Curriculum Vitae Professor Han Brunner

Prof. Henri Gerrit (Han) Brunner (MD, PhD),
Radboud University Nijmegen Medical Center,
Department of Human Genetics 855; Geert Grooteplein 10,
NL-6525GA Nijmegen, the Netherlands.
email: h.brunner@radboudumc.nl
Date of birth: 18-10-1956

Training:

1975-1984: Medicine at the University of Groningen.

1984-1988: Clinical Genetics specialty training at Radboud University Nijmegen, with Drs Ben ter Haar and Ben Hamel, and Prof. H.H. Ropers. He was board certified in Clinical Genetics in 1988.

Employment and activities:

1988: employed as Specialist Consultant in the Institute of Human Genetics (Section Clinical Genetics) Radboud University Nijmegen Medical Centre.

1993: PhD. Thesis (title: Genetic Studies in Myotonic Dystrophy).
He has initiated and conducted several research projects that use clinical genetic observations as the starting point for human molecular genetic investigations into such topics as human behaviour, skeletal development, brain development, neuromuscular disease, congenital malformations, and gonadal development and function.

1998- appointed as Full Professor of Human Genetics and Head of the Institute of Human Genetics at Radboud University Nijmegen Medical Centre.

2004-2008: chancellor for Human Genetics, Pediatrics, and Medical Psychology at Radboud University Nijmegen Medical Centre.

2014- Chairman Institute of Clinical Genetics at Maastricht University the Netherlands (0.3 fte).

Organisational and advisory functions:

Netherlands

- Member of the Scientific Advisory Board of the KNAW Hubrecht lab, Utrecht, 2012-2020
- Member of the Scientific Council of the Dutch Organisation for Research of Neuromuscular diseases, 2000-2010
- Chairman of the Dutch National Organisation for Scientific research (ZON-MW) committee for VICI career development grants, 2006-2008
- Member of the core Assessment Committee for the Leiden UMC Science Review, 2006
- Member of the Medical Sciences Fellowship Committee of the Dutch National Organisation for Scientific Research, 2004
- Chairman of the Dutch Clinical Genetics Society Quality Assurance Committee, 1998-2000
- Member of the Board of Directors of the Dutch Society of Human Genetics, 1995-1998.
- Member of the Netherlands National Body for Scientific Integrity, 2020-

Abroad

- President European Society of Human Genetics, 2013-2014
- Member of the Board of Directors American Society Human Genetics, 2013-2016
- Member Executive Board European Society of Human Genetics, 2012-2015
- Co-chairman Diagnostics, International Rare Diseases Research Consortium (IRDiRC), 2012-2016
- Member of the Scientific Advisory Board of the Sydney Brenner Institute of Molecular Biology, Johannesburg, South Africa, 2011-2015
- Member of the Scientific Committee, Telethon Italy, 2006-2009, 2012-2013
- Organizer of the European School of Medical Genetics 2007-present
- Member of the Scientific Programme Committee for the world congress of Human Genetics, Brisbane, Australia, 2006 and Montreal, Canada 2011

- Member of the Jury for the Söderberg professorship of the Royal Swedish Academy of Sciences, 2011
- Member of the Jury for the Franqui prize for Biomedical Research, 2011, Belgium
- Chairman of the Scientific Program Committee of the European Society of Human Genetics 2003-2010
- Member Scientific Advisory Board Cergentis.
- Member of the Scientific Advisory Committee for the Canadian Institutes of Health Research 2017
- Member of the ASHG Nominating Committee for new board members 2018-2021
- Chairman of the Education Committee European Society of Human Genetics 2017- 2020
- Member of the Advisory Board Nostos, bioinformatics Company Berlin, Germany
- Advisor to i-Gonad project Dr M. Warman, Boston, USA

Member Editorial Board *Molecular Syndromology,* 2010-present
Member Editorial Board *Clinical Genetics,* 2006-present
Member Editorial Board *Journal of Medical Genetics,* 2005-present
Member Editorial Board *Netherlands Journal of Medicine*, 2006-2010.
Member Editorial Board *Clinical Syndromology*, 2000-2006.
Member Editorial Board *Med*, 2020-present

Selected Publications (from >400): (H-index = 109)

