
CURRICULUM VITAE

NAME	POSITION TITLE
Dana Reichmann	Associate Professor

EDUCATION & TRAINING: List in reverse chronological order each degree program, postdoctoral research experience, medical training experience, fellowship experience, and other training experience. Include month/year started and completed, the degree (if applicable), the institution and location, the research mentor(s), if appropriate, and your field of study.

START MONTH/ YEAR	END MONTH /YEAR	DEGREE (<i>if applicable</i>)	INSTITUTION AND LOCATION	TRAINING MENTOR	SCIENTIFIC DISCIPLINE
Sept 1994	Oct 1997	BSc	Tel Aviv University, Tel Aviv, Israel		Life Science
Apr 2000	Apr 2002	MSc	Department of Molecular Genetics, The Weizmann Institute of Science, Rehovot, Israel	Prof. Shmuel Pietrokovski	Life Science & Bioinformatics, Sequence motifs
Apr 2002	May 2007	PhD	Department of Biological Chemistry, The Weizmann Institute of Science, Rehovot, Israel	Prof. Gideon Schreiber	Protein science, Protein-Protein interactions, Structural bioinformatics

PROFESSIONAL POSITIONS: In reverse chronological order, list positions held since completing education and other training experiences. The last position will be your first post-training professional position entered in the Eligibility Section.

START MONTH/ YEAR	END MONTH /YEAR	POSITION TITLE	DEPARTMENT	INSTITUTION AND LOCATION
May 2007	Aug 2008	Post Doctoral Fellow in the lab of Prof. Schreiber in collaboration with Prof. Israel Rubinstein. Research in the field biomaterials and gold nanoparticles	Department of Biological Chemistry	The Weizmann Institute of Science, Rehovot, Israel
Aug 2008	Aug 2012	Post Doctoral Fellow in the lab of Prof. Ursula Jakob. Research in the field of molecular chaperones, microbiology, redox biology, redox proteomics, and structural mass spectrometry	Dept. Molecular, Cellular and Developmental Biology	University of Michigan, Ann Arbor, MI, USA
Nov 2012	Nov 2019	Assistant Professor (Senior lecture)	Department of Biological Chemistry	Institute of Life Sciences, Hebrew University of Jerusalem, Israel
Nov 2019	present	Associate Professor	Department of Biological Chemistry	Institute of Life Sciences, Hebrew University of Jerusalem, Israel

AWARDS

- 2016 The Krill prize for Excellence in Scientific Research from the Wolf foundation (\$10,000)
- 2016 Hannah Farkas-Himsley and Alexander Himsley award for young researcher (\$2,000)
- 2012 Golda Meir Excellence Fellowship
- 2009 Human Frontier Science Program Long-Term Fellowship (Euro 134,000)
- 2008 European Molecular Biology Organization Long-Term Fellowship (Euro 31,000)
- 2008 Sara Lee Schupf Postdoctoral Award (Euro 34,000)

POSITIONS AND MEMBERSHIP IN SCIENTIFIC SOCIETIES (LAST 6 YEARS)

- 2024-present **President** of the Israel Society for Biochemistry and Molecular Biology (ISBMB) associated with the Federation of European Biochemical Societies (FEBS).
- 2023-present **The Core committee** member and a **working group leader** in the European Science Foundation COST Action CA21160 "Non-globular proteins in the era of Machine Learning (ML4NGP)
- 2022-present **The Core committee** member and a **working group leader** in the European Science Foundation COST Action CA21145 "European Network for diagnosis and treatment of antibiotic-resistant bacterial infections (EURESTOP)"
- 2022 -present **Member** of the Center for Nanoscience and Nanotechnology, Hebrew University of Jerusalem
- 2022-2023 **Member Society Representative** (MSR) in the FEBS organization
- 2021-2022 **Mentor** in the Females in Mass Spectrometry (FeMS) organization
- 2020-2023 **Member** in the FEBS Education Committee
- 2018-2024 **Vice president** of the Israel Society for Biochemistry and Molecular Biology (ISBMB) associated with the Federation of European Biochemical Societies (FEBS).
- 2016-2018 **President** of the Israel Mass Spectrometry Society
- 2015-2019 **Management committee member** of European Science Foundation COST Action MB1405, Non-globular proteins from sequence to structure, function and application in molecular physiopathology".
- 2014-2018 **Management committee member** of European Science Foundation COST Action BM1403, "Native Mass Spectrometry and Related Methods for Structural Biology"

MEMBER IN EDITORIAL BOARDS OF ACADEMIC JOURNALS

- Since 2013 **Review Editor**, Frontiers in Molecular Biosciences Journal, session on Protein Folding, Misfolding and Degradation
- Since 2023 **Editorial Board Member**, Communications biology, Nature.

