

Morkos Henen, Ph.D.

CURRICULUM VITAE

Assistant Research Professor, University of Colorado, Anschutz Medical Campus.
Ph.D., Vienna University, Austria. PI - NIH funding & study section reviewer.

PERSONAL DATA

Name: Morkos Henen

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EDUCATION

Doctorate **December 2012**

Ph.D. Molecular Biology - University of Vienna, Max F. Perutz Laboratories - Austria

✓ *Graduated with "sehr gut" highest degree honors within Austrian doctoral system*

Graduate **January 2008**

MS.C. Pharmaceutical Chemistry - Mansoura University, Faculty of Pharmacy - Egypt

Undergraduate **May 2000**

BS.C Pharmaceutical Sciences - Mansoura University, Faculty of Pharmacy - Egypt

EXPERIENCE & FACULTY APPOINTMENTS

Assistant Research Professor **April 2018 - Present**

Department of Biochemistry & Molecular Genetics, School of Medicine

University of Colorado - USA

➤ **Director** (March 2023 - Present)

Biophysics & Spectroscopy Course - Structural Biology & Biochemistry Ph.D. Program

➤ **Director** (March 2023 - Present)

Cell Biology Foundation - Biomedical Sciences Master's Program

Senior Postdoctoral Fellow **May 2017 - April 2018**

Department of Biochemistry & Molecular Genetics, School of Medicine

University of Colorado - USA

Lecturer **October 2016 - April 2017**

Faculty of Pharmacy

Mansoura University - Egypt

Joint NIH Funded Postdoctoral Fellowship **January 2015 - September 2016**

Health Science Center & School of Medicine

University of Texas & University of Pittsburgh - USA

Marie Curie Postdoctoral Fellow **January 2013 - December 2014**

French Center of National Research

University of Lille - France

<u>Ph.D. Fellowship</u>	October 2009 - December 2012
University of Vienna - Austria	
<u>Associate Lecturer</u>	October 2000 - September 2009
Faculty of Pharmacy	
Mansoura University - Egypt	

FUNDING

<u>NIH Grant - National Institute of Allergy & Infectious Diseases</u>	\$275K
➤ PI	
<u>European Union Grant - Marie Curie Actions & Lead Discovery Center</u>	€2M
➤ Member	
<u>Grant - Austrian Agency for International Mobility (OeAD)</u>	\$30K
➤ Ph.D Fellow	

TEACHING EXPERIENCE

University of Colorado, School of Medicine	<i>2023 – Present</i>
Biophysics & Spectroscopic Techniques Course in Structural Biology Graduate Program	
University of Colorado, School of Medicine	<i>2020 – Present</i>
Cell-biology Course in Biomedical Sciences & Biotechnology Graduate Program	
University of Colorado, School of Medicine	<i>2019 – Present</i>
Foundational Course in Biomedical Sciences & Biotechnology Graduate Program	
University of Colorado, School of Medicine	<i>2019 – Present</i>
Nuclear Magnetic Resonance Course for Structural Biology Graduate Students	

EDITORIAL REVIEW

Reviewer, NIH- The Drug Discovery and Molecular Pharmacology A (DMPA) study section	<i>2023</i>
Guest Editor, MDPI Scientific Publishing House - Switzerland	<i>2022-Present</i>
➤ Journal Topic: Structural Techniques in Drug Discovery	
Reviewer, <i>Molecules</i>	<i>2017 - Present</i>
Reviewer, <i>IJMS</i>	<i>2017 - Present</i>
Reviewer, <i>Magnetochemistry</i>	<i>2017 - Present</i>
Reviewer, <i>Nature</i> - U.K.	<i>2018</i>

SERVICE TO COMMUNITY

Mentor - 10 Undergraduate & Post Graduate Students	<i>2017 – Present</i>
Member & Presenter– Project Bridge-Colorado	<i>2018 – Present</i>
➤ Communicating Science to public, the impact of research science in Colorado	

