

Titia K. Sixma

Curriculum Vitae

Name Titia K. Sixma

Date of Birth 23 March 1962, Utrecht, The Netherlands

Marital status Married, two children (1994, 1997)

Current Address Division of Molecular Carcinogenesis,
Netherlands Cancer Institute
Plesmanlaan 121,
1066 CX Amsterdam,
The Netherlands

University University Utrecht, Chemistry June 30, 1987

Ph.D. University Groningen, Chemistry July 10, 1992
Promotor: Prof. Dr. W. G. J. Hol
Title: *The three-dimensional structure of Escherichia coli heat-labile enterotoxin, in relation to its function*

Post-doc Yale University 1992-1994
Supervisor: Prof. Dr. P.B. Sigler

Present Position Netherlands Cancer Institute 1994-present
Group leader
Erasmus University Rotterdam 2004-present
Professor of Structural Biology
Section leader 2008-present

Sabbatical Leave Stanford University 2004-2005
Sponsor : Prof. P.K.Jackson

Honours, Stipends NWO Talent program stipend (1992)
Prize: Netherlands Society for Biochemistry and Molecular Biology (NVBMB) (1994)
Pionier award (2002)
Member of Center for Biomedical Genetics (2004-)
Fulbright Senior Fellowship (2004)
EMBO Member (since 2004)
Member Academiae Europaea (since 2008)
Member Royal Netherlands Academy of Sciences (KNAW) (since 2008)

Research theme: **Structure/function relations of proteins involved in cell cycle, transmembrane signal transduction and the maintenance of DNA-integrity studied by X-ray crystallography.**

Advisory activities Member of the Committee for Biochemistry and Biophysics (CBB) of the Royal Dutch Academy of Sciences (KNAW), 2000-2007
Member contact commission for EMBL/EMBC, 2004-present
Member H.P Heineken prize committee, 2002-2006
Scientific advisory board Pepsan, 2002-present
Advisory committee scientific director NKI (BVO), 2004-2008
Scientific Advisory Committee EMBL 2007-2009
Scientific Advisory Committee EBI-MSD 2008-2010

Organization Board member: Netherlands Association for Crystallography (NVK)
Board of the studysection on proteins of NWO-CW, 2002-2005
Dean of graduate school Oncology Amsterdam, 2003-present
Co-organization EMBO course 2004, NVK protein section meetings, organization CW-studysection proteins annual meeting 2003, CBG meeting 2004, 2006

Scientific reviewing Member of MX review panel ESRF Grenoble, 2005-2007
Site-visit Panel member 2003, 2005 Helmholtz Foundation, EMBL 2006,2007, 2008
Review Panel member NWO-CW, open competition, Top/Echo, 1999-2001, 2003, 2006, EMBO YIP panel (2007-2008);
Refereeing for Nature, Science, Cell, NSMB, Neuron, EMBO J., JBC, NAR etc. etc
Grant reviewing for NWO, Belgian, German, US, UK, Italian, Austrian, Swiss etc. grant organizations
ERC Advanced grant panel 2008

Teaching Organization of graduate school OOA: protein structure and function,
May 1996, October 2001, October 2006
Teaching in graduate school Biocentrum Amsterdam
May 1998, September 2000.
Organization and teaching of graduate school: Single crystal structure solution, NVK, October 1999.
Lecture in graduate schools: Neurobiology Amsterdam 2000, 2001, Developmental biology, Utrecht 2001, MGC, 2006,2007,2008
Lecture in undergraduate course Molecular Oncology NKI, 2001-2006, Leiden 2005,2006, Rotterdam, 2008
Teaching in Masters course, Free University Amsterdam 2002, 2003, 2005,2006
Dean of graduate studies 'Onderzoekschool Oncologie Amsterdam', OOA, March 2003-present, in charge of NKI graduate student program

External financing KWF-project NKI 96-1279 (1996-2000)
KWF-project NKI 99-2052 to T. K. Sixma and R. Bernards (2000-2003)
KWF-project NKI 2001-2479 to T.K. Sixma (2001-2005)
STW-project VBI-4568 to A.B. Smit and T. K. Sixma (1998-2001)
STW-project VBC-5540 to A.B. Smit and T.K. Sixma (2001-2002)
NWO-CW project JC, 348-210, to T.K. Sixma (1996-1998)
NWO-CW project 98016 to T. K. Sixma (2000-2004)
NWO-CW project JC, 99548 to T.K. Sixma (2000-2004)
NWO-MW project 901-02-223 to T.K. Sixma (1999-2003)
NWO-CW PIONIER 2002 to T. K. Sixma (2002-2007)
EU-SPINE project, IP, FP5 (2002-2005)
STW-project BBC 6035 to T. K. Sixma and A.B. Smit (2003-2007)
Center for Biomedical Genetics (2004-2009)
KWF- project NKI 2004-3084 to H. te Riele and T.K. Sixma (2004-2008)