- Brunner HG, Nelen M, Breakefield XO, Ropers HH, van Oost BA. Abnormal behavior associated with a point mutation in the structural gene for monoamine oxidase A**. Science** 262:578-580, 1993.
- Brunner HG, Jansen G, Nillesen W, Nelen MR, de Die CEM, Höweler CJ, Wieringa B, Ropers HH, Smeets HJM. Reverse mutation in myotonic dystrophy. **New Engl J Med** 328:476-480, 1993.
- Kremer H, Kraaij R, Toledo SPA, Post M, Fridman JB, Hayashida CB, van Reen M, Milgrom E, Ropers HH, Mariman E, Themmen APN, Brunner HG (1995) Male pseudohermaphroditism due to a homozygous missense mutation of the luteinizing hormone receptor gene. **Nature Genet** 9:160-164, 1995.
- Vikkula M, Mariman ECM, Lui VCH, Zhidkova NI, Tiller GE, Goldring MB, van Beersum SEC, de Waal Malefijt MC, van den Hoogen FHJ, Ropers HH, Mayne R, Cheah KSE, Olsen BR, Warman ML, Brunner HG. Autosomal dominant and recessive osteochondrodysplasias associated with the Col11A2 locus. **Cell** 80:431-437, 1995.
- Lenders JWM, Eisenhofer G, Abeling NGGM, Berger W, Murphy DL, Konings CH, Bleeker Wagemakers LM, Kopin IJ, Karoum F, van Gennip AH, Brunner HG. Specific genetic deficiencies of the A and B isoenzymes of monoamine oxidase are characterized by distinct neurochemical and clinical phenotypes. **J Clin Invest** 97:1010-1019, 1996.
- Celli J, Duijf P, Hamel BCJ, Bamshad M, Kramer B, Smits APT, Newbury-Ecob R, Hennekam RC, van Buggenhout G, van Haeringen A, Woods CG, van Essen AJ, de Waal R, Vriend G, Haber DA, Yang A, McKeon F, Brunner HG, van Bokhoven H. Heterozygous germline mutations in the P53 homolog P63 are the cause of EEC syndrome. **Cell** 99:143-153, 1999.
- van Bokhoven H, Celli J, Kayserili H, van Beusekom E, Balci S, Brussel W, Skovby F, Kerr B, Percin EF, Akarsu N, Brunner HG. Mutation of the gene encoding the ROR2 receptor tyrosine kinase causes autosomal recessive Robinow syndrome. **Nature Genetics** 25:423-426, 2000.
- Van Bokhoven H, Hamel BCJ, Bamshad M, Sangiorgi E, Gurrieri F, Duijf PHG, Vanmolkot KRJ, van Beusekom E, van Beersum SEC, Celli J, Merkx GFM, Tenconi R, Fryns JP, Verloes A, Newbury-Ecob RA, Raas-Rotschild A, Majewski F, Beemer FA, Janecke A, Chitayat D, Crisponi G, Kayserili H, Yates JRW, Neri G, Brunner HG. p63 Gene Mutations in EEC Syndrome, Limb-Mammary Syndrome, and Isolated Split Hand Split Foot Malformation Suggest a Genotype-Phenotype Correlation. **Am J Hum Genet** 69: 481-92, 2001.
- Tartaglia M, Mehler EL, Goldberg R, Zampino G, Brunner HG, Kremer H, van der Burgt I, Crosby AH, Ion A, Jeffery S, Kalidas K, Patton MA, Kucherlapati RS, Gelb BD. Mutations in the protein tyrosine phosphatase gene, PTPN11, cause Noonan syndrome. **Nat Genet**. 29: 465-468, 2001.
- Beltrán-Valero de Bernabé B, Currier S, Steinbrecher S, Celli J, van Beusekom E, Kayserili H, Merlini L, Chitayat D, Dobyns DW, Cormand B, Lehesjoki AE, Voit T, Walsh CA, van Bokhoven H, Brunner HG. Mutations in the O-mannosyltransferase gene POMT1 give rise to the severe neuronal migration disorder Walker-Warburg syndrome **Am J Hum Genet** 71:1033-1043, 2002