MEMBERSHIP & LEADERSHIP

Member, Curriculum Committee-Structural Biology Program	2023 - Present
Member, University of Colorado Cancer Center	2017 - Present
Member, National Post-Doctoral Association	2017 - Present
Member, Max F. Perutz Alumni Association	2009 - Present
Member, Gates Internship (GSIP) Selection Committee	2018
Member, Undergraduate Research Program (GEMS) Selection Committee	2018
Judge, The Research & Creative Activities Symposium (RaCAS)	2018
Member, Structural Biology & Biochemistry Program	2018

AREAS OF EXPERTISE

Nuclear Magnetic Resonance (NMR) | Biophysics (ITC, MST & SPR)
Structural & Molecular Biology | Pharmaceutical Chemistry
Drug Discovery | Leadership & Mentorship

PRESENTATIONS

- 1- International Conference on Magnetic Resonance in Biological Systems (ICMRBS), **Lyon, France**, 19-24th August 2012. **Poster presentation.**
- 2- Magnetic Moments in Central Europe (MMCE), **Slovakia**, March 2011 & **Semmering, Austria**, March 2013. **Talk & poster presentation.**
- 3- International Symposium on Cyclophilins and other Foldases: Cell Signaling Catalysts and Drug Targets, **Halle, Germany**, 19-22nd September 2013. **Poster presentation.**
- 4- Using NMR Spectroscopy and Other Biophysical Methods to Study Protein-Ligand Interactions, Bio-NMR Workshop, Wolfson College, **Oxford, UK**, 7-9th July 2014. **Poster presentation.**
- 5- International Conference on Magnetic Resonance in Biological Systems (ICMRBS), **Dallas, USA**, 24-29th August 2014. **Invited Speaker.**
- 6- Annual Retreat, Department of Biochemistry, University of Texas, Health Science Center, San Antonio, Texas, USA, 20th May 2015. **Poster Presentation Award.**
- 7- Biophysical Society Meeting, **Los Angeles, USA**, 27th Feb-2nd March 2016. **Poster Presentation**
- 8- Experimental Nuclear Magnetic Resonance Conference (ENC), **Pittsburgh, USA**, 10-15th April 2016. **Poster Presentation.**
- 9- Colorado Science Day, Colorado State Capitol, **Denver, USA**, 19th January 2018. **Poster Presentation.**
- 10- Post-Doctoral Office Monthly Meeting, Anschutz Medical Campus, **Aurora, USA**, 18th January 2018. **Talk.**
- 11- Experimental Nuclear Magnetic Resonance Conference (ENC), **Florida, USA**, 29th April- 4th May- 2018. **Poster Presentation.**
- 12- University of Colorado, Structural Biology Retreat, 2nd-3rd May 2018, **Breckenridge, USA.** **Invited Speaker.**

- 13- International Conference on Magnetic Resonance in Biological Systems (ICMRBS), **Dublin, Ireland**, 19-24th August 2018. **Poster Presentation.**
- 14- EUROISMAR 2019 conference, **Berlin, Germany**, 24-30th August 2019. **Poster Presentation.**
- 15- International Conference on Magnetic Resonance in Biological Systems (ICMRBS), **Boston, USA**, 19-24th August 2022. **Poster Presentation.**
- 16- University of Colorado, Structural Biology Retreat, 2nd-3rd May 2022, Breckenridge, USA. **Invited Speaker.**

REFERENCES

- 1- **Prof. Robert Konrat:** Department of Structural & Computational Biology, Vienna Biocenter 5, 1030, Vienna, Austria. Robert.Konrat@univie.ac.at
- 2- **Prof. Yiqun Shellman:** Department of Dermatology, University of Colorado, Denver, USA. yiqun.shellman@cuanschutz.edu
- 3- **Dr. Isabelle Landrieu:** Unit of Structural and Functional Glycobiology, Institute de Recherches interdisciplinaires. 50, Avenue Halley - BP 70478 VILLENEUVE D'ASCQ CEDEX, 59658, France. Isabelle.landrieu@univ-lille1.fr
- 4- **Prof. Sean Colgan:** Department of Medicine, School of Medicine, University of Colorado, Denver, USA. sean.colgan@cuanschutz.edu
- 5- **Prof. Beat Vögeli:** Department of Biochemistry and Molecular Genetics, School of Medicine, University of Colorado, Denver, USA. beat.vogeli@cuanschutz.edu

SCHOLARLY PUBLICATIONS

*: 1ST AUTHOR
#: CORRES.
AUTHOR.

