

Massimo Nepi
Department of Life Sciences
University of Siena (Italy)

Curriculum vitae

Born in Poggibonsi (Siena, Italy) on November 27, 1964.

EDUCATION

- July 1991: graduated in Biological Sciences (University of Siena, Italy).
- October 1995: awarded Ph.D. in Agricultural Biology (University of Pisa, Italy).

WORKING POSITION

- January 1998-November 2001 Laboratory technician at the Department of Environmental Sciences (University of Siena, Italy)
- December 2001-December 2012 Researcher at the Department of Environmental Sciences (University of Siena, Italy)
- January 2013- October 2016 Researcher at the Department of Environmental Sciences (University of Siena, Italy)
- November 2016 – to date Associate Professor at the Department of Environmental Sciences (University of Siena, Italy)

PRINCIPAL RESEARCH THEMES

The research activities are focused mainly on the reproductive biology of higher plants and particularly the relationships between plants and animals during pollination. Most of these relationships are based on mutualism since animals are "rewarded" with pollen and nectar while they perform pollination. My studies aim to discover how diversity of rewards may affect the relationships with pollinators in the present days and during evolution.

TEACHING ACTIVITY

Since the academic year 2001-2002 he is involved in teaching activities concerning General Plant Biology and Plant Evolution for the BSc courses in Biology and Pharmacy, the MSc course in Biodiversity, Ecology and Evolution, the MSc courses Biodiversity and Nature Conservation and the MSc course in Biology.

PROFESSIONAL EXPERIENCES

- Academic years from 2002-2003 to 2007-2008 - member of the Teaching Committee of the MSc course in Biodiversity, Ecology and Evolution (University of Siena).
- December 2002 – December 2011 secretary of the Tuscany Section of the Italian Botanical Society.
- In 2003 coordinator of the working group for the self-assessment report of the Department of Environmental Sciences (University of Siena).
- June 2003 - June 2008 member of the Scientific Committee of the botanical garden "Pietro Pellegrini" (Pian della Fioba, Massa, Italy).

- 2004 - 2011 vice-director School of Doctorate in Sciences and Technology Applied to the Environment (University of Siena).
- In the academic years from 2008-2009 to 2011-2012 secretary of the Teaching Committee of the MSc course in Biodiversity and Nature Conservation (University of Siena).
- 2011 to date He is involved in the scientific management of the activities of the Botanical Garden of the University of Siena
- 2012 to date - board member of International Association for Plant-Pollinator Relationships (ICPPR) and coordinator of the Nectar Working Group of the same association.
- 2013 to date - member of the Teaching Committee of the BSc course in Biology (University of Siena).
- 2013 to date – member of the Scientific Committee of the Botanical Garden of the University of Siena.
- 2015 to date - member of the Commission for herbaceous species of the Regione Toscana(according to the Regionale Law 16 novembre 2004, n.64 Regione Toscana, Italy).
- September 13-16, 2016 invited professor at the Summer School “Flowers and pollinators”, Portici (Naples), Italy.
- November 2018 to date - President of the Teaching Committee of the BSc course in Biological Sciences (University of Siena).
- November 2018 to date - President of the Teaching Committee of the BSc course in Agribusiness (University of Siena).

REVIEW COMMITMENTS

External reviewer for MSc and PhD theses

Since 2002 He was external reviewer and examiner for MSc and PhD theses at the University of Bologna, University of Florence, University of Pretoria (SA), Catholic University of Leuven (BE), McQuire University (AU), University of Pisa, University of Naples “Federico II”, University of Ferrara.

Granting agencies

Reviewer for the following funding agencies:

Italian Ministry of University and Research (MIUR) for PRIN and FIR projects

KU Leuven (Belgium) InterDisciplinaire Onderzoeksprogrammas (IDO)

Narodowe Centrum Nauki – NCN, Poland

Journals

Current reviewer for the following international scientific journals:

Annals of Botany, Journal of Ecology, American Journal of Botany, Plant Biology, Sexual Plant Reproduction, Botanical Journal of the Linnean Society, Biology Letters, Oecologia, Oikos, Protoplasma, Plant Systematics and Evolution, Plant Species Biology, Journal of Chemical Ecology, International Journal of Plant Sciences.

EDITING, CONGRESS/SYMPOSIA ORGANIZATION

Editing

2003 - Co-editor "Nectar and Nectary: from biology to biotechnology", Springer-Wien, edited by Arthur Davis, Michael Hesse, Massimo Nepi, Ettore Pacini;

2007 - Co-editor "Nectaries and Nectar", Springer-Dordrecht, edited by Sue Nicolson, Massimo Nepi and Ettore Pacini.

2019 - Carter, C., Thornburg, R. W., Nepi, M., eds. (2019). *New Perspectives on the Biology of Nectaries and Nectars*. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-996-4

Congress/symposia organization

May 28-31 2002 "Nectar and nectaries: from biology to biotechnology" Montalcino (Siena, Italia).

July 23-30 2011 "Nectar: function, ecology and evolution" symposium in the framework of the XVIII International Botanical Congress, Melbourne (Australia).

September 15-16 2014 International Meeting on Plant Reproduction, Bologna (Italia).

PROJECTS

"Partner manipulation in plant-insect relationships" (PRIN 2017, MIUR, Università di Firenze, Università di Parma, Università di Milano, Università di Trento, Università di Siena). Research Unit coordinator, 2019-2022.

"X-Pollination" citizen science project on the importance of pollination and the decline of pollinators in collaboration with the Maremma Natural History Museum, University of Pisa, University of Florence (2020-2021)

"Physiological capabilities of nectar yeasts and their interactions with pollinators" (DAAD-MIUR 2018-19). Participant to the project.

"Polli:bright" citizen science project on the importance of pollination and the decline of pollinators in collaboration with the Maremma Natural History Museum, University of Pisa, University of Florence (2018-2019).

"Sviluppo di nuove tecnologie per la salvaguardia della salute delle api (*Apis mellifera*) e valorizzazione del miele" (APISALUS) 2007-2013 PSR Regione Toscana. Research Unit coordinator.

"Caratterizzazione citologica, ecofisiologica e biochimica delle ricompense floreali" (PRIN 2008, MIUR). Participant to the project

"Per un miele di qualità nella provincia di Siena: attualità e prospettive" - Fondazione MPS, 2007. Participant to the project

"Biologia della riproduzione applicata allo studio della biodiversità dei ginepri mediterranei" (PRIN 2005, MIUR). Participant to the project.