- Brunner HG, van Driel M. From syndrome families to functional genomics. **Nature Reviews Genetics** 5:547-553, 2004.
- Vissers LE, Van Ravenswaaij CM, Admiraal R, Hurst JA, De Vries BB, Janssen IM, Van Der Vliet WA, Huys EH, De Jong PJ, Hamel BC, Schoenmakers EF, Brunner HG, Veltman JA, Van Kessel AG. Mutations in a new member of the chromodomain gene family cause CHARGE syndrome. **Nat Genet** 36:955-957, 2004.
- van Bokhoven H, Celli J, van Reeuwijk J, Rinne T, Glaudemans B, van Beusekom B, Rieu P, Newbury-Ecob RA, Chiang C, Brunner HG. MYCN haploinsufficiency is associated with reduced brain size and intestinal atresias in Feingold syndrome. **Nature Genetics** 37:465-467, 2005.
- Kleefstra T, Brunner HG, Amiel J, Oudakker AR, Nillesen WM, Magee A, Genevieve D, Cormier-Daire V, van Esch H, Fryns JP, Hamel BC, Sistermans EA, de Vries BB, van Bokhoven H. Loss-of-Function Mutations in Euchromatin Histone Methyl Transferase 1 (EHMT1) Cause the 9q34 Subtelomeric Deletion Syndrome. **Am J Hum Genet**. 79:370-377, 2006.
- Rohmann E, Brunner HG, Kayserili H, Uyguner O, Nürnberg G, Lew ED, Dobbie A, Eswarakumar VP, Uzumcu A, Ulubil-Emeroglu M, Leroy JG, Li Y, Becker C, Lehnerdt K, Cremers CWRJ, Yuksel-Apak M, Nürnberg P, Kubisch C, Schlessinger J, van Bokhoven H, Wollnik B. Mutations in different components of FGF-signalling in LADD syndrome**. Nature Genetics**. 38:414 – 417, 2006.
- Koolen DA, Vissers LELM, Pfundt R, de Leeuw N, Knight SJL, Regan R, Kooy FR, Reyniers E, Romano C, Fichera M, Schinzel A, Baumer A, Anderlid BM, Schoumans J, Knoers NV, Geurts van Kessel A, Sistermans EA, Veltman JA, Brunner HG, de Vries BBA. A new chromosome 17q21.31 microdeletion syndrome associated with a common inversion polymorphism. **Nat Genet.** 38: 999-1001, 2006.
- Oti M, Huynen MA, Brunner HG. Phenome connections. **Trends Genet**. 24, 103-106, 2008.
- Ligtenberg MJ, Kuiper RP, Chan TL, Goossens M, Hebeda KM, Voorendt M, Lee TY, Bodmer D, Hoenselaar E, Hendriks-Cornelissen SJ, Tsui WY, Kong CK, Brunner HG, van Kessel AG, Yuen ST, van Krieken JH, Leung SY, Hoogerbrugge N. Heritable somatic methylation and inactivation of MSH2 in families with Lynch syndrome due to deletion of the 3' exons of TACSTD1. **Nat Genet.** 2009 Jan;41(1):112-7.
- Oti M, Huynen MA, Han G. Brunner HG. The Biological Coherence of Human Phenome Databases. **Am J Hum Genet** 85:801-808, 2009.
- Hoischen A, W M van Bon BWM, Gilissen C, Arts P, van Lier B, Steehouwer M, de Vries P, de Reuver R, Wieskamp N, Mortier G, Devriendt K, Amorim MZ, Revencu N, Kidd A, Barbosa M, Turner A, Smith J, Oley C, Henderson A, Hayes IM, Thompson EM, Brunner HG, de Vries BBA, Veltman JA. De novo mutations of SETBP1 cause Schinzel-Giedion syndrome. **Nat Genet.** 42:483-485, 2010.
- Veltman JA, Brunner HG. Understanding variable expressivity in microdeletion syndromes.Nat Genet 42:192-193, 2010 (editorial).
- Gilissen C, Arts HH, Hoischen A, Spruijt L, Mans DA, Arts P, van Lier B, Steehouwer M, van Reeuwijk J, Kant SG, Roepman R, Knoers NV, Veltman JA, Brunner HG. Exome sequencing identifies WDR35 variants involved in Sensenbrenner syndrome. **Am J Hum Genet**. 87:418-423, 2010.
- Vissers LE, de Ligt J, Gilissen C, Janssen I, Steehouwer M, de Vries P, van Lier B, Arts P, Wieskamp N, del Rosario M, van Bon BW, Hoischen A, de Vries BB, Brunner HG, Veltman JA. A de novo paradigm for mental retardation. **Nat Genet.** 42:1109-1112, 2010.
- Hoischen A, *et al.* De novo nonsense mutations in ASXL1 cause Bohring-Opitz syndrome. **Nat Genet**. 43:729-31, 2011.
- Kalay E, *et al.* CEP152 is a genome maintenance protein disrupted in Seckel syndrome. **Nat Genet.** 43:23-26, 2011.
- Jacquemont S, *et al.* Mirror extreme BMI phenotypes associated with gene dosage at the chromosome 16p11.2 locus. **Nature**. 478:97-102, 2011.
- Rivière JB, *et al.* De novo mutations in the actin genes ACTB and ACTG1 cause Baraitser-Winter syndrome**. Nat Genet**. 44:440-444, 2012.
- Stein JL, *et al.* Identification of common variants associated with human hippocampal and intracranial volumes. **Nat Genet.** 44:552-561.2012.
- Koolen DA, et al. Mutations in the chromatin modifier gene KANSL1 cause the 17q21.31 microdeletion syndrome. **Nat Genet**. 44:639-641, 2012.