- 1- **Henen MA***, Paukovich, N., Prekeris, R., & Vögeli, B. [Solution NMR Backbone Assignment of the C-Terminal Region of Human Dynein Light Intermediate Chain 2 \(LIC2-C\) Unveils Structural Resemblance with Its Homologue LIC1-C.](#) Magnetochemistry 2023 9(7), 166. <https://doi.org/10.3390/MAGNETOCHEMISTRY9070166>
- 2- Pacheco A, Issaian A, Davis J, Anderson N, Nemkov T, Paukovich N, **Henen MA**, Vögeli B, Sikela JM, Hansen K. [Proteolytic activation of human-specific Olduvai domains by the furin protease.](#) Int J Biol Macromol. 2023 Apr 15;234:123041. doi: 10.1016/j.ijbiomac.2022.12.260. Epub 2022 Dec 26. PubMed PMID: 36581038; PubMed Central PMCID: PMC10038901.
- 3- Langeberg CJ, Nichols PJ, **Henen MA**, Vicens Q, Vögeli B. [Differential Structural Features of Two Mutant ADAR1p150 \$\alpha\$ Domains Associated with Aicardi-Goutières Syndrome.](#) J Mol Biol. 2023 Apr 15;435(8):168040. doi: 10.1016/j.jmb.2023.168040. Epub 2023 Mar 7. PubMed PMID: 36889460; NIHMSID:NIHMS1881400.
- 4- Nichols PJ, Krall JB, **Henen MA**, Vögeli B, Vicens Q. [Z-RNA biology: a central role in the innate immune response?](#) RNA. 2023 Mar;29(3):273-281. doi: 10.1261/rna.079429.122. Epub 2023 Jan 3. Review. PubMed PMID: 36596670; PubMed Central PMCID: PMC9945438.

