Publiceren: grondbeginselen en nieuwe ontwikkelingen

Cock van Duijn

1e publicatie

Micronutrients and the risk of lung cancer.

Kok FJ, van Duijn CM, Hofman A, Vermeeren R, de Bruijn AM, Valkenburg HA.

N Engl J Med. 1987;316(22):1416

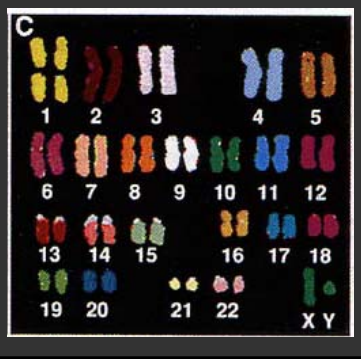
1e publicatie als eerste auteur

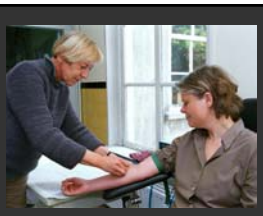
Infant feeding and childhood cancer.

van Duijn CM, van Steensel-Moll HA, van der Does-vd Berg A, van Wering ER, van Zanen GE, Valkenburg HA, Rammeloo JA.

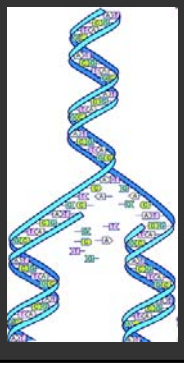
Lancet. 1988;(8614):796-7

Mijn huidige werk





Veranderingen in het DNA



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AACGACGTAACCGACTTAGGC
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CTAAGAGCAGCTAAAGACTCC
AAAGCGATTCGATAGCAACCC
GCCGATCGAAGGAGTCCAAAG

Veranderingen in het DNA

AGGAGTCCAAAGCGCGCAGTG
CGCAGCGCGCACCAGTCGTGA
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GGAGTCCAAAGCGCGCAGTGC
GCGAGAGGAGTCGGAGTCCG
GCAATTGCCCAATGCCGATCA
AACGACGTAACCGACTTAGGC
CAGAGAGCTAGCGATCCGACT
CTAAGAGCAGCTAAAGACTCC
AAAGCGATTCGATAGCAACCC
GCCGATCGAAGGAGTCCAAAG

Genen en kenmerken

Mijn huidige werk

Genetic variaties ⇒ Risico op ziekte

Beginsel 1: vind de niche

Science, Vol 261, Issue 5123, 921-923
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ARTICLES

Gene dose of apolipoprotein E type 4 allele a disease in late onset families

EH Corder, AM Saunders, WJ Strittmatter, DE Schmechel, PC and MA Pericak-Vance

Department of Medicine, Joseph and Kathleen Bryan Alzheimer's D Center, Durham, NC 27710.

The apolipoprotein E type 4 allele (APOE-epsilon 4) is genetically and sporadic forms of Alzheimer's disease (AD). Risk for AD increa decreased from 84 to 68 years with increasing number of APOE-ep Thus APOE-epsilon 4 gene dose is a major risk factor for late onse APOE-epsilon 4 was virtually sufficient to cause AD by age 80.

article

Apolipoprotein E4 allele in a population-based study of early-onset Alzheimer's disease

Several studies have reported an association of the apolipoprotein E allele ε4 (APOE*4) to familial and sporadic late-onset Alzheimer's disease (LOAD). Here we report on the relationship between APOE*4 and early-onset Alzheimer's disease (EOAD) in a Dutch population-based study. The frequency of the APOE*4 allele was 2.3 times higher among EOAD cases compared to controls. Among patients, the allele frequency was 1.6 times higher in those with a positive family history than in those without. A significant increase in risk of EOAD was found for subjects homozygous for APOE*4 regardless of family history of dementia, but an increase in EOAD risk for APOE*4 heterozygotes could only be shown in subjects with a positive family history. Our study demonstrates a significant association between APOE*4 and EOAD which is modified by family history of dementia.

