. Value of C-reactive protein in patients with stable angina pectoris, coronary narrowing (30% to 70%), and normal fractional flow reserve. *Am J Cardiol* 2003; 92: 702-705.

Meuwissen M, Winter RJ de, Chamuleau SA, Koch KT, Straalen JP van, Bax M, Schorborgh CE, Sanders GT, Tijssen JG, Piek JJ. The additional value of C-reactive protein in patients with intermediate coronary lesions and a normal fractional flow reserve. *J Am Coll Cardiol* 2003; 41: 359A.

Nijveldt RJ, Teerlink T, Guldener C van, Prins HA, Lambalgen AA van, Stehouwer CD, Rauwerda JA, Leeuwen PA van. Handling of asymmetrical dimethylarginine and symmetrical dimethylarginine by the rat kidney under basal conditions and during endotoxaemia. *Nephrol Dial Transplant* 2003; 18: 2542-2550.

Nijveldt RJ, Teerlink T, Leeuwen PA van. The asymmetrical dimethylarginine (ADMA)-multiple organ failure hypothesis. *Clin Nutr* 2003; 22: 99-104.

Pelsers MMAL, Namot Z, Kisielewski W, Namot A, Janusziewicz, Hermens WT, Glatz JFC. Intestinal-type and liver-type fatty acid-binding protein in the intestine: tissue distribution and clinical utility. *Clin Biochem* 2003; 36: 529-535.

Post MS, Verhoeven MO, Mooren MJ van der, Kenemans P, Stehouwer CD, Teerlink T. Effect of hormone replacement therapy on plasma levels of the cardiovascular risk factor asymmetric dimethylarginine: a randomized, placebo-controlled 12-week study in healthy early postmenopausal women. *J Clin Endocrinol Metab* 2003; 88: 4221-4226.

Pouwels MJ, Heijer M den, Blom HJ, Tack CJ, Hermus AR. Improved insulin sensitivity and metabolic control in type 2 diabetes does not influence plasma homocysteine. *Diabetes Care* 2003; 26: 1637-1639.

Riksen NP, Rongen GA, Blom HJ, Russel FG, Boers GH, Smits P. Potential role for adenosine in the pathogenesis of the vascular complications of hyperhomocysteinemia. *Cardiovasc Res* 2003; 59: 271-276.

Rooij IA van, Vermeij-Keers C, Kluijtmans LA, Ocke MC, Zielhuis GA, Goorhuis-Brouwer SM, Biezen JJ van der, Kuijpers-Jagtman AM, Steegers-Theunissen RP. Does the interaction between maternal folate intake and the methylenetetrahydrofolate reductase polymorphisms affect the risk of cleft lip with or without cleft palate? *Am J Epidemiol* 2003; 157: 583-591.

Rothkrantz-Kos S, Bekers O, Gubbels A, Drent M, Schmitz MPJ, Diejen-Visser MP van. Evaluation of two new high-sensitivity methods for C-reactive protein. *Ann Clin Biochem* 2003; 40: 398-405.

Rothkrantz-Kos SM, Schmitz MPJ, Bekers O, Diejen-Visser MP van. Evaluation of high sensitivity c-reactive protein methods. *Labmedica Int* 2003; 13-14.

Scheffer PG, Bos G, Volwater HG, Dekker JM, Heine RJ, Teerlink T. Associations of LDL size with in vitro oxidizability and plasma levels of in vivo oxidized LDL in Type 2 diabetic patients. *Diabet Med* 2003; 20: 563-567.

Schram MT, Chaturvedi N, Schalkwijk C, Giorgino F, Ebeling P, Fuller JH, Stehouwer CD; EURODIAB Prospective Complications Study. Vascular risk factors and markers of endothelial function as determinants of inflammatory markers in type 1 diabetes: the EURODIAB Prospective Complications Study. *Diabetes Care* 2003; 26: 2165-2173.

Schram MT, Stam F, Jongh RT de, Vries G de, Dijk RA van, Serne EH, Lampe D, Nanayakkara PW, Tushuizen ME, Scheffer PG, Schalkwijk CG, Kamper AM, Stehouwer CD. The effect of calcium dobesilate on vascular endothelial function, blood pressure, and markers of oxidation in obese male smokers: a placebo-controlled randomised clinical trial. *Atherosclerosis* 2003; 170: 59-72.

Sramek A, Reiber JH, Baak-Pablo R, Sturk A, Rosendaal FR. Lipoprotein(a) and ultrasonographically determined early atherosclerotic changes in the carotid and femoral artery. *J Thromb Haemost* 2003; 1: 374-379.

Stam F, Guldener C van, Schalkwijk CG, Wee PM ter, Donker AJ, Stehouwer CD. Impaired renal function is associated with markers of endothelial dysfunction and increased inflammatory activity. *Nephrol Dial Transplant* 2003; 18: 892-898.

Vainas T, Lubbers T, Stassen FRM, Herngreen SB, Diejen-Visser MP van, Bruggeman CA, Kitslaar PJEHM, Schurink GWH. Serum C-reactive protein level is associated with abdominal aortic aneurysm size and may be produced by aneurysmal tissue. *Circulation* 2003; 107: 1103-1105.

VanWijk MJ, VanBavel E, Sturk A, Nieuwland R. Microparticles in cardiovascular diseases. *Cardiovasc Res* 2003; 59: 277-287.

Veerkamp MJ, Graaf J de, Heijer M den, Blom HJ, Stalenhoef AF. Plasma homocysteine in subjects with familial combined hyperlipidemia. *Atherosclerosis* 2003; 166: 111-117.

Vermeulen EG, Rauwerda JA, Berg M van den, Jong SC de, Schalkwijk C, Twisk JW, Stehouwer CD. Homocysteine-lowering treatment with folic acid plus vitamin B6 lowers urinary albumin excretion but not plasma markers of endothelial function or C-reactive protein: further analysis of secondary end-points of a randomized clinical trial. *Eur J Clin Invest* 2003; 33: 209-215.

Wanby P, Brattstrom L, Brudin L, Hultberg B, Teerlink T. Asymmetric dimethylarginine and total homocysteine in plasma after oral methionine loading. *Scand J Clin Lab Invest* 2003; 63: 347-353.

Welten AG, Schalkwijk CG, Wee PM ter, Meijer S, Born J van den, Beelen RJ. Single exposure of mesothelial cells to glucose degradation products (GDPs) yields early advanced glycation end-products (AGEs) and a proinflammatory response. *Perit Dial Int* 2003; 23: 213-221.

Winter RJ de, Koch KT, Straalen JP van, Heyde G, Bax M, Schotborgh CE, Mulder KJ, Sanders GT, Fischer J, Tijssen JGP, Piek JJ. C-reactive protein and coronary events following percutaneous coronary angioplasty. *Am J Med* 2003; 115: 85-90.

Yuan Y, Kwong AWK, Kaptein H, Fong C, Tse M, Glatz JFC, Chan C, Renneberg R. The responses of fatty acid-binding protein and creatine kinase to acute and chronic exercise in junior rowers. *Res Quat Exercise Sport* 2003; 74: 277-283.

### Hematologie

Emmer PM, Steegers EA, Lierop MJ van, Loke YW, Meer A van der, Joosten I. Levels of soluble HLA-G in amniotic fluid are related to the sex of the offspring. *Eur J Immunogenet* 2003; 30: 163-164.

Ermens AA, Vlasveld LT, Lindemans J. Significance of elevated cobalamin (vitamin B12) levels in blood. *Clin Biochem* 2003; 36: 585-590.

Hoffmann JJML, Dop PA van. Een zwangere patiënt met anti-stoffen tegen een 'public' antigeen: en wat nu? *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 285-287.

Koenen HJ, Fasse E, Joosten I. IL-15 and cognate antigen successfully expand de novo-induced human antigen specific CD4+ regulatory T-cells that require antigen specific activation for suppression. *J Immunol* 2003; 171: 6431-6441.

Koenen HJ, Michielsen EC, Verstappen J, Fasse E, Joosten I. Superior T-cell suppression by rapamycin and FK506 over rapamycin and cyclosporine A because of abrogated cytotoxic T-lymphocyte induction, impaired memory responses, and persistent apoptosis. *Transplantation* 2003; 75: 1581-1590.

Koopmans EM, Schattenberg A, Joosten I, Preijers F, Kort WL de. Analysis of 127 stem cell donations of the regional Bone Marrow Donor Bank Europedonor Nijmegen, The Netherlands. *Leuk Lymphoma* 2003; 44: 983-987.

Lukassen HG, Meer A van der, Lierop MJ van, Lindeman EJ, Joosten I, Braat DD. The proportion of follicular fluid CD16 +CD56DIM NK cells is increased in IVF patients with idiopathic infertility. *J Reprod Immunol* 2003; 60: 71-84.

Meer W van der, Mackenzie MA, Dinnissen JWB, Keijzer MH de. Pseudoplatelets: a retrospective study of their incidence and interference with platelet counting. *J Clin Pathol* 2003; 56: 772-774.

Muskiet FAJ, Fokkema MR, Dijs FPL van der, Jager EH, Dijck-Brouwer DAJ, Schnog JB, Duits AJ, Muskiet FD. Folic acid, vitamin B12 and vitamin B6 supplementation of pediatric patients with sickle cell disease. In: Trends Clin Biochem Lab Medicine (Association of Clinical Biochemists India) 2003; 469-476.

Schutgens REG, Haas FJLM, Gerritsen WBM, Horst FAL van der, Nieuwenhuis HK, Biesma DH. The usefulness of five D-

dimer assays the exclusion of deep venous thrombosis. *J Thromb Haem* 2003; 1: 976-981.

Schutgens RE, Ackerman P, Haas FJ, Nieuwenhuis HK, Peltenburg HG, Pijlman AH, Pruijm M, Oltmans R, Kelder JC, Biesma DH. Combination of a normal D-dimer concentration and a non-high pretest clinical probability score is a safe strategy to exclude deep venous thrombosis. *Circulation* 2003; 107: 593-597.

Vroonhof K, Rijn HJM van, Hattum J van. Vitamin K deficiency and bleeding after long-term use of cholestyramine. *Neth J Med* 2003; 61: 19-21.

Willekens FL, Roerdinkholder-Stoelwinder B, Groenen-Dopp YA, Bos HJ, Bosman GJ, Bos AG van den, Verkleij AJ, Werre JM. Hemoglobin loss from erythrocytes in vivo results from spleen-facilitated vesiculation. *Blood* 2003; 101: 747-751.

### Gynaecologie / obstetrie / perinatologie

Afman LA, Blom HJ, Put NM van der, Straaten HW van. Homocysteine interference in neurulation: a chick embryo model. *Birth Defects Res* 2003; 67: 421-428.

Afman LA, Lievers KJ, Kluijtmans LA, Trijbels FJ, Blom HJ. Gene-gene interaction between the cystathione beta-synthase 31 base pair variable number of tandem repeats and the methylenetetrahydrofolate reductase 677C > T polymorphism on homocysteine levels and risk for neural tube defects. *Mol Genet Metab* 2003; 78: 211-215.

Afman LA, Trijbels FJ, Blom HJ. The H475Y polymorphism in the glutamate carboxypeptidase II gene increases plasma folate without affecting the risk for neural tube defects in humans. *J Nutr* 2003; 133: 75-77.

Boot MJ, Steegers-Theunissen RP, Poelmann RE, Iperen L van, Lindemans J, Gittenberger-de Groot AC. Folic acid and homocysteine affect neural crest and neuroepithelial cell outgrowth and differentiation in vitro. *Dev Dyn* 2003; 227: 301-308.

Bouwstra H, Boersma ER, Boehm G, Dijck-Brouwer DAJ, Muskiet FAJ, Hadders-Algra H. Exclusive breastfeeding of healthy term infants for at least 6 weeks improves neurological condition. *J Nutr* 2003; 133: 4243-4245.

Groenen PM, Merkus HM, Sweep FC, Wevers RA, Janssen FS, Steegers-Theunissen RP. Kinetics of myo-inositol loading in women of reproductive age. *Ann Clin Biochem* 2003; 40: 79-85.

Groenen PM, Peer PG, Wevers RA, Swinkels DW, Franke B, Mariman EC, Steegers-Theunissen RP. Maternal myo-inositol, glucose, and zinc status is associated with the risk of offspring with spina bifida. *Am J Obstet Gynecol* 2003; 189: 1713-1719.

Groenen PM, Wevers RA, Janssen FS, Tuerlings JH, Merkus JM, Steegers-Theunissen RP. Are myo-inositol, glucose and zinc concentrations in amniotic fluid of fetuses with spina bifida different from controls? *Early Hum Dev* 2003; 71: 1-8.

Janssens PMW. No reason for a reduction in the number of offspring per semen donor because of possible transmission of autosomal dominant diseases. *Human Reproduction* 2003; 18: 669-671.

Manten GT, Franx A, Hoek YY van der, Hameeteman TM, Voorbij HA, Smolders HC, Westers P, Visser GH. Changes of plasma lipoprotein(a) during and after normal pregnancy in Caucasians. *J Matern Fetal Neonatal Med* 2003; 14: 91-95.