- Veltman JA Brunner HG. De novo mutations in human genetic disease. **Nat Rev Genet** 13: 565-575, 2012.
- Bis JC, *et al.* Common variants at 12q14 and 12q24 are associated with hippocampal volume. **Nat Genet**, 44:545-551, 2012.
- Kleefstra T, *et al.* Disruption of an EHMT1-Associated Chromatin-Modification Module Causes Intellectual Disability. **Am J Hum Genet**. 91:73-82, 2012.
- Lindsay ME, et al. Loss-of-function mutations in TGFB2 cause a syndromic presentation of thoracic aortic aneurysm. **Nat Genet**. 44:922-927, 2012.
- van Bon et al. Cantú Syndrome Is Caused by Mutations in ABCC9. **Am J Hum Genet**. 90:1094-1101, 2012
- Schuurs-Hoeijmakers JH et al. Recurrent De Novo Mutations in PACS1 Cause Defective Cranial-Neural-Crest Migration and Define a Recognizable Intellectual-Disability Syndrome. **Am J Hum Genet**. 2012
- Schuurs-Hoeijmakers JH, et al. Mutations in DDHD2, Encoding an Intracellular Phospholipase A(1), Cause a Recessive Form of Complex Hereditary Spastic Paraplegia. **Am J Hum Genet** 91:1073-1081, 2012
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- Lappalainen T, et al. Dermitzakis ET. Transcriptome and genome sequencing uncovers functional variation in humans. **Nature**. 501:506-511, 2013
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- Vulto-van Silfhout AT, Rajamanickam S, Jensik PJ, Vergult S, de Rocker N, Newhall KJ, Raghavan R, Reardon SN, Jarrett K, McIntyre T, Bulinski J, Ownby SL, Huggenvik JI, McKnight GS, Rose GM, Cai X, Willaert A, Zweier C, Endele S, de Ligt J, van Bon BW, Lugtenberg D, de Vries PF, Veltman JA, van Bokhoven H, Brunner HG, Rauch A, de Brouwer AP, Carvill GL, Hoischen A, Mefford HC, Eichler EE, Vissers LE, Menten B, Collard MW, de Vries BB. Mutations affecting the SAND domain of DEAF1 cause intellectual disability with severe speech impairment and behavioral problems. **Am J Hum Genet**. 2014 May 1;94(5):649-61
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Hegenscheid K, Heinz A, Hernandez DG, Heslenfeld DJ, Hoekstra PJ, Holsboer F, Homuth G, Hottenga JJ, Ikeda M, Jack CR Jr, Jenkinson M, Johnson R, Kanai R, Keil M, Kent JW Jr, Kochunov P, Kwok JB, Lawrie SM, Liu X, Longo DL, McMahon KL, Meisenzahl E, Melle I, Mohnke S, Montgomery GW, Mostert JC, Mühleisen TW, Nalls MA, Nichols TE, Nilsson LG, Nöthen MM, Ohi K, Olvera RL, Perez-Iglesias R, Bruce Pike G, Potkin SG, Reinvang I, Reppermund S, Rietschel M, Romanczuk-Seiferth N, Rosen GD, Rujescu D, Schnell K, Schofield PR, Smith C, Steen VM, Sussmann JE, Thalamuthu A, Toga AW, Traynor BJ, Troncoso J, Turner JA, Valdés Hernández MC, van 't Ent D, van der Brug M, van der Wee NJ, van Tol MJ, Veltman DJ, Wassink TH, Westman E, Zielke RH, Zonderman AB, Ashbrook DG, Hager R, Lu L, McMahon FJ, Morris DW, Williams RW, ***Brunner HG***, Buckner RL, Buitelaar JK, Cahn W, Calhoun VD, Cavalleri GL, Crespo-Facorro B, Dale AM, Davies GE, Delanty N, Depondt C, Djurovic S, Drevets WC, Espeseth T, Gollub RL, Ho BC, Hoffmann W, Hosten N, Kahn RS, Le Hellard S, Meyer-Lindenberg A, Müller-Myhsok B, Nauck M, Nyberg L, Pandolfo M, Penninx BW, Roffman JL, Sisodiya SM, Smoller JW, van Bokhoven H, van Haren NE, Völzke H, Walter H, Weiner MW, Wen W, White T, Agartz I, Andreassen OA, Blangero J, Boomsma DI, Brouwer RM, Cannon DM, Cookson MR, de Geus EJ, Deary IJ, Donohoe G, Fernández G, Fisher SE, Francks C, Glahn DC, Grabe HJ, Gruber O, Hardy J, Hashimoto R, Hulshoff Pol HE, Jönsson EG, Kloszewska I, Lovestone S, Mattay VS, Mecocci P, McDonald C, McIntosh AM, Ophoff RA, Paus T, Pausova Z, Ryten M, Sachdev PS, Saykin AJ, Simmons A, Singleton A, Soininen H, Wardlaw JM, Weale ME, Weinberger DR, Adams HH, Launer LJ, Seiler S, Schmidt R, Chauhan G, Satizabal CL, Becker JT, Yanek L, van der Lee SJ, Ebling M, Fischl B, Longstreth WT Jr, Greve D, Schmidt H, Nyquist P, Vinke LN, van Duijn CM, Xue L, Mazoyer B, Bis JC, Gudnason V, Seshadri S, Ikram MA; The Alzheimer's Disease Neuroimaging Initiative; The CHARGE Consortium; EPIGEN; IMAGEN; SYS, Martin NG, Wright MJ, Schumann G, Franke B, Thompson PM, Medland SE. Common genetic variants influence human subcortical brain structures. **Nature**. 2015

