

Autoriza Trato Directo para la adquisición del servicio que se indica

## **RESOLUCIÓN EXENTA N° 4190**

Santiago, 27 de julio de 2022

### **VISTOS:**

Lo dispuesto en el Artículo 10°, N° 5 del Decreto N° 250, de 2004 del Ministerio de Hacienda que aprueba el reglamento de la Ley N° 19.886 de Bases sobre Contratos Administrativos de Suministro y Prestación de Servicios; el Decreto N° 821 de julio de 2019 que modifica el Decreto N° 250; el artículo 20 de la ley N° 18.010; El decreto supremo N° 180 de 1987, del Ministerio de Hacienda; los Decretos Universitarios N°s. 1043 de 2022, 1261 de 2021 y 863 de 2022.

### **CONSIDERANDO:**

1. Que, el Instituto de Nutrición y Tecnología de los Alimentos, Doctor Fernando Monckeberg Barros (INTA), en adelante INTA, es una institución dependiente de la Universidad de Chile, cuyos servicios y objetivos están orientados a la docencia, investigación y nutrición.
2. Que, en el marco de las labores investigativas realizadas por el Proyecto de Inserción U-Inicia de INTA, se hace necesario adquirir el servicio de publicación de artículo de investigación, titulado: "Antimicrobial multiresistant phenotypes of genetically diverse Pseudomonas spp. isolates associated with tomato plants in Chilean orchards", en revista "Horticulturae", con cargo al centro de costo 7271.
3. Que, revisado el catálogo de compras de productos y servicios a través del portal [www.mercadopublico.cl](http://www.mercadopublico.cl), se concluye que el servicio requerido no se encuentra disponible en el sistema de convenios marco de la Dirección de Compras y Contratación Pública.
4. Que, la revista "Horticulturae", aceptó la publicación del artículo suscrito por los profesionales: Pamela Córdova, Juan Pablo River-González, Victoria Rojas-Martínez, Pablo Villarreal, Alan Zamorano, Nicola Fiori, Daniel San Martín,

Francisca Vera, Eduardo Gálvez, Jaime Romero, Carolina Ilabaca-Díaz, Jaime Barrueto y Gastón Higuera.

5. Que, la revista "Horticulturae", es de propiedad de la empresa de origen suizo **MDPI AG**, tal y como se desprende de la información disponible en el sitio web de esta última. (<https://www.mdpi.com/journals>).
6. Que, la edición y publicación de los artículos que se suscriben en cada edición de la revista "Horticulture", son realizados por el proveedor de origen suizo **MDPI AG**, en el país de origen del mismo.
7. Que, según los motivos expuestos en carta con fecha 25/07/2022, suscrita por el profesional Sr. Gastón Higuera, el servicio requerido permitirá contribuir al conocimiento y el resguardo sobre todo en un tema tan delicado como lo es la resistencia a antibióticos y cobre, siendo la publicación científica una muestra de la excelencia académica del programa llevado a cabo por esta institución.
8. Que, en consideración de lo antes expuesto, la empresa de origen suizo **MDPI AG**, envió con fecha 22/07/2022, documento denominado "Invoice" N° 1793116, por la publicación del artículo referido.
9. Que, dado lo anterior, el Director de INTA, autoriza la adquisición del servicio de publicación de artículo de investigación titulado: "Antimicrobial multiresistant phenotypes of genetically diverse Pseudomonas spp. isolates associated with tomato plants in Chilean orchards", en revista "Horticulturae".
10. Que, debido a las características particulares de la contratación y a que la empresa que provee el servicio requerido es extranjera, se hace imposible para esta entidad efectuar el proceso de compra a través del portal electrónico de la Dirección de Compras y Contratación Pública, debiendo gestionarse según lo dispuesto en el artículo 62° N° 6 del Decreto N° 250, de 2004 del Ministerio de Hacienda que aprueba el reglamento de la Ley N° 19.886, donde se establece que tratándose de las contrataciones de bienes y servicios, indicadas en el artículo 10 n° s 5 y 7, letras i) y k), efectuadas a proveedores extranjeros en que por razones de idioma, de sistema jurídico, de sistema económico o culturales, u otra de similar naturaleza, sea indispensable efectuar el procedimiento de contratación por fuera del Sistema de Información.
11. Lo dispuesto en el Artículo 10° N° 5, del Decreto N° 250, de 2004 del Ministerio de Hacienda que aprueba el reglamento de la Ley N° 19.886 de Bases sobre Contratos Administrativos de Suministro y Prestación de Servicios, que establece que procede el trato o contratación directa "Si se tratara de convenios de prestación de servicios a celebrar con personas jurídicas extranjeras que deban ejecutarse fuera del territorio nacional", causal que se configura en la especie, tal como se desprende de los antecedentes señalados en los numerales anteriores.