COMMISSIONS OF TRUST (SELECTED)

Reviewer of research papers for: Molecular Cell, PloS Biology, PNAS, JACS, Langmuir, Cell Reports, Nature Communication, Bioinformatics, ARS, Redox Biology, Scientific Reports, Cell Death & Disease, JASMS and others

Reviewer and member in committees for funding agencies: Human Frontier Science Program, German-Israel Foundation, Israel Science Foundation (ISF), The Fund for Scientific Research (Belgium), Hadassah Joint Research Foundation, Israel Cancer Association (ICRF), Israel Binational Science Foundation (BSF)

FUNDS

Past research awards and funds from the following foundations: Israel Science Foundation (ISF), ISF-NSFC, US-Israel Binational Science Foundation (BSF), Human Frontier Science Program (HFSP), German-Israel Foundation (GIF), Marie Curie Actions (European commission), Abish-Frenkel Foundation, Lejwa Fund, Israel Ministry of Science and Technologies.

Ongoing funds from Israel Science Foundation (ISF), Ministry of Science and Technology of Israel, and Israel Innovation Authority, FUB-HUJ grant.

ORGANIZATION OF SELECTED CONFERENCES AND MEETINGS (LAST 6 YEARS)

- 2025 Co-organizer of the international meeting in the field of Thiol-switched proteins, Spain
 - 2022 Co-organizer of the international EMBO meeting in the field of Thiol-switched proteins, Spain
 - 2022 Co-organizer of the 35th ISOFRR annual meeting of the Israel society of Oxygen and Free radicals research, Tel Aviv, Israel
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2019 Co-organizing and chairing a session at the ILANIT/FISEB conference, Israel

ACTIVITIES AT THE HEBREW UNIVERSITY (LAST 6 YEARS)

2020-present Member of the search committee in the Life Science Institute.
2019-present Head of the honors Chemistry-Biology undergrad program

In addition to these activities, **I established and actively promoted the proteomic center in the Life Science Institute.** Currently, this is a very well-equipped facility, with three high resolution mass spectrometers providing high standard proteomic analysis, and structural mass spectrometry (HDX-MS and XL-MS).

SELECTED INVITED TALKS (LAST 6 YEARS)

2024- 2nd ML4NGP meeting, Greece
2023-Training school: Computer-aided tools in the study and therapy of bacterial drug resistance; session about Mass Spectrometry, Lisbon, Portugal
2023- HFSP symposium: Success and opportunities for frontier research collaborations, Tel Aviv, Israel
2020- Israel society of neuroscience annual meeting (ISFN) conference, Eilat, Israel
2019- Invited institute seminar in the French National Center for Scientific Research (CNRS), Marseille, France
2019- SPP1710 meeting: Thiol-based switches and redox regulation - from microbes to men, Sant Feliu ,Spain
2019- 2nd Workshop on Intrinsically Disordered Proteins in Core Data Resources, Prague, Czech republic.
2019- X-ZOMES meeting dealing with protein quality control, Akko, Israel
2018- Gordon Research Conference, Thiol-Based Redox Regulation and Signaling, Spain
2018 - The Universal Tripeptide Glutathione in Inflammation, Cancer and Neurological Diseases, Tel-Aviv, Israel
2018 - Intrinsically disordered proteins symposium, Budapest, Hungary
2018 - Annual meeting of the Israeli Society for Oxygen and Free Radicals Research, Tel-Aviv, Israel
2018 - Annual meeting of the Israeli Biophysical Society, Rehovot, Israel

PUBLICATIONS

Total publications **44**, under revision: **1**; book: **1**; total citations: **3211**, H-index-**25**, i10 index-**35** (**GoogleScholar March 14th, 2025**)