"Biologia riproduttiva degli endemismi vegetali" (PRIN 2003, MIUR). Participant to the project

"Variation in nectar and pollen rewards and ecological implications for pollinators" – Joint Italy/South Africa Science and Technology Agreement 2001-2004. Principal Italian Investigator

PUBLICATIONS LIST

Papers in Scientific Journal

1. CIAMPOLINI F, NEPI M, PACINI E (1993). Tapetum development in *Cucurbita pepo* (Cucurbitaceae). *PLANT SYSTEMATICS AND EVOLUTION Suppl.* 7, 13-22.
2. NEPI M, PACINI E (1993). Pollination, pollen viability and pistil receptivity in *Cucurbita pepo*. *ANNALS OF BOTANY* 72, 527-536.
3. NEPI M, CIAMPOLINI F, PACINI E (1995). Development of *Cucurbita pepo* pollen. Ultrastructure and histochemistry of the sporoderm. *CANADIAN JOURNAL OF BOTANY* 73, 1046-1057.
4. PACINI E, NEPI M, CIAMPOLINI F (1995). Il nettare e l'impollinazione. *LE SCIENZE* 321, 64-70.
5. FRANCHI G G, BELLANI L, NEPI M, and PACINI E (1996). Types of carbohydrate reserves in pollen: localization, systematic distribution and ecological significance. *FLORA* 191, 143–159.
6. NEPI M, CIAMPOLINI F, PACINI E (1996). Cell biology of the pore of *Cucurbita pepo* L. pollen. *GIORNALE BOTANICO ITALIANO* 130, 677–679.
7. NEPI M, CIAMPOLINI F, PACINI E (1996). Development and ultrastructure of *Cucurbita pepo* nectaries of male flowers. *ANNALS OF BOTANY* 78, 95–104.
8. NEPI M, PACINI E, WILLEMSE M (1996). Nectary biology of *Cucurbita pepo*: ecophysiological aspects. *ACTA BOTANICA NEERLANDICA* 45, 41–54.
9. NEPI M, PACINI E, PINZAUTI M (1997). Preliminary study on pollen digestibility by *Osmia cornuta* Latr. (Hymenoptera Megachilidae). *ACTA HORTICULTURAE* 437, 435–439.
10. PACINI E, FRANCHI G G, LISCI M, NEPI M (1997). Pollen viability related to type of pollination in six angiosperm species. *ANNALS OF BOTANY* 80, 83–87.
11. VESPRINI J L, NEPI M, PACINI E (1999). Nectary structure, nectar secretion patterns and nectar composition in two *Helleborus species*. *PLANT BIOLOGY* 1, 560–568.
12. NEPI M, FRANCHI G G (2000). Cytochemistry of mature angiosperm pollen. *PLANT SYSTEMATICS AND EVOLUTION* 222, 45–62.
13. NEPI M, FRANCHI G G, PACINI E (2001). Pollen hydration status at dispersal: cytophysiological features and strategies. *PROTOPLASMA* 216, 171–180.

14. NEPI M, GUARNIERI M, PACINI E (2001). Nectar secretion, reabsorption, and sugar composition in male and female flowers of *Cucurbita pepo*. INTERNATIONAL JOURNAL OF PLANT SCIENCES 162, 353–358.
15. NEPI M, PACINI E (2001). Effect of pistil age on pollen tube growth, fruit development and seed set in *Cucurbita pepo* L. ACTA SOCIETATIS BOTANICORUM POLONIAE 70, 165–172.
16. FRANCHI G G, NEPI M, DAFNI A, and PACINI E (2002). Partially hydrated pollen: taxonomic distribution, ecological and evolutionary significance. PLANT SYSTEMATICS AND EVOLUTION 234, 211–227.
17. VESPRINI J L, NEPI M, CRESTI L, GUARNIERI M, PACINI E (2002). Changes in cytoplasmic carbohydrate content during *Helleborus* pollen presentation. GRANA 41, 16–20.
18. NEPI M, GUARNIERI M, PACINI E (2003). Real and feed pollen of *Lagerstroemia indica*: ecophysiological differences. PLANT BIOLOGY 5, 311–314.
19. PACINI E, NEPI M, VESPRINI J L (2003). Nectar biodiversity: a short review. PLANT SYSTEMATICS AND EVOLUTION 238, 7–21.
20. NEPI M, PACINI E, NENCINI C, COLLAVOLI E, and FRANCHI G G (2003). Variability of nectar production and composition in *Linaria vulgaris* (L.) Mill. (Scrophulariaceae). PLANT SYSTEMATICS AND EVOLUTION 238, 109–118.
21. NEPI M, CRESTI L, MACCAGNANI B, LADURNER E, PACINI E (2005). From the anther to the proctodeum: pear (*Pyrus communis*) pollen digestion in *Osmia cornuta* larvae. JOURNAL OF INSECT PHYSIOLOGY 51, 749–757.
22. NEPI M, GUARNIERI M, MUGNAINI S, CRESTI L, PACINI E, PIOTTO B (2005). A modified test to evaluate pollen viability in *Juniperus communis*. GRANA 44, 148–151.
23. NICOLSON S, NEPI M (2005). Dilute nectar in dry atmosphere: nectar secretion patterns in *Aloe castanea* (Asphodelaceae). INTERNATIONAL JOURNAL OF PLANT SCIENCES 166, 227–233.
24. PACINI E, NEPI M, MUGNAINI S, FRANCHI G G, GUARNIERI M, CRESTI L, PIOTTO B (2005). La riproduzione delle Spermatophyta - aspetti ecofisiologici. INFORMATORE BOTANICO ITALIANO 37, 658–659.
25. CARIZZO GARCIA C, NEPI M, and PACINI E (2006). Structural aspects and ecophysiology of anther opening in *Allium triquetrum*. ANNALS OF BOTANY 97, 521–527.
26. GUARNIERI M, SPERANZA A, NEPI M, ARTESE D, and PACINI E (2006). Ripe pollen carbohydrates changes in *Trachycarpus fortunei*: the effect of relative humidity. INTERNATIONAL JOURNAL OF PLANT SCIENCES 19, 117–124.
27. NEPI M, HUMAN H, NICOLSON S W, CRESTI L, PACINI E (2006). Nectary structure and nectar presentation in *Aloe castanea* and *A. greatheadii* var. *daviana* (Asfodelaceae). PLANT SYSTEMATICS AND EVOLUTION 257, 45–55.