- 5- De Silva SM, Dhiman A, Sood S, Mercedes KF, Simmons WJ, **Henen MA**, Vögeli B, Dykhuizen EC, Musselman CA. [PBRM1 bromodomains associate with RNA to facilitate chromatin association](#). *Nucleic Acids Res.* 2023 Feb 20;. doi: 10.1093/nar/gkad072. [Epub ahead of print] PubMed PMID: 36808431.
- 6- Krall JB, Nichols PJ, **Henen MA**, Vicens Q, Vögeli B. [Structure and Formation of Z-DNA and Z-RNA](#). *Molecules.* 2023 Jan 14;28(2). doi: 10.3390/molecules28020843. Review. PubMed PMID: 36677900; PubMed Central PMCID: PMC9867160.
- 7- Clements CM, Vögeli B, Shellman YG, **Henen MA**[#]. [SAM1 domain of SASH1 harbors distinctive structural heterogeneity](#). *J Struct Biol.* 2022 Dec;214(4):107914. doi: 10.1016/j.jsb.2022.107914. Epub 2022 Oct 29. PubMed PMID: 36341956; PubMed Central PMCID: PMC9733425.
- 8- Born A, Soetbeer J, **Henen MA**, Breitgoff F, Polyhach Y, Jeschke G, Vögeli B. [Ligand-specific conformational change drives interdomain allostery in Pin1](#). *Nat Commun.* 2022 Aug 4;13(1):4546. doi: 10.1038/s41467-022-32340-x. PubMed PMID: 35927276; PubMed Central PMCID: PMC9352728.
- 9- Kim JS, Born A, Till JKA, Liu L, Kant S, **Henen MA**, Vögeli B, Vázquez-Torres A. [Promiscuity of response regulators for thioredoxin steers bacterial virulence](#). *Nat Commun.* 2022 Oct 20;13(1):6210. doi: 10.1038/s41467-022-33983-6. PubMed PMID: 36266276; PubMed Central PMCID: PMC9584953.
- 10- El-Khouly OA, **Henen MA**[#], El-Sayed MA, El-Messery SM. [Design, synthesis and computational study of new benzofuran hybrids as dual PI3K/VEGFR2 inhibitors targeting cancer](#). *Sci Rep.* 2022 Oct 12;12(1):17104. doi: 10.1038/s41598-022-21277-2. PubMed PMID: 36224254; PubMed Central PMCID: PMC9556824.
- 11- Hussain A, Paukovich N, **Henen MA**, Vögeli B. [Advances in the exact nuclear Overhauser effect 2018-2022](#). *Methods.* 2022 Oct;206:87-98. doi: 10.1016/j.ymeth.2022.08.006. Epub 2022 Aug 17. Review. PubMed PMID: 35985641; PubMed Central PMCID: PMC9596134.
- 12- Nashaat S, **Henen MA**[#], El-Messery SM, Eisa H. [New Benzimidazoles Targeting Breast Cancer: Synthesis, Pin1 Inhibition, 2D NMR Binding, and Computational Studies](#). *Molecules.* 2022 Aug 17;27(16). doi: 10.3390/molecules27165245. PubMed PMID: 36014485; PubMed Central PMCID: PMC9414874.
- 13- Born A, **Henen MA**, Nichols PJ, Vögeli B. [On the use of residual dipolar couplings in multi-state structure calculation of two-domain proteins](#). *Magn Reson Lett.* 2022 May;2(2):61-68. doi: 10.1016/j.mrl.2021.10.003. Epub 2021 Nov 2. PubMed PMID: 35734611; PubMed Central PMCID: PMC9210859.
- 14- Paukovich N, **Henen MA**, Hussain A, Issaian A, Sikela JM, Hansen KC, Vögeli B. [Solution NMR backbone assignments of disordered Olduvai protein domain CON1 employing H \$\alpha\$ -detected experiments](#). *Biomol NMR Assign.* 2022 Apr;16(1):113-119. doi: 10.1007/s12104-022-10068-5. Epub 2022 Jan 30. PubMed PMID: 35098449; PubMed Central PMCID: PMC9202364.
- 15- Born A, Soetbeer J, Breitgoff F, **Henen MA**, Sgourakis N, Polyhach Y, Nichols PJ, Strotz D, Jeschke G, Vögeli B. [Reconstruction of Coupled Intra- and Interdomain Protein Motion from Nuclear and Electron Magnetic Resonance](#). *J Am Chem*

Soc. 2021 Oct 6;143(39):16055-16067. doi: 10.1021/jacs.1c06289. Epub 2021 Sep 27. PubMed PMID: 34579531; PubMed Central PMCID: PMC9200428.