Scholar profile: <https://scholar.google.com/citations?user=JAXtXxkAAAAJ&hl=en>

1. M. Radzinski, T. Oppenheim, O. Yogev, R. Fassler, W. Breuer, N. Shai, E. Brielle, R. Israeli, I. Arkin, E. Pick, T. Ravid, M. Schuldiner, **D. Reichmann**. Cdc48 plays a crucial role in redox homeostasis through dynamic reshaping of its interactome during early stationary phase, 2025, **Redox Biology**, in revision.
 2. C. Wang, Z. Zhao³, R. Ghadir, Y. Li, Y. Zhao, R. Fassler **D. Reichmann, N. Metanis**, J. Zhao. Highly Chemo-, Regio- and Stereoselective Cysteine Modification of Peptides and Proteins with Ynamides, 2024, **JACS**, 10 (9), 1742-1754
 3. C. Seguin-Devaux, T. Mestrovic, J.J. Arts, D. Sen Karaman, C. Nativi, **D. Reichmann**, P. Sahariah, Y. Smani, P. Rijo and M. Mori. Solving the antibacterial resistance in Europe: the multipronged approach of the COST Action CA21145 EURESTOP, 2024, **Drug Resistance Updates**, 74:101069
 4. M. Franco, R. Fassler, H. Chole, Y. Hertz, S. Hollis, **D. Reichmann**, G. Bloch. Substances in the mandibular glands mediate queen effects on larval development and colony organization in an annual bumble bee, 2023 **PNAS**, 120(45):e2302071120
 5. T. Oppenheim, M. Radzinski, M. Braitbard, E.S. Brielle, O. Yogev, Y. Yesharim, E. Goldberger, T. Ravid, D. Schneidman-Duhovny, and **D. Reichmann**. The Cdc48 N-terminal domain has a molecular switch that mediates the Npl4-Ufd1-Cdc48 complex formation, 2023, **Structure**, 31(7):764-779, **highlighted on the cover**.
 6. C. Grandy, F. Port, M. Radzinski, K. Singh, D. Erz, J. Pfeil, EM. Rump, U. Pannicke, **D. Reichmann**, KE Gottschalk. Remodeling of the focal adhesion complex by hydrogen peroxide-induced senescence, 2023, **Scientific Reports**, 13(1):9735.
 7. I. Nandi, N. Haritan, E. Zlotkin-Rivkin, Y. Keren, T. Danieli, M. Lebendiker, N. Melamed-Book, B. Breuer, **D. Reichmann**, B. Aroeti. EspH interacts with the host active Bcr related (ABR) protein to suppress RhoGTPases, 2022, **Gut Microbes**, 14(1):2130657
 8. H. Pahima, I. Zaffran, E. Ben-Chetrit, A. Jarjoui, P. Gaur, M.L. Manca, **D. Reichmann**, E. Orenbuch-Harroch, I. Puxeddu, C. Zinner, A. Tzankov, and F. Levi-Schaffer. COVID-19 patients are characterized by dysregulated levels of membrane and soluble CD48, 2022, **Ann. Allergy, Asthma Immunol**, S1081-1206(22)-01835
 9. L. Zualy, N. Lahrach, R. Fassler, O. Genest, P. Faller, O. Seneque, Y. Denis, M. Castanie-Cornet, P. Genevaux. U. Jakob, **D. Reichmann**, M. Giuducu-Orticoni, M. Ilbert, Copper Induces Protein Aggregation, a Toxic Process Compensated by Molecular Chaperones, 2022, **mBio**, e0325121
 10. W. He, G. Yu, T. Li, L. Bai, Z. Xue, Y. Pang, **D. Reichmann**, S. Hiller, L. He, M. Liu, S. Quan. Chaperone Spy protects outer membrane proteins from folding stress via dynamic complex formation, 2021, **mBio**, 12(5):e0213021
 11. R. Fassler, L. Zualy, N. Lahrach, M. Ilbert, **D. Reichmann**, The central role of redox-regulated switch proteins in bacteria, 2021, **Front. Mol. Bios**, 8: 706039
 12. M. Radzinski, T. Oppenheim, **N. Metanis, D. Reichmann**. The Cys Sense: Thiol Redox Switches Mediate Life Cycles of Cellular Proteins, 2021, **Biomolecules**, 11(3), 469
 13. S. Aramin, R. Fassler, V. Chikne, M. Goldenberg, T. Arian, O. Rimon, L. Kolet, S. Michaeli, and **D. Reichmann**. TrypOX, a novel eukaryotic homologue of redox-regulated chaperone Hsp33 in *Trypanosoma brucei*, 2020, **Frontiers in Microbiology**, 11:1844
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14. M. Mahameed, S. Boukeileh, A. Sulieman, A. Obiedat, O. Darawshi, P. Dipta, A. Rimon, G. McLennan, R. Fassler, **D. Reichmann**, R. Karni, C. Preisinger, T. Wilhelm, M. Huber and B. Tirosh, Pharmacological induction of selective endoplasmic reticulum retention as a novel strategy for cancer therapy, 2020, **Nature Communication**, 11(1):1304
