

Univ.-Prof. Dr. rer. nat. Wolfram Antonin
Institute of Biochemistry and Molecular Cell Biology

Personal Data

Name: Univ.-Prof. Dr. rer. nat. Wolfram Antonin
Address: Institute of Biochemistry and Molecular Cell Biology
RWTH Aachen University
Pauwelsstrasse 30
D-52074 Aachen
Date and place of birth: September 26, 1972 in Bad Nauheim, Germany

Academic Qualification

2017 W3 Professor for Biochemistry, RWTH Aachen University
2013 Habilitation in Cell Biology at the Eberhard Karls University Tübingen,
2001 Doctor of Natural Sciences, University of Hannover; grade: summa cum laude
1994 Diploma in Biochemistry, University of Hannover; grade: sehr gut

Professional Career

Since 2017 W3 Professor for Biochemistry and head of the Institute of Biochemistry and
Molecular Cell Biology, RWTH Aachen University
2006-2017 Independent Max Planck research group leader at the Friedrich Miescher
Laboratory of the Max Planck Society (W2, associate professor level, Oct
2015-Jan 2017 as an Heisenberg fellow) in Tübingen
2005-2006 Staff scientist at the European Molecular Biological Laboratory (EMBL) in
Heidelberg
2002-2005 Postdoctoral fellow at the European Molecular Biology Laboratory (EMBL) in
Heidelberg in the group of Dr. Iain Mattaj
2001 Research associate at the Max Planck Institute for Biophysical Chemistry in
Göttingen in the group of Prof. Reinhard Jahn
1997-2001 PhD student at the Max Planck Institute for Biophysical Chemistry in Göttingen
in the group of Prof. Reinhard Jahn
1992-1997 Undergraduate student in Biochemistry, University of Hannover

Awards and Fellowships

2015-2017 Heisenberg fellowship of the DFG
2005-2010 Member of the Young Academy at the Berlin-Brandenburg Academy of
Sciences and Humanities and the German Academy of Natural Scientists
Leopoldina
2004-2005 Postdoctoral fellowship of the Ernst Schering Foundation
2002-2003 EMBO long-term fellowship
2002-2003 Research fellowship of the German Research Foundation (DFG, not accepted
due to parallel funding from EMBO)
2002 Otto Hahn Medal of the Max Planck Society for outstanding scientific
achievement
1992-1997 Scholarship of the German National Academic Foundation (Studienstiftung des
Deutschen Volkes)

Memberships

American Society for Cell Biology (ASCB), American Society for Biochemistry and Molecular
Biology (ASBMB), German Society for Biochemistry and Molecular Biology (GBM), German
Society for Cell Biology (DGZ)

Community duties

Reviewer for scientific journals: BioEssays, Cell Research, Current Biology, Current Opinion
in Cell Biology, Development, Developmental Cell, elife, EMBO Journal, EMBO Reports,

European Journal of Cell Biology, FEBS letters, Journal of Cell Biology, Journal of Cell Science, Journal of Membrane Biology, Journal of Molecular Biology, Journal of Visualized Experiments, Molecular Biology of the Cell, Molecular Cell, Nature, Nature Cell Biology, Nature Communications, Nature Structural & Molecular Biology, Nucleus, PLOS One, PNAS, Scientific Reports, Structure.

Reviewer for funding bodies: Austrian Academy of Sciences, Austrian Science Fund, Baden-Württemberg Stiftung, Biotechnology and Biological Sciences Research Council (BBSRC), Boehringer Ingelheim Fonds, Deutsche Krebshilfe, German Research Foundation (DFG), Dystonia Medical Research Foundation, Ernst Schering Foundation, European Research Council (ERC), European Commission/Research Executive Agency, Fondation pour la Recherche Médicale (FRM), Alexander von Humboldt Foundation, Israel Science Foundation (ISF), German National Academic Foundation, Medical Research Council (MRC), National Institutes of Health (NIH), National Science Foundation (NSF), Swiss National Science Foundation (SNF), The French National Research Agency (ANR), The Wellcome Trust.

