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## CURRICULUM VITAE

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NAME	POSITION TITLE
Dana Reichmann	Associate Professor

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**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	<b>Post Doctoral Fellow</b> 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	<b>Post Doctoral Fellow</b> 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	<b>Assistant Professor</b> (Senior lecture)	Department of Biological Chemistry	Institute of Life Sciences, Hebrew University of Jerusalem, Israel
Nov 2019	present	<b>Associate Professor</b>	Department of Biological Chemistry	Institute of Life Sciences, Hebrew University of Jerusalem, Israel

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## 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)  
2005 Aharon Katzir Award  
1998 Wolf Foundation Award for undergrad students

## POSITIONS AND MEMBERSHIP IN SCIENTIFIC SOCIETIES

2022 -present **Member** of the Center for Nanoscience and Nanotechnology, Hebrew University of Jerusalem  
2022-2023 **Member Society Representative (MSR)** in the the FEBS organization  
2021-2022 **Mentor** in the Females in Mass Spectrometry (FeMS) organization  
2020-present **Member** in the FEBS Education Committee  
2018-present **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 **Vice 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

**Reviewer of research papers for:** Molecular Cell, PloS Biology, PNAS, 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), Yissum-MOST (pending)

## ORGANIZATION OF CONFERENCES AND MEETINGS (Last 6 years)

2025 main 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

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- 2022 co-organizer of the 35th ISOFRR annual meeting of the Israel society of Oxygen and Free radicals research, Tel Aviv, Israel
- 2019 Co-organizing and chairing a session at the ILANIT/FISEB conference, Israel
- 2018 Co-organizer of the 11<sup>th</sup> Parnas conference in the field of biochemistry, Kiev, Ukraine
- 2018 Co-organizer of 31<sup>th</sup> ISMS - International Mass Spectrometry meeting joint with Dutch Mass Spectrometry society, Israel.
- 2017 Co-organizer of the Mass Spectrometry session, FEBS, Israel
- 2017 Co-organizer of the FEBS satellite Meeting "Integrated Methodologies for Studying Intrinsically disordered proteins"
- 2017 Co-organizer of the international workshop on structural Mass Spectrometry, Israel.
- 2017 Co-organizer and chair of the Mass Spectrometry session, ILANIT-FASEB, Israel
- 2017 Co-organizer of 24<sup>th</sup> international School in Life Sciences, Jerusalem, Israel
- 2016 Co-organizer of 30<sup>th</sup> ISMS - International Mass Spectrometry meeting joint with American Mass Spectrometry society, Israel.

#### **ACTIVITIES AT THE HEBREW UNIVERSITY (LAST 6 YEARS)**

- 2019-present Head of the honors Chemistry-Biology undergrad program
- 2020-present Member of the search committee in the Life Science Institute.
- 2018 Member of a faculty committee for evaluation of the goals of the university bioinformatic unit.
- 2015-2021 Member of the SMART prize committee
- 2012-2013 Organizer of the Departmental Seminars
- 2013 Organizer of the joint seminars of the Biological chemistry department and Institute of Chemistry

In addition to these activities, I actively promoted and supported the establishment of 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)**

- 2022- Invited departmental seminar at the Weizmann Institute of Science, Israel
- 2021- Invited institute seminar at the Technion Institute of technology, 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
- 2017 - Molecular perspectives of protein protein interactions, Eilat, Israel
- 2017 - Structural Proteomics Symposium, Vienna, Austria
- 2017 - FEBS Conference, Jerusalem, Israel
- 2017 - 3<sup>rd</sup> symposium on non-globular proteins, Kosice, Slovakia
- 2017 - International workshop on structural Mass Spectrometry, Rehovot, Israel
- 2017 - FISEB (ILANIT) conference, Eilat, Israel

**PUBLICATIONS**

Total publications **41**, submitted or/and under revision: 3; book: **1**; total citations: **2511**, H-index-**22**, i10 index-**31**  
**(Google Scholar June 3<sup>rd</sup>, 2023)**

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

1. 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**, accepted
  2. C. Wang, Z. Zhao<sup>3</sup>, 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, 2023, under revision in **Nat. Comm**
  3. 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**, accepted
  4. T. Oppenheim, M. Radzinski, M. Braitbard, E.S. Brielle, O. Yogev, Y. Yesharim, E. Goldberger, T. Ravid, D. Schneidman-Duhovny, and **D. Reichmann**. Characterizing the full length Npl4-Ufd1 complex and its interaction with Cdc48 through an interface residue switch, 2023, **Structure**, in press
  5. 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
  6. 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
  7. 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-Ortoni, M. Ilbert, Copper Induces Protein Aggregation, a Toxic Process Compensated by Molecular Chaperones, 2022, **mBio**, e0325121
  8. 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 has a new role in protecting cells under oxidative stress conditions, BioRxiv <https://doi.org/10.1101/733709>
  9. 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
  10. 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
  11. 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
  12. 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
  13. 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
  14. H W. Reuter, T. Masuch, N. Ke, M. Lenon, M. Radzinski, V. Van Loi, G. Ren, P. Riggs, H. Antelmann, **D. Reichmann**<sup>1</sup>, 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
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15. 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
  16. 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
  17. 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
  18. 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
  19. 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
  20. 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
  21. 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
  22. 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
  23. 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
  24. 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)
  25. **D. Reichmann\***, W. Voth, U. Jakob\*, Maintaining a healthy proteome during oxidative stress, 2017, **Mol Cell**, 69(2):203-213 \*corresponding authors
  26. O. Rimon and **D. Reichmann**. Kfits: A software framework for fitting and cleaning outliers in kinetic measurements. (2017). **Bioinformatics**, 34(1):129-130
  27. 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, **On the cover**
  28. 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.
  29. O. Suss, **D. Reichmann**, Protein plasticity underlines activation and function of ATP-independent chaperons (2015), **Front. Mol. Bios**, 2:43
  30. 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
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31. 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
32. **D. Reichmann** and U. Jakob. The roles of conditional disorder in redox proteins (2013), *Curr Opin Struct Biol*, 23(3):436-42
33. 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
34. **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
35. 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
36. 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
37. 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
38. Rich RL, et al., A global benchmark study using affinity-based biosensors (2009) *Anal Biochem*, 386(2):194-216
39. 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.
40. 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.
41. **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.
42. **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.
43. **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.
44. **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:**

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

**In preparation (expected to be submitted in 2-3 month):**

46. Z. Xue, S. Quan, **D. Reichmann**, An integrative approach to uncover the multi-level interactome of a molecular chaperone Spy (tentative title)
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