28. PACINI E, GUARNIERI M, NEPI M (2006). Pollen carbohydrates and water content during development, presentation and dispersal: a short review. *PROTOPLASMA* 228, 73-77.
29. VEZZA M, NEPI M, GUARNIERI M, ARTESE D, RASCIO N, PACINI E (2006). Ivy (*Hedera helix* L.) flower nectary and nectar ecophysiology. *INTERNATIONAL JOURNAL OF PLANT SCIENCES* 167, 519–527.
30. FRANCHI G G, NEPI M, MATTHEWS M L, and E PACINI (2007). Anther opening, pollen biology and stigma receptivity in the long blooming species, *Parietaria judaica* L. (Urticaceae). *FLORA* 202, 118–127.
31. MUGNAINI S, NEPI M, GUARNIERI M, PIOTTO B, PACINI E (2007). Pollination drop withdrawal in *Juniperus communis*: response to deposited material. *ANNALS OF BOTANY* 100, 1475–1481.
32. NEPI M, STPICZYNSKA M (2007). Nectar resorption and translocation in *Cucurbita pepo* L. and *Platanthera chlorantha* Custer (Rchb.). *PLANT BIOLOGY* 9, 93–100.
33. WAGNER R, MUGNAINI S, SNIEZKO R, HARDIE D, POULIS B, M NEPI, PACINI E, and VON ADERKAS P (2007). Proteomic evaluation of gymnosperm pollination drop proteins indicates highly conserved and complex biological functions. *SEXUAL PLANT REPRODUCTION* 20, 181–189.
34. NEPI M, STPICZYNSKA M (2008). Do plants dynamically regulate nectar features through sugar sensing? *PLANT SIGNALING & BEHAVIOR* 3, 874–876.
35. NEPI M, STPICZYNSKA M (2008). The complexity of nectar: secretion and resorption dynamically regulate nectar features. *NATURWISSENSCHAFTEN* 95, 177–184.
36. VESPRINI J L, NEPI M, CIAMPOLINI F, PACINI E (2008). Holocrine secretion and cytoplasmic content of *Helleborus foetidus* L. (Ranunculaceae) nectar. *PLANT BIOLOGY* 10, 268–271.
37. NEPI M, VON ADERKAS P, WAGNER R, MUGNAINI S, COULTER A, PACINI E (2009). Nectar and pollination drop: how different are they? *ANNALS OF BOTANY* 104, 205–219.
38. NEPI M, CRESTI L, GUARNIERI M, PACINI E (2010). Effect of relative humidity on water content, viability and carbohydrate profile of *Petunia hybrida* and *Cucurbita pepo* pollen. *PLANT SYSTEMATICS AND EVOLUTION* 284, 57–64.
39. NEPI M, SELVI F, PACINI E (2010). Variation in nectar sugar profile of *Anchusa* and allied genera (Boraginaceae). *BOTANICAL JOURNAL OF THE LINNEAN SOCIETY* 162, 616–627.
40. FRANCHI GG, PIOTTO B, M NEPI, BASKIN CC, BASKIN LM, AND PACINI E (2011). Pollen and seed desiccation tolerance in relation to degree of developmental arrest, dispersal, and survival. *JOURNAL OF EXPERIMENTAL BOTANY* 62, 5267–5281.
41. NEPI M, BINI L, BIANCHI L, PUGLIA M, ABATE M, CAI (2011). Xylan-degrading

- enzymes in male and female flower nectar of *Cucurbita pepo*. ANNALS OF BOTANY 108, 521–527.
42. NEPI M, CRESTI L, GUARNIERI M, and PACINI E (2011). Dynamics of nectar production and nectar homeostasis in male flowers of *Cucurbita pepo* L. INTERNATIONAL JOURNAL OF PLANT SCIENCES 172, 183–190.
 43. FIRON N, NEPI M, AND PACINI E (2012). Water status and associated processes marks critical stages in pollen development and functioning. ANNALS OF BOTANY 109, 1201–1213.
 44. NEPI M, SOLIGO C, NOCENTINI D, ABATE M, GUARNIERI M, CAI G, BINI L, PUGLIA M, BIANCHI L, PACINI E (2012). Amino acids and protein profile in floral nectar: much more than a simple reward. FLORA 207, 475–481.
 45. NOCENTINI D, PACINI E, GUARNIERI M, NEPI M (2012). Flower morphology, nectar traits and pollinators of *Cerintho major* (Boraginaceae-Lithospermeae). FLORA 207, 186–196.
 46. STAHL J M, NEPI M, GALETTO L, RODRIGUES MACHADO S, GUIMARAES E (2012). Functional aspects of floral nectar secretion of *Ananas ananassoides*, an ornithophilous bromeliad from the Brazilian savanna. ANNALS OF BOTANY 109, 1243–1252.
 47. STPICZYNSKA M, NEPI M, ZYCH M (2012). Secretion and composition of nectar and the structure of perigonalnectaries in *Fritillaria meleagris* L. (Liliaceae). PLANT SYSTEMATICS AND EVOLUTION 298, 997–1013.
 48. VESPRINI J, PACINI E, NEPI M (2012). Floral nectar production in *Helleborus foetidus* L.: an ultrastructural study. BOTANY 90, 1308–1315.
 49. VON ADERKAS P, NEPI M, MARLIES R, BUFFI F, GUARNIERI M, COULTER A, GILL K, LAN P, RZEMIENIAK S, PACINI E (2012). Post-pollination prefertilization drops affect germination rates of heterospecific pollen in larch and Douglas-fir. SEXUAL PLANT REPRODUCTION 25, 215–225.
 50. NOCENTINI D, PACINI E, GUARNIERI M, MARTELLI D, NEPI M (2013). Intrapopulation heterogeneity in floral nectar attributes and foraging insects of an ecotonal Mediterranean species. PLANT ECOLOGY 214, 799–809.
 51. FRANCHI G G, NEPI M, AND PACINI E (2014). Is flower/corolla closure linked to decrease in viability of desiccation-sensitive pollen? - facts and hypotheses: a review of current literature with the support of some new experimental data. PLANT SYSTEMATICS AND EVOLUTION 300, 577–584.
 52. NEPI M. (2014). Beyond nectar sweetness: the hidden ecological role of non-protein amino acids. JOURNAL OF ECOLOGY 102, 108–115.
 53. PACINI E, SCIANNANDRONE N, NEPI M (2014). Floral biology of the dioecious species *Laurus nobilis* L. (Lauraceae). FLORA 209, 153–163.
 54. ROSSI M, FISOGNI A, NEPI M, QUARANTA M, GALLONI M (2014). Bouncy versus idles: on the different role of pollinators in the generalist *Gentiana lutea* L.