 15. H W. Reuter, T. Masuch, N. Ke, M. Lenon, M. Radzinski, V. Van Loi, G. Ren, P. Riggs, **H. Antelmann, D. Reichmann**¹, L. I. Leichert and M. Berkmen, Utilizing redox-sensitive GFP fusions to detect in vivo redox changes in genetically engineered prokaryotes, 2019, **Redox Biology**, 26:101280
 16. E. Kassa, E. Zlorkin-Rivkin, G. Friedman, R. Ramachandran, N. Melamed-Book, A. Weiss, M. Belenky, **D. Reichmann**, W. Breuer, L. Goldenring, J. Goldenring, B. Aroeti, Enteropathogenic *Escherichia coli* remodels host endosomes to promote endocytic turnover and breakdown of surface polarity, 2019, **PLoS Pathogens**, 15(6):e1007851
 17. Community paper with multiple authors: G. Masson, ...**D. Reichmann**,...K. Rand, Recommendations for the practice, interpretation and reporting of hydrogen deuterium exchanges mass spectrometry (HDX-MS) experiments, 2019, **Nature Methods**, 16(7):595-602
 18. Community paper with multiple authors: C. Iacobucci, N. Edinger,... R. Mesika, ... **D. Reichmann**, ... A. Sinz, Cross-linking/Mass Spectrometry: A Community-Wide, Comparative Study Towards Establishing Best Practice Guidelines, 2019, **Anal. Chemistry**, 91(11):6953-6961
 19. G. Erdos, B. Meszaros, **D. Reichmann**, Z. Dosztanyi, Large-scale analysis of redox-sensitive conditionally disordered protein regions reveal their widespread nature and key roles in high-level eukaryotic processes, 2019, **Proteomics**, 9(6):e1800070
 20. Bramasole L, Sinha A, Gurevich, Radzinski M, Klein Y., Panat N, Gefen E , Jimenez-Morales D, Johnson J, Krogan NJ, Reis N, Rinaldi T, **Reichmann D** , Glickman MH, and Pick E, Proteasome lid bridges mitochondrial stress with Cdc53/Cullin1 rubylation status, 2019, **Redox Biology**, 20, 533-543
 21. R. Mesika, **D. Reichmann**, When safeguarding goes wrong: impact of oxidative stress on protein homeostasis in health and neurodegenerative disorders, 2019, **Advances in Protein Chemistry and Structural Biology**, 114, 221-264
 22. M. Radzinski and **D. Reichmann**. Variety is a spice of life: How to explore redox-dependent heterogeneity in genomically identical cellular populations, 2018, **Current genetics**, 65(1):301-306
 23. M. Radzinski, R. Fassler, O. Yogev, W. Breuer, N. Shai, J. Gutin, S. Ilyas, Y. Geffen, S. Tsytkin-Kirschenschweig, Y. Nahmias, T.Ravid, N. Friedman, M. Shueldiner and **D. Reichmann**. Temporal profiling of redox-dependent heterogeneity in single cells. 2018, **eLife**, 7. pii: e37623
 24. E. Keinan, A. Abraham, R. Mintz, M. Cohen, **D. Reichmann**, D. Kaganovich, Y. Nahmias. High-Reynolds Microfluidic Sorting of Large Yeast Population Demonstrates Early Age-Dependent Changes in Protein Quality Control. 2018, **Sci. rep**, 8(1):13739
 25. R. Fassler, N. Edinger, O. Rimon and **D. Reichmann**. Defining Hsp33's redox-regulated chaperone activity and mapping conformational changes on Hsp33 using hydrogen-deuterium exchange mass spectrometry. 2017, **J Vis Exp**. 2018 Jun 7;(136)
 26. **D. Reichmann**^{*}, W. Voth, U. Jakob^{*}, Maintaining a healthy proteome during oxidative stress, 2017, **Mol Cell**, 69(2):203-213 ^{*}corresponding authors
 27. O. Rimon and **D. Reichmann**. Kfits: A software framework for fitting and cleaning outliers in kinetic measurements, 2017. **Bioinformatics**, 34(1):129-130
 28. O. Rimon, O. Suss, M. Goldberg, R. Fassler, O. Yogev, H. Amartely, A. Friedler, and **D. Reichmann**. A role for protein plasticity and its connectivity in the inactivation of an intrinsically disordered chaperone and its inter-chaperone crosstalk. 2017, **Antiox Redox Signal**, 27(15):1252, The paper was **highlighted on the cover**.
