

BIOGRAPHICAL SKETCH

Provide the following information for the most significant project members of the TOP-project. The biographical sketches will form the basis for the assessment of the project group. Follow this format for each person and fill in all questions below. **DO NOT EXCEED 3 PAGES** (per sketch, 10-point font size: Arial; use current margins: 0,5 inch in all directions). Upload every biosketch separately to ProjectNet. **Biosketches which exceed the max. 3 pages will be excluded.**

1a Personal details

- Title(s), initial(s), first name, surname:
Prof Gabriel J.E. Rinkel, MD, FRCP(E)
- Current position:
Professor and Chairman of Neurology
Department of Neurology and Neurosurgery
Brain Center Rudolf Magnus
University Medical Center Utrecht

1b Education/training**Master's ('doctoraal')**

- University/College of Higher Education: University of Utrecht, Faculty of Medicine
- Date (dd/mm/yy): Aug 1st, 1986 MD
- Studies: medicine
- Main subject:

Doctorate/PhD ('promotie')

- University/College of Higher Education: University of Utrecht, Faculty of Medicine
- Date (dd/mm/yy): June 4th, 1991
- Supervisor ('Promotor'): Prof J van Gijn
- Title of thesis: Perimesencephalic nonaneurysmal haemorrhage
- Registration as a specialist (dd/mm/yy): Jan 1st 1992
- Medical specialty: Neurology

2. Positions and Honors

- I. Positions and employment
 - 1992 neurologist at the University department of Neurology, Utrecht.
 - 1999 clinical established investigator of the Netherlands Heartfoundation
 - 2002 professor of neurology, University Medical Center Utrecht
 - 2008-11 director cerebrovascular unit, University Medical Center Utrecht
 - 2011 chair neurology, department neurology & neurosurgery UMCU
 - 2011-15 vice director Rudolf Magnus Institute of Neuroscience UMCU
 - 2012-14 ad interim chair neurosurgery department neurology and neurosurgery
 - 2015 director Research and Education, Brain division, UMCU
- II. Other relevant experience and professional memberships
 - 2003-09 chairman ethics committee, University Medical Center Utrecht
 - 2004 member ESO (European Stroke Organistaion) committee recommendations for treatment of intracerebral haematomas and subarachnoid haemorrhage
 - 2004-12 member scientific committee European Stroke Conference
 - 2011 Chair Stroke Goal Dr Foster Global Comparators
- III. Honors and awards
 - 1981 award from the University of Utrecht for best student research project (Rudolf Magnus Institute (R.M.I.) for Pharmacology, Utrecht)
 - 1992 Synthélabo Recherche Award
 - 1997 Teacher of the year of the medical faculty, Utrecht.
 - 1998 European Stroke Research Award (European Stroke Conference in Edinburgh)