- 16- Nichols PJ, **Henen MA**, Vicens Q, Vögeli B. [Solution NMR backbone assignments of the N-terminal Z \$\alpha\$ -linker-Z \$\beta\$ segment from Homo sapiens ADAR1p150](#). *Biomol NMR Assign.* 2021 Oct;15(2):273-279. doi: 10.1007/s12104-021-10017-8. Epub 2021 Mar 19. PubMed PMID: 33742389; PubMed Central PMCID: PMC9199369.
- 17- Redzic JS, Lee E, Born A, Issaian A, **Henen MA**, Nichols PJ, Blue A, Hansen KC, D'Alessandro A, Vögeli B, Eisenmesser EZ. [The Inherent Dynamics and Interaction Sites of the SARS-CoV-2 Nucleocapsid N-Terminal Region](#). *J Mol Biol.* 2021 Jul 23;433(15):167108. doi: 10.1016/j.jmb.2021.167108. Epub 2021 Jun 20. PubMed PMID: 34161778; PubMed Central PMCID: PMC8214912.
- 18- Alexeev EE, Dowdell AS, **Henen MA***, Lanis JM, Lee JS, Cartwright IM, Schaefer REM, Ornelas A, Onyiah JC, Vögeli B, Colgan SP. [Microbial-derived indoles inhibit neutrophil myeloperoxidase to diminish bystander tissue damage](#). *FASEB J.* 2021 May;35(5):e21552. doi: 10.1096/fj.202100027R. PubMed PMID: 33826788; PubMed Central PMCID: PMC8078834.
- 19- Tengesdal IW, Menon DR, Osborne DG, Neff CP, Powers NE, Gamboni F, Mauro AG, D'Alessandro A, Stefanoni D, **Henen MA**, Mills TS, De Graaf DM, Azam T, Vogeli B, Palmer BE, Pietras EM, DeGregori J, Tan AC, Joosten LAB, Fujita M, Dinarello CA, Marchetti C. [Targeting tumor-derived NLRP3 reduces melanoma progression by limiting MDSCs expansion](#). *Proc Natl Acad Sci U S A.* 2021 Mar 9;118(10). doi: 10.1073/pnas.2000915118. PubMed PMID: 33649199; PubMed Central PMCID: PMC7958415.
- 20- **Henen MA***, Myers W, Schmitt LR, Wade KJ, Born A, Nichols PJ, Vögeli B. [The Disordered Spindly C-terminus Interacts with RZZ Subunits ROD-1 and ZWL-1 in the Kinetochore through the Same Sites in C. Elegans](#). *J Mol Biol.* 2021 Feb 19;433(4):166812. doi: 10.1016/j.jmb.2021.166812. Epub 2021 Jan 13. PubMed PMID: 33450249; PubMed Central PMCID: PMC7870574.
- 21- Nichols PJ, Bevers S, **Henen M**, Kieft JS, Vicens Q, Vögeli B. [Recognition of non-CpG repeats in Alu and ribosomal RNAs by the Z-RNA binding domain of ADAR1 induces A-Z junctions](#). *Nat Commun.* 2021 Feb 4;12(1):793. doi: 10.1038/s41467-021-21039-0. PubMed PMID: 33542240; PubMed Central PMCID: PMC7862695.
- 22- El-Khouly OA, **Henen MA#**, El-Sayed MA, Shabaan MI, El-Messery SM. [Synthesis, anticancer and antimicrobial evaluation of new benzofuran based derivatives: PI3K inhibition, quorum sensing and molecular modeling study](#). *Bioorg Med Chem.* 2021 Feb 1;31:115976. doi: 10.1016/j.bmc.2020.115976. Epub 2020 Dec 27. PubMed PMID: 33388654; PubMed Central PMCID: PMC7902087.
- 23- Wang RX, **Henen MA***, Lee JS, Vögeli B, Colgan SP. [Microbiota-derived butyrate is an endogenous HIF prolyl hydroxylase inhibitor](#). *Gut Microbes.* 2021 Jan-Dec;13(1):1938380. doi: 10.1080/19490976.2021.1938380. PubMed PMID: 34190032; PubMed Central PMCID: PMC8253137.
- 24- Nichols PJ, Born A, **Henen MA**, Strotz D, Jones DN, Delaglio F, Vögeli B. [Reducing the measurement time of exact NOEs by non-uniform sampling](#). *J Biomol NMR.* 2020 Dec;74(12):717-739. doi: 10.1007/s10858-020-00344-8. Epub 2020 Sep 3. PubMed PMID: 32880802; PubMed Central PMCID: PMC9204832.