- Manten GT, Sikkema JM, Franx A, Hameeteman TM, Visser GH, Groot PG de, Voorbij HA. Increased high molecular weight fibrinogen in pre-eclampsia. *Thromb Res* 2003; 111: 143-147.
- Oudejans CB, Tjoa ML, Westerman BA, Mulders MA, Wijk IJ van, Vugt JM van. Circulating trophoblast in maternal blood. *Prenat Diagn* 2003; 23: 111-116.
- Ray JG, Blom HJ. Vitamin B12 insufficiency and the risk of fetal neural tube defects. *QJM* 2003; 96: 289-295.
- Rooij IA van, Swinkels DW, Blom HJ, Merkus HM, Steegers-Theunissen RP. Vitamin and homocysteine status of mothers and infants and the risk of nonsyndromic orofacial clefts. *Am J Obstet Gynecol* 2003; 189: 1155-1160.
- Smit EN, Fokkema MR, Boersma ER, Muskiet FAJ. Higher erythrocyte 22:6n-3 and 22:5n-6, and lower 22:5n-3 suggest higher delta-4 desaturase capacity in women of childbearing age. (Letter). *Br J Nutr* 2003; 89: 739-740.
- Smit EN, Martini IA, Kemperman RFJ, Schaafsma A, Muskiet FAJ, Boersma ER. Fatty acids in formulae for term infants. Compliance of present recommendations with the actual human milk fatty acid composition of geographically different populations. *Acta Paediatr* 2003; 92: 790-796.
- Spencer K, Kok JB de, Swinkels DW. Increased total cell-free DNA in the serum of pregnant women carrying a fetus affected by trisomy 21. *Prenat Diagn* 2003; 32: 580-583.
- Tjoa ML, Mulders MA, Vugt JM van, Blankenstein MA, Oudejans CB, Wijk IJ van. Plasma hepatocyte growth factor as a marker for small-for-gestational age fetuses. *Eur J Obstet Gynecol Reprod Biol* 2003; 110: 20-25.
- Tjoa ML, Vugt JM van, Go AT, Blankenstein MA, Oudejans CB, Wijk IJ van. Elevated C-reactive protein levels during first trimester of pregnancy are indicative of preeclampsia and intrauterine growth restriction. *J Reprod Immunol* 2003; 59: 29-37.
- Wijnberger LD, Kleine M de, Voorbij HA, Arabin B, Leur JJ van de, Bruinse HW, Visser GH, Bossuyt PM, Mol BW. The effect of clinical characteristics on the lecithin/sphingomyelin ratio and lamellar body count: a cross-sectional study. *J Matern Fetal Neonatal Med* 2003; 14: 373-382.
- Wirds JW, Duyn AEJ, Geraerts SD, Preijer E, Diemen van-Steenvoorde JAAM, Schagen van Leeuwen JH, Haas FJLM, Gerritsen WBM, Boer A de, Leusink JA. S100 protein content of umbilical cord blood in healthy newborns in relation to mode of delivery. *Arch Dis Child Fetal Neonatal Ed* 2003; 88: F67-F69.
- Zonneveld P van, Scheffer GJ, Broekmans FJ, Blankenstein MA, Jong FH de, Loosman CW, Habbema JD, Velde ER te. Do cycle disturbances explain the age-related decline of female fertility? Cycle characteristics of women aged over 40 years compared with a reference population of young women. *Hum Reprod* 2003; 18: 495-501.
- Neurologie / psychiatrie**
- Asselt DZ van, Thomas CM, Segers MF, Blom HJ, Wevers RA, Hoefnagels WH. Cobalamin-binding proteins in normal and cobalamin-deficient older subjects. *Ann Clin Biochem* 2003; 40: 65-69.
- Bartels PCM, Schoorl M, Peetoom JJ. Effect of nutrient supplementation on serum homocysteine, iron, and proteins in psychogeriatric patients. *Clin Lab* 2003; 49: 29-34.
- Beems T, Simons KS, Geel WJ van, Reus HP de, Verbeek MM. Serum- and CSF-concentrations of brain specific proteins in hydrocephalus. *Acta Neurochir* 2003; 145: 37-43.
- Bouwstra H, Dijck-Brouwer DAJ, Wildeman JAL, Tjoonk HM, Heide JC van der, Boersma ER, Muskiet FAJ, Hadders-Algra M. Long-chain polyunsaturated fatty acids have a positive effect on the quality of general movements of healthy term infants. *Am J Clin Nutr* 2003; 78: 313-318.
- Cecil KM, DeGrauw TJ, Salomons GS, Jakobs C, Egelhoff JC, Clark JF. Magnetic resonance spectroscopy in a 9-day-old heterozygous female child with creatine transporter deficiency. *J Comput Assist Tomogr* 2003; 27: 44-47.
- Clarke NF, Andrews I, Carpenter K, Jakobs C, Knaap MS van der, Kirk EP. D-2-hydroxyglutaric aciduria: a case with an intermediate phenotype and prenatal diagnosis of two affected fetuses. *Am J Med Genet* 2003; 120A: 523-527.
- Groeneveld GJ, Veldink JH, Tweel I van der, Kalmijn S, Beijer C, Visser M de, Wokke JHH, Franssen H, Berg LH van den. A randomized sequential trial of creatine in amyotrophic lateral sclerosis. *Ann Neurol* 2003; 53: 437-445.
- Horssen J van, Wesseling P, Heuvel LP van den, Waal RM de, Verbeek MM. Heparan sulphate proteoglycans in Alzheimer's disease and amyloid-related disorders. *Lancet Neurol* 2003; 2: 482-492.
- Kruijk JR de, Leffers P, Menheere PPCA, Meerhoff S, Rutten J, Twijnstra A. Olfactory function after mild traumatic brain injury. *Brain Injury* 2003; 1: 73-78.
- Lamers KJ, Vos P, Verbeek MM, Rosmalen F, Geel WJ van, Engelen BG van. Protein S-100B, neuron-specific enolase (NSE), myelin basic protein (MBP) and glial fibrillary acidic protein (GFAP) in cerebrospinal fluid (CSF) and blood of neurological patients. *Brain Res Bull* 2003; 61: 261-264.
- Lammers GJ, Overeem S, Frölich M. Nieuwe inzichten in de pathogenese van narcolepsie. *Tijdschr Neurol Neurochir* 2003; 104: 269-275.
- Mulder C, Wahlund LO, Teerlink T, Blomberg M, Veerhuis R, Kamp GJ van, Scheltens P, Scheffer PG. Decreased lysophosphatidylcholine phosphatidylcholine ratio in cerebrospinal fluid in Alzheimer's disease. *J Neural Transm* 2003; 110: 949-955.
- Muntjewerff JW, Put N van der, Eskes T, Ellenbroek B, Steegers E, Blom H, Zitman F. Homocysteine metabolism and B-vitamins in schizophrenic patients: low plasma folate as a possible independent risk factor for schizophrenia. *Psychiatry Res* 2003; 121: 1-9.
- Overeem S, Kok SW, Lammers GJ, Vein AA, Frölich M, Meinders AE, Roelfsema F, Pijl H. Somatotropic axis in hypocretin-deficient narcoleptic humans: altered circadian distribution of GH-secretory events. *Am J Physiol Endocrinol Metab* 2003; 284: 641-647.
- Reiber H, Thompson EJ, Grimsley G, Bernardi G, Adam P, Monteiro de Almeida S, Fredman P, Keir G, Lammers M, Liblau R, Menna-Barreto M, Sa MJ, Seres E, Sindic CJ, Teelken A, Trendelenburg C, Trojano M, Antwerpen MP van, Verbeek MM. Quality assurance for cerebrospinal fluid protein analysis: international consensus by an Internet-based group discussion. *Clin Chem Lab Med* 2003; 41: 331-337.

Rensink AA, Waal RM de, Kremer B, Verbeek MM. Pathogenesis of cerebral amyloid angiopathy. *Brain Res Rev* 2003; 43: 207-223.

Riedel WJ, Klaassen T, Griez E, Honig A, Menheere PPCA, Praag HM van. Reply: dissociable hormonal, cognitive, and mood responses to neuroendocrine challenge: Evidence for receptor-specific serotonergic dysregulation in depressed mood. *Neuropsychopharmacology* 2003; 28: 1012-1013.

Salomons GS, Dooren SJ van, Verhoeven NM, Marsden D, Schwartz C, Cecil KM, DeGrauw TJ, Jakobs C. X-linked creatine transporter defect: an overview. *J Inherit Metab Dis* 2003; 26: 309-318.

Schulze A, Bachert P, Schlemmer H, Harting I, Polster T, Salomons GS, Verhoeven NM, Jakobs C, Fowler B, Hoffmann GF, Mayatepek E. Lack of creatine in muscle and brain in an adult with GAMT deficiency. *Ann Neurol* 2003; 53: 248-251.

Steijns LSW, Weelden MJM van, Weide J van der. The effect of smoking and cytochrome P450 CYP1A2 genetic polymorphism on clozapine clearance and dose requirement. *Pharmacogenetics* 2003; 13: 169-172.

Steijns LSW, Weelden MJM van, Weide J van der. De invloed van CYP1A2 op de dagdosis van clozapine. *Pharmaceutisch Weekblad* 2003; 25: 883-888.

Teunissen CE, Boxtel MP van, Bosma H, Jolles J, Lutjohann D, Bergmann K von, Wauters A, Bosmans E, Maes M, Delanghe J, Bruijn C de, Steinbusch HW, Blom HJ, Vente J de. Serum markers in relation to cognitive functioning in an aging population: results of the Maastricht Aging Study (MAAS). *Tijdschr Gerontol Geriatr* 2003; 34: 6-12.

Teunissen CE, Lütjohann D, Bergmann K von, Verhey F, Vreeling F, Wauters A, Bosmans E, Bosma H, Boxtel MP van, Maes M, Delanghe J, Blom HJ, Verbeek MM, Rieckmann P, Bruijn C de, Steinbusch HW, Vente J de. Combination of serum markers related to several mechanisms in Alzheimer's disease. *Neurobiol Aging* 2003; 24: 893-902.

Verbeek MM, Jong D de, Kremer HP. Brain-specific proteins in cerebrospinal fluid for the diagnosis of neurodegenerative diseases. *Ann Clin Biochem* 2003; 40: 25-40.

Verbeek MM, Reus HPM de, Weykamp CW. De meest optimale bepaling van oligoklonale IgG banden in liquor en serum; resultaten van de Nederlandse kwaliteitscontrole. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 34-38.

Verbeek MM, Reus HPM de, Weykamp CW. Oligoklonale IgG-band in liquor en serum. *Tijdschr Neurol Neurochir* 2003; 104: 347-351.

Verbeek MM. De ruggenprik in de diagnostiek van Alzheimer. *Analyse* 2003; 59: 295-297.

Weide J van der, Steijns LSW, Geld MAM van der, Groot PA de. D3 dopamine receptor: a marker for schizophrenia? *Acta Neuropsychiatrica* 2003; 15: 91-93.

### Interne geneeskunde

Abdallah A, Sato H, Grutters JC, Veerarghavan S, Lumpany PA, Ruven HJ, Bosch JM van den, Walls AU, Bois RM du, Welsh KI. Inhibitor kappa B-alpha (IkappaB-alpha) promoter polymorphisms in UK and Dutch sarcoidosis. *Genes Immun* 2003; 4: 454-454.

Bartels PCM, Schoorl M, Schoorl M, Nubé MJ. Deviations in coagulation activation due to treatment with different haemodialysis membranes. *Scand J Clin Lab Invest* 2003; 63: 417-424.

Becker A, Henry RM, Kostense PJ, Jakobs C, Teerlink T, Zweegman S, Dekker JM, Nijpels G, Heine RJ, Bouter LM, Smulders YM, Stehouwer CD. Plasma homocysteine and S-adenosylmethionine in erythrocytes as determinants of carotid intima-media thickness: different effects in diabetic and non-diabetic individuals. *The Hoorn Study. Atherosclerosis* 2003; 169: 323-330.

Beerenhout CH, Kooman JP, Sande FM van der, Hackeng CM, Leunissen KM. C-reactive protein levels in dialysis patients are highly variable and strongly related to co-morbidity. *Nephrol Dial Transplant*. 2003; 18: 221.

Biro E, Sturk-Maquelin KN, Vogel GM, Meuleman DG, Smit MJ, Hack CE, Sturk A, Nieuwland R. Human cell-derived microparticles promote thrombus formation in vivo in a tissue factor-dependent manner. *J Thromb Haemost* 2003; 1: 2561-2568.

Boelens PG, Houdijk AP, Thouars HN de, Teerlink T, Engeland MI van, Haarman HJ, Leeuwen PA van. Plasma taurine concentrations increase after enteral glutamine supplementation in trauma patients and stressed rats. *Am J Clin Nutr* 2003; 77: 250-256.