Grondbeginsel 2:

- Iedere paper is een mega effort (geld en tijd)
- Investeer maximaal (tijd, geld en menskracht) in belangrijke bevindigen
- Blijf niet ''zoeken'' naar een doorbraak in een doodlopende straat

Beginsel 3: je redt het niet alleen

Top publiceren is team work

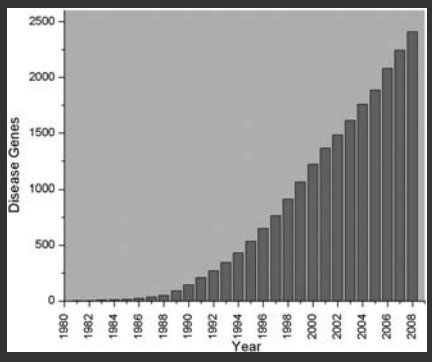



Beginsel 4: blijf je ontwikkelen

Genetische Epidemiologie

- Van familie onderzoek naar populatie onderzoek
- Van 3 patienten naar 120,000
- Van complexe statistiek tot simpele t-test

Genen en kenmerken



Nieuwe ontwikkelingen

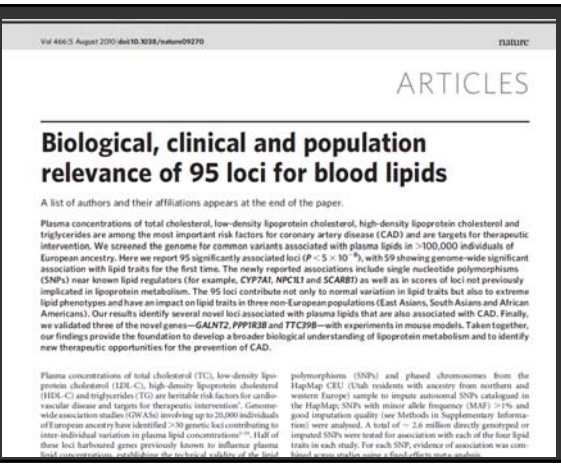
- Publiceren met 100en auteurs
- Publicaties bij gen-ontdekkingen vrijwel altijd in toptijdschriften
- Belangrijk: waar sta je op de paper?

550ste publicatie

Association analyses of 249,796 individuals reveal 18 new loci associated with body mass index.

