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教育背景

- 2010.11-2014.06 Ph.D. 生物统计/化学计量学课题组, Edmund Mach 研究所, 意大利
生物有机化学课题组, 特伦托大学, 意大利 (Magna Cum Laude)
质谱/蛋白组学课题组, 马普化学生态学研究所, 德国 (访问学生)
- 理学博士
 - 导师: Dr. Pietro Franceschi, Dr. Fulvio Mattivi & Prof. Guella Graziano
 - 论文: 代谢成像技术在活体分子水平上的植物功能代谢研究
- 2008.09-2010.09 M.Sc. 农学院, 博洛尼亚大学, 意大利 (CUM LAUDE)
生命科学系, 慕尼黑工业大学, 德国 (Distinction)
维也纳自然资源和應用生命科学大学, 奥地利 (Distinction)
- 园艺学硕士
 - 导师: Dr. Stefano Tartarini, Dr. Luca Dondini & Prof. Dieter Treutter
 - 论文: 杏糖, 酸数量性状基因定位及关联作图
- 2003.09-2008.09 B.Sc. 生命科学与技术基地班, 西北农林科技大学, 中国
- 生物工程学士
 - 导师: Prof. Zhihui Cheng
 - 论文: 紫外线(UV-C)对黄瓜白粉病的防治研究

工作经历

- 2014.12-至今 博士后 植物与环境学院, 威兹曼研究所, 以色列
- 导师: Prof. Asaph Aharoni
 - 研究课题: 基质辅助激光解吸电离质谱成像技术(MALDI imaging)在植物代谢组学中的应用
- 2014.07-2014.11 Research associate 物理学院, 特伦托大学, 意大利
- 导师: Prof. Guella Graziano
 - 研究课题: 基于薄层色谱 (TLC)-基质辅助激光解吸电离飞行时间质谱 (MALDI-TOF) 的快速脂代谢组学分析

研究兴趣与技能

- 代谢成像学: 基质辅助激光解吸电离质谱成像技术 (MALDI); 电喷雾解吸电离质谱成像技术 (DESI)
- 代谢组学: 基于质谱的代谢组学
- 化学计量学: 数据前处理
单元, 多元变量分析
数据可视化
- 显微解剖学
- 精通的质谱仪器与软件: DESI/ESI/APCI/MALDI-Orbitrap (Thermo Fisher); Software: Imagequest, Xcalibur
MALDI-micro MX-TOF (Waters); Software: Masslyn, Biomap

- MALDI-Ultraflex II TOF/TOF (Bruker); Software: FlexControl, FlexAnalysis, FlexImaging
- ESI/MALDI FT-ICR Solarix, (Bruker); Software: FtmControl, FlexImaging, ProfileAnalysis, SCiLS Lab

论文

1. Franceschi P, **Dong Y**, Strupat K, Vrhovsek U, Mattivi F. Combining Intensity Correlation Analysis and MALDI Imaging to Study the Distribution of Flavonols and Dihydrochalcones in Golden Delicious Apples. *Journal of Experimental Botany*. 63, 1123-1133, 2012.
2. **Dong Y**, Graziano G, Mattivi F, Franceschi P. High production of small organic dicarboxylate dianions by DESI and ESI. *Journal of The American Society for Mass Spectrometry*. 26, 386- 389, 2015.
3. Li B, Dunham J.B.S, **Dong Y**, Yoon S, Zeng M, Sweedler J.V. Analytical capabilities of mass spectrometry imaging and its potential applications in food science. *Trends in Food Science & Technology*. 47, 50-63, 2016.
4. Qu D, Meng R, Yan F, Jiang X, Yang H, Gao Z, **Dong Y**, Yang Y, Zhao Z. Identification and characterization of microRNAs and Their Targets to Fruit Bagging and Subsequent Sunlight Re-exposure in the 'Granny Smith' Apple exocarp Using High-throughput Sequencing. *Frontiers in Plant Science*. 7, doi:10.3389/fpls.2016.00027, 2016.
5. **Dong Y**, Graziano G, Mattivi F, Franceschi P. Impact of tissue surface properties on the desorption electrospray ionization imaging of organic acids in grapevine stem. *Rapid communication in Mass Spectrometry*. 30, 711-718, 2016.
6. **Dong Y**, Li B, Aharoni A, Malitsky S, Rogachev I, Kaftan F, Svatoš A, Franceschi P. Sample preparation for mass spectrometry imaging of plant tissues: a review. *Frontiers in Plant Science*. 7, doi:10.3389/fpls.2016.00060, 2016.
7. **Dong Y**, Li B, Aharoni A. More than Pictures: When MS Imaging meets Histology. *Trends in Plant Sciences*. Doi: 10.1016/j.tplants.2016.04.007, 2016.

会议海报 & 口头报告

1. **Dong Y**, Franceschi P, Mattivi F, Vrhovsek U, Wehrens R. MS Imaging of Small Metabolites in Fruits. Ourense Conference on Imaging Mass Spectrometry, Ourense, Spain. Oral Presentation, 2012.
2. **Dong Y**, Franceschi P, Mattivi F, Vrhovsek U, Wehrens R. Poster. MS Imaging of Metabolites in Fruits. 3rd MS Food day, Trento, Italy. Poster, 2013.
3. **Dong Y**, Guella G, Mattivi F, Franceschi P. Poster. Tissue Surface Properties Jeopardize Quantitative DESI Imaging of Organic Acids in Grapevine Stem. 20th International Mass Spectrometry Conference, Geneva, Switzerland. Poster, 2014.
4. **Dong Y**, Malitsky S, Rogachev I, Heinig U, Aharoni A. Mass Spectrometry Imaging of Plant Metabolites. Isranalytica 2015. Israel. Poster, 2015.
5. **Dong Y**. More than Pictures: When MS Imaging Meets Histology. Spring school for advanced Imaging in Biological research, Israel. Oral Presentation, 2017.
6. **Dong Y**, Application of MS Imaging in Plant Sciences. Mass Spectrometry Imaging Symposium, France. Invited Speaker, 2017.

奖励

2014	COST Action FA1101 藏红花代谢组学奖学金, 西班牙
2011	特伦托大学全额博士奖学金, 意大利
2010	FEM GMPF 全额博士奖学金, 意大利
2008	Erasmus Mundus 全额奖学金, 欧盟
2005	全国大学生数学建模竞赛陕西省一等奖, 中国

语言

中文	母语
英语	C1
意大利语	B1
德语	A2