FLORA 209, 164–171.

55. GRASSO D, PANDOLFI C, BAZIHZINA N, NOCENTINI D, NEPI M, AND MANCUSO S (2015). Extrafloral-nectar based partner manipulation in plant-ant relationship. *AOB PLANTS* 7, 1–15.
56. MITTELBACH M, YURKOV AM, NOCENTINI D, NEPI M, WEIGEND M, BEGEROW D (2015). Nectar sugars and bird visitation define a floral niche for basidiomycetous yeast on the Canary Islands. *BMC ECOLOGY* 15, 2.
57. STPICZYŃSKA M, NEPI M, ZYCH M (2015). Nectaries and male-biased nectar production in protandrous flowers of a perennial umbellifer *Angelica sylvestris* L. (Apiaceae). *PLANT SYSTEMATICS AND EVOLUTION* 301, 1099-1113.
58. LUEBERT F, CECCHI L, FROHLICH MW, GOTSCHLING M, GUILLIAMS CM, HASENSTAB-LEHMAN KE, HILGER HH, MILLER JS, MITTELBACH M, NAZAIRE M, NEPI M, NOCENTINI D, OBER D, OLMSTEAD RG, SELVI F, SIMPSON MG, SUTORÝ K, WALDÈS B, WALDEN GK, WEIGEND M. 2016. Familial classification of the boraginales. *TAXON* 65, 502–522.
59. CARRIZO-GARCIA C, NEPI M, PACINI E. 2017. It is a matter of timing: asynchrony during pollen development and its consequences on pollen performance in angiosperms-a review. *PROTOPLASMA* 254, 57–73..
60. CAMILA VAZ DE SOUZA, MASSIMO NEPI, SILVIA RODRIGUES MACHADO AND ELZA GUIMARÃES. 2017. Floral biology, nectar secretion pattern and fruit set of a threatened Bignoniaceae tree from Brazilian tropical forest. *FLORA* 227, 46–55.
61. MASSIMO NEPI. 2017. New perspectives in nectar evolution and ecology: simple alimentary reward or a complex multi-organismic interaction? *ACTA AGROBOTANICA* 70, 1704. DOI: <https://doi.org/10.5586/aa.1704>
62. MASSIMO NEPI, STEFAN LITTLE, MASSIMO GUARNIERI, DANIELE NOCENTINI, NATALIE PRIOR, JULIA GILL, P. BARRY TOMLINSON, STEFANIE M. ICKERT-BOND, CARY PIRONE, ETTORE PACINI, AND PATRICK VON ADERKAS. 2017. Phylogenetic and functional signals in gymnosperm ovular secretions. *ANNALS OF BOTANY* 120, 923-936.
63. FELICOLI ANTONIO, SAGONA SIMONA, GALLONI MARTA, BORTOLOTTI LAURA, BOGO GHERARDO, GUARNIERI MASSIMO, NEPI MASSIMO. 2018. Effects of non-protein amino acids on survival and locomotion of *Osmia bicornis*. *INSECT MOLECULAR BIOLOGY* 27: 556-563.
64. NEPI MASSIMO, GRASSO DONATO, MANCUSO STEFANO. 2018. Nectar in plant-insect mutualistic relationships: from food reward to partner manipulation. *FRONTIERS IN PLANT SCIENCES* 9: 1063.
65. CANDOTTO CARNIEL FABIO, GORELLI DAVIDE, FLAHAUT EMMANUEL, FORTUNA LORENZO, DEL CASINO CECILIA, CAI GIAMPIERO, NEPI MASSIMO, PRATO MAURIZIO, TRETIACH MAURO. 2018. Graphene oxide impairs the pollen performance of *Nicotiana tabacum* and *Corylus avellana* suggesting

potential negative effects on the sexual reproduction of seed plants.
ENVIRONMENTAL SCIENCE. NANO 5: 1608-1617.

66. ROSBAKH SERGEY, PACINI ETTORE, NEPI MASSIMO, POSCHLOD PETER. 2018. An unexplored side of regeneration niche: seed quantity and quality is determined by the effect of temperature on pollen performance. FRONTIERS IN PLANT SCIENCES 9: 1036.
67. MARCIN ZYCH, ROBERT R JUNKER, MASSIMO NEPI, MAŁGORZATA STPICZYŃSKA, BARBARA STOLARSKA, KATARZYNA ROGUZ. 2019. Spatiotemporal variation in the pollination systems of a supergeneralist plant: is *Angelica sylvestris* (Apiaceae) locally adapted to its most effective pollinators? ANNALS OF BOTANY 123, 415-428.
68. BERNI, R., CANTINI, C., GUARNIERI, M., NEPI, M., HAUSMAN, J., GUERRIERO, G., ROMI, M, CAI, G. 2019. Nutraceutical Characteristics of Ancient *Malus x domestica* Borkh. Fruits Recovered across Siena in Tuscany. MEDICINES 6, 27. DOI: 10.3390/medicines6010027
69. BOGO GHERARDO, BORTOLOTTI LAURA, SIMONA SAGONA, ANTONIO FELICIOI, MARTA GALLONI, MARTA BARBERIS, MASSIMO NEPI. 2019. Effects of nectar non-protein amino acids on bee survival and behavior. JOURNAL OF CHEMICAL ECOLOGY 45, 278-285.
70. VERONICA CONTI, LAVINIA MARERI, CLAUDIA FALERI, MASSIMO NEPI, MARCO ROMI, GIAMPIERO CAI, CLAUDIO CANTINI. 2019. Drought Stress Affects the Response of Italian Local Tomato (*Solanum lycopersicum* L.) Varieties in a Genotype-Dependent Manner. PLANTS 8(9), 336.
<https://doi.org/10.3390/plants8090336>
71. CARTER, C., THORNBURG, R. W., NEPI, M., eds. (2019). New Perspectives on the Biology of Nectaries and Nectars. Lausanne: Frontiers Media. doi:
<https://doi.org/10.3389/978-2-88945-996-4>
72. ZANELLI, D., CARNIEL, F.C., GARRIDO, M., FORTUNA, L., NEPI, M., CAI, G., et al. (2020). Effects of few-layer graphene on the sexual reproduction of seed plants: An in vivo study with *Cucurbita pepo* L. NANOMATERIALS, 10(9), 1-17.
73. ZAMBON, V., AGOSTINI, K., NEPI, M., LANZONI ROSSI, M., PINHEIRO MARTINELLI, A., & SAZIMA, M. (2020). Nectar as manipulator: how nectar traits influence changes in pollinator groups of *Aechmea vanhoutteana*, a bromeliad from the Brazilian Atlantic Forest. BOTANICAL JOURNAL OF THE LINNEAN SOCIETY, 192(4), 803-815.
74. CANDOTTO CARNIEL, F., FORTUNA, L., NEPI, M., CAI, G., DEL CASINO, C., ADAMI, G., ET AL. (2020). Beyond graphene oxide acidity: novel insights into graphene related materials effects on the sexual reproduction of seed plants. JOURNAL OF HAZARDOUS MATERIALS, 393, 1-9.
75. ZAMBON, V., AGOSTINI, K., NEPI, M., LANZONI ROSSI, M., PINHEIRO MARTINELLI, A., & SAZIMA, M. (2020). The role of nectar traits and nectary