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Willemsen MH, Kleefstra T, Löhner K, Vreeburg M, Stevens SJ, van der Burgt I, Bongers EM, Stegmann AP, Rump P, Rinne T, Nelen MR, Veltman JA, Vissers LE, Brunner HG, Gilissen C. Meta-analysis of 2,104 trios provides support for 10 new genes for intellectual disability. **Nat Neurosci**. 19:1194-1196, 2016

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Invited lectures:

Han Brunner has presented more than 200 lectures at international meetings and during departmental seminars. A selection of recent invitations is listed below.

- "The modular nature of genetic diseases". Human Genetics Society of Australasia, Annual meeting Adelaide, Australia, 03-08-2008.
- "Making sense of the human phenome". Greenberg memorial lecture Baylor college of Medicine Houston Texas, USA, 14-05-2009.
- "Clinical implications of next-generation sequencing technologies". Genomic Disorders Meeting Sanger Institute Cambridge, UK, 24-03-2010.
- "How next generation sequencing changes clinical genetics". German Society of Human Genetics Regensburg, Germany, 17-03-2011.
- "Human Genetics After Large-Scale Genome Sequencing: Questions for the Mouse". International Mammalian Genome Society (IMGS), Complex Trait Community (CTC) and the Genetics Society of America (GSA) joint conference on Mouse Genetics, Washington, USA, 24-06-2011.
- "De novo mutations and intellectual disability". British Society of Human Genetics, Warwick, UK, 18-09-2012.
- "The Genomic Future of Medicine" Ernst Klenck lecture, Center for Molecular Medicine, Cologne, Germany, 03-10-2012.
- "Diagnostic exome sequencing detects *de novo* mutations in intellectual disability". Personal Genomes Meeting, Cold Spring Harbor Laboratories, Cold Spring Harbor, USA,14-11-2012.
- "De novo mutations and intellectual disability" Japanese Society of Human Genetics, Sendai, Japan, 22-11-13
- "Whole genome and whole exome sequencing: What is the difference?" American Society of Human Genetics, San Diego, USA, 19-10-14
- "Understanding rare diseases" International Congress of Genetics, Shenzhen, China 24-10-15
- "Understanding Intellectual Disability" Human Genome Organization Meeting, Houston, USA, 1-3-16
- "Next Generation sequencing in Clinical Diagnosis" International Congress of Human Genetics Kyoto Japan 8-4-16
- "What sequencing means to the future of Clinical Genetics" Carter Lecture, British Society of Genomic Medicine London UK 24-9-16
- "The Present in Human Genetics". 50th Anniversary European Society of Human Genetics Meeting, Copenhagen Denmark 24-5-17
- "Intellectual Ability and Disability" Galton Institute Meeting, Royal Society London. UK 15-11-17
- "NGS in the Clinic" and "Understanding intellectual disability". Asian Pacific Society of Human

Genetics, Singapore 30-10-18

- "The impact of new mutations on human health" Keystone Global Health Series: Leveraging Genome Diversity for Human and Animal Health, 26-11-18