Branten AJ, Kock-Jansen M, Klasen IS, Wetzels JF. Urinary excretion of complement C3d in patients with renal diseases. *Eur J Clin Invest* 2003, 33: 449-456.

Dieleman JP, Rossum AM van, Stricker BC, Sturkenboom MC, Groot R de, Telgt D, Blok WL, Burger DM, Blijenberg BG, Zietse R, Gyssens IC. Persistent leukocyturia and loss of renal function in a prospectively monitored cohort of HIV-infected patients treated with indinavir. *J Acquir Immune Defic Syndr* 2003; 32: 135-142.

Dijk RA van, Bakker SJ, Scheffer PG, Heine RJ, Stehouwer CD. Associations of metabolic variables with arterial stiffness in type 2 diabetes mellitus: focus on insulin sensitivity and post-prandial triglyceridaemia. *Eur J Clin Invest* 2003; 33: 307-315.

Dijk MA van, Reitsma JB, Fischer JC, Sanders GT. Indications for requesting laboratory tests for concurrent diseases in patients with carpal tunnel syndrome: a systematic review. *Clin Chem* 2003; 49: 1437-1444.

Drent M, Vries JD de, Lenters M, Lamers RJ, Rothkrantz-Kos S, Wouters EF, Diejen-Visser MP van, Verschakelen JA. Sarcoidosis: assessment of disease severity using HRCT. *Eur J Radiology* 2003; 13: 2461-2471.

Flikweert ER, La Hei ER, Rijke YB de, Ven K van de. Return of the milk curd syndrome. *Pediatr Surg Int* 2003; 19: 628-631.

Gadisseur AP, Breukink-Engbers WG, Meer FJ van der, Besselaar AM van den, Sturk A, Rosendaal FR. Comparison of the quality of oral anticoagulant therapy through patient self-management and management by specialized anticoagulation clinics in the Netherlands: a randomized clinical trial. *Arch Intern Med* 2003; 163: 2639-2646.

Geest-Daalderop JH, Hutten BA, Sturk A, Levi MM. Age and first INR after initiation of oral anticoagulant therapy with acenocoumarol predict the maintenance dosage. *J Thromb Thrombol* 2003; 15: 197-203.

- Gool CJAW van, Thijs C, Hengquet CJM, Houwelingen AC van, Dagnelie PC, Schrander J, Menheere PPCA, Brandt PA van den.  $\gamma$ -Linolenic acid supplementation for prophylaxis of atopic dermatitis-a randomized controlled trial in infants at high familial risk. *Am J Clin Nutr* 2003; 77: 943-951.
- Grutters JC, Sato H, Pantelidis P, Ruven HJT, McGrath DS, Wells AU, Bosch JMM van den, Welsh KI, Bois RM du. Analysis of IL6 and IL1A gene polymorphisms in UK and Dutch patients with sarcoidosis. *Sarcoidosis Vasc Diffuse Lung Dis* 2003; 20: 20-27.
- Hesselink DA, Schaik RH van, Heiden IP van der, Werf M van der, Gregoor PJ, Lindemans J, Weimar W, Gelder T van. Genetic polymorphisms of the CYP3A4, CYP3A5, and MDR-1 genes and pharmacokinetics of the calcineurin inhibitors cyclosporine and tacrolimus. *Clin Pharmacol Ther* 2003; 74: 245-254.
- Hessels J, Snoeyink EJM, Platenkamp AJ, Voortman G, Eidhof HHM. Assessment of intestinal permeability: enzymatic determination of urinary mannitol, raffinose, sucrose and lactose on hitachi analyser. *Clin Chem Lab Med* 2003; 41: 33-38.
- Hoek FJ, Kemperman FAW, Krediet RT. A comparison between cystatin C, plasma creatinine and the Cockcroft and Gault formula for the estimation of glomerular filtration rate. *Nephrol Dial Transp* 2003; 18: 2024-2031.
- Hovestad-Witterland AHI, Klein Gunnewiek JMT, Metz M de, Vollaard EJ. COX-2-preferentiële NSAID's nader aan de tand gevoeld. *Pharmaceutisch Weekblad* 2003; 138: 104-107.
- Jansen T, Janssen M, Janssens PMW. Transient cryofibogenaemia with acral digital necrosis, secondary Raynaud's phenomenon and polyarthritis. *Clin Exp Rheumatol* 2003; 21: 407-408.
- Klein Gunnewiek JMT, Leur JJPM van de. Elevated troponin T concentrations in critically ill patients. *Intensive Care Med* 2003; 29: 2317-2322.
- Konings CJ, Kooman JP, Schonck M, Kreel BK van, Heidental GA, Cheriex EC, Sande FM van der, Leunissen KM. Influence of fluid status on techniques used to assess body composition in peritoneal dialysis patients. *Perit Dial Int* 2003; 23: 184-190.
- Krakoff J, Funahashi T, Stehouwer CD, Schalkwijk CG, Tanaka S, Matsuzawa Y, Kobes S, Tataranni PA, Hanson RL, Knowler WC, Lindsay RS. Inflammatory markers, adiponectin, and risk of type 2 diabetes in the Pima Indian. *Diabetes Care* 2003; 26: 1745-1751.
- Litjens SHM, Koster J, Kuikman I, Wilpe S van, Pereda JM de, Sonnenberg A. Specificity of binding of the plectin actin-binding domain to beta 4 integrin. *Mol Biol Cell* 2003; 14: 4039-4050.
- Loon LJC van, Kruijshoop M, Menheere PPCA, Wagenmakers AJM, Saris WHM, Keizer HA. Amino acid ingestion strongly enhances insulin secretion in patients with long-term type 2 diabetes. *Diab Care* 2003; 3: 625-630.
- Meijer AR, Fikkens BG, Keijzer MH de, Engelen BGM van, Drenth JPH. Serum CK as predictor of clinical course in rhabdomyolysis: a five year Intensive Care survey. *Intensive Care Med* 2003; 29: 1121-1125.
- Meulen CG ter, Goertz JH, Klasen IS, Verweij CM, Hilbrands LB, Wetzel JF, Hoitsma AJ. Decreased renal excretion of soluble interleukin-2 receptor  $\alpha$  after treatment with daclizumab. *Kidney Int* 2003; 64: 697-703.
- Neucker AM van den, Forget PP, Kreel BK van. Lipid, nitrogen, water and energy content of a single stool sample in healthy children and children with cystic fibrosis. *Eur J Pediatr* 2003; 162: 764-766.
- Nijveldt RJ, Teerlink T, Hoven B van der, Siroen MP, Kuik DJ, Rauwerda JA, van Leeuwen PA. Asymmetrical dimethylarginine (ADMA) in critically ill patients: high plasma ADMA concentration is an independent risk factor of ICU mortality. *Clin Nutr* 2003; 22: 23-30.
- Nijveldt RJ, Teerlink T, Siroen MP, Lambalgen AA van, Rauwerda JA, Leeuwen PA van. The liver is an important organ in the metabolism of asymmetrical dimethylarginine (ADMA). *Clin Nutr* 2003; 22: 17-22.
- Peek FAW, Huisman MA, Berckmans RJ, Sturk A, Loon J van, Grote JJ. Lipopolysaccharide concentration and bone re-sorption in cholesteatoma. *Otol Neurotol* 2003; 24: 709-713.
- Rothkrantz-Kos S, Dieijen-Visser MP van, Mulder PGH, Drent M. Potential usefulness of inflammatory markers to monitor respiratory functional impairment in sarcoidosis. *Clin Chem* 2003; 49: 1510-1517.
- Rothkrantz-Kos S, Drent M, Rutgers A, Heeringa P, Vries J de, Dieijen-Visser MP van, Cohen Tervaert JW. Relationship between myeloperoxidase promotor polymorphism and disease severity in sarcoidosis. *Eur J Int Med* 2003; 14: 296-301.
- Schell-Feith EA, Kist-Van Holte JE, Zwieten PH van, Zonderland HM, Holscher HC, Swinkels DW, Brand R, Berger HM, Heijden BJ van der. Preterm neonates with nephrocalcinosis: natural course and renal function. *Pediatr Nephrol* 2003; 18: 1102-1108.
- Schuijt MP, Tom B, Vries R de, Saxena PR, Sluiter W, Kats JP van, Danser AHJ. Superoxide does not mediate the acute vasoconstrictor effects of angiotensin II: a study in human and porcine arteries. *J Hypertens* 2003; 21: 2335-2344.
- Spagnolo P, Renzoni EA, Wells AU, Sato H, Grutters JC, Sestini P, Abdallah A, Gramicci E, Ruven HJ, Bois RM du, Welsh KI. C-C chemokine receptor 2 and sarcoidosis: association with Lofgren's syndrome. *Am J Respir Crit Care Med* 2003; 168: 1162-1166.
- Sturk-Maquelin KN, Nieuwland R, Romijn FP, Eijssen L, Hack CE, Sturk A. Pro- and non-coagulant forms of non-cell-bound tissue factor in vivo. *J Thromb Haemost* 2003; 1: 1920-1926.
- Tan ECTH, Keijzer MH de, Goris RJA. Capillary bloodgas analysis in Complex Regional Pain Syndrome, a pilot study. *Ann Clin Biochem* 2003; 40: 569-571.
- Vanlandschoot P, Houtte F van, Hoek F, Nieuwland R, Leroux-Roels G. *Saccharomyces cerevisiae*-derived HBsAg preparations differ in their attachment to monocytes, immune-suppressive potential, and T-cell immunogenicity. *J Med Virol* 2003; 70: 513-519.
- Veldman BA, Scepkins HL, Vervoort G, Klasen I, Wetzel JF. Low concentrations of intravenous polygelines promote low-molecular weight proteinuria. *Eur J Clin Invest* 2003; 33: 962-968.
- Verhage J, Mulder CJ, Willekens FL. Intravenous midazolam sedation in pediatric diagnostic upper digestive endoscopy. A prospective study in a general hospital. *Rom J Gastroenterol* 2003; 12: 273-276.

Willems HL, Hilbrands LB, Calseijde JF van de, Monnens LAH, Swinkels DW. Is serum cystatin C the marker of choice to predict glomerular filtration rate in pediatric patients? *Ann Clin Biochem* 2003; 40: 60-64.

Zareie M, Hekking LH, Welten AG, Driesprong BA, Schadee-Eestermans IL, Faict D, Leyssens A, Schalkwijk CG, Beelen RH, Wee PM ter, Born J van den. Contribution of lactate buffer, glucose and glucose degradation products to peritoneal injury in vivo. *Nephrol Dial Transplant* 2003; 18: 2629-2637.

### Oncologie

Abreu RA de, Trueworthy RC, Kuilenburg ABP van, Vogels-Mentink TM, Lambooy LHJ, Gennip AH van. Combination therapy in childhood leukaemia: in vitro studies of thiopurines and inhibitors of purine metabolism on apoptosis. *Ann Clin Biochem* 2003; 40: 70-74.

Amant F, Huys E, Geurts-Moespot A, Lindeque BG, Vergote I, Sweep F, Schoenmakers EFPM. Ethnic variations in uterine leiomyoma biology are not caused by differences in myometrial estrogen receptor alpha levels. *J Soc Gynecol Invest* 2003; 10: 105-109.

Bergkamp FJM, Berkel AJ van, Linden PWG van der, Gorgels JPMC. Unexpected prolonged extreme hypocalcaemia and an inadequate PTH response in a patient with metastatic breast carcinoma. *Neth J Med* 2003; 11: 371-375.

Berns EMJJ, Klijn JGM, Look MP, Grebenchtchikov N, Vossen R, Peters H, Geurts-Moespot A, Portengen H, Staveren IL van, Meijer-van Gelder ME, Bakker B, Sweep FCGJ, Foekens JA. Combined vascular endothelial growth factor and TP53 status predicts poor response to tamoxifen therapy in estrogen receptor-positive advanced breast cancer. *Clin Cancer Res* 2003; 9: 1253-1258.

Bierau J, Gennip AH van, Leen R, Helleman J, Caron HN, Kuilenburg ABP van. Cyclopentenyl cytosine primes SK-N-BE(2)c neuroblastoma cells for cytarabine toxicity. *Int J Cancer* 2003; 103: 387-392.

Borovansky J, Vratislav Horák, Elleder M, Fortýn, Smit NPM, Kolb AM. Biochemical characterization of a new melanoma model - the minipig MeLiM strain. *Melanoma Res* 2003; 13: 1-6. *Cancer Res* 2003; 63: 5408-5413.

Doornum GJJ van, Korse CM, Buning-Kager JCGM, Bonfrer JMG, Horenblas S, Taal BG, Dillner J. Reactivity to human papillomavirus type 16 L1 virus-like particles in sera from patients with genital cancer and patients with carcinomas at five different extragenital sites. *Br J Cancer* 2003; 88: 1095-1100.

Hamberg AP, Korse CM, Bonfrer JMGM, Gast GC de. Serum S100B is suitable for prediction and monitoring of response to chemoimmunotherapy in metastatic malignant melanoma. *Melanoma Res* 2003; 13: 45-49.