- 25- Nashaat S, **Henen MA[#]**, El-Messery SM, Eisa H. [Synthesis, state-of-the-art NMR-binding and molecular modeling study of new benzimidazole core derivatives as Pin1 inhibitors: Targeting breast cancer.](#) Bioorg Med Chem. 2020 Jun 1;28(11):115495. doi: 10.1016/j.bmc.2020.115495. Epub 2020 Apr 11. PubMed PMID: 32307260; PubMed Central PMCID: PMC9793914.
- 26- **Henen MA^{*}**, Celestino R, Gama JB, Carvalho C, McCabe M, Barbosa DJ, Born A, Nichols PJ, Carvalho AX, Gassmann R, Vögeli B. [A transient helix in the disordered region of dynein light intermediate chain links the motor to structurally diverse adaptors for cargo transport.](#) PLoS Biol. 2019 Jan;17(1):e3000100. doi: 10.1371/journal.pbio.3000100. eCollection 2019 Jan. PubMed PMID: 30615611; PubMed Central PMCID: PMC6336354.
- 27- **Henen MA^{*}**, Mahlawat P, Zwieb C, Kodali RB, Hinck CS, Hanna RD, Krzysiak TC, Ilangovan U, Cano KE, Hinck G, Vonberg M, McCabe M, Hinck AP. [TGF- \$\beta\$ 2 uses the concave surface of its extended finger region to bind betaglycan's ZP domain via three residues specific to TGF- \$\beta\$ and inhibin- \$\alpha\$.](#) J Biol Chem. 2019 Mar 1;294(9):3065-3080. doi: 10.1074/jbc.RA118.005210. Epub 2018 Dec 31. PubMed PMID: 30598510; PubMed Central PMCID: PMC6398128
- 28- Born A, **Henen MA**, Vögeli B. [Activity and Affinity of Pin1 Variants.](#) Molecules. 2019 Dec 20;25(1). doi: 10.3390/molecules25010036. Review. PubMed PMID: 31861908; PubMed Central PMCID: PMC6983177.
- 29- Kim SK, **Henen MA**, Hinck AP. [Structural biology of betaglycan and endoglin, membrane-bound co-receptors of the TGF-beta family.](#) Exp Biol Med (Maywood). 2019 Dec;244(17):1547-1558. doi: 10.1177/1535370219881160. Epub 2019 Oct 10. Review. PubMed PMID: 31601110; PubMed Central PMCID: PMC6920675.
- 30- Issaian A, Schmitt L, Born A, Nichols PJ, Sikela J, Hansen K, Vögeli B, **Henen MA[#]**. [Solution NMR backbone assignment reveals interaction-free tumbling of human lineage-specific Olduvai protein domains.](#) Biomol NMR Assign. 2019 Oct;13(2):339-343. doi: 10.1007/s12104-019-09902-0. Epub 2019 Jul 1. PubMed PMID: 31264103; PubMed Central PMCID: PMC6715528.
- 31- Born A, Nichols PJ, **Henen MA**, Chi CN, Strotz D, Bayer P, Tate SI, Peng JW, Vögeli B. [Backbone and side-chain chemical shift assignments of full-length, apo, human Pin1, a phosphoprotein regulator with interdomain allostery.](#) Biomol NMR Assign. 2019 Apr;13(1):85-89. doi: 10.1007/s12104-018-9857-9. Epub 2018 Oct 23. PubMed PMID: 30353504; PubMed Central PMCID: PMC9205186.
- 32- Nichols PJ, **Henen MA**, Born A, Strotz D, Güntert P, Vögeli B. [High-resolution small RNA structures from exact nuclear Overhauser enhancement measurements without additional restraints.](#) Commun Biol. 2018;1:61. doi: 10.1038/s42003-018-0067-x. eCollection 2018. PubMed PMID: 30271943; PubMed Central PMCID: PMC6123705.
- 33- Born A, **Henen MA**, Nichols P, Wang J, Jones DN, Vögeli B. [Efficient Stereospecific H ^{\$\beta\$ 2/3} NMR Assignment Strategy for Mid-Size Proteins.](#) Magnetochemistry. 2018 Jun;4(2). doi: 10.3390/magnetochemistry4020025. Epub 2018 Jun 1. PubMed PMID: 31093488; PubMed Central PMCID: PMC6513325.