morphoanatomy in the plant-pollinator interaction between *Billbergia distachia* (Bromeliaceae) and the hermit *Phaethornis eurynome* (Trochilidae). *BOTANICAL JOURNAL OF THE LINNEAN SOCIETY*, 192(4), 816-827.

76. SILVA, S., MACHADO, S., NEPI, M., & RODRIGUES, T. (2020). Structure and function of secretory glochids and nectar composition in two Opuntioideae (Cactaceae) species. *BOTANY*, 98(8), 425-437.

Contributes to multi-authored books

77. BOSCAGLI A, LISCI M, NEPI M (1997). Effetto dell'arsenico e del boro sulla germinazione dei semi e sulla crescita delle plantule di alcune specie di ambienti collinari toscani. In: "Geotermia e bioindicatori: un contributo per le valutazioni sull'impatto ambientale", a cura di Loppi S. Edizioni Regione Toscana. Firenze.
78. NEPI M, PACINI E (1999). What may be the significance of polysiphony in *Lavatera arborea*? In: "Anther and pollen, from biology to biotechnology", Clement C., Pacini E., Audran J.C. eds. Springer Verlag, Berlin. pp 13-20.
79. NEPI M (2000). Il verde nei parchi e giardini delle ville senesi. In: Vita in villa nel senese. A cura di Ettore Pacini e Lucia Bonelli Conenna. Pacini Editore, Pisa. pp 183-225.
80. NEPI M (2001). Alberi ed arbusti della flora mellifera della regione mediterranea. In: "Propagazione per seme di alberi e arbusti della flora mediterranea" a cura di Piotta B, Di Noi A. ANPA, Roma. Pp 43-49.
81. MUGNAINI S, NEPI M, PACINI E (2001). Considerazioni sull'impollinazione delle piante protette. In: "Liste rosse e blu della flora Italiana" a cura di Sandro Pignatti, Patrizia Menegoni, Valeria Giacanelli. ANPA, Roma. Pp. 247-258.
82. NEPI M (2002). Considerazioni generali sullo stato attuale delle aree verdi storiche della provincia di Siena. In: "Metodologie di studio per i giardini storici" a cura di Paolo Grassoni. Quaderni dell'Archivio n. 8. Editrice Don Chisciotte, San Quirico d'Orcia. Pp 57-62.
83. DAFNI A, PACINI E, NEPI M (2005). Pollen and stigma biology. In " Practical pollination", biology, Amots Dafni, Peter Kevan, Brian C. Husband (eds.). Enviroquest, Cambridge (Canada), pp. 83-146.
84. NEPI M (2005). Physiological and ecological aspects of pollination in *Cucurbita pepo*. In "First short course on pollination of horticultural plants", Guerra Sanz J.M., Roldan Serrano A., Mena Granero A. (eds.). Centro de investigation y formacion agraria, Almeria (Spain), p. 57-70.
85. NEPI M (2007). Nectary structure and ultrastructure. In: Nectaries and nectar, Nicolson S.W., Nepi M., Pacini E. (eds.). Springer, Dordrecht, pp. 129-166.
86. PACINI E, NEPI M (2007). Nectar production and presentation. In: Nectaries and

- nectar, Nicolson S.W., Nepi M., Pacini E. (eds.). Springer, Dordrecht, pp. 167-214.
87. NEPI M, VON ADERKAS P, PACINI E (2012). Sugary Exudates in Plant Pollination. 155–185. In: “Secretions and Exudates in Biological Systems” Vivanco J.M, Baluska F. (eds.) Springer, Berlin, pp. 155-185.
 88. NEPI MASSIMO (2014). Nectar: plant interface for complex interaction with biotic environment. 268–283. In: “Reproductive Biology of Plants” Ramawat K, Merillon JM, Shivanna KR (eds.). CRC Press, Boca Raton (CA, USA), pp. 268-283.
 89. NEPI MASSIMO (2018). Interazione tra fiori ed animali impollinatori: un sistema fondamentale, in parte sconosciuto. In: “Interazioni Piante-Ambiente” a cura di Luigi Sanità di Toppi, Piccin (Padova, Italia), pp. 269-271.

Congress Abstracts

90. NEPI M. AND PACINI E. 1990. Pollination ecology of *Cucurbita maxima* (cv Lunga di Firenze). Congresso Società Botanica Italiana 1990. *Giornale Botanico Italiano* 124: 226.
91. NEPI M. AND PACINI E., 1993. Aspects of nectary cytology and ecology. Congresso Società Botanica Italiana 1993. *Giornale Botanico italiano* 127: 637.
92. NEPI M. AND PACINI E., 1993. First observations on nectaries and nectar of *Cucurbita pepo*. Congresso Società Botanica Italiana 1993. *Giornale Botanico Italiano*, 127: 1208-1210.
93. NEPI M., PACINI E. AND CIAMPOLINI F., 1993. Pollen and tapetum plastids in *Cucurbita pepo*. Congresso Società Botanica Italiana 1993. *Giornale Botanico italiano*, 127: 331-333.
94. NEPI M. AND PACINI E., 1994. Different resistance to pollen dehydration in several Cucurbitaceae. Congresso Società Botanica Italiana 1994. *Giornale Botanico Italiano*, 128: 71.
95. NEPI M. AND PACINI E., 1994. Nectary structure and types in several Cucurbitaceae. Congresso Società Botanica Italiana 1994. *Giornale Botanico Italiano*, 128: 233.
96. NEPI M., PANTI C. AND PACINI E., 1994. Cytophysiological characteristics of pollen of several species of Cucurbitaceae. In: "Frontiers in sexual plant reproduction research", Heberle-Borse E., Hesse M. and Vicente O. eds. University of Vienna, p. 96.
97. PACINI E., FRANCHI G.G., LISCI M. AND NEPI M., 1994. Is pollen viability related to type of pollination? In: "Frontiers in sexual plant reproduction research", Heberle-Borse E, Hesse M. and Vicente O. eds. University of Vienna, p. 50.
98. NEPI M. AND PACINI E., 1995. How and why plants save on nectar. *Giornale Botanico Italiano*, 129: 518.
99. NEPI M. AND PACINI E., 1995. Differentiation and dedifferentiation of plastids in the nectary of *Cucurbita pepo*. *Giornale Botanico Italiano*, 129: 900-902.