## **RESUELVO:**

1. Autorícese, bajo la modalidad de trato directo, la adquisición del servicio de publicación de artículo de investigación titulado: "Antimicrobial multiresistant phenotypes of genetically diverse Pseudomonas spp. isolates associated with tomato plants in Chilean orchards", en revista "Horticulturae", con el proveedor de origen suizo **MDPI AG**.
2. INTA de la Universidad de Chile, pagará la suma de **CHF 1.600,00.-** (Un mil, seiscientos francos suizos) los que serán pagados una vez tramitada la presente resolución y posterior a la recepción conforme de la factura, en la oficina de Contabilidad de INTA. El precio de divisa que se utilizará para la conversión corresponderá a su equivalente en pesos chilenos, según el tipo de cambio vendedor del día del pago, de acuerdo a lo certificado por el banco de la plaza, lo anterior según lo señalado en el artículo 20 de la Ley N°18.010.
3. Apruébense los Requerimientos y Condiciones de la Adquisición, que se entienden forman parte integrante de la presente resolución.
4. Impútese el gasto que irrogue la presente Resolución al Título A, Subtítulo 2, ítem 2.6 del presupuesto vigente de esta Universidad.
5. Remítase la presente resolución a la Contraloría Interna de la Universidad de Chile para su control de legalidad.
6. Publíquese la presente Resolución en el portal [www.mercadopublico.cl](http://www.mercadopublico.cl) a más tardar dentro de las 24 horas siguientes a su dictación, de acuerdo a lo dispuesto por el artículo 57° letra d), del Decreto N° 250.

*Anótese, Publíquese y Comuníquese*

**PROF. FRANCISCO PÉREZ BRAVO**  
**DIRECTOR**

### **Distribución:**

- Contraloría Interna
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## **REQUERIMIENTOS Y CONDICIONES DE LA ADQUISICIÓN**

### **ADQUISICIÓN DE SERVICIO DE PUBLICACION DE ARTICULO DE INVESTIGACIÓN INTA – UNIVERSIDAD DE CHILE**

#### **I. SERVICIO A ADQUIRIR**

En el marco de las labores investigativas realizadas por el Proyecto de Inserción U-Inicia de INTA, se hace necesario adquirir el servicio de publicación de artículo de investigación, titulado: "Antimicrobial multiresistant phenotypes of genetically diverse Pseudomonas spp. isolates associated with tomato plants in Chilean orchards", en revista "Horticulturae", con cargo al centro de costo 7271.

#### **II. PLAZO Y CONDICIONES PARA EL PAGO**

Dado a que el proveedor es extranjero y a las condiciones del servicio, el proveedor deberá publicar el artículo una vez aprobado el presente acto administrativo.

El proveedor deberá emitir previo a la publicación del artículo requerido, la factura o Invoice correspondiente, a fin de gestionar el pago.

La factura se cancelará una vez tramitada la resolución que aprueba la adquisición y posterior a la recepción de la misma en la oficina de Contabilidad de INTA. El pago se realizará mediante transferencia bancaria.

El precio de divisa que se utilizará para la conversión corresponderá a su equivalente en pesos chilenos, según el tipo de cambio vendedor del día del pago, de acuerdo a lo certificado por el banco de la plaza, lo anterior según lo señalado en el artículo 20 de la Ley N°18.010.