Current funding Center for Biomedical Genetics (2009-2014)
KWF-project NKI 2006- to T.K. Sixma and M.v. Lohuizen (2006-2010)
KWF-project NKI 2008- to T.K.Sixma (2008-2012)
EU-3D-repertoire, IP, FP6, LSHG-CT-2005-512028, (2005-2009)
EU-Rubicon, NOE, FP6-2004-LIFESCIHEALTH-5 (2006-2010)

EU-Spine2complexes IP, FP6 (2006-2009)
 EU-Ubiregulators RTN, FP6-2004-mobility (2007-2010)
 EU-Neurocypres, IP, FP7 (2008-2012)
 EU-Mismatch2model, FP7, (2008-2012)
 Top-pharma, headed by A.B. Smit (2006-2010)

Group composition	Name	Position	Origin	Originating from
	Pim van Dijk	Technician	Dutch	
	Herrie Winterwerp	Technician	Dutch	
	Alexader Fish	Post-doc	Israeli	PhD Haifa University
	Rick Hibbert	Post-doc	British	PhD Oxford University
	Prakash Rucktooa	Post-doc	Mauritian	PhD Lille University
	Mariano Stornaiuolo	Post-doc	Italian	PhD Napels University
	Mark Vargas	Ph.D. student	Dutch	Msc University of Amsterdam
	Alex Faesen	Ph.D. student	Dutch	Msc University of Eindhoven
	Annet Reumer	Ph.D. student	Dutch	Msc Free University
	Francesca Mattioli	Ph.D. student	Italian	Msc University of Pavia
	Judith Smit	Ph.D. student	Dutch	Msc Free University

Former group	Name	Position	When	Origin	Moved on to:
	Harry Tong	Post-Doc	1995-1997	Chinese	Beam-line scientist Argonne, USA
	Anastassis Perrakis	Post-Doc	1995-1997	Greek	Tenured principal investigator NKI
	Katjusa Brejc	Post-Doc	1997-2002	Slovenian	Staff scientist Cytokinetics, CA, USA
	Gertie v.Pouderoyen	Post-Doc	1995-1997	Dutch	Post-Doc Groningen University
	Meindert Lamers	Ph.D. student	1998-2003	Dutch	Post-Doc Berkeley, USA
	Luca Jovine	Post-Doc	1998-1999	Italian	PI Karolinska Institute, Sweden
	Stephan Watkins	Ph.D. student	2000-2002	American	Left science, USA
	Ganesh Natrajan	Ph.D. student	2000-2005	Indian	Post-Doc ESRF, Grenoble
	Patrick Celie	Post-Doc	2000-2005	Dutch	Post-Doc Perrakis lab, NKI
	David Egan	Post-Doc	2003-2004	Irish	HTP facility manager NKI
	Victor Rucker	Post-Doc	2003	American	Scientist at Gilead, USA
	Valerie Notenboom	Post-Doc	2001-2006	Dutch	Staff scientist, Organon, Oss
	Puck Knipscheer	Ph.D. student	1999-2007	Dutch	Post-Doc, Harvard University
	Sari van Rossum	Technician	2000-2007	Dutch	Technician, ErasmusMC
	Joyce Lebbink	Post-doc	2002-2007	Dutch	Scientist, ErasmusMC
	Gretel Buchwald	Post-Doc	2002-2007	German	Post-doc MPI Martinsried, Germany
	Chris Ulens	Post-Doc	2004-2007	Belgian	PI, Leuven University, Belgium
	Andrea Alfierie	Post-doc	2008	Italian	PhD Pavia University

Guest	Name	Position	When	Origin	Moved on to:
	Herfried Eisler	Post-doc	2006-2008	Austrian	CNRS Strasbourg

Graduation Ph. D students

Meindert Lamers	2003	Cum Laude
Ganesh Natrajan	2006	
Puck Knipscheer	2007	Cum Laude

Active collaborations

AChBP

Guus Smit, VU, Amsterdam
 Iwan de Esch, Rob Leurs, Amsterdam
 Victor Tsetlin, Moscow, Russia
 Daniel Bertrand, Geneva, Switzerland

MutS

Joyce Lebbink, EUR, Rotterdam
 Claire Wyman, EUR, Rotterdam
 Niels de Wind, LUMC, Leiden
 Hein te Riele, NKI, Amsterdam
 Peter Friedhoff, Giessen University, Germany
 Martin Marinus, U. Mass, USA