Hoogerbrugge N, Bult P, Widt-Levert LM de, Beex LV, Kiemeneij LA, Ligtenberg MJL, Massuger LF, Boetes C, Manders P, Brunner HG. High prevalence of premalignant lesions in prophylactically removed breast from women at hereditary risk for breast cancer. *J Clin Oncol* 2003; 21: 41-45.

Kok M, Bonfrer JMGM, Korse CM, Jong D de, Kersten MJ. Serum soluble CD27, but not thymidine kinase, is an independent prognostic factor for outcome in indolent non-Hodgkin's lymphoma. *Tumor Biol* 2003; 24: 53-60.

Kuilenburg ABP van, Abreu RA de, Gennip AH van. Pharmacogenetic and clinical aspects of dihydropyrimidine dehydrogenase deficiency. *Ann Clin Biochem* 2003; 40: 41-45.

Kuilenburg ABP van, Baars JW, Meinsma JR, Gennip AH van. Lethal 5-fluorouracil toxicity associated with a novel mutation in the dihydropyrimidine dehydrogenase gene. *Ann Oncol* 2003; 14: 341-342.

Kuilenburg ABP van, Meinsma JR, Zonnenberg BA, Zoetekouw A, Baas F, Matsuda K, Tamaki N, Gennip AH van. Dihydropyrimidinase deficiency and severe 5-fluorouracil toxicity. *Clin Cancer Res* 2003; 9: 4363-4367.

Kuilenburg ABP van, Muller EW, Haasjes J, Meinsma JR, Zoetekouw A, Waterham HR, Baas F, Richel DJ, Gennip AH van. Letale toxiciteit na toediening van fluorouracil bij een tumorpatiënt met een volledige dihydropyrimidinedehydrogenase (DPD)-deficiëntie en de frequentie van de meest voorkomende IVS14+1G>A-mutatie in de populatie. *Ned Tijdschr Geneesk* 2003; 147: 525-526.

Küsters B, Waal RMW de, Wesseling P, Verrijp K, Maas C, Heerschap A, Barentsz JO, Sweep F, Ruiter DJ, Leenders WPJ. Differential effects of vascular endothelial growth factor A isoforms in a mouse brain metastasis model of human melanoma. *Cancer Res* 2003; 63: 5408-5413.

Lambooy LH, Gidding CE, Heuvel LP van den, Hulsbergen-van de Kaa CA, Ligtenberg M, Bökkering JP, Abreu RA de. Real-time analysis of tyrosine hydroxylase gene expression: a sensitive and semiquantitative marker for minimal residual disease detection of neuroblastoma. *Clin Cancer Res* 2003; 9: 812-819.

Lieuw-a-Fa M, Schalkwijk C, Hinsbergh VW van. Distinct accumulation patterns of soluble forms of E-selectin, VCAM-1 and ICAM-1 upon infusion of TNFalpha in tumor patients. *Thromb Haemost* 2003; 89: 1052-1057.

Look M, Putten W van, Duffy M, Harbeck N, Christensen JJ, Thomassen C, Kates R, Spyros F, Ferno M, Eppenberger-Castori S, Sweep FCG, Ulm K, Peyrat JP, Martin PM, Magdelenat H, Brunner N, Duggan C, Lisboa BW, Bendah PO, Quillien V, Daver A, Ricolleau G, Meijer-van Gelder M, Manders P, Edward Fiets W, Blankenstein M, Broet P, Romain S, Daxenbichler G, Windbichler G, Cufer T, Borstnar S, Kueng W, Beex L, Klijn J, O'Higgins N, Eppenberger U, Janicke F, Schmitt M, Foekens J. Pooled analysis of prognostic impact of uPA and PAI-1 in breast cancer patients. *Thromb Haemost* 2003; 90: 538-548.

Loos WJ, Baker SD, Verweij J, Boonstra JG, Sparreboom A. Clinical pharmacokinetics of unbound docetaxel: role of polysorbate 80 and serum proteins. *Clin Pharmacol Ther* 2003; 74: 364-371.

Manders P, Beex LVAM, Tjan-Heijnen VCG, Span PN, Sweep CGJ. Vascular endothelial growth factor is associated with the efficacy of endocrine therapy in patients with advanced breast carcinoma. *Cancer* 2003; 98: 2125-2132.

Manders P, Bult P, Sweep CGJ, Tjan-Heijnen VCG, Beex LVAM. The prognostic value of the mitotic activity index in patients with primary breast cancer who were not treated with adjuvant systemic therapy. *Breast Cancer Res Tr* 2003; 77: 77-84.

Manders P, Sweep FCGJ, Tjan-Heijnen VCG, Geurts-Moespot A, Tienoven DTH van, Foekens JA, Span PN, Bussink J, Beex LVAM. Vascular endothelial growth factor independently predicts the efficacy of postoperative radiotherapy in node-negative breast cancer patients. *Clin Cancer Res* 2003; 9: 6363-6370.

- Meinhardt W, Roeleveld TA, Korse CM, Moonen L, Bonfrer JMGM, Horenblas S. Serum testosterone levels in seminoma stage I patients. *Ned Tijdschr Urol* 2003; 11: 28-30.
- Missotten GS, Beijnen JH, Keunen JE, Bonfrer JMGM. Proteomics in uveal melanoma. *Melanoma Res* 2003; 13: 627-629.
- Pavel S, Smit NPM, Meulen H van der, Kolb RM, Groot AJL de, Velden PA van der, Gruis NA, Bergman W. Homozygous germline mutation of CDKN2A/p16 and glucose-6-phosphate dehydrogenase deficiency in a multiple melanoma case. *Melanoma Res* 2003; 13: 171-178.
- Ruijter AJM de, Gennip AH van, Caron HN, Kemp S, Kuilenburg ABP van. Histone deacetylases (HDACs): characterization of the classical HDAC family. *Biochem J* 2003; 370: 737-749.
- Sandick JW van, Gisbertz SS, Berge IJM ten, Boermeester MA, Kraan TCTM, Out TA, Obertop H, Lanschot JJB van. Immune responses and prediction of major infection in patients undergoing transhiatal or transthoracic esophagectomy for cancer. *Ann Surg* 2003; 237: 35-43.
- Sandick JW van, Boermeester MA, Gisbertz SS, Berge IJM ten, Out TA, Kraan TCTM, Lanschot JJB van. Lymphocyte subsets and T(h)1/T(h)2 immune responses in patients with adenocarcinoma of the oesophagus or oesophagogastric junction: relation to pTNM stage and clinical outcome. *Cancer Immunol Immunol* 2003; 52: 617-624.
- Schrohl A-S, Holten-Andersen M, Sweep F, Schmitt M, Harbeck N, Foekens J, Brünnner N, on behalf of the European Organisation for Research and Treatment of Cancer (EORTC) Receptor and Biomarker Group Tumor markers: from laboratory to clinical utility. *Mol Cell Proteomics* 2003; 26: 378-387.
- Schultz JJ, Kiemeney LA, Schalken JA, Willems HL, Swinkels DW, Kok JB de. Survivin mRNA expression is elevated in malignant urothelial cell carcinomas and predicts time to recurrence. *Anticancer Res* 2003; 23: 3327-3331.
- Shih S-J, Dall'Era MA, Westphal JR, Yang J, Sweep CGJ, Gandomi R, Evans CP. Elements regulating angiogenesis and correlative microvessel density in benign hyperplastic and malignant prostate tissue. *Prostate Cancer Prostatic Dis* 2003; 6: 131-137.
- Sweep PN, Bussink J, Manders P, Beex LVAM, Sweep CGJ. Carbonic anhydrase-9 expression levels and prognosis in human breast cancer: association with treatment outcome. *Brit J Cancer* 2003; 89: 271-276.
- Sweep PN, Manders P, Heuvel JJTM, Beex LVAM, Sweep CGJ. E1AF expression levels are not associated with prognosis in human breast cancer. *Breast Cancer Res Tr* 2003; 79: 129-131.
- Sweep PN, Manders P, Heuvel JJTM, Thomas CMG, Bosch RR, Beex LVAM, Sweep CGJ. Molecular Beacon reverse transcription-PCR of human chorionic gonadotropin- $\beta$ -3, 5 and -8 mRNAs has prognostic value in breast cancer. *Clin Chem* 2003; 49: 1074-1080.
- Sweep PN, Sleegers MJM, Broek WJ van den, Ross HA, Nieuwlaat W-A, Hermus ARMM, Sweep CGJ. Quantitative detection of peripheral thyroglobulin mRNA has limited clinical value in the follow-up of thyroid cancer patients. *Ann Clin Biochem* 2003; 40: 94-99.
- Sweep PN, Sleegers MJM, Broek WJ van den, Ross HA, Nieuwlaat WA, Hermus ARMM, Sweep CGJ. Quantitative detection of peripheral thyroglobulin mRNA has limited clinical value in the follow-up of thyroid cancer patients. *Clin Lab* 2003; 49: 179.
- Sweep PN, Sweep CGJ, Manders P, Beex LVAM, Leppert D, Lindberg RLP. Matrix metalloproteinase inhibitor reversion-inducing cysteine-rich protein with Kazal motifs: a prognostic marker for good clinical outcome in human breast carcinoma. *Cancer* 2003; 97: 2710-2715.
- Sweep PN, Tjan-Heijnen VCG, Manders P, Beex LVAM, Sweep CGJ. Cylin-E is a strong predictor of endocrine therapy failure in human breast cancer. *Oncogene* 2003; 22: 4898-4904.
- Sweep FCGJ, Fritzsche HA, Gion M, Klee GG, Schmitt M. Considerations on development, validation, application, and quality control of immuno(metric) biomarker assays in clinical cancer research: An EORTC-NCI working group report. *Int J Oncol* 2003; 23: 1715-1726.
- Westerman BA, Murre C, Oudejans CB. The cellular Pax-Hox-helix connection. *Biochim Biophys Acta* 2003; 1629: 1-7.
- Zha S, Ferdinandusse S, Denis SW, Wanders RJA, Ewing CM, Luo J, Marzo AM de, Isaacs WB.  $\alpha$ -Methylacyl-CoA racemase as an androgen-independent growth modifier in prostate cancer. *Cancer Res* 2003; 63: 7365-7376.
- Zuetenhorst JM, Bonfrer JMGM, Korse CM, Bakker R, Tinteren H van, Taal BG. Carcinoid heart disease: The role of urinary 5-hydroxyindoleacetic acid excretion and plasma levels of atrial natriuretic peptide, transforming growth factor-[Beta1] and fibroblast growth factor. *Cancer* 2003; 97: 1609-1615.
- ### Allergie
- Eb MM van der, Geutskens SB, Kuilenburg ABP van, Lenthe H van, Dierendonck JH van, Kuppen PJK, Ormond H van, Velde CJH van de, Wanders RJA, Gennip AH van, Hoeben RC. Ganciclovir nucleotides accumulate in mitochondria of rat liver cells expressing the herpes simplex virus thymidine kinase gene. *J Gene Med* 2003; 5: 1018-1027.
- Lopuhua CE, Riemer MJ de, Out TA, Sjamsoedin DHS, Aalberse RC, Jansen HM, Zee JS van der. Comparison of allergen-induced late inflammatory reactions in the nose and in the skin in house dust mite-allergic patients with or without asthma. *Int Arch Allergy Imm* 2003; 130: 266-274.
- Peeters RP, Toor H van, Klootwijk W, Rijke YB de, Kuiper GG, Uitterlinden AG, Visser TJ. Polymorphisms in thyroid hormone pathway genes are associated with plasma TSH and iodothyronine levels in healthy subjects. *J Clin Endocrinol Metab* 2003; 88: 2880-2888.
- Spieksma FThM, Corden JM, Detandt M, Millington WM, Nikkels H, Nolard N, Schoenmakers CHH, Wachter R, Weger LA de, Willems R, Emberlin J. Quantitative trends in annual totals of five common airborne pollen types (Betula, Quercus, Poaceae, Urtica, and Artemisia), at five pollen-monitoring stations in western Europe. *Aerobiologia* 2003; 19: 171-184.
- ### Erfelijke stofwisselingsziekten
- Abeling NGGM. Aromatisch-aminozuurcarboxylasedeficiëtie. Een geval apart? *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 375-378.
- Abramson CJ, Platt SR, Jakobs C, Verhoeven NM, Dennis R, Garosi L, Shelton GD. L-2-Hydroxyglutaric aciduria in Staffordshire Bull Terriers. *J Vet Intern Med* 2003; 17: 551-556.

Abreu RA de, Trueworthy RC, Kuilenburg AB van, Vogels-Mentink TM, Lambooy LH, Gennip AH van. Combination therapy in childhood leukaemia: in vitro studies of thiopurines and inhibitors of purine metabolism on apoptosis. *Ann Clin Biochem* 2003; 40: 70-74.