La facturación deberá indicar de manera obligatoria, y en el formato indicado, los siguientes datos:

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R.U.T : 60.910.000-1  
Domicilio : El Líbano N° 5524, Macul  
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Para los proveedores que emitan facturas electrónicas, deberán remitirlas al correo [mvilo@inta.uchile.cl](mailto:mvilo@inta.uchile.cl).

Los proveedores no podrán suspender el despacho de los bienes o entrega de servicios contratados con INTA, cuando otro Centro, Instituto, Colegio, Facultad, etc., perteneciente a la Universidad de Chile, mantenga deudas con este.

La entrega de documentos tributarios debe realizarse exclusivamente en la oficina de contabilidad, ubicada en el tercer piso. INTA no se hará responsable por el pago de los costos asociados a facturas enviadas a otras direcciones.

### **III. VIGENCIA Y FORMALIZACION DE LA ADQUISICIÓN**

La adquisición se efectuará una vez aprobado el acto administrativo correspondiente y será de ejecución inmediata.

Debido a las características particulares de la adquisición y a que la empresa que provee el servicio requerido, es extranjero, la adquisición se formalizará una vez aprobado el presente acto administrativo y posterior al pago del servicio requerido.

La adquisición se registrá por: el presente pliego de condiciones y el documento denominado "Invoice N° 1793116", emitido por el proveedor y adjunto a los presentes términos de referencia.

### **IV. DATOS COMERCIALES DEL PROVEEDOR**

Razón Social : MDPI AG

VAT : CHE-115.694.943  
Dirección : St. Alban-Anlage 66, CH-4052 Basel  
País : Suiza  
Contacto : billing@mdpi.com  
+41 61 6837734  
IBAN : CH48 0483 5160 4356 5100 0  
Bank Account: (CHF, Swiss Francs Account for MDPI): 0060-1604356-51  
Bank Name : Credit Suisse  
Bank Address : Credit Suisse, St. Alban-Graben 1-3, Postfach 2560, CH-4002, Schweiz  
Swift Code : CRESCHZZ80A  
Clearing number:4835

**Gastón Higuera**

Instituto de Nutrición y Tecnología de los Alimentos  
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Name of co-authors:	Pamela Córdova, Juan Pablo Rivera-González, Victoria Rojas-Martínez, Pablo Villarreal, Alan Zamorano, Nicola Fiore, Daniel San Martín, Francisca Vera, Eduardo Gálvez, Jaime Romero, Carolina Ilabaca-Díaz, Jaime Barraeto and Gastón Higuera <a href="#">Additional Author Information</a>
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**Abstract** Pruning experimental studies have been performed in different vineyards, in France, USA and Australia. This article investigates and models the effects of pruning quality on the installation of desiccation cones and wood necrotization. Two different modalities of pruning, short and high pruning, were [...] [Read more.](#)

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**Effects of Supplemental UV-A LEDs on the Nutritional Quality of Lettuce: Accumulation of Protein and Other Essential Nutrients** ([/2311-7524/8/8/680](#))

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**Abstract** Light plays an important role in influencing the nutritional quality of food crops, especially with regard to the health-promoting phytochemicals. However, its role in affecting the nutritional quality with regard to the essential nutrients is not well understood. In this study, the effects [...] [Read more.](#)

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**Abstract** Shoot topping and other summer grapevine management practices are considered crucial for producing high-quality wine. However, in recent years, climate change is increasing the need to reassess these strategies, as excessive radiation and high temperatures can negatively impact canopy functionality and berry quality. [...] [Read more.](#)