100. NEPI M., CIAMPOLINI F. AND PACINI E. 1996. Cell biology of the pore of *Cucurbita pepo* L. pollen. *Giornale Botanico Italiano*, 130: 677-679.
101. NEPI M, LISCI M. 1996. Pollination of two dioecious plants: *Mercurialis annua* L. (Euphorbiaceae) and *Bryonia dioica* L. (Cucurbitaceae). *Giornale Botanico Italiano*, 130(1): 90-94.
102. NEPI M, PACINI E. 1996. Plastid pathways in some reproductive cells. *Plant Physiology and Biochemistry*, special issue: 107-108.
103. NEPI M, PACINI E. 1997. Effetto dell'età del pistillo sulla crescita dei tubetti pollinici, sulla maturazione dei frutti e sulla produzione di semi in *Cucurbita pepo*. *Convegno Nazionale di Citologia*, Siena 24-25 Giugno 1997, Abstracts p. 73.
104. NEPI M, PACINI E, PINZAUTI M. 1997. Preliminary study on pollen digestibility by *Osmia cornuta* Latr. (Hymenoptera Megachilidae). *Acta Horticulturae*, 437: 435-439.
105. NEPI M, PACINI E. 1998. What could be the meaning of polysiphony? *Proceedings of the congress "Anther and pollen: from biology to biotechnology"*, Reims 9th-10th April 1998, p. 9.
106. NEPI M, PACINI E. 1998. Nutritive and reproductive pollen of *Lagerstroemia*: cytological differences. *XVth International Congress on Sexual Plant Reproduction*, Wageningen 16th-21st August 1998, Abstracts p. 44.
107. NEPI M, VESPRINI J., GUARNIERI M., CARUSO A.M., PACINI E. 1999. Presenza di inulina e di fruttani nei granuli di polline e nelle spore. *Riunione del gruppo di lavoro per la citologia e differenziamento dei tessuti della S.B.I. – Torino 17-19 Giugno 1999*, Abstracts p. 12.
108. NEPI M., VAN AS H., KEIJZER K., PACINI E. 2000. Water Content in *Cucurbita pepo* pollen. *XVIth International Congress on Sexual Plant Reproduction – Banff (Alberta, Canada) 01-04 Aprile 2000*, abstracts p. 74
109. NEPI M., VESPRINI J.L., GUARNIERI M., FRANCHI G.G., PACINI E. 2000. Pollen Carbohydrate reserves and water content. *XVIth International Congress on Sexual Plant Reproduction – Banff (Alberta, Canada) 01-04 Aprile 2000*, abstracts p. 18.
110. NEPI M., VAN AS H., KEIJZER K., SHEENEN T., HEEMSKERK A., PACINI E. 2000. Water state in pollen grains: two different models. *4th User Meeting of the European Large-Scale Facilities for NMR, Noordwijkerhout (The Netherlands) 6-7 Ottobre 2000*, abstracts p. 23.
111. MUGNAINI S., NEPI M., CRESTI L., PIOTTO B., PACINI E. 2001. Artificially induced male competition to produce seeds for bioremediation purposes. *Nursery Production and Stand Establishment of Broad Leaves – Roma 7-10 Maggio 2001*, abstracts p. 49.
112. NEPI M., CRESTI L., PACINI E. 2001. Carbohydrate reserves and water content in angiosperm pollen. *From Gametes to Embryos. Xth International Conference on Plant Embriology - Nitra (Slovak Republic), 5-8 Settembre 2001*.
113. MUGNAINI S, NEPI M., PACINI E. 2001. Biennial monitoring of honeybee diet.

XXXVII International Apicultural Congress, Durban (South Africa) 28 October – 1 November 2001, abstracts p. 142-143.

114. CRESTI L., NEPI M., MACCAGNANI B., LADURNER E., PACINI E. 2001. Pear pollen digestion by *Osmia cornuta* larvae. XXXVII International Apicultural Congress, Durban (South Africa) 28 October – 1 November 2001, abstracts pp. 20-21.
115. NEPI M., PACINI E., VESPRINI J.L. 2001. Nectar resorption and pollination economy. Proceedings of the VIII International Pollination Symposium, Mosonmagyaróvár (Hungary) 10-14 July 2000. Acta Horticulturae 561: 123-126.
116. NEPI M., VAN AS H., KEIJZER C.J., PACINI E. 2002. Traslocazione di fluidi durante la maturazione dell'antera di Cucurbita pepo. Riunione congiunta Gruppi di Lavoro Biotecnologie e Differenziamento, Biologia Cellulare e Molecolare. Verona 12-14 Giugno 2002. p. 31.
117. MACCAGNANI B., LADURNER E., TESORIERO D., SANTI F., NEPI M., CRESTI L., PACINI E., MAINI S. 2002. Ricerche sulla biologia di *Osmia cornuta* (Latreille) (Hymenoptera, Megachilidae) per la messa a punto di un allevamento in cattività. Atti del convegno finale del progetto AMA "Il ruolo della ricerca in apicoltura". Bologna 14-16 Marzo 2002. pp. 409-414.
118. MACCAGNANI B., LADURNER E., NEPI M., CRESTI L., TESORIERO D., SANTI F., PACINI E. 2002. Processi digestivi nelle larve di *Osmia cornuta* (Latreille) (Hymenoptera, Megachilidae) e dieta artificiale. XIX Congresso Nazionale Italiano di Entomologia. Catania 10-15 Giugno 2002. p254.
119. PACINI E., MUGNAINI S., ARTESE D., GUARNIREI M., NEPI M. Ricompense offerte dalle piante agli impollinatori: uso e consumo da parte degli Apoidei. XIX Congresso Nazionale Italiano di Entomologia. Catania 10-15 Giugno 2002. p251.
120. MUGNAINI S., NEPI M., PIOTTO B., PACINI E. 2002. Pollination and pollination drop in *Juniperus*. XVII IASPRR Congress, Lublin (Poland) 9-13 July 2002. p. 104.
121. NEPI M., VAN AS H., SCHEENEN T., KEIJZER C.J., PACINI E. 2002. The late stages of *Cucurbita pepo* anther development: strategies to control pollen water content. XVII IASPRR Congress, Lublin (Poland) 9-13 July 2002. p. 106.
122. M NEPI, M GUARNIERI, and E PACINI (2003). Anther opening and pollen during exposure and dispersal. XI International Conference on Plant Embryology, Brno 1-3 Settembre 2003. p. 46-46.
123. NEPI M, MUGNAINI S, PACINI E, PIOTTO B (2003). Effetto di particelle abiotiche sull'efficienza riproduttiva del genere *Juniperus*. XIII Congresso SITE, Como 08-10 Settembre 2003. pp.9-10.
124. NEPI M, MUGNAINI S, NENCINI C, FRANCHI G, and PACINI E (2003). The micropilar drop and pollination in Gymnosperm. XVII Annual Meeting Scandinavian Association for Pollination Ecologists, Oksøen. p. 31.
125. NEPI M, MUGNAINI S, NENCINI C, G FRANCHI, and PACINI E (2003). La goccia micropilare e l'impollinazione nelle Gimnosperme. 74-74. 98° Congresso Società Botanica Italiana, Catania 24-26 Settembre 2003. p. 74