- "Recent advances in the diagnosis of genetic disorders",International Pediatric Association, Panama, 19-3-19
- Annual David Danks lecture Melbourne Children's Hospital, Murdoch Research institute, March 2021
- Human Genome Meeting Tel Aviv Israel, May 2022 (keynote)

Organization of International Meetings:
Han Brunner been involved in the organization of several international meetings. The 7 most important are listed below:

- Member of the Scientific Program Committee of the International Congress of Human Genetics, Brisbane , Australia, 2006, and Montreal, Canada 2011
- Chairman of the Scientific Program Committee of the Annual Congress of the European Society of Human Genetics, 2003-2010
- Organizer of the European School for Genetic Medicine, Bertinoro, Italy, 2007-present
- Ernst Klenck meeting of the Center of Molecular Medicine Cologne, Germany, October 2012
- New frontiers Symposium, Nijmegen Center for Molecular Life Sciences, Personal Genomes, December 2012
- Genomics or Rare Disorders meeting, Sanger Institute Cambridge, UK, 2013-2016.
- Keystone Meeting Leveraging Genomic Diversity in Human and Animal Health, Kampala, Uganda, 2018

Supervized PhD students:

No	Name	Graduation	Title Thesis
1	Joep Tuerlings	1999	Genetic aspects of male factor subertility
2	Ineke van der Burgt	2000	Clinical and Genetic Studies in Noonan Syndrome
3	Helger Yntema	2001	Molecular genetics of nonspecific X-linked mental retardation
4	Griet van Buggenhout	2001	A systematic genetic-etiological survey in a Dutch population of institutionalised mentally retarded patients - Diagnostic investigations and implications for medical care
5	Anneke den Hollander	2002	Identification of the CRB1 gene and analysis of its role in autosomal recessive retinal dystrophies
6	Pascal Duijf	2005	Molecular Genetics of EEC Syndrome and Related Disorders
7	Marc van Driel	2005	Bioinformatics strategies for disease gene identification
8	Jacopo Celli	2005	Resolving the Molecular Basis of Human Malformation Syndromes
9	Mirjam Luijendijk	2006	Elucidation of the Molecular Genetic Basis of Inherited Hearing Impairment
10	Bert van der Zwaag	2006	Congenital Cranial Dysinnervation Disorders – a genetic perspective into hereditary congenital facial paresis and Möbius syndrome
11	Jeroen van Reeuwijk	2008	Glyc-O-genetics of Walker-Warburg syndrome
12	Marleen Kets	2008	Hereditary colorectal cancer with unknown genetic defect, Lynch syndrome and beyond
13	Tuula Rinne	2010	Getting under the skin of p63
14	Erik Toonen	2010	Anti-TNF pharmacogenomics in rheumatoid arthritis: towards personalized therapeutics
15	Martin Oti	2010	Phenotype-guided disease investigation using Bioinformatics
16	Bregje van Bon	2010	Emerging genomic disorders in mental retardation
17	Jayne Hehir-Kwa	2010	From Copy Number Identification To Copy Number Interpretation

