

CURRICULUM VITAE
Dr Tamar Ansbacher

1. Academic Education

- 2006-2012 Hebrew University, Jerusalem.
Lise Meitner- Minerva Center for Quantum Computational Chemistry.
PhD. research under the supervision of Dr. Avital Shurki.
Thesis subject: Copper Keepers – The unique copper(I) binding environment and transfer mechanism of the copper chaperones.
- 2004-2006 Hebrew University, Jerusalem.
The Fritz-Haber research Center for Molecular Dynamics.
MSc. under the supervision of Prof. R. B Gerber
Thesis subject: New organic noble gas molecules.
- 2000-2003 Bar Ilan University
BSc. in “*Biophysics*”- combining the degrees of
Physics Biology & Chemistry. Graduated cum laude.

2. Academic Employment

- 2014 Lecturer at Hadassah College, teaching General Chemistry, Analytical Chemistry, Physical Chemistry, Organic Chemistry and Physics- Mechanics.
- 2013 Lecturer at Hadassah College, teaching Physical Chemistry
- 2013 Lecturer at Hadassah pre-college school, General Chemistry
- 2012 Lecturer at Lifshitz College, teaching General Chemistry
- 2004-2010 Teacher Assistant at the Hebrew University:
- 2007-2010 Bio-organic chemistry laboratory. (#64320)
- 2006 General chemistry for physics students. (#69322)
- 2004 Physical Chemistry laboratory. (#69313)

3. Academic Activities:

Collaborations

- Prof. E. Y. Tshuva, Institute of Chemistry, Hebrew University, Jerusalem, Israel
- Prof. Jan Martin Department of Organic Chemistry, Weizmann Institute of Science, Rehovot, Israel
- Dr. Maarten Merkx, Biomedical Chemistry, Eindhoven University of Technology, The Netherlands

4. Grants and Awards

- 2010 – Won the *Katzir Travel Fellowships for Life Science Students*
- 2010 – Won a *travel grant from the David R. Bloom Center for Pharmacy* at the Hebrew university

2009 – Awarded *the School of Pharmacy prize for excellence in research and teaching*.
2002 – Awarded *the president scholarship* for undergraduate students.

5. List of Publications

5.1 Peer reviewed papers

[Copper-chaperones with di-coordinated Cu\(I\) - unique protection mechanism](#) Ansbacher, T; Chourasia M; Shurki, A. PROTEINS: Structure, Function, and Bioinformatics, Volume: **81** Issue: **8** Pages: **1411-1449**

[Predicting the Coordination Number within Copper Chaperones: Atox1 as Case Study](#) Ansbacher, T; Shurki, A. J. Phys. Chem. B, Volume: **116** Issue: **15** Pages: **4425-4432**

[Calculation of Transition Dipole Moment in Fluorescent Proteins–Towards Efficient Energy Transfer.](#) Tamar Ansbacher , Hemant Kumar Srivastava , Tamar Stein , Roi Baer , Maarten Merx and Avital Shurki, Physical Chemistry Chemical Physics, Volume: **14** Issue: **12** Pages: **4109-4117**

[Can DFT Methods Correctly and Efficiently Predict the Coordination Number of Copper\(I\) Complexes? A Case Study](#) Ansbacher, T; Srivastava, HK; Martin, JML, et al., Journal of Computational Chemistry Volume: **31** Issue: **1** Pages: **75-83**

[New organic noble gas molecules: energetics, stability and potential energy surfaces of HCCXeCCH and HCCKrCCH](#) Ansbacher, T; Gerber, RB, Physiscal Chemistry Chemical Physics Volume: **8** Issue: **36** Pages: **4175-4181**

5.2 Papers and Abstracts - Proceedings of Conferences

The 76th meeting of the Israel Chemical Society, February 2011, Tel Aviv, Israel– *Copper Keeper – A Unique Cu(I) Protection Mechanism Of The Copperchaperone Atox1*, Oral presentation.

The 2009 Computational Chemistry Symposium of The Lise Meitner and the Fritz-Haber Minerva Centers, December 2009, Jerusalem Israel, *Copper-Keepers – Copper Chaperones and their Coordination Number to Cu(I)*, Oral presentation.

Faraday Discussions 148 Conference: Spectroscopy, Theory and Mechanism in Bioinorganic Chemistry, July 2010 , University of Nottingham, U.K. *Copper Keepers – Copper Chaperones and their Coordination Number to Cu(I)* , Poster.

The 75th meeting of the Israel Chemical Society, January 2010, Tel Aviv, Israel–*Copper Keepers – Copper Chaperones and their Coordination Number to Cu(I)* , Poster.

The first meeting of The Institute for drug research at Hebrew University, October 2009, Jerusalem, Israel –*Copper Keepers – Copper Chaperones and their Coordination Number to Cu(I)* , Poster.

The 74th meeting of the Israel Chemical Society, February 2009, Tel Aviv, Israel – *Protein Orientation in Protein Metal Complex-FRET Based Determination*, Poster.

The 2008 Symposium of The Lise Meitner-Minerva Center, November 2008, Jerusalem, Israel – *Protein Orientation in Protein Metal Complex-FRET Based Determination*, Poster.

The 73th meeting of the Israel Chemical Society, February 2008, Jerusalem, Israel –*The Riddle of Cu(I) Coordination Number*, summary, Poster.

Safed Summer School on Density Functional Theory, September 2007, Safed, Israel –*The Riddle of Cu(I) Coordination Number*, summary, Poster.

The 2007 Symposium of The Lise Meitner-Minerva Center June 2007, Jerusalem, Israel –*The Riddle of Cu(I) Coordination Number*, Poster.

The 2007 Symposium of The Lise Meitner-Minerva Center, June 2007, Jerusalem, Israel –*The Secrets of Cu(I)-S Binding*, Poster.

The 72th meeting of the Israel Chemical Society ,February 2007, Tel Aviv, Israel –*The Riddle of Cu(I) Coordination Number*, Poster.

The 72th meeting of the Israel Chemical Society, February 2007, Tel Aviv, Israel – *The Secrets of Cu(I)-S Binding* , Poster.

The 70th meeting of the Israel Chemical Society, February 2005, Tel Aviv, Israel– *New organic noble gas molecules*, Poster.