Pablo Radicella, Paris, France
 Terence Strick, Paris, France
 Joseph Jiricny, Zurich
 Kim Sneppen, Copenhagen
SUMO Frauke Melchior, Gottingen, Germany
 Andrea Pichler, Vienna, Austria
 Matthias Mann, MPI, Martinsried, Germany
Ubiquitin Jan Hoeijmakers, Erasmus University, Rotterdam
 Willy Baarends, EUR Rotterdam
 Rolf Boelens, UU, Utrecht
 Peter Verrijzer, EUR, Rotterdam
 Maarten van Lohuizen, NKI, Amsterdam
 Huib Ovaa, Dave Egan, NKI, Amsterdam
 Ivan Dikic, Frankfurt, Germany
 Wim Vermeulen, EUR, Rotterdam

Invited seminars 2002-2007

2002

Skirball lecture, The Skirball institute, NYU, New York, February 2002.
Biophysical Society Meeting, San Francisco, February 2002.
British Crystallographic Association, Reading, March 2002.
XIth International Symposium on Cholinergic Mechanisms - Function and Dysfunction and 2nd Misrahi Symposium on Neurobiology St Moritz, Switzerland, May 2002.
Gordon Conference on Nucleic Acids, Rhode Island, June 2002.
First James Black Conference, Cambridge, July 2002.
International Union of Crystallography, Keynote speaker, Genève, August 2002.

2003

Minisymposium 'Receptor structure and function', Kopenhagen, May 2003.
College de France colloquium: Allosteric mechanisms of signal transduction, Paris, 16-17 June 2003.
Gordon Research Conference on Genetic Toxicology, Oxford, 10-15 August 2003.
International Society of Toxicology, Keynote speaker, Adelaide, Australia, September 2003.
Max Planck Institute for Biochemistry, Martinsried, Munich, 6 November 2003
EMBL 4th Ph.D symposium, Heidelberg, November 2003

2004 (most invitations declined, due to sabbatical)

Gordon conference on Ligand binding and molecular gating, Ventura Ca, February 2004
CBG symposium 'Structural Proteomics and Protein-Protein Interactions', Amsterdam, 3-4 June 2004
EMBO symposium 'Proteins in Biology' Heidelberg, November, 2004
UC San Francisco, San Francisco, CA, 30 november 2004

2005

UC Santa Cruz, Santa Cruz, CA, 12 Jan 2005
UC Berkeley, Berkeley, CA, 24 Jan 2005
FASEB Summer Research Conference on Ion channels, Snowmass Co, 4-9 Jun 2005
XX Congress of the International Union of Crystallography, Florence, Italy, 23-31 August 2005
Of Receptors and Synapses; Mini-Symposium in Honor of Prof. F. Hucho, Berlin, 8-9 September 2005
Royal Society of Chemistry 'Responses to DNA Damage: Insights from Chemical, Biochemical, Structural Biology and Cellular Studies', Brighton, UK, 19-21 september 2005
EMBO meeting, Frontiers of Molecular Biology, Warsaw, Poland, 14-18 October 2005

2006

Spring meeting: The Control of Protein Function Cologne, 1-3 March 2006
DNA Repair: from Molecular Mechanism to Human Disease, Noordwijkerhout, The Netherlands, April 2-7, 2006
Shanghai International Conference on Ubiquitin and Cancer, Shanghai, China, May 1-5, 2006
Methods in Protein Structural Analysis 2006 meeting, Lille, 29 Aug-1 Sept 2006

- Cancer Research UK*, Clare Hall, London, November 16, 2006
- 2007
- Max Planck Institute for Medical Research, Heidelberg, May 2007*
 - Regulation of protein function by SUMO modification, Keynote lecture Manchester, June 2007*
 - ECM 24, Marrakech, August 2007*
 - Tribute to Jean-Pierre Changeux, Paris, September 2007*
 - Molecular Life Sciences 2007 conference Hamburg, September 2007*
 - The Murnau Conference 2007, September 2007*
 - Ubiquitin and Ubiquitin-like modifiers in cellular regulation, EMBO/Rubicon meeting, September 2007*
- 2008
- PACT symposium, Amsterdam, March 2008*
 - Aspet meeting, Experimental Biology 2008, San Diego, April 2008*
 - UCSD, April 2008*
 - EMBO course, Grenoble, June 2008*
 - IIMCB, Warsaw, October 2008*
 - London Research Institute, November 2008*
- 2009
- FMI jan 2009*
 - DNA damage respons workshop Egmond aan Zee, Mar 2009*
 - The Ubiquitin Family, Cold Spring Harbor, April 2009*
 - DNA Repair, ASM meeting, Wisthler, May 2009*
 - Membranes and Modules, Berlin, Dec 2009*