Akaboshi S, Hogema BM, Novelletto A, Malaspina P, Salomons GS, Maropoulos GD, Jakobs C, Grompe M, Gibson KM. Mutational spectrum of the succinate semialdehyde dehydrogenase (ALDH5A1) gene and functional analysis of 27 novel disease-causing mutations in patients with SSADH deficiency. *Hum Mutat* 2003; 22: 442-450.

Al Aqeel AI, Rashid MS, Ruiter JPN, IJlst L, Wanders RJA. A novel molecular defect of the carnitine acylcarnitine translocase gene in a Saudi patient. *Clin Genet* 2003; 64: 163-165.

Arisz SA, Valianpour F, Gennip AH van, Munnik T. Substrate preference of stress-activated phospholipase D in chlamydomonas and its contribution to PA formation. *Plant J* 2003; 34: 595-604.

Assink K, Schiphorst R, Allford S, Karpman D, Etzioni A, Brichard B, Kar N van de, Monnens L, Heuvel L van den. Mutation analysis and clinical implications of von Willebrand factor-cleaving protease deficiency. *Kidney Int* 2003; 63: 1995-1999.

Bakker JA, Meer SB van der, Systermans H, Wevers RA, Jaeken JC, Spaapen LJM. New multiple glycosylation disorder with fatal outcome. *Glycobiology* 2003; 62.

Beck S, Lambeau G, Scholz-Pedretti K, Gelb MH, Janssen MJ, Edwards SH, Wilton DC, Pfeilschifter J, Kaszkin M. Potentiation of tumor necrosis factor alpha-induced secreted phospholipase A2 (sPLA2)-IIA expression in mesangial cells by an autocrine loop involving sPLA2 and peroxisome proliferator-activated receptor alpha activation. *J Biol Chem* 2003; 278: 29799-29812.

Becker A, Smulders YM, Teerlink T, Struys EA, Meer K de, Kostense PJ, Jakobs C, Dekker JM, Nijpels G, Heine RJ, Bouter LM, Stehouwer CD. S-adenosylhomocysteine and the ratio of S-adenosylmethionine to S-adenosylhomocysteine are not related to folate, cobalamin and vitamin B6 concentrations. *Eur J Clin Invest* 2003; 33:17-25.

Birschmann I, Stroobants AK, Berg M van den, Schafer A, Rosenkranz K, Kunau WH, Tabak HF. Pex15p of *Saccharomyces cerevisiae* provides a molecular basis for recruitment of the AAA peroxin Pex6p to peroxisomal membranes. *Mol Biol Cell* 2003; 14: 2226-2236.

Boer MEJ den, Dionisi-Vici C, Chakrapani A, Thuijl AOJ van, Wanders RJA, Wijburg FA. Mitochondrial trifunctional protein deficiency: a severe fatty acid oxidation disorder with cardiac and neurologic involvement. *J Pediatr* 2003; 142: 684-689.

Bok LA, Vreken P, Wijburg FA, Wanders RJA, Gregersen N, Corydon MJ, Waterham HR, Duran M. Short-chain acyl-CoA dehydrogenase deficiency: studies in a large family adding to the complexity of the disorder. *Pediatrics* 2003; 112: 1152-1155.

Bosch AM, Klerk JBC de, Poll-The BT, Spronzen FJ van, Wanders RJA, Bakker HD. Galactosemia in Nederland, opnieuw beschouwd. *Ned Tijdschr Kindergeneesk* 2003; 71: 49-53.

Bosch AM, Waterham HR, Duran M, Bakker HD. Een premature tweeling met icterus, stollingsstoornissen en een E.coli-sepsis. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 341-343.

Breitkreuz KE, Allan WL, Cauwenberghes OR van, Jakobs C, Talibi D, Andre B, Shelp BJ. A novel gamma-hydroxybutyrate dehydrogenase: identification and expression of an Arabidopsis cDNA and potential role under oxygen deficiency. *J Biol Chem* 2003; 278: 41552-41556.

Brink DM van den, Brites PMT, Haasjes J, Wierzbicki AS, Mitchell J, Lambert-Hamill M, Belleruche J de, Jansen GA, Waterham HR, Wanders RJA. Identification of PEX7 as the second gene involved in Refsum disease. *Am J Hum Genet* 2003; 72: 471-477.

Brink DM van den, Brites PMT, Haasjes J, Wierzbicki AS, Mitchell J, Lambert-Hamill M, Belleruche J de, Jansen GA, Waterham HR, Wanders RJA. Identification of PEX7 as the second gene involved in Refsum disease. In: *Peroxisomal disorders and regulation of genes*. Roels F, Baes M and de Bie S (eds.). Kluwer Academic / Plenum Publisher, New York. *Adv Exp Med Biol* 2003; 544: 69-70.

Brites PMT, Motley AM, Gressens P, Mooyer PAW, Ploegaert I, Everts V, Evrard P, Carmeliet P, Deweerchin M, Schoonjans L, Duran M, Waterham HR, Wanders RJA, Baes M. Impaired neuronal migration and endochondral ossification in PEX7 knockout mice: a model for rhizomelic chondrodysplasia punctata. *Hum Mol Genet* 2003; 12: 2255-2267.

Budde SMS, Heuvel LPWJ van den, Smeets RJP, Skladal D, Mayr JA, Boelen C, Petruzzella V, Papa S, Smeitink JAM. Clinical heterogeneity in patients with mutations in the NDUFS4 gene of mitochondrial complex I. *J Inher Metab Dis* 2003; 26: 813-815.

Castro R, Rivera I, Ravasco P, Jakobs C, Blom HJ, Camilo ME, de Almeida IT. 5,10-Methylenetetrahydrofolate reductase 677C->T and 1298A-->C mutations are genetic determinants of elevated homocysteine. *QJM* 2003; 96: 297-303.

Castro R, Rivera I, Struys EA, Jansen EE, Ravasco P, Camilo ME, Blom HJ, Jakobs C, Tavares de Almeida I. Increased homocysteine and S-adenosylhomocysteine concentrations and DNA hypomethylation in vascular disease. *Clin Chem* 2003; 49: 1292-1296.

Cser B, Morava É, Czakó M, Kárteszi J, Szönyi L, Wevers R, Kosztolányi G. Veleszületett Glikozilációs zavar (CDG-Ia betegség) egy izomhipotóniás, hepatopathiás gyermekben. *Gyermekgyógyászat* 2003; 54: 37-41.

deGrauw TJ, Cecil KM, Byars AW, Salomons GS, Ball WS, Jakobs C. The clinical syndrome of creatine transporter deficiency. *Mol Cell Biochem* 2003; 244: 45-48.

Duran M, Abeling NGGM, Waterham HR, Wanders RJA. De diagnostiek van erfelijke metabole ziekten als onderdeel van de klinische chemie. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 305-308.

Duran M. Disorders of mitochondrial fatty acid oxidation and ketone body handling. In: *Physician's Guide to the Laboratory Diagnosis of Metabolic Diseases*. Blau N, Duran M, Blaskovics ME and Gibson KM (eds.). Springer-Verlag (2003) Berlin, Heidelberg: pp. 309-334.

Duran M. Miscellaneous Analyses. In: *Physician's Guide to the Laboratory Diagnosis of Metabolic Diseases*. Blau N, Duran M, Blaskovics ME and Gibson KM (eds.). Springer-Verlag (2003) Berlin, Heidelberg: pp. 45-55.

Ferdinandusse S, Denis SW, Dacremont G, Wanders RJA. Studies on the metabolic fate of n-3 polyunsaturated fatty acids. *J Lipid Res* 2003; 44: 1992-1997.

Ferdinandusse S, Finckh B, Hingh YC de, Stroomer AEM, Denis SW, Kohlschütter A, Wanders RJA. Evidence for increased oxidative stress in peroxisomal D-bifunctional protein deficiency. *Mol Genet Metab* 2003; 79: 281-287.

Fernandez GC, Loo MW te, Velden TJ van der, Heuvel LP van den, Palermo MS, Monnens LL. Decrease of thrombomodulin contributes to the procoagulant state of endothelium in hemolytic uremic syndrome. *Pediatr Nephrol* 2003; 18: 1066-1068.

Fiumara A, Kuilenburg ABP van, Caruso U, Nucifora C, Marzullo E, Barone R, Meli C, Gennip AH van. Dihydropyrimidine dehydrogenase deficiency and acute neurological presentation. *J Inher Metab Dis* 2003; 26: 407-409.

Garosi LS, Dennis R, Platt SR, Corletto F, Lahunta A de, Jakobs C. Thiamine deficiency in a dog: clinical, clinicopathologic, and magnetic resonance imaging findings. *J Vet Intern Med* 2003; 17: 719-723.

Geuze HJ, Murk JL, Stroobants AK, Griffith JM, Kleijmeer MJ, Koster AJ, Verkleij AJ, Distel B, Tabak HF. Involvement of the endoplasmic reticulum in peroxisome formation. *Mol Biol Cell* 2003; 14: 2900-2907.

Gibson KM, Gupta M, Pearl PL, Tuchman M, Vezina LG, Snead OC 3rd, Smit LM, Jakobs C. Significant behavioral disturbances in succinic semialdehyde dehydrogenase (SSADH) deficiency (gamma-hydroxybutyric aciduria). *Biol Psychiatry* 2003; 54: 763-768.

Gloerich J, Denis SW, Grunsven EG van, Dacremont G, Wanders RJA, Ferdinandusse S. A novel HPLC-based method to diagnose peroxisomal D-bifunctional protein enoyl-CoA hydratase deficiency. *J Lipid Res* 2003; 44: 640-644.

Gootjes J, Mandel H, Mooijer PAW, Roels F, Waterham HR, Wanders RJA. Resolution of the molecular defect in a patient with peroxisomal mosaicism in the liver. In: Peroxisomal disorders and regulation of genes. Roels F, Baes M and Bie S de (eds.). Kluwer Academic / Plenum Publisher, New York. *Adv Exp Med Biol* 2003; 544: 107-111.

Gootjes J, Mooijer PAW, Dekker CJM, Barth PG, Poll-The BT, Waterham HR, Wanders RJA. Biochemical markers predicting survival in peroxisome biogenesis disorders. In: Peroxisomal disorders and regulation of genes. Roels F, Baes M and Bie S de (eds.). Kluwer Academic / Plenum Publisher, New York. *Adv Exp Med Biol* 2003; 544: 67-68.

Grafakou O, Hol FA, Otfried Schwab K, Siers MH, Laak H ter, Trijbels F, Ensenauer R, Boelen C, Smeitink J. Exercise intolerance, muscle pain and lactic acidemia associated with a 7497G>A mutation in the tRNASer(UCN) gene. *J Inher Metab Dis* 2003; 26: 593-600.

Grafakou O, Oexle K, Heuvel L van den, Smeets R, Trijbels F, Goebel HH, Bosshard N, Superti-Furga A, Steinmann B, Smeitink J. Leigh syndrome due to compound heterozygosity of dihydrolipoamide dehydrogenase gene mutations. Description of the first E3 splice site mutation. *Eur J Pediatr* 2003; 162: 714-718.

Groener J, Maaswinkel-Mooy P, Smit V, Hoeven M van den, Bakker J, Campos Y, d'Azzo A. New mutations in two Dutch patients with early infantile galactosialidosis. *Mol Genet Metab* 2003; 78: 222-228.

Gupta M, Hogema BM, Grompe M, Bottiglieri TG, Concas A, Biggio G, Sogliano C, Rigamonti AE, Pearl PL, Snead OC 3rd, Jakobs C, Gibson KM. Murine succinate semialdehyde dehydrogenase deficiency. *Ann Neurol* 2003; 54 Suppl 6: S81-90.

Hessels J, Voortman G, Holtus, F, Poll The BT, Duran M. Ernstige hypoglycemische crisis met fatale afloop bij een twee jarig kind. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 328-332.

Heyden JC van der, Rotteveel JJ, Wevers RA. Decreased homovanillic acid concentrations in cerebrospinal fluid in children without a known defect in dopamine metabolism. *Eur J Paediatr Neurol* 2003; 7: 31-37.

Hoffmann GF, Assmann B, Brautigam C, Dionisi-Vici C, Haussler M, Klerk JB de, Naumann M, Steenbergen-Spanjers GC, Strassburg HM, Wevers RA. Tyrosine hydroxylase deficiency causes progressive encephalopathy and dopa-non-responsive dystonia. *Ann Neurol* 2003; 54: S56-65.

Hogenboom S, Romeijn GJ, Houten SM, Baes M, Wanders RJA, Waterham HR. Peroxisome deficiency does not result in deficiency of enzymes involved in cholesterol biosynthesis. In: Peroxisomal disorders and regulation of genes. Roels F, Baes M and Bie S de (eds.). Kluwer Academic / Plenum Publisher, New York. *Adv Exp Med Biol* 2003; 544: 329-330.

Hogenboom S, Wanders RJA, Waterham HR. Cholesterol biosynthesis is not defective in peroxisome biogenesis defective fibroblasts. *Mol Genet Metab* 2003; 80: 290-295.

Houten SM, Schneiders MS, Wanders RJA, Waterham HR. Regulation of isoprenoid/cholesterol biosynthesis in cells from mevalonate kinase-deficient patients. *J Biol Chem* 2003; 278: 5736-5743.