126. S MUGNAINI, M NEPI, E PACINI, and B PIOTTO (2003). Vulnerabilità dell'impollinazione nelle conifere. 27–27. VI Congresso SISEF, Matera 7-10 Ottobre 2003. p. 27.
127. NENCINI C, MASSARELLI P, NEPI M, PACINI E, and FRANCHI G G (2004). Valutazione dell'attività antiossidante di mieli monoflora. Studi preliminari. Fitomed 2004 - 1° Congresso Intersocietà sulle Piante Medicinali, Trieste 16-19 Settembre 2004 p. 57–57.
128. STAHL J, GUIMARAES E, NEPI M, MACHADO S (2009). Dinâmica da secreção de néctar de *Ananas ananassoides* (Baker) L.B.Smith (Bromeliaceae) e sua relação com os polinizadores em cerrado stricto sensu . Análises preliminares. II Congresso LatinoAmericano de Ecologia, São Laurenço, Minas Gerais (Brazil) 10-17 Settembre 2009. pp. 75–81.
129. STAHL J R, GUIMARAES E, NEPI M, AND MACHADO S (2010). Floral visitors, nectar production, nectar carbohydrate composition of *Ananas ananassoides* (Bromeliaceae). XXI International Congress on Sexual Plant Reproduction, Bristol 02-06 August 2010.
130. NEPI M., CAI G., BINI L., GUARNIERI M., PACINI E. 2011. Protein profiles in floral nectar: beyond a simple reward. International Botanical Congress. Melbourne, 23-30 Luglio 2011. Formato elettronico.
131. NEPI M., GUARNIERI M., NOCENTINI D., PACINI E. 2011. Nectar and nectary character state. International Botanical Congress. Melbourne, 23-30 Luglio 2011. Formato elettronico.
132. NOCENTINI D., SELVI F., ACKERMANN M., PACINI E., NEPI M. (2011). Composizione in zuccheri del nettare fiorale nella tribù delle Lithospermeae (Boraginaceae). 106° Congresso società Botanica Italiana, Genova 21-23 Settembre 2011. p. 92.
133. NEPI M, NOCENTINI D, GUARNIERI M, GALLONI M, PACINI E (2012). Beyond nectar sweetness: are aminoacid complements related to pollinator guilds? ApiEcoflora 2012, San Marino, 4-6 Ottobre 2012. p. 48.
134. NOCENTINI D, MARTELLI D, PACINI E, GUARNIERI M, SELVI F, NEPI M (2012). Composizione del nettare nel genere Buglossoides (Boraginaceae, Lithospermeae). 107° Congresso Società Botanica Italiana, Benevento 18-22 Settembre 2012. p. 125.
135. BOGO G, BORTOLOTTI L, BARBERIS M, FISOGNI A, GALLONI M, NEPI M (2014). The role of nectar aminoacidic composition in pollinator preference. International Meeting on Plant Reproduction, Bologna 15-16 September 2014. p. 24.
136. BOGO G, BORTOLOTTI L, BARBERIS M, GALLONI M, FISOGNI A, QUARANTA M, NEPI M (2014). Is pollinator activity influenced by non-protein nectar amino acids? International Meeting on Plant Reproduction, Bologna 15-16 September 2014. p. 25.
137. BORTOLOTTI L, BOGO G, FISOGNI A, BARBERIS M, NEPI M, AND GALLONI