Selected Third Party Funding of the last 5 Years

2013-2018 ERC starting grant: CHROMDECAN, 1,498,728 Euro
2015-2017 AN377/3-2 (Sachbeihilfe) from the German Research Foundation (DFG): RuvB-like ATPases in chromatin decondensation at the end of mitosis, 201,400 Euro
2015-2017 Heisenberg fellowship of the DFG (AN377/6-1)
2017-2020 AN377/7-1 (Sachbeihilfe) from the German Research Foundation (DFG): Interphase nuclear pore complex assembly, 345,910 Euro
2019-2021 AN377/3-3 (Sachbeihilfe) from the German Research Foundation (DFG): RuvBL1/2 function in mitotic chromatin decondensation, 355,350 Euro

Publication Record

H-Index: 37, 43 peer-reviewed original publications, 14 reviews

10 most important publications

De Magistris P, Tatarek-Nossol M, Dewor M, **Antonin W.** (2018). A self-inhibitory interaction within Nup155 and membrane binding are required for nuclear pore complex formation. *J Cell Sci* 131, doi: 10.1242/jcs.208538

Braun DA, Sadowski CE, Kohl S, Lovric S, Astrinidis SA, Pabst WL, Gee HY, Ashraf S, Lawson JA, Shril S, Airik M, Tan W, Schapiro D, Rao J, Choi WI, Hermle T, Kemper MJ, Pohl M, Ozaltin F, Konrad M, Bogdanovic R, Büscher R, Helmchen U, Serdaroglu E, Lifton RP, **Antonin W**, Hildebrand F (2016). Mutations in nuclear pore genes NUP93, NUP205 and XPO5 cause steroid-resistant nephrotic syndrome. *Nat Genet* 48, 457-465.

Vollmer B, Lorenz M, Moreno-Andres D, Bodenhofer M, De Magistris P, Astrinidis SA, Schooley A, Flotenmeyer M, Leptihn S, **Antonin, W** (2015). Nup153 Recruits the Nup107-160 Complex to the Inner Nuclear Membrane for Interphasic Nuclear Pore Complex Assembly. *Dev Cell* 33, 717-728.

Magalska A, Schellhaus K, Moreno-Andres D, Zanini F, Schooley A, Sachdev R, Schwarz H, Madlung J, **Antonin W** (2014). RuvB-like ATPases function in chromatin decondensation at the end of mitosis. *Dev Cell* 31, 305-318.

Eisenhardt N, Redolfi J, **Antonin W** (2014). Interaction of Nup53 with Ndc1 and Nup155 is required for nuclear pore complex assembly. *J Cell Sci* 127, 908-21.

Vollmer B, Schooley A, Sachdev R, Eisenhardt N, Schneider AM, Sieverding C, Madlung J, Gerken U, Macek B, **Antonin W** (2012). Dimerization and direct membrane interaction of Nup53 contribute to nuclear pore complex assembly. *Embo J* 31, 4072-84.

Theerthagiri G, Eisenhardt N, Schwarz H, **Antonin W** (2010). The nucleoporin Nup188 controls passage of membrane proteins across the nuclear pore complex. *J Cell Biol* 189, 1129-1142.

Franz C, Walczak R, Yavuz S, Santarella R, Gentzel M, Askjaer P, Galy V, Hetzer M, Mattaj IW, **Antonin W** (2007). MEL-28/ELYS is required for the recruitment of nucleoporins to chromatin and postmitotic nuclear pore complex assembly. *EMBO Rep* 8, 165-172.

Mansfeld J, Guttinger S, Hawryluk-Gara LA, Pante N, Mall M, Galy V, Haselmann U, Muhlhauser P, Wozniak RW, Mattaj IW, Kutay U, **Antonin W** (2006). The conserved transmembrane nucleoporin NDC1 is required for nuclear pore complex assembly in vertebrate cells. *Mol Cell* 22, 93-103.

Antonin W, Franz C, Haselmann U, Antony C, Mattaj IW (2005). The integral membrane nucleoporin pom121 functionally links nuclear pore complex assembly and nuclear envelope formation. *Mol Cell* 17, 83-92.