Houten SM, Woerden CS van, Wijburg FA, Wanders RJA, Waterham HR. Carrier frequency of the V377I (1129G>A) MVK mutation, associated with hyper-IgD and periodic fever syndrome, in the Netherlands. *Eur J Hum Genet* 2003; 11: 196-200.

Hove JL van, Wevers RA, Cleempot J van, Moerman P, Sciot R, Matthijs G, Schollen E, Jong JG de, Carey WF, Muller V, Nicholls C, Perkins K, Hopwood JJ. Late-Onset visceral presentation with cardiomyopathy and without neurological symptoms of adult Sanfilippo A syndrome. *Am J Med Genet* 2003; 118A: 382-387.

Jacobs EMG, Vries RAL de, Elving LD, Stalenhoef AFH, Swinkels DW. Diagnostiek bij 5 patiënten met mogelijk hemochromatose. *Ned Tijdschr Geneesk* 2003, 147: 666-670.

Jacobs EMG, Verbeek ALM, Swinkels DW. Prioritering van criteria voor genetische screening, toegelicht aan de hand van de ziekte primaire hemochromatose. *Ned Tijdschr Geneesk* 2003; 147: 2304-2305.

Janssen AJ, Smeitink JA, Heuvel LP van den. Some practical aspects of providing a diagnostic service for respiratory chain defects. *Ann Clin Biochem* 2003; 40: 3-8.

Janssens PMW, Abreu RA de, Hamel BCJ. Een patiënt met een hoge concentratie urinezuur in serum en een geslachtsgebonden overervende ziekte. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 371-376.

Janssens PMW, Boers GHJ. Een patiënt met vruchtbaarheidsstoornissen en hart- en vaatziekten in de familie. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 321-325.

Janssens PMW, Janssen M, Jong JGN de. Een volwassen man met familiair voorkomende arrose, ochronose en donkerkleurende urine en zwart oorsmeer. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 334-337.

- Janssens PMW. Erfelijke metabole ziekten, een vakgebied dat leeft! Ned Tijdschr Klin Chem Labgeneesk 2003; 28: 303-305.
- Jira PE, Waterham HR, Wanders RJA, Smeitink JAM, Sengers RCA, Wevers RA. Smith-Lemli-Opitz syndrome and the DHCR7 gene. Ann Hum Gen 2003; 67: 269-280.
- Jong JC de, Willems PH, Mooren FJ, Heuvel LP van den, Knoers NV, Bindels RJ. The structural unit of the thiazide-sensitive NaCl cotransporter is a homodimer. J Biol Chem 2003; 278: 24302-24307.
- Jong JC, Willems PH, Heuvel LP van den, Knoers NV, Bindels RJ. Functional Expression of the Human Thiazide-Sensitive NaCl Cotransporter in Madin-Darby Canine Kidney Cells. J Am Soc Nephrol 2003; 14: 2428-2435.
- Keizer-Garritsen JJ, Brouwer C, Lambooy LH, Riet P ter, Bokkerink JP, Trijbels FJ, Abreu RA de. Measurement of thiopurine S-methyltransferase activity in human blood samples based on high-performance liquid chromatography: reference values in erythrocytes from children. Ann Clin Biochem 2003; 40: 86-93.
- Knoers NV, Jong JC de, Meij IC, Heuvel LP van den, Bindels RJ. Genetic renal disorders with hypomagnesemia and hypocalciuria. J Nephrol 2003; 16: 293-296.
- Kolker S, Hoffmann GF, Schor DS, Feyh P, Wagner L, Jeffrey I, Pourfarzam M, Okun JG, Zschocke J, Baric I, Bain MD, Jakobs C, Chalmers RA. Glutaryl-CoA dehydrogenase deficiency: region-specific analysis of organic acids and acylcarnitines in post mortem brain predicts vulnerability of the putamen. Neuropediatrics 2003; 34: 253-260.
- Koning TJ de, Snell K, Duran M, Berger R, Poll-The BT, Surtees R. L-serine in disease and development. Biochem J 2003; 371: 653-661.
- Korenke GC, Wanders RJA, Hanefeld F. Striking improvement of muscle strength under creatine therapy in a patient with long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency. J Inher Metab Dis 2003; 26: 67-68.
- Kuhara T, Ohdoi C, Ohse M, Kuilenburg ABP van, Gennip AH van, Sumi S, Ito T, Wada Y, Matsumoto I. Rapid gas chromatographic-mass spectrometric diagnosis of dihydropyrimidine dehydrogenase deficiency and dihydropyrimidinase deficiency. J Chromatogr B 2003; 792: 107-115.
- Kuilenburg AB van, Abreu RA de, Gennip AH van. Pharmacogenetic and clinical aspects of dihydropyrimidine dehydrogenase deficiency. Ann Clin Biochem 2003; 40: 41-45.
- Lammens M, Hiel JA, Gabreëls FJ, Engelen BG van, Heuvel LP van den, Weemaes C. Nijmegen breakage syndrome: a neuropathological study. Neuropediatrics 2003; 34: 189-193.
- Langius FAA, Waterham HR, Romeijn GJ, Oostheim W, Barse MMJ de, Dorland L, Duran M, Beemer FA, Wanders RJA, Poll-The BT. Identification of three patients with a very mild form of Smith-Lemli-Opitz syndrome. Am J Med Genet 2003; 122A: 24-29.
- Larovere LE, Kremer RD de, Lambooy LH, Abreu RA de. Genetic polymorphism of thiopurine S-methyltransferase in Argentina. Ann Clin Biochem 2003; 40: 388-393.
- Lemonde HA, Custard EJ, Bouquet J, Duran M, Overmars H, Scambler PJ, Clayton PT. Mutations in SRD5B1 (AKR1D1), the gene encoding  $\Delta^4$ -3-oxosteroid 5 $\beta$ -reductase, in hepatitis and liver failure in infancy. Gut 2003; 52: 1494-1499.
- Levtchenko E, Blom H, Wilmer M, Heuvel L van den, Monnens L. ACE inhibitorenalapril diminishes albuminuria in patients with cystinosis. Clin Nephrol 2003; 60: 386-389.
- Löwik MM, Levtchenko EN, Monnens LA, Heuvel LP van den. WT-1 and NPHS2 mutation analysis in patients with non-familial steroid-resistant focal-segmental glomerulosclerosis. Clin Nephrol 2003; 59: 143-146.
- Mazon Ramos A, Gil-Setas A, Berrade Zubiri S, Bandres Echeverri T, Wevers R, Engelke U, Zschocke J. Primary trimethylaminuria or fish odor syndrome. A novel mutation in the first documented case in Spain. Med Clin 2003; 120: 219-221.
- Meij IC, Heuvel LP van den, Hemmes S, Vliet WA van der, Willems JL, Monnens LA, Knoers NV. Exclusion of mutations in FXYD2, CLDN16 and SLC12A3 in two families with primary renal Mg<sup>2+</sup> loss. Nephrol Dial Transplant 2003; 18: 512-516.
- Meij IC, Koenderink JB, Jong JC de, Pont JJ de, Monnens LA, Heuvel LP van den, Knoers NV. Dominant isolated renal magnesium loss is caused by misrouting of the Na<sup>+</sup>,K<sup>+</sup>-ATPase gamma-subunit. Ann N Y Acad Sci 2003; 986: 437-443.
- Moolenaar SH, Engelke UF, Wevers RA. Proton nuclear magnetic resonance spectroscopy of body fluids in the field of inborn errors of metabolism. Ann Clin Biochem 2003; 40: 16-24.
- Morava E, Kosztolanyi G, Engelke UF, Wevers RA. Reversal of clinical symptoms and radiographic abnormalities with protein restriction and ascorbic acid in alkaptonuria. Ann Clin Biochem 2003; 40: 108-111.
- Mukherji M, Schofield CJ, Wierzbicki AS, Jansen GA, Wanders RJA, Lloyd MD. The chemical biology of branched-chain lipid metabolism. Prog Lipid Res 2003; 42: 359-376.
- Muth A, Mosandl A, Wanders RJA, Nowaczyk MJM, Baric I, Böhles H, Sewell AC. Stereoselective analysis of 2-hydroxysebacic acid in urine of patients with Zellweger syndrome and of premature infants fed with medium-chain triglycerides. J Inher Metab Dis 2003; 26: 583-592.
- Niers L, Heuvel L van den, Trijbels F, Sengers R, Smeitink J. Prerequisites and strategies for prenatal diagnosis of respiratory chain deficiency in chorionic villi. J Inher Metab Dis 2003; 26: 647-658.
- Oey NA, Boer MEJ den, Ruiter JPN, Wanders RJA, Duran M, Waterham HR, Boer K, Post JAM van der, Wijburg FA. High activity of fatty acid oxidation enzymes in human placenta: implications for fetal-maternal disease. J Inher Metab Dis 2003; 26: 385-392.
- Ofman R, Ruiter JPN, Feenstra M, Duran M, Poll-The BT, Zschocke J, Ensenauer R, Lehnert W, Sass JO, Sperl W, Wanders RJA. 2-Methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency is caused by mutations in the HADH2 gene. Am J Hum Genet 2003; 72: 1300-1307.
- Pearl PL, Novotny EJ, Acosta MT, Jakobs C, Gibson KM. Succinic semialdehyde dehydrogenase deficiency in children and adults. Ann Neurol 2003; 54 Suppl 6: S73-80.
- Peters GJ, Noordhuis P, Kuilenburg ABP van, Schornagel JH, Gall H, Turner SL, Swart MS, Voorn D, Gennip AH van, Wanders RJA, Holwerda U, Smid K, Giaccone G, Fumoleau P, Groeningen CJ van. Pharmacokinetics of S-1, an oral formulation of ftorafur, oxonic acid and 5-chloro-2,4-dihydroxypyridine (molar ratio 1:0.4:1) in patients with solid tumors. Cancer Chemother Pharmacol 2003; 52: 1-12.