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**Improving the Quality and Production of *Philodendron* Plants Using Nanoparticles and Humic Acid** ([/2311-7524/8/8/678](#))

by [Ghada M. R. El-Shawa](https://sciprofiles.com/profile/2342967) (<https://sciprofiles.com/profile/2342967>), [Khadiga Alharbi](https://sciprofiles.com/profile/1476074) (<https://sciprofiles.com/profile/1476074>), [Muneera AlKahtani](https://sciprofiles.com/profile/author/SnpyK3BINKFGaldxL3BhczhhaENRdnY5VHItIVuMStsTWFSeVNsL0o5VT0=) (<https://sciprofiles.com/profile/author/SnpyK3BINKFGaldxL3BhczhhaENRdnY5VHItIVuMStsTWFSeVNsL0o5VT0=>), [Latifa AlHusnain](https://sciprofiles.com/profile/author/bWhiQTF6RWZBZjNsZ1R0dS9BZXVulL21ON0J2WE12bjVnQVvNqXRbaVIDQT0=) (<https://sciprofiles.com/profile/author/bWhiQTF6RWZBZjNsZ1R0dS9BZXVulL21ON0J2WE12bjVnQVvNqXRbaVIDQT0=>), [Kotb A. Attia](https://sciprofiles.com/profile/1349975) (<https://sciprofiles.com/profile/1349975>) and [Khaled Abdelaal](https://sciprofiles.com/profile/933544) (<https://sciprofiles.com/profile/933544>) *Horticulturae* 2022, 8(8), 678; <https://doi.org/10.3390/horticulturae8080678> (<https://doi.org/10.3390/horticulturae8080678>) - 25 Jul 2022

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**Abstract** A pot experiment was conducted during the 2019/2020 and 2020/2021 seasons to evaluate the effect of silver nanoparticles (SNPs), iron nanoparticles (FeNPs), zinc nanoparticles (ZnNPs), and nitrogen, phosphorus, and potassium nanoparticles (NPK NPs) and humic acid (HA) in improving the growth of *Philodendron* [...] [Read more.](#)

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**An Academic and Technical Overview on Plant Micropropagation Challenges** ([/2311-7524/8/8/677](#))

by [Neama Abdalla](#) (<https://sciprofiles.com/profile/1754728>), [Hassan El-Ramady](#) (<https://sciprofiles.com/profile/1911604>), [Mayada K. Seliem](#) (<https://sciprofiles.com/profile/author/QWx4d2VGYS9IODBobmh0czFkbHpCK2c2Y1FUyWp3bDQrcVhWZFR5R3dXUT0=>), [Mohammed E. El-Mahrouk](#) (<https://sciprofiles.com/profile/author/YUI1N3JZajrRGxYbVRLU2x1dnhkb2YrRG1jenpKQkpWZVViQ0tLR0d5RT0=>), [Naglaa Taha](#) (<https://sciprofiles.com/profile/1251602>), [Yousry Bayoumi](#) (<https://sciprofiles.com/profile/1239171>), [Tarek A. Shalaby](#) (<https://sciprofiles.com/profile/author/ZWhuaEw4MHZWVytwcmJISUJIU3M4TDNZbWVoc2JuOFVzcUJJaXFNNWJkcz0=>) and [Judit Dobránszki](#) (<https://sciprofiles.com/profile/664856>).

*Horticulturae* 2022, 8(8), 677; <https://doi.org/10.3390/horticulturae8080677> (<https://doi.org/10.3390/horticulturae8080677>) - 25 Jul 2022

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**Abstract** The production of micropropagated plants in plant-tissue-culture laboratories and nurseries is the most important method for propagation of many economic plants. Micropropagation based on tissue-culture technology involves large-scale propagation, as it allows multiplication of a huge number of true-to-type propagules in a very [...] [Read more.](#)

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**Irrigation Scheduling and Weed Management: A Sustainable Approach for Managing Broomrape and Other Weeds in Tomato Crop** ([/2311-7524/8/8/676](#))

by [Muhammad Fawad](#) (<https://sciprofiles.com/profile/2185612>), [Muhammad Azim Khan](#) (<https://sciprofiles.com/profile/author/L1NmTk9KQXZiQnBIS3FIWGM0RjRiZz09>), [Fazli Wahid](#) (<https://sciprofiles.com/profile/1169410>), [Haroon Khan](#) (<https://sciprofiles.com/profile/author/WS9OLy9BelMwUENwNzEwQ2