18	Terry Vrijenhoek	2011	Rare copy number variants and their effect on Schizophrenia.
19	Christian Gilissen	2012	Disease Gene Identification through Next Generation Sequencing
20	Janneke Schuurs-Hoeijmakers	2012	Gene identification in intellectual disability
21	Ilse Feenstra	2013	Genotype-phenotype studies in rare chromosome Aberrations
22	Joep de Ligt	2013	Bioinformatics of next generation sequencing
23	Anneke Vulto-Van Silfhout	2014	Genetics of intellectual disability
24	Masha Umicevic	2014	Pharmacogenetics of anti-TNF treatment
25	Christiane Zweier	2014	Clinical, genetic and functional characterization of intellectual disability disorders
26	Sonja de Munnik	2016	From Genotype to phenotype: clinical syndrome delineation in the era of genomics
27	Lotte Wijers	2016	Etiology of congenital anorectal malformations: Genetic and nongenetic risk factors
28	Machteld Oud	2017	Combining genotype, phenotype, and functional data for accurate diagnosis and management of ciliopathies
29	Margot Reijnders	2019	ID syndromes: the next generation
30	Romy van de Putte	2020	VACTERL association
31	Lot Snijders Blok	2021	Speech and language disorders
32	Job Verdonschot	2021	Genetics of dilated cardiomyopathy

Ongoing:

33	Eveline Hurkmans	Pharmacogenetics of osteosarcoma treatrment
34	Dmitrijs Rots	Epigenetic syndromes of development
35	Bart van der Sanden	Whole genome sequencing in clinical genetics
36	Vyne van der Schoot	Incidental findings in clinical exomes
37	Brechtje Hoegen	Bioinformatics of untargeted metabolomics
38	Dinu Antony	Ciliary syndromes
39	Wouter Steyaert	Bioinformatics of rare disease
40	Anouk Janssen	Noninvasive Preimplantation Genetic Testing
41	Rebekka Koeck	Assisted Reproductive Technologies and methylation of the embryo
42	Rick Essers	Chromosomal instability of the early human embryo
43	Sophie Stroecks	Mechanisms of genetic cardiomyopathy
44	Erdi Kücük	Bioinformatics of Long Read Sequencing

Honours:

2021: Annual David Danks lecture of the Royal Murdoch Research institute Melbourne, Australia
2020: Biannual Galjaard lecture of the Dutch Society of Human Genetics
2020: Honorary member of the Dutch Society of Human Genetics
2018: Awarded the Honorary Medal (Ehrenmedaille) of the German Society of Human Genetics
2016: Awarded the Carter Medal of the Clinical Genetics Society of Great Britain
2016: Winner of the King Faisal International Prize in Medicine (with Joris Veltman)
2016: Graziella Persico lecture CNR - Istituto di genetica e biofisica "Adriano Buzzati Traverso" Naples
2013: Knight in the Order of the Lion of the Netherlands
2013: Elected member of the Royal Netherlands Academy of Arts and Sciences
2012: Elected member of Academia Europea.
2012: Ernst Klenk lecture of the Center for Molecular Medicine Cologne, Germany.
2012: Stanley Davidson Lecture, Royal College of Physicians, Edinburgh, Edinburgh UK.
2011: Radboud Science Award (with Dr Joris Veltman), Radboud University Nijmegen.

2009: Frank Greenberg memorial lectureship, Baylor College of Medicine, Houston USA.
1995: Ben ter Haar prize of the Clinical Genetics Society of the Netherlands.
1994: Prize of the the Dutch Organisation for Research of Neuromuscular diseases, for research by young investigator.