- Poll-The BT, Maillette de Buy Wenniger-Prick LJ, Barth PG, Duran M. The eye as a window to inborn errors of metabolism. *J Inher Metab Dis* 2003; 26: 229-244.
- Prietsch V, Mayatepek E, Krastel H, Haas D, Zundel D, Waterham HR, Wanders RJA, Gibson KM, Hoffmann GF. Mevalonate kinase deficiency: enlarging the clinical and biochemical spectrum. *Pediatrics* 2003; 111: 258-261.
- Rijn J van, Berg J van den, Teerlink T, Kruyt FA, Schor DS, Renardel de Lavalette AC, Berg TK van den, Jakobs C, Slotman BJ. Changes in the ornithine cycle following ionising radiation cause a cytotoxic conditioning of the culture medium of H35 hepatoma cells. *Br J Cancer* 2003; 88: 447-454.
- Rizzo C, Boenzi S, Wanders RJA, Duran M, Caruso U, Dionisi-Vici C. Characteristic acylcarnitine profiles in inherited defects of peroxisome biogenesis: a novel tool for screening diagnosis using tandem mass spectrometry. *Pediatr Res* 2003; 53: 1013-1018.
- Roels F, Saudubray JM, Giros M, Mandel H, Eyskens F, Saracibar N, Atarès Pueyo B, Prats JM, Prest B de, Depreter K, Pineda M, Krystkowiak P, Gootjes J, Wanders RJA, Espeel M, Poll-The BT. Peroxisome mosaics. In: Peroxisomal disorders and regulation of genes. Roels F, Baes M and Bie S de (eds.). Kluwer Academic / Plenum Publisher, New York. *Adv Exp Med Biol* 2003; 544: 97-106.
- Roermund CWT van, Waterham HR, IJlst L, Wanders RJA. Fatty acid metabolism in *Saccharomyces cerevisiae*. *Cell Mol Life Sci* 2003; 60: 1838-1851.
- Rooij IA van, Swinkels DW, Blom HJ, Merkus HM, Steegers-Theunissen RP. Vitamin and homocysteine status of mothers and infants and the risk of nonsyndromic orofacial clefts. *Am J Obstet Gynecol* 2003; 189: 1155-1160.
- Rubio-Gozalbo ME, Vos P, Forget PPh, Meer SB van der, Wanders RJA, Waterham HR, Bakker JA. Carnitine-acylcarnitine translocase deficiency: case report and review of the literature. *Acta Paediatr* 2003; 92: 501-504.
- Ruitenbeek W, Kobayashi K, Iijima M, Smeitink JA, Engelke UF, Abreu RA de, Kwast HT, Saheki T, Boelen CA, Jong JG de, Wevers RA. Moderate citrullinaemia without hyperammonaemia in a child with mutated and deficient argininosuccinate synthetase. *Ann Clin Biochem* 2003; 40: 102-107.
- Santer R, Muhle H, Suormala T, Baumgartner ER, Duran M, Yang X, Aoki Y, Suzuki Y, Stephani U. Partial response to biotin therapy in a patient with holocarboxylase synthetase deficiency: clinical, biochemical, and molecular genetic aspects. *Mol Genet Metab* 2003; 79: 160-166.
- Scacco S, Petruzzella V, Budde S, Vergari R, Tamborra R, Panelli D, Heuvel LP van den, Smeitink JA, Papa S. Pathological mutations of the human NDUFS4 gene of the 18-kDa (AQCQ) subunit of complex I affect the expression of the protein and the assembly and function of the complex. *J Biol Chem* 2003; 278: 44161-44167.
- Schlame M, Kelley RI, Feigenbaum A, Towbin JA, Heerd PM, Schieble T, Wanders RJA, DiMauro S, Blanck TJ. Phospholipid abnormalities in children with Barth syndrome. *J Am Coll Cardiol* 2003; 42: 1994-1999.
- Schwab KO, Ensenauer R, Matern D, Uyanik G, Schnieders B, Wanders RJA, Lehnert W. Complete deficiency of mitochondrial trifunctional protein due to a novel mutation within the  $\beta$ -subunit of the mitochondrial trifunctional protein gene leads to failure of long-chain fatty acid  $\beta$ -oxidation with fatal outcome. *Eur J Pediatr* 2003; 162: 90-95.
- Sikora J, Pavlu-Pereira H, Elleder M, Roelofs H, Wevers RA. Seven novel acid sphingomyelinase gene mutations in Niemann-Pick type A and B patients. *Ann Hum Genet* 2003; 67: 63-70.
- Simadibrata M, Wanders RJA, Jan G, Tytgat GNJ, Lesmana LA, Daldiyono, Ariawan I. Examination of small bowel enzymes in chronic diarrhea. *J Gastroenterol Hepatol* 2003; 18: 53-56.
- Smeets RJP, Smeitink JAM, Semmekrot BA, Scholte HR, Wanders RJA, Heuvel LPWJ van den. A novel splice site mutation in neonatal carnitine palmitoyl transferase II deficiency. *J Hum Genet* 2003; 48: 8-13.
- Spaapen LJM, Rubio-Gozalbo ME. Tetrahydrobiopterin-responsive phenylalanine hydroxylase deficiency, state of the art. *Mol Genet Metabol* 2003; 78: 93-99.
- Spiekerkoetter U, Huener G, Baykal T, Demirkol M, Duran M, Wanders RJA, Nezu J, Mayatepek E. Silent and symptomatic primary carnitine deficiency within the same family due to identical mutations in the organic cation/carnitine transporter OCTN2. *J Inher Metab Dis* 2003; 26: 613-615.
- Spiekerkoetter U, Sun B, Zytkovicz T, Wanders RJA, Strauss AW, Wendel U. MS/MS-based newborn and family screening detects asymptomatic patients with very-long-chain acyl-CoA dehydrogenase deficiency. *J Pediatr* 2003; 143: 335-342.
- Starremans PG, Kersten FF, Heuvel LP van den, Knoers NV, Bindels RJ. Dimeric architecture of the human bumetanide-sensitive Na-K-Cl Co-transporter. *J Am Soc Nephrol* 2003; 14: 3039-3046.
- Starremans PG, Kersten FF, Knoers NV, Heuvel LP van den, Bindels RJ. Mutations in the human Na-K-2Cl cotransporter (NKCC2) identified in Bartter syndrome type I consistently result in nonfunctional transporters. *J Am Soc Nephrol* 2003; 14: 1419-1426.
- Struys EA, Verhoeven NM, Roos B, Jakobs C. Disease-related metabolites in culture medium of fibroblasts from patients with D-2-hydroxyglutaric aciduria, L-2-hydroxyglutaric aciduria, and combined D/L-2-hydroxyglutaric aciduria. *Clin Chem* 2003; 49: 1133-1138.
- Sutton VR, O'Brien WE, Clark GD, Kim J, Wanders RJA. 3-Hydroxy-2-methylbutyryl-CoA dehydrogenase deficiency. *J Inher Metab Dis* 2003; 26: 69-71.
- Swinkels DW, Jacobs EMG. Van gen naar ziekte, HFE-mutaties bij primaire hemochromatose. *Ned Tijdschr Geneesk* 2003; 147: 652-656.
- Swinkels DW. Richtlijnen. "Diagnostiek en behandeling van primaire hemochromatose". *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 124-144.
- Takemoto Y, Suzuki Y, Horibe R, Shimozawa N, Wanders RJA, Kondo N. Gas chromatography / mass spectrometry analysis of very long chain fatty acids, docosahexaenoic acid, phytanic acid and plasmalogens for the screening of peroxisomal disorders. *Brain Dev* 2003; 27: 481-487.
- Ugalde C, Triepels RH, Coenen MJ, Heuvel LP van den, Smeets R, Uusimaa J, Briones P, Campistol J, Majamaa K, Smeitink JA, Nijtmans LG. Impaired complex I assembly in a Leigh syndrome patient with a novel missense mutation in the ND6 gene. *Ann Neurol* 2003; 54: 665-669.

Valianpour F, Selhorst JJM, Lint AEM van, Gennip AH van, Wanders RJA, Kemp S. Analysis of very long-chain fatty acids using electrospray ionization mass spectrometry. Mol Genet Metab 2003; 7: 189-196.

Valianpour F, Wanders RJA, Overmars H, Vaz FM, Barth PG, Gennip AH van. Linoleic acid supplementation of Barth syndrome fibroblasts restores cardiolipin levels: implications for treatment. J Lipid Res 2003; 44: 560-566.

Vaz FM, Houtkooper RH, Valianpour F, Barth PG, Wanders RJA. Only one splice variant of the human TAZ gene encodes a functional protein with a role in cardiolipin metabolism. J Biol Chem 2003; 278: 43089-43094.

Vries JE de, Meurs AMB, Rubio-Gozalbo, Spaapen LJM, Gennip AH van. Een patiënt met ornithinetranscarbamoylase-deficiëntie: het fysiologisch belang van de ureum cyclus. Ned Tijdschr Klin Chem Labgeneesk 2003; 28: 313-317.

Wanders RJA, Barth PG, Poll-The BT. Peroxisomal Disorders. In: Physician's Guide to the Laboratory Diagnosis of Metabolic Diseases. Blau N, Duran M, Blaskovics ME and Gibson KM (eds.). Springer-Verlag (2003) Berlin, Heidelberg, pp. 481-508.

Wanders RJA, Jansen GA, Lloyd MD. Phytanic acid alpha-oxidation, new insights into an old problem: a review. Biochim Biophys Acta 2003; 1631: 119-135.

Wanders RJA, Roermund CWT van, Visser WF, Ferdinandusse S, Jansen GA, Brink DM van den, Gloerich J, Waterham HR. Peroxisomal fatty acid alpha- and beta-oxidation in health and disease: new insights. In: Peroxisomal disorders and regulation of genes. Roels F, Baes M and Bie S de (eds.). Kluwer Academic / Plenum Publisher, New York. Adv Exp Med Biol 2003; 544: 293-302.

Wang X, Jakobs C, Bawle EV. D-2-Hydroxyglutaric aciduria with absence of corpus callosum and neonatal intracranial haemorrhage. J Inherit Metab Dis 2003; 26: 92-94.

Waterham HR, Koster J, Mooyer PAW, Noort GG, Kelley RI, Wilcox WR, Wanders RJA, Hennekam RCM, Oosterwijk JC. Autosomal recessive HEM/Greenberg skeletal dysplasia is caused by 3 $\beta$ -hydroxysterol A<sup>14</sup>-reductase deficiency due to mutations in the Lamin B receptor gene. Am J Hum Genet 2003; 72: 1013-1017.

Westhuizen FH van der, Heuvel LP van den, Smeets R, Veltman JA, Pfundt R, Kessel AG van, Ursing BM, Smeitink JA. Human mitochondrial complex I deficiency: investigating transcriptional responses by microarray. Neuropediatrics 2003; 34: 14-22.

Wiegerinck ETG, Jacobs EMG, Swinkels DW. Primaire Hemochromatose. Analyse 2003, 101-106.

Woerden CS van, Groothoff JW, Wanders RJA, Davin JC, Wijburg FA. Primary hyperoxaluria type 1 in The Netherlands: prevalence and outcome. Nephrol Dial Transplant 2003; 18: 273-279.

Wolf NI, Seitz A, Harting I, Smeitink JA, Trijbels F, Heuvel LP van den, Schlemmer H, Ebinger F, Evert W, Rating D. New pattern of brain MRI lesions in isolated complex I deficiency. Neuropediatrics 2003; 34: 156-159.

Wopereis S, Grünwald S, Morava E, Penzien JM, Briones P, Garcia-Silva MT, Demacker PN, Huijben KM, Wevers RA. Apolipoprotein C-III isofocusing in the diagnosis of genetic defects in O-glycan biosynthesis. Clin Chem 2003; 49: 1839-1845.

Wu X, Steet R, Bohoriv O, Bakker JA, Spaapen LJM, Kornfeld SA, Freeze H. Mutation of Cog7 impairs intracellular trafficking, disrupts multiple glycosylation pathways and causes a novel CDG. Glycobiology 2003; 20:

### Endocrinologie

Baas SJ, Endert E, Fliers E, Prummel MF, Wiersinga WM. Establishment of reference values for endocrine tests. III: Primary aldosteronism. Neth J Med 2003; 6: 37-43.

Beaujean D, Rosenbaum C, Müller H-W, Willemse JJ, Lenders J, Bornstein SR. Combinatorial code of growth factors and neuropeptides define neuroendocrine differentiation in PC12 cells. Exp Neurol 2003; 184: 348-358.

Biermasz NR, Oever NC van den, Frölich M, Pereira AM, Smit JWA, Romijn JA, Roelfsema F. Sandostatin LAR in acromegaly: a 6-week injection interval suppresses GH secretion as effectively as a 4-week interval. Clin Endocrin 2003; 58: 288-295.

Blom AB, Radstake TRDJ, Holthuysen AEM, Slöetjes AW, Pesman GJ, Sweep FGJ, Loo FAJ van de, Joosten LAB, Barrera P, Lent PLEM van, Berg WB van den. Increased expression of Fcg receptors II and III on macrophages of rheumatoid arthritis patients results in higher production of tumor necrosis factor  $\alpha$  and matrix metalloproteinase. Arthritis Rheum 2003; 48: 1002-1014.

Bosch RR, Bazuine M, Wake MM, Span PN, Olthaar AJ, Schürmann A, Maassen JA, Hermus ARMM, Willems PHGM, Sweep CGJ. Inhibition of protein kinase C $\beta$ II increases glucose uptake in 3T3-L1 adipocytes through elevated expression of glucose transporter 1 at the plasma membrane. Mol Endocrinol 2003; 17: 1230-1239.

Bosch RR, Janssen SWJ, Span PN, Olthaar AJ, Emst-de Vries SE van, Willems PHGM, Martens GJM, Hermus ARMM, Sweep CGJ. Exploring levels of hexosamine biosynthesis pathway intermediates and protein kinase C isoforms in muscle and fat tissue of Zucker Diabetic Fatty rats. Endocrine 2003; 20: 247-252.

Buijs MM, Burggraaf J, Wijbrandts C, Kam ML de, Frölich M, Cohen AF, Romijn JA, Sauerwein HP, Meinders AE, Pijl H. Blunted lipolytic response to fasting in abdominally obese women: evidence for involvement of hyposomatotropism. Am J Clin Nutr 2003; 77: 544-550.

Dam EW van, Dekker JM, Lentjes EG, Romijn FP, Smulders YM, Post WJ, Romijn JA, Krans HM. Steroids in adult men with type 1 diabetes: a tendency to hypogonadism. Diab Care 2003; 26: 1812-1818.

Elbers JM, Giltay EJ, Teerlink T, Scheffer PG, Asscheman H, Seidell JC, Gooren LJ. Effects of sex steroids on components of the insulin resistance syndrome in transsexual subjects. Clin Endocrinol (Oxf) 2003; 58: 562-571.

Fogteloo AJ, Pijl H, Frölich M, McCamish M, Meinders AE. Effects of recombinant human leptin treatment as an adjunct of moderate energy restriction on body weight, resting energy expenditure and energy intake in obese humans. Diab Nutr Metab 2003; 16: 109-114.

Galan BE de, Rietjens SJ, Tack CJ, Werf SP van der, Sweep CGJ, Lenders JWM, Smits P. Antecedent adrenaline attenuates the responsiveness to but not the release of counterregulatory hormones during subsequent hypoglycemia. J Clin Endocr Metab 2003; 88: 5462-5467.

Houdijk ME, Engelbregt MT, Popp-Snijders C, Delemarre van der Waal HA. Long-term effects of early postnatal food restriction on growth hormone secretion in rats. *J Parenter Enteral Nutr* 2003; 27: 260-267.

Hukshorn CJ, Menheere PPCA, Westerterp-Plantenga MS, Saris WHM. The effect of pegylated human recombinant leptin (PEG-OB) on neuroendocrine adaptions to semi-starvation in overweight men. *Eur J Endocrinol* 2003; 148: 649-655.