- M (2014). The role of nectar aminoacidic composition in plant-pollinator relationship. ApiEcoFlora 2014, Roma 5-7 Novembre 2014. p. 22.
138. NEPI M, NOCENTINI D, GUARNIERI M, BOGO G, BORTOLOTTI L, GALLONI M, SAGONA S, FELICIOLI A (2014). Non-protein amino acids in nectar: are they tools to modulate insect behaviour and increase plant reproductive output? International Meeting on Plant Reproduction, Bologna 15-16 September 2014. p. 12.
139. NOCENTINI D, GUARNIERI M, CECCHI L, SELVI F, WEIGEND M, MACCHERINI S, NEPI M (2014). Diversity of floral nectar composition in the tribe Lithospermeae (Boraginaceae). International Plant Science Conference (IPSC) from Nature to Technological Exploitations, Firenze 2-5 Settembre 2014. Formato elettronico.
140. SAGONA S, NEPI M, BORTOLOTTI L, GALLONI M, BOGO G, FELICIOLI A (2014). Monitoring of *Osmia* bees reared with beta-Alanine and gamma-Amino Butyric acid diets. International Meeting on Plant Reproduction, Bologna 15-16 September 2014. p. 13.
141. SAGONA S, NEPI M, FELICIOLI A (2014). Preliminary investigation on the effects on survival rate and on behaviour of *Osmia cornuta* and *Osmia bicornis* reared with beta-Alanine and gamma-Amino Butyric Acid diets. ApiEcoFlora 2014, Roma 5-7 Novembre 2014. p. 18.
142. BOGO G, BORTOLOTTI L, SAGONA S, FELICIOLI A, GALLONI M, NEPI M. (2016). Role of non protein amino acids in nectars: effects on bees behavior. VII EurBee Congress, Cluj-Napoca (Romania), 7-9 September 2016. Abstract book.
143. MASSIMO NEPI, DANIELE GIANNETTI, CRISTINA CASTRACANI, ALESSANDRA MORI, MASSIMO GUARNIERI, DONATO A. GRASSO, STEFANO MANCUSO (2017). Foraging ants affect the activity of extra-floral nectary and nectar composition of *Prunus avium* L. 112° Congresso Società Botanica Italiana (IV International Plant Science Conference), Parma 20-22 Settembre 2017. Abstract book (formato elettronico).
144. FABIO CANDOTTO CARNIEL, DAVID GORELLI, ALICE MONTAGNER, GIAMPIERO CAI, MASSIMO NEPI, ILARIA CORSI, SUSANNA BOSI, MAURIZIO PRATO & MAURO TRETACH (2017). Effects of graphene based materials on pollen germination. International Conference of the Environmental Effects of Nanoparticles and Nanomaterial (CEENN 2017), Birmingham 3-6 Settembre 2017. Abstract book (formato elettronico).
145. GHERARDO BOGO, JOAN RABASSA JUVANTENY, CATERINA MACCELLI, ALESSANDRO FISOGLI, LAURA BORTOLOTTI, MASSIMO NEPI, MARTA GALLONI (2017). Nectar chemistry is not only a plant's affair. 7° Congresso Società Italiana di Biologia Evoluzionistica, Roma 28-31 Agosto 2017. Abstract book pag. 67.
146. DONATO A. GRASSO, DANIELE GIANNETTI, CRISTINA CASTRACANI, ALESSANDRA MORI, MASSIMO NEPI, STEFANO MANCUSO (2017). From mutualism to manipulation in ant-plant relationships mediated by extrafloral nectar. 27° Congresso Società Italiana di Etologia, Pisa 28-31 Giugno 2017. Abstract book, pag. 25.

147. NEPI MASSIMO, GUARNIERI MASSIMO, GALLONI MARTA, BOGO GHERARDO, SAGONA SIMONA, FELICIOLI ANTONIO, BORTOLOTTI LAURA (2018). Secondary metabolites of floral nectar affect survival and locomotion of pollinators. V International Plant Science Conference, Salerno 12-15 Settembre 2018.
148. FABIO CANDOTTO CARNIEL, DAVID GORELLI, MATTEO CROSERA, EMMANUEL FLAHAUT, MATTIA BRAMINI, LORENZO FORTUNA, GIAMPIERO CAI, MASSIMO NEPI, SUSANNA BOSI, ESTER VÁZQUEZ FERNANDEZ-PACHECO, MAURIZIO PRATO, MAURO TRETACH. "Graphene based materials affect the pollen performance of *Nicotiana tabacum* and *Corylus avellana*". NanoTox 2018, Düsseldorf/Neuss 18-21 September 2018. Abstract book, p. 54.
149. VIVIAN ZAMBON, KAYNA AGOSTINI, ADRINA PINHEIRO MATINELLI, MONICA LANZONI ROSSI, MARLIES SAZIMA (2019). Nectary morphoanatomy and nectar traits of the bromeliad *Billbergia distachia* are strongly related to its single pollinator favoring plant reproduction. EcoFlor2019, Granada, March 14-16 2019. Abstract book, pag. 66.
150. DONATO A. GRASSO, DANIELE GIANNETTI, CRISTINA CASTRACANI, ALESSANDRA MORI, MASSIMO NEPI, STEFANO MANCUSO. A special case in ant-plant relationships: mutualism or partner manipulation mediated by extrafloral nectar? Congresso SIBE 2019, Padova 1-4 September 2019. Abstract Book.
151. MASSIMO NEPI. I metaboliti secondari del nettare: quale ruolo nell'interazione piante-impollinatori. Workshop "Dalle molecole agli ecosistemi: la ricerca botanica in Toscana", Società Botanica Italiana - Sezione Toscana, Empoli 23 Novembre 2018.
152. TAFI ELENA, SAGONA SIMONA, MEUCCI VALENTINA, NEPI MASSIMO, FELICIOLI ANTONIO. Proline enriched diet effects on haemolymph amino acid composition in *Osmia bicornis* (L.). EUR-BEE, Ghent (Belgium) 12-20 September 2018. Abstract book, p. 244.
153. GHERARDO BOGO, JOAN RABASSA JUVANTENY, CATERINA MACCELLI, ALESSANDRO FISOGNI, LAURA BORTOLOTTI, MASSIMO NEPI, LUCIA CONTE, MARTA GALLONI. Nectar chemistry is not only a plant's affair. XV Ecoflor Congress, Palma de Mallorca (Spain) 1-3 February 2018. Abstract book, p. 9.
154. Massimo Nepi, Gherardo Bogo, Massimo Guarnieri, Simona Sagona, Antonio Felicioli, Laura Bortolotti, Marta Galloni. Effects of non-protein amino acids of floral nectar on survival and locomotion of pollinators. VI International Plant Science Conference (IPSC), 114° Congresso Nazionale della Società Botanica Italiana. Padova (Italy), 4-6 September 2019. Abstract book, formato elettronico.
155. FABIO CANDOTTO CARNIEL, DAVIDE ZANELLI, LORENZO FORTUNA, GIAMPIERO CAI, MASSIMO NEPI, ESTER VÁZQUEZ FERNANDEZ-PACHECO, MAURIZIO PRATO, MAURO TRETACH. Graphene related nanomaterials and their potential effects on the sexual reproduction of seed plants. VI International Plant Science Conference (IPSC), 114° Congresso Nazionale della Società Botanica Italiana. Padova, (Italy), 4-6 September 2019. Abstract book, formato elettronico.

156. GIORDANO, E., CALABRESE, D., GUARNIERI, M., & NEPI, M. (2020). Il nettare extraflorale come interfaccia per relazioni simbiotiche pianta-formiche nella difesa indiretta. In 115° Congresso della Società Botanica Italiana - Volume degli abstract (pp.121-121).
157. CALABRESE, D., GIORDANO, E., GUARNIERI, M., & NEPI, M. (2020). Composition of the floral nectar in the Lithospermeae tribe - Clade C (Boraginaceae) and their pollinator guilds. In 115° Congresso della Società Botanica Italiana - Volume degli abstract (pp.120-120).