- 34- **Henen M***, Hamdi A, Farahat A, Massoud M. Understanding Chemistry and Unique NMR Characters of Novel Amide and Ester Leflunomide Analogues. *Magnetochemistry*. 2017 December; 3(4):41-41. doi: 10.3390/magnetochemistry3040041.
- 35- Nichols PJ, Born A, **Henen MA**, Strotz D, Orts J, Olsson S, Güntert P, Chi CN, Vögeli B. [The Exact Nuclear Overhauser Enhancement: Recent Advances](#). *Molecules*. 2017 Jul 14;22(7). doi: 10.3390/molecules22071176. Review. PubMed PMID: 28708092; PubMed Central PMCID: PMC6152122.
- 36- Villarreal MM, Kim SK, Barron L, Kodali R, Baardsnes J, Hinck CS, Krzysiak TC, **Henen MA**, Pakhomova O, Mendoza V, O'Connor-McCourt MD, Lafer EM, López-Casillas F, Hinck AP. [Binding Properties of the Transforming Growth Factor- \$\beta\$ Coreceptor Betaglycan: Proposed Mechanism for Potentiation of Receptor Complex Assembly and Signaling](#). *Biochemistry*. 2016 Dec 13;55(49):6880-6896. doi: 10.1021/acs.biochem.6b00566. Epub 2016 Dec 2. PubMed PMID: 27951653; PubMed Central PMCID: PMC5551644.
- 37- Byrne C, **Henen MA***, Belnou M, Cantrelle FX, Kamah A, Qi H, Giustiniani J, Chambraud B, Baulieu EE, Lippens G, Landrieu I, Jacquot Y. [A \$\beta\$ -Turn Motif in the Steroid Hormone Receptor's Ligand-Binding Domains Interacts with the Peptidyl-prolyl Isomerase \(PPIase\) Catalytic Site of the Immunophilin FKBP52](#). *Biochemistry*. 2016 Sep 27;55(38):5366-76. doi: 10.1021/acs.biochem.6b00506. Epub 2016 Sep 19. PubMed PMID: 27641460.
- 38- Milroy LG, Bartel M, **Henen MA**, Leysen S, Adriaans JM, Brunsveld L, Landrieu I, Ottmann C. [Stabilizer-Guided Inhibition of Protein-Protein Interactions](#). *Angew Chem Int Ed Engl*. 2015 Dec 21;54(52):15720-4. doi: 10.1002/anie.201507976. Epub 2015 Nov 5. PubMed PMID: 26537010.
- 39- Orbán-Németh Z, **Henen MA**, Geist L, Žerko S, Saxena S, Stanek J, Koźmiński W, Propst F, Konrat R. [Backbone and partial side chain assignment of the microtubule binding domain of the MAP1B light chain](#). *Biomol NMR Assign*. 2014 Apr;8(1):123-7. doi: 10.1007/s12104-013-9466-6. Epub 2013 Jan 22. PubMed PMID: 23339032; PubMed Central PMCID: PMC3955483.
- 40- Geist L, **Henen MA**, Haiderer S, Schwarz TC, Kurzbach D, Zawadzka-Kazimierczuk A, Saxena S, Zerko S, Koźmiński W, Hinderberger D, Konrat R. [Protonation-dependent conformational variability of intrinsically disordered proteins](#). *Protein Sci*. 2013 Sep;22(9):1196-205. doi: 10.1002/pro.2304. PubMed PMID: 23821606; PubMed Central PMCID: PMC3776332.
- 41- Kurzbach D, Platzer G, Schwarz TC, **Henen MA**, Konrat R, Hinderberger D. [Cooperative unfolding of compact conformations of the intrinsically disordered protein osteopontin](#). *Biochemistry*. 2013 Aug 6;52(31):5167-75. doi: 10.1021/bi400502c. Epub 2013 Jul 24. PubMed PMID: 23848319; PubMed Central PMCID: PMC3737600.
- 42- **Henen MA***, El-Bialy S, Goda F, Nasr M, Eisa H. [1,2,4]Triazolo[4,3-a]quinoxaline: Synthesis, antiviral, and antimicrobial activities. *Medicinal chemistry research: an international journal for rapid communications on design and mechanisms of action of biologically active agents*. 2011 August; 21:2368. doi: 10.1007/s00044-011-9753-7.

43- **Henen MA***, Coudeville N, Geist L, Konrat R. [Toward rational fragment-based lead design without 3D structures.](#) J Med Chem. 2012 Sep 13;55(17):7909-19. doi: 10.1021/jm301016m. Epub 2012 Aug 30. PubMed PMID: 22889313; PubMed Central PMCID: PMC3557921.