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Research

- 2012 – present Junior Group Leader, Max F. Perutz Laboratories, Medical University of Vienna
- 2005 – 2011 Postdoctoral Fellow, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK/NIH)
Advisor: Dr. James H. Hurley
- 2001 – 2005 PhD student, MRC Laboratory of Molecular Biology (LMB), Cambridge, U.K.
Advisor: Dr. Jan Löwe
- 2000 Internship, R&D Genetics, AstraZeneca, U.K.

Education

- 2001 – 2005 PhD, University of Cambridge
Advisor: Jan Löwe, Structural Studies Division
- 1998 – 2001 BSc (Hons) Biochemistry with Medical Biochemistry, University of Bristol, U.K.
(First Class Honours)

Funding

- 2017 – 2020 Austrian Research Fund (FWF) Project (P 30584)
'Structure, Function, and Regulation of Protein Kinase D.'
- 2017 – 2020 Austrian Research Fund (FWF) Hertha Firnberg Postdoctoral Fellowship to Dr. Linda Trübestein (T 915).
- 2017 – 2020 Austrian Research Fund (FWF) Doctoral Program "Signaling Mechanisms in Cellular Homeostasis".
- 2015 – 2018 Austrian Research Fund (FWF) Project (P 28135)
'Lipid-activated kinases in cell shape and motility.'
- 2017 – 2017 University of Vienna Thesis Completion Fellowship to I. Lučić.

2015 – 2017 Boehringer Ingelheim Fonds (BIF) PhD Fellowship to D. Elsner.
2014 – 2016 Austrian Academy of Sciences DOC PhD Fellowship to F. von Raussendorf.

Honours and Awards

2016 F1000Prime Faculty Member: Cell Signaling & Trafficking Structures Section
2006-2012 NIDDK Nancy Nossal Fellowship (National Institutes of Health (NIH), U.S.A.)
2006-2008 EMBO Long Term Fellowship

Teaching/Mentoring Experience

2012 – present Supervision of three Masters students and three PhD students.
2017 – present Biophysical Chemistry of Macromolecules
2015 – present Lecture Series: Advanced Biophysical Methods
2015 – present Lecture Series: Molecular Medicine I
2014 – present Lecture Series: Methods in Molecular Biology and Biochemistry
2013 – present Practical course: Spectroscopic Methods in Molecular Biology
2013 – present Introductory Course in Cell Signaling
2012 VBC PhD Lecture Series: ‘Lipid-Activated Signal Transduction’
2010 Mentor, Summer Internship Program, NIH, U.S.A.
2003 – 2005 Undergraduate Tutor, Corpus Christi College, University of Cambridge, U.K.

Peer Review Activities

Journals Acta Cryst D; Biochemistry; Cell; Chemical Reviews; Nature Communications;
 Nature Structural and Molecular Biology; PLoS Biology; PNAS; Science.
Grant review Agence Nationale de la Recherche (France).

Publications

¹Ebner, M., ¹Lučić, I., ***Leonard, T.A.**, *Yudushkin, I. (2017) PI(3,4,5)P₃ restricts Akt activity to cellular membranes. *Molecular Cell* 65(3):416-431 (doi: 10.1016/j.molcel.2016.12.028).
¹Co-first authors; *Co-corresponding authors.

Truebestein, L., **Leonard, T.A.** (2016) Coiled-coils: The long and short of it. *BioEssays* 38:903-916 (doi: 10.1002/bies.201600062). Review.

Truebestein, L., Elsner, D.J., **Leonard, T.A.** (2016). Made to measure – keeping Rho kinase at a distance. *Small GTPases* 7(2):82-92 (doi: 10.1080/21541248.2016.1173770). Review.

Truebestein, L., Elsner, D.J., Fuchs, E., **Leonard, T.A.** (2015). A molecular ruler regulates cytoskeletal remodelling by the Rho kinases. *Nature Communications* 6:10029 (doi: 10.1038/10029).

F1000 Prime Recommended. 

- Lučić, I., Truebestein, L., **Leonard, T.A.** (2015). Novel features of DAG-activated PKC isozymes reveal a conserved 3-D architecture. *Journal of Molecular Biology* 428(1):121-41 (doi: 10.1016/j.jmb.2015.11.001).
- Gutierrez-Uzquiza, A., Colon-Gonzalez, F., **Leonard, T.A.**, Canagarajah, B.J., Wang, H., Mayer, B., Hurley, J.H., Kazanietz, M.G. (2013). Coordinated activation of the Rac-GAP β 2-chimaerin by an atypical proline-rich domain and diacylglycerol. *Nature Communications* 4:1849 (doi: 10.1038/ncomms2834).
- Yang, H., Tong, J., **Leonard, T.A.**, Im Y.J. (2013). Structural determinants for phosphatidylinositol recognition by Sfh3 and substrate-induced dimer-monomer transition during lipid transfer cycles. *FEBS Lett.* 5;587(11):1610-6 (doi: 10.1016/j.febslet.2013.04.009).
- Leonard, T.A.** C2 domain proteins. *Encyclopedia of Metalloproteins.* (2013). (doi 10.1007/978-1-4614-1533-6). Book chapter.
- Leonard, T.A.**, Hurley, J.H. (2011). Regulation of protein kinases by lipids. *Curr Opin Struct Biol* 21, 785-791. Review.
- Leonard, T.A.**, Rozycki, B., Saidi, L.F., Hummer, G., Hurley, J.H. (2011). Crystal structure and allosteric activation of Protein Kinase C β II. *Cell* 144 (1), 55-66.

F1000 Prime Recommended. 

- (Comment on: Kazanietz, M.G., Lemmon, M.A. (2011). Protein Kinase C regulation: C1 meets C-tail. *Structure* 19 (2) 144-146).
- Wu, Y., Sommers, J.A., Suhasini, A.N., **Leonard, T.A.**, Deakyne, J.S., Mazin, A.V., Shin-ya, K., Kitao, H., Brosh, R.M. (2010). Fanconi Anemia Group J Mutation Abolishes its DNA Repair Function by Uncoupling DNA Translocation from Helicase Activity or Disruption of Protein-DNA Complexes. *Blood* 116(19) 3780-91.
- Oliva M.A., Halbedel S., Freund S.M., Dutow P., **Leonard T.A.**, Veprintsev D.B., Hamoen L.W., Löwe J. (2010). Features critical for membrane binding revealed by DivIVA crystal structure. *EMBO J.* 29(12):1988-2001
- Leonard, T.A.**, Hurley, J.H. (2007). Two Kinase Family Dramas. *Cell* 129 (6), 1037-1038. Preview.
- Leonard, T.A.**, Møller-Jensen, J., Löwe, J. (2005). Towards understanding the molecular basis of bacterial DNA segregation. *Philos Trans R Soc Lond B Biol Sci.* 360 (1455), 523-35. Review.
- Leonard, T.A.**, Butler, P.J.G., Löwe, J. (2005). Bacterial chromosome segregation: Structure and DNA binding of the Soj dimer – a conserved biological switch. *EMBO J.* 24(2), 270-82.
- Leonard, T.A.**, Butler, P.J.G., Löwe, J. (2004). Structural analysis of the chromosome segregation protein Spo0J from *Thermus thermophilus*. *Molecular Microbiology* 53(2), 419-432.