2006 Stanley Davidson Lecture; Royal College of Physicians of Edinburgh, Edinburgh, UK

2013 Elected as Fellow of the Royal College of Physicians of Edinburgh

3. Output (Selection of peer-reviewed publications and patents)

- I. Your ten most contributing (most significant) publications
 - 1: Etminan N, Rinkel GJ. Unruptured intracranial aneurysms: development, rupture and preventive management. *Nat Rev Neurol*. 2016 Nov 3.
 - 2: Algra A, Rinkel GJ. Prognosis of cerebral cavernomas: on to treatment decisions. *Lancet Neurol*. 2015 Dec 1.
 - 3: Bor AS, Rinkel GJ, van Norden J, Wermer MJ. Long-term, serial screening for intracranial aneurysms in individuals with a family history of aneurysmal subarachnoid haemorrhage: a cohort study. *Lancet Neurol*. 2014 Apr;13(4):385-92. (IF 21.8)
 - 4: Greving JP, Wermer MJ, Brown RD Jr, Morita A, Juvela S, Yonekura M, Ishibashi T, Torner JC, Nakayama T, Rinkel GJ, Algra A. Development of the PHASES score for prediction of risk of rupture of intracranial aneurysms: a pooled analysis of six prospective cohort studies. *Lancet Neurol*. 2014 Jan;13(1):59-66. (IF 21.8)
 - 5: Dorhout Mees SM, Algra A, Vandertop WP, van Kooten F, Kuijsten HA, Boiten J, van Oostenbrugge RJ, Al-Shahi Salman R, Lavados PM, Rinkel GJ, van den Bergh WM; MASH-2 Study Group. Magnesium for aneurysmal subarachnoid haemorrhage (MASH-2): a randomised placebo-controlled trial. *Lancet*. 2012 Jul 7;380(9836):44-9. (IF 45.2)
 - 6: Vlak MH, Algra A, Brandenburg R, Rinkel GJ. Prevalence of unruptured intracranial aneurysms, with emphasis on sex, age, comorbidity, country, and time period: a systematic review and meta-analysis. *Lancet Neurol*. 2011 Jul;10(7):626-36. (IF 21.8)
 - 7: Rinkel GJ, Algra A. Long-term outcomes of patients with aneurysmal subarachnoid haemorrhage. *Lancet Neurol*. 2011 Apr;10(4):349-56. (IF 21.8)
 - 8: Nieuwkamp DJ, Setz LE, Algra A, Linn FH, de Rooij NK, Rinkel GJ. Changes in case fatality of aneurysmal subarachnoid haemorrhage over time, according to age, sex, and region: a meta-analysis. *Lancet Neurol*. 2009 Jul;8(7):635-42. (IF 21.8)
 - 9: van Gijn J, Kerr RS, Rinkel GJ. Subarachnoid haemorrhage. *Lancet*. 2007 Jan 27;369(9558):306-18. (IF 45.2)
 - 10: Ruigrok YM, Rinkel GJ, Wijmenga C. Genetics of intracranial aneurysms. *Lancet Neurol*. 2005 Mar;4(3):179-89. (IF 21.8)
- II. Median impact factor for your research field(s)¹
- III. The top 3 leading Journals in your research field
- IV. Patents (*incl. title and patent number*)

4. Brief summary of research over the last five years

Outline the content of your research over the last five years (Indicate word count: max. 350 words).

My research has since 1987 been focussed on subarachnoid haemorrhage and intracranial aneurysms. Over the last 5 years main topics within this field have been unravelling the causes of intracranial aneurysms, research on effectiveness of screening for aneurysms, diagnosis, prevention and treatment of secondary ischaemia after subarachnoid haemorrhage and studies on risk factors for rupture of intracranial aneurysms and treatment strategies in patients with unruptured intracranial aneurysms

5. Research support:

- I. Grants (*last 10 years*)

¹ Information on the median impact factor of a research field is provided by the ISI Web of Science. Under the section 'Additional resources' you will find 'Journal Citation Reports'. Via the 'subject category' and subsequently 'view a group of journals by subject category' information on the median impact factor of a research field is provided.

Grants PI	Amount	Year of award	Status
Optimal <u>E</u> arly <u>R</u> ecognition of persons at high risk of <u>A</u> neurysmal <u>S</u> ubarachnoid hemorrhage (<u>E</u> RASE). CVON-Nederlandse Hartstichting	Eu1,050,000	2016	<i>ongoing</i>
<i>Subtotal</i>			
Grants Co-PI	Amount	Year of award	Status
Detection of vascular malformations in patients with intracerebral haemorrhage. Funded by the Netherlands Heart Foundation	248,254.80	2007	Completed
Enlargement of small unruptured intracranial aneurysms: relation with configuration of parent vessels and position and shape of the aneurysm.	212,935.60	2007	Completed
Searching for new candidate genes for intracranial aneurysms using a genome wide association study”	237,439.78	2009	Completed
Intracranial aneurysms: identifying the ones at risk	300,00000	2009	Completed
Induced hypertension for treatment of delayed cerebral ischaemia after aneurysmal subarachnoid haemorrhage.	243.160,62	2009	completed
<i>Subtotal</i>			