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29. B. Groitl, S. Horowitz, K. Makepeace, EV. Petrotchenko, **D. Reichmann**, JC Bardwell and U. Jakob, Protein unfolding as a switch from self-recognition to high affinity client binding, 2015, **Nat. Commun**, 7:10357.
30. O. Suss, **D. Reichmann**, Protein plasticity underlines activation and function of ATP-independent chaperons, 2015, **Front. Mol. Bios**, 2:43
31. D. Knoefler, LI. Leichert, M. Thamsen, CM. Cremers, **D. Reichmann**, MJ. Gray, WY. Wholey and U. Jakob. About the dangers, costs and benefits of living an aerobic lifestyle, 2014, **Biochem Soc Trans** 42(4):917-21
32. M. Abu-Odeh, T. Bar-Mag, H. Huang, T. Kim, Z. Salah, S. Abdeen, M. Sudol, **D. Reichmann**, S. Sidhu, P. Kim, R. Aqelian. Characterizing WW domain interactions of tumor suppressor WWOX reveals its association with multiprotein networks, 2013, **J Biol Chem**, 28;289(13):8865-80
33. **D. Reichmann** and U. Jakob. The roles of conditional disorder in redox proteins, 2013, **Curr Opin Struct Biol**, 23(3):436-42
34. N. Brandes, H. Tienson, A. Lindemann, V. Vitvisky, **D. Reichmann**, R. Banerjee, U. Jakob. Time line of redox events in aging postmitotic cells, 2013, **eLife**, (2),e00306
35. **D. Reichmann**, Y. Xu, CM. Cremers, M. Ilbert, R. Mittelman, MC. Fitzgerald, U. Jakob, Order out of disorder - Working cycle of an intrinsically unfolded chaperone, 2012, **Cell**, 148(5):947-57. The preview article was published in **Cell**, 148(5):843-4
36. N. Brandes*, **D. Reichmann***, H. Tienson, L. Leichert, U. Jakob. Using quantitative redox proteomics to dissect the yeast redoxome, 2011, **J Biol Chem**, 286(48):41893-903 *authors contributed equally
37. CM. Cremers, **D. Reichmann**, J. Hausmann, M. Ilbert, U. Jakob. Unfolding of metastable linker region is at the core of Hsp33 activation as a redox-regulated chaperone, 2010, **J Biol Chem**. 285(15):11243-51
38. O. Cohavi*, **D. Reichmann***, R. Abramovich, A. Tesler, G. Bellapadrona, D. Kokh, R. Wade, A. Vaskevich, I. Rubinstein, G. Schreiber. A quantitative real-time assessment of binding of peptides and proteins to gold surfaces, 2010, **Chem-Eur J**, 17(4):1327-36. *authors contributed equally
39. Rich RL, et al., A global benchmark study using affinity-based biosensors, 2009 **Anal Biochem**, 386(2):194-216
40. V. Potapov*, **D. Reichmann***, R. Abramovich, D. Filchtinski, N. Zohar, D. Ben Halevy, M. Edelman, V. Sobolev, and G. Schreiber. Computational redesign of a protein-protein interface using its modular architecture, 2008, **J Mol Biol**, 384(1):109-19, *authors contributed equally.
41. M. Cohen*, **D. Reichmann***, G. Schreiber. Similar chemistry, but different bond preferences for inter versus intra-protein interactions, 2008, **Proteins**, 72(2):741-53. *authors contributed equally.
42. **D. Reichmann**, Y. Getz, G. Schreiber, On the contribution of water-mediated interactions to protein-complex stability, 2008, **Biochemistry**, 47(3):1051-60. The paper was chosen as a **hot paper** by the editorial board.
43. **D. Reichmann**, O. Rahat, M. Cohen, H. Neuvirth, and Schreiber G. The molecular architecture of protein-protein binding sites. 2007, **Curr Opin Struct Biol**, 17:1-10.
44. **D. Reichmann**, M. Cohen, R. Abramovich, D. Lim, Dym O., N.C.J. Strynadka G. Schreiber. Binding hot spots in the TEM1-BLIP interface in light of its modular architecture, 2007, **J Mol Biol**, 365(3):663-79.
45. **D. Reichmann**, O. Rahat, R. Meged, O. Dym, G. Schreiber. The modular architecture of protein-protein binding interfaces, 2005, **Proc Natl Acad Sci USA**. 102(1):57 The paper was **highlighted on the PNAS cover**.

Edited Book:

46. U. Jakob and **D. Reichmann** (Eds). Oxidative Stress and Redox Regulation, 2013, *Springer*, 483 pp.