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

Personal Data	
Name:	UnivProf. Dr. rer. nat. Wolfram Antonin
	ORCID 0000-0003-4669-379X, ResearcherID: A-8656-2014
Address:	Institute of Biochemistry and Molecular Cell Biology
	RWTH Aachen University
	Pauwelsstrasse 30
	D-52074 Aachen
	www.molcellbiol.ukaachen.de
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
1997	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)

Institutional responsibilities

2018-	Member of commissions (recruitment for clinical and pre-clinical professorships, Studienbeitragsersatzmittel/Qualitätsverbesserungsmittel in der Lehre, Bibliothekskommision, Kommssion für Chancengerechtigkeit) at Medical Faculty, RWTH Aachen University
2017-	Faculty member Biomedical Graduate School Aachen
2017-	Faculty member, Medical Faculty, RWTH Aachen University
2011-2017	Faculty member of the international Max Planck Research School "From Molecules to Organisms"
2007-2008	Organizer of the Institute Seminar for External Speakers, Max Planck Institute for Developmental Biology and the Friedrich Miescher Laboratory
2006-2016	Organizer of the Institute Seminar for Graduate Students and Postdocs, Max Planck Institute for Developmental Biology and the Friedrich Miescher Laboratory
2006-2017	Faculty member of the international PhD programme of the Max Planck Institute for Developmental Biology and the Friedrich Miescher Laboratory, Tübingen, 2012-2016 as programme committee member
2004-	Member of several PhD advisory committees at EMBL Heidelberg, University Tübingen, ETH Zurich and the RWTH Aachen

Teaching activities

- 2017- Full professor for Biochemistry, RWTH Aachen University. Various courses for medical, biotechnology and biology students (BSc and MSc level)
- 2012 Summer school "Membrane Biochemistry" of the German National Academic Foundation
- 2006-2017 Lectures and practical courses in Biology, Biochemistry and Cell Biology (BSc and MSc level), University Tübingen

Organization of scientific meetings

- 2011 Co-organizer, BRIGFOS (British-German Frontiers of Science) meeting, Chicheley Hall near London, UK.
- 2010 Organizer, interdisciplinary meeting "Between Nations and Disciplines", Berlin, Germany.
- 2009 Organizer, Scientific Symposium "Forty years of the Friedrich Miescher Laboratory", Tübingen, Germany.

Other community duties

Editorial Board Member for Cells

"Ambassador" at RWTH Aachen for the American Society for Cell Biology (ASCB) and German Society for Biochemistry and Molecular Biology (GBM)

Vertrauensdozent for the German National Academic Foundation (Studienstiftung des Deutschen Volkes), Member of the Selection Committee of the German National Academic Foundation

<u>Reviewer for scientific journals</u>: BioEssays, Cell Research, Cells, 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, Science, Science Advances, Scientific Reports, Structure.

<u>Reviewer for funding bodies:</u> 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, Human Frontier Science Program (HFSP), Israel Science Foundation (ISF), German National Academic Foundation, Medical Research Council (MRC), National Institutes of Health (NIH), National Science Foundation (NSF), Netherlands Organization for Scientific Research (NOW), 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: CHROMDECON, 1,498,728 Euro
- 2018-2022 AN377/7-1 (Sachbeihilfe) from the German Research Foundation (DFG): Interphase nuclear pore complex assembly, 363,806 Euro
- 2020-2023 AN377/3-3 (Sachbeihilfe) from the German Research Foundation (DFG): RuvBL1/2 function in mitotic chromatin decondensation, 429,517 Euro
- 2021-2024 AN377/11-1 (project within CRU 5011 InteraKD) from the German Research Foundation (DFG): Altered cellular compartmentalization as a potential pathomechanism driving CKD, 297,900 Euro
- 2023-2026 AN377/12-1 (Sachbeihilfe) from the German Research Foundation (DFG): VPS72/YL1 function in nuclear re-assembly, 512,326 Euro

Outreach and additional activities

Mentor for EICOS (European Initiative for Communicators of Science)

Organizing "hands on experiments" as open day events at EMBL and the Friedrich Miescher Laboratory, lab experiments for school and kindergarten classes

Laboratory and institute tours for the "Deutsche Jungforscher Netzwerk" (juFORUM).

Publication Record

H-Index: 42, 48 peer-reviewed original publications, 20 reviews

10 most important publications

- Amm, I., A. Hellwig, J. Schwarz, M. Tatarek-Nossol, C. Lüchtenborg, M. Kallas, B. Brügger, and Antonin,
 W. (2023). Distinct domains in Ndc1 mediate its interaction with the Nup84 complex and the nuclear membrane. J Cell Biol. doi: 10.1083/jcb.202210059.
- Holzer, G., P. De Magistris, C. Gramminger, R. Sachdev, A. Magalska, A. Schooley, A. Scheufen, B. Lennartz, M. Tatarek-Nossol, H. Lue, M.I. Linder, U. Kutay, C. Preisinger, D. Moreno-Andres, and Antonin, W. (2021). The nucleoporin Nup50 activates the Ran guanine nucleotide exchange factor RCC1 to promote NPC assembly at the end of mitosis. <u>EMBO J</u>. 40:e108788.
- 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. <u>Dev Cell</u> 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. <u>Dev Cell</u> 31, 305-318.
- 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. <u>EMBO J</u> 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. <u>EMBO Rep</u> 8, 165-172.

- Mansfeld J, Guttinger S, Hawryluk-Gara LA, Pante N, Mall M, Galy V, Haselmann U, Muhlhausser 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. <u>Mol Cell</u> 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. <u>Mol</u> <u>Cell</u> 17, 83-92.