Speliotes EK, Willer CJ, Berndt SI, Monda KL, Thorleifsson G, Jackson AU, Allen HL, Lindgren CM, Luan J, Mägi R, Randall JC, Vedantam S, Winkler TW, Qi L, Workalemahu T, Heid IM, Steinthorsdottir V, Stringham HM, Weedon MN, Wheeler E, Wood AR, Ferreira T, Weyant RJ, Segrè AV, Estrada K, Liang L, Nemesh J, Park JH, Gustafsson S, Kilpeläinen TO, Yang J, Bouatia-Naji N, Esko T, Feitosa MF, Kutalik Z, Mangino M, Raychaudhuri S, Scherag A, Smith AV, Welch R, Zhao JH, Aben KK, Absher DM, Amin N, Dixon AL, Fisher E, Glazer NL, Goddard ME, Heard-Costa NL, Hoesel V, Hottenga JJ, Johansson A, Johnson T, Ketkar S, Lamina C, Li S, Moffatt MF, Myers RH, Narisu N, Perry JR, Peters MJ, Preuss M, Ripatti S, Rivadeneira F, Sandholt C, Scott LJ, Timpson NJ, Tyrer JP, van Wingerden S, Watanabe RM, White CC, Wiklund F, Barlassina C, Chasman DI, Cooper MN, Jansson JO, Lawrence RW, Pellikka N, Prokopenko I, Shi J, Thiering E, Alavere H, Alibrandi MT, Almgren P, Arnold AM, Aspelund T, Atwood LD, Balkau B, Balmforth AJ, Bennett AJ, Ben-Shlomo Y, Bergman RN, Bergmann S, Biebermann H, Blakemore AI, Boes T, Bonnycastle LL, Bornstein SR, Brown MJ, Buchanan TA, Busonero F, Campbell H, Cappuccio FP, Cavalcanti-Proença C, Chen YD, Chen CM, Chines PS, Clarke R, Coin L, Connell J, Day IN, Heijer M, Duan J, Ebrahim S, Elliott P, Elosua R, Eiriksdottir G, Erdos MR, Eriksson JG, Facheris MF, Felix SB, Fischer-Posovszky P, Folsom AR, Friedrich N, Freimer NB, Fu M, Gaget S, Gejman PV, Geus EJ, Gieger C, Gjesing AP, Goel A, Goyette P, Grallert H, Grässler J, Greenawalt DM, Groves CJ, Gudnason V, Guiducci C, Hartikainen AL, Hassanali N, Hall AS, Havulinna AS, Hayward C, Heath AC, Hengstenberg C, Hicks AA, Hinney A, Hofman A, Homuth G, Hui J, Igl W, Iribarren C, Isomaa B, Jacobs KB, Jarick I, Jewell E, John U, Jørgensen T, Jousilahti P, Jula A, Kaakinen M, Kajantie E, Kaplan LM, Kathiresan S, Kettunen J, Kinnunen L, Knowles JW, Kolcic I, König IR, Koskinen S, Kovacs P, Kuusisto J, Kraft P, Kvaløy K, Laitinen J, Lantieri O, Lanzani C, Launer LJ, Lecoeur C, Lehtimäki T, Lettre G, Liu J, Lokki ML, Lorentzon M, Luben RN, Ludwig B; MAGIC, Manunta P, Marek D, Marre M, Martin NG, McArdle WL, McCarthy A, McKnight B, Meitinger T, Melander O, Meyre D, Midthjell K, Montgomery GW, Morken MA, Morris AP, Mulic R, Ngwa JS, Nelis M, Neville MJ, Nyholt DR, O'Donnell CJ, O'Rahilly S, Ong KK, Oostra B, Paré G, Parker AN, Perola M, Pichler I, Pietiläinen KH, Platou CG, Polasek O, Pouta A, Rafelt S, Raitakari O, Rayner NW, Ridderstråle M, Rief W, Ruokonen A, Robertson NR, Rzehak P, Salomaa V, Sanders AR, Sandhu MS, Sanna S, Saramies J, Savolainen MJ, Scherag S, Schipf S, Schreiber S, Schunkert H, Silander K, Sinisalo J, Siscovick DS, Smit JH, Soranzo N, Sovio U, Stephens J, Surakka I, Swift AJ, Tammesoo ML, Tardif JC, Teder-Laving M, Teslovich TM, Thompson JR, Thomson B, Tönjes A, Tuomi T, van Meurs JB, van Ommen GJ, Vatin V, Viikari J, Visvikis-Siest S, Vitart V, Vogel CI, Voight BF, Waite LL, Wallaschofski H, Walters GB, Widen E, Wiegand S, Wild SH, Willemsen G, Witte DR, Witteman JC, Xu J, Zhang Q, Zgaga L, Ziegler A, Zitting P, Beilby JP, Farooqi IS, Hebebrand J, Huikuri HV, James AL, Kähönen M, Levinson DF, Macciardi F, Nieminen MS, Ohlsson C, Palmer LJ, Ridker PM, Stumvoll M, Beckmann JS, Boeing H, Boerwinkle E, Boomsma DI, Caulfield MJ, Chanock SJ, Collins FS, Cupples LA, Smith GD, Erdmann J, Froguel P, Grönberg H, Gyllensten U, Hall P, Hansen T, Harris TB, Hattersley AT, Hayes RB, Heinrich J, Hu FB, Hveem K, Illig T, Jarvelin MR, Kaprio J, Karpe F, Khaw KT, Kiemeney LA, Krude H, Laakso M, Lawlor DA, Metspalu A, Munroe PB, Ouwehand WH, Pedersen O, Penninx BW, Peters A, Pramstaller PP, Quertermous T, Reinehr T, Rissanen A, Rudan I, Samani NJ, Schwarz PE, Shuldiner AR, Spector TD, Tuomilehto J, Uda M, Uitterlinden A, Valle TT, Wabitsch M, Waeber G, Wareham NJ, Watkins H, Procardis Consortium, Wilson JF, Wright AF, Zillikens MC, Chatterjee N, McCarroll SA, Purcell S, Schadt EE, Visscher PM, Assimes TL, Borecki IB, Deloukas P, Fox CS, Groop LC, Haritunians T, Hunter DJ, Kaplan RC, Mohlke KL, O'Connell JR, Peltonen L, Schlessinger D, Strachan DP, van Duijn CM, Wichmann HE, Frayling TM, Thorsteinsdottir U, Abecasis GR, Barroso I, Boehnke M, Stefansson K, North KE, McCarthy MI, Hirschhorn JN, Ingelsson E, Loos RJ.

Nat Genet, 2010 Nov



Nieuwe ontwikkelingen

- Meepubliceren van belang voor toekomst: subsidies
- Hoe stel je je rol veilig in grote consortia?
- Hoe weeg je de verschillende belangen in de onderzoeksgroep?
- Focus op de wetenschap en niet op de politiek!

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Cock van Duijn