Hundscheid RDL, Smits APT, Thomas CMG, Kiemeney LALM, Braat DDM. Female carriers of fragile X permutations have no increased risk for additional diseases other than premature ovarian failure. *Am J Med Genet* 2003; 117A: 6-9.

Janssen SWJ, Martens GJM, Sweep CGJ, Span PN, Verhofstad AAJ, Hermus ARMM. Phlorizin treatment prevents the decrease in plasma insulin levels but not the progressive histopathological changes in the pancreatic islets during aging of Zucker diabetic fatty rats. *J Endocrinol Invest* 2003; 26: 508-515.

Jong PC de, Blankenstein MA, Nortier JW, Slee PH, Ven J van de, Gorp JM van, Elbers JR, Schipper ME, Blijham GH, Thijssen JH, Lu Q, Jelovac D, Brodie AM. The relationship between aromatase in primary breast tumors and response to treatment with aromatase inhibitors in advanced disease. *J Steroid Biochem Mol Biol* 2003; 87: 149-155.

Kempen AA van, Romijn JA, Ruiter AF, Ackermans MT, Endert E, Hoekstra JH, Kok JH, Sauerwein HP. Adaptation of glucose production and gluconeogenesis to diminishing glucose infusion in preterm infants at varying gestational ages. *Pediatr Res* 2003; 53: 628-634.

Kempen AA van, Romijn JA, Ruiter AF, Endert E, Weverling GJ, Kok JH, Sauerwein HP. Alanine administration does not stimulate gluconeogenesis in preterm infants. *Metabolism* 2003; 52: 945-949.

Koopman WJH, Bosch RR, Emst-de Vries SE van, Spaargaren M, Pont JHHM de, Willems PHGM. R-Ras alters Ca<sup>2+</sup> homeostasis by increasing the Ca<sup>2+</sup> leak across the endoplasmic reticular membrane. *J Biol Chem* 2003; 278: 13672-13679.

Le Moli R, Endert E, Fliers E, Prummel MF, Wiersinga WM. Evaluation of endocrine tests. A: the TRH test in patients with hyperprolactinaemia. *Neth J Med* 2003; 61: 44-48.

Lips CJ, Lentjes EG, Hoppener JW. The spectrum of carcinoid tumours and carcinoid syndromes. *Ann Clin Biochem* 2003; 40: 612-627.

Nieuwlaat W-A, Huysmans DA, Bosch HC van den, Sweep CGJ, Ross HA, Corstens FH, Hermus ARMM. Pretreatment with a single, low dose of recombinant human thyrotropin allows dose reduction of radioiodine therapy in patients with nodular goiter. *J Clin Endocrinol Metab* 2003; 88: 3121-2129.

Post MS, Mooren MJ van der, Baal WM van, Blankenstein MA, Merkus HM, Kroeks MV, Franke HR, Kenemans P, Stehouwer CD. Effects of low-dose oral and transdermal estrogen replacement therapy on hemostatic factors in healthy postmenopausal women: a randomised placebo-controlled study. *Am J Obstet Gynecol* 2003; 189: 1221-1227.

Séaux RGL de, Hoitsma AJ, Hoof HJC van, Corstens FJM, Wetzel JFM. Abnormal vitamin D metabolism and loss of bone mass after renal transplantation. *Nephron Clin Pract* 2003; 93: c21-c28.

Smets YFC, Pijl JW van der, Frölich M, Ringers J, Fijter JW de, Lemkes HHPJ. Insulin secretion and sensitivity after simultaneous pancreas-kidney transplantation estimated by CIGMA. *Transpl* 2003; 69: 1322-1327.

Smolders RG, Mooren MJ van der, Teerlink T, Merkus JM, Kroeks MV, Franke HR, Stehouwer CD, Kenemans P. A randomized placebo-controlled study of the effect of transdermal vs. oral estradiol with or without gestodene on homocysteine levels. *Fertil Steril* 2003; 79: 261-267.

Stikkelbroeck NMML, Sweep CGJ, Braat DDM, Hermus ARMM, Otten BJ. Monitoring of menstrual cycles, ovulation, and adrenal suppression by saliva sampling in female patients with 21-hydroxylase deficiency. *Fertil Steril* 2003; 80: 1030-1036.

Strieder TG, Prummel MF, Tijssen JG, Endert E, Wiersinga WM. Risk factors for and prevalence of thyroid disorders in a cross-sectional study among healthy female relatives of patients with autoimmune thyroid disease. *Clin Endocrinol (Oxf)* 2003; 59: 396-401.

Teerlink T, Neele SJ, Jong S de, Netelenbos JC, Stehouwer CD. Oestrogen replacement therapy lowers plasma levels of asymmetrical dimethylarginine in healthy postmenopausal women. *Clin Sci (Lond)* 2003; 105: 67-71.

Vermeulen AM, Groenewoud GC, Jong NW de, Groot H de, Gerth van Wijk R, Toorenbergen AW van. Primary sensitization to sweet bell pepper pollen in greenhouse workers with occupational allergy. *Clin Exp Allergy* 2003; 33: 1439-1442.

Wong WY, Zielhuis GA, Thomas CMG, Merkus HMWM, Steegers-Theunissen RPM. New evidence of the influence of exogenous and endogenous factors on sperm count in man. *Eur J Obstet Gyn R B* 2003; 110: 49-54.

### Toxicologie

Berend K, Voet GB van der, Wolff FA de. Acute aluminum intoxication. In: Group 13 Chemistry II - Biological Aspects of Aluminum, Structure and bonding, Vol. 104 (Roesky HW, Atwood DA, eds.), Springer, Berlin, Heidelberg 2003, pp 1-58.

Leussink BT, Baelde HJ, Broekhuizen-van den Berg TM, Heer E de, Voet GB van der, Slikkerveer A, Bruijn JA, Wolff FA de. Renal epithelial gene expression profile and bismuth-induced resistance against cisplatin nephrotoxicity. *Human Exp Toxicol* 2003; 22: 535-540.

Pennings EJM, Wolff FA de. Effects of Combined Use of Alcohol and Cocaine. Directions in Addiciton Treatment & Prevention. The Hatherleigh Company, U.S.A. 2003; Vol. 7, lesson 2: 11-21.

Voet GB van der, Wolff FA de. Metals. In: J.K. Aronson (ed.). Side effects of drugs. Annual 26, chapter 22 Elsevier Sci. BV, Amsterdam 2003, pp 243-257 (ISBN 0-444-50999-2).

Wolff FA de, et al. Subcommittee Acute Exposure Guideline Levels for Selected Airborne Chemicals. National Research Council of the National Academies. Report of the Subcommittee on Acute Exposure Guideline Levels 2003. Vol. 3. National Academies Press, Washington, D.C. (ISBN 0-309-08883-6).

Wolff FA de. Chemische stoffen uit de beklaagdenbank. Meer aandacht voor toxicologie nodig in opleiding artsen. *Medisch Contact* 2003; 58: 815-817.

## **Bedrijfsvoering**

### *Kwaliteit*

Buiting AMJ, Barneveld TA van, Bartels PCM. Richtlijnen als basis voor kwaliteitsontwikkeling. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 192-196.

Doesburg-van Kleffens M, Velmans J, Pelt J van. Vergelijking van verschillende CDT-bepalingsmethoden. *Ned Tijdschr Klin Chem Labgeneesk* 2003; 28: 200-201.

Stroobants AK, Goldschmidt HMJ, Plebani M. Error budget calculations in laboratory medicine: linking the concepts of biological variation and allowable medical errors. *Clin Chim Acta* 2003; 333: 169-176.

### *Diversen*

Cremers SC, Scholten EM, Schoemaker RC, Lentjes EG, Vermeij P, Paul LC, Hartigh J den, Fijter JW de. A compartmental pharmacokinetic model of cyclosporin and its predictive performance after Bayesian estimation in kidney and simultaneous pancreas-kidney transplant recipients. *Nephrol Dial Transplant* 2003; 18: 1201-1208.

Keijzer MH de. Proteinurie, meer (dan) eiwit in de urine. *Analyse* 2003; 1: 8-9.

Pekelharing JM, Blankenstein MA, Bakker AJ, Endert E, Hoffmann JJML, Hooijkaas, H, Houte AJ van, Miedema K, Mostert LJ, Mulder AHL, Oosterhuis W (eds). *Klinische Chemie*. In: *Diagnostisch Kompas 2003* (van Leusden, HAIM, ed.); College voor Zorgvoorzieningen, Amstelveen, Nederland, 2003; 491-804. (ISBN 90-70918-30-7).

Pelt J van. Een uitgebreid vakgebied. *Klinische chemie samen met laboratoriumgeneeskunde*. *Medisch Contact* 2003; 58: 97-98.

## **Dissertaties**

Afman LA. Homocysteine metabolism and neural tube defects. 24 september 2003, Nijmegen. Promotor: prof. dr. J.M.F. Trijbels; copromotores: dr. H.J. Blom en dr. H.W.M. van Straaten.

Berend K. Subacute aluminum intoxication in hemodialysis patients. 30 oktober 2003, Leiden. Promotor: F.A. de Wolff; copromotor, G.B. van der Voet.

Boss EA. Clinical value of analytes in cyst fluid from ovarian tumors. 17 juni 2003. Nijmegen. Promotores: Prof. dr. H. Boonstra, Prof. dr. J.O. Barentsz. Co-promotores: dr L.F.A.G. Massuger, dr C.M.G. Thomas.

Diris JHC. The role of troponin T in the quantification of ischemic myocardial injury. Maastricht. Promotores: prof.dr. M.P. van Diejen-Visser en prof.dr. W.Th. Hermens.

Eijsbouts AMM. Hypothalamic-pituitary-adrenal axis activity and prolactin secretion in patients with rheumatoid arthritis. 4 juni 2003. Nijmegen. Promotores: Prof. dr. L.B.A. van de Putte, Prof. dr. A.R.M.M. Hermus. Co-promotores: dr. F.H.J. van den Hoogen, dr. C.G.J. Sweep.

Huisman A. Nitric Oxide and antioxidant capacity of viable tissue. 17 september 2003, Utrecht. Promotor: Prof. Dr. A.J. Rabelink, co-promotor: Dr. E.E. van Faassen.

Kerstens PJSM. Studies on longterm use of methotrexate and azathioprine and enzymes of purine and thiopurine metabolism in rheumatoid arthritis. 7 april 2003, Nijmegen. Promotor: prof. dr. L.B.A. van de Putte; copromotores: mevr. dr. A.M.Th. Boerbooms en dr. R.A. De Abreu.

Manten GTR. Lipoprotein (a) and fibrinogen in pregnancy. 3 december 2003, Utrecht. Co-promotor: H.A.M. Voorbij.

Rensink AAM. Mechanism of amyloid  $\beta$ -induced cell death in human brain pericytes. 19 november 2003, Nijmegen. Promotor: prof. dr. H.P.H. Kremer; co-promoteres: dr. ir. M.M. Verbeek en dr. R.M.W. de Waal.

Scheffer PG. Physicochemical properties of low density lipoprotein in type 2 diabetes. 22 oktober 2003. Vrije Universiteit, Amsterdam. Promotores: Prof.dr. R.J. Heine en Prof.dr. M.A. Blankenstein; Co-promotor: Dr. T. Teerlink.

Starremans P. Functional implications of genetic defects identified in Bartter syndrome. 3 december 2003, Nijmegen. Promotores: prof. dr. R. Bindels en prof. dr. N. Knoers. Copromotor: dr. L.P. van den Heuvel.

Tjoa ML. Early markers of trophoblast function for the identification of high risk pregnancies. 15 oktober 2003. Vrije Universiteit, Amsterdam. Promotores: Prof.dr. M.A. Blankenstein en Prof.dr. J. M.G. van Vugt; Co-promotores: Dr. C.B.M. Oudejans; Dr. I.J. van Wijk.

Uum SHM van. The role of 11 $\beta$ -hydroxysteroid dehydrogenase in the pathogenesis of hypertension. 6 mei 2003. Nijmegen. Promotores: Prof. dr. Th. Thien, Prof. dr. P.W. de Leeuw, Prof. dr. A.R.M.M. Hermus. Co-promotores: dr. J.W.M. Lenders, dr. C.G.J. Sweep.

Weerd S de. Preconception counseling Screening and periconceptional health. 18 februari 2003. Nijmegen. Promotor: Prof. dr. D.D.M. Braat. Co-promotores: dr. E.A.P. Steegers, dr. C.M.G. Thomas.

Westerman A. bHLH transcription factor syntagms in the placenta and in lung malignancies. 26 september 2003. Vrije Universiteit, Amsterdam.. Promotor: Prof.dr. M.A. Blankenstein; co-promotor: Dr. C.B.M. Oudejans.

Willem FF. Homocysteine in coronary artery disease. 15 oktober 2003, Nijmegen. Promotor: prof. dr. F.W.A. Verheugt; copromotores: dr. W.R.M. Aengevaeren, dr. H.J. Blom en dr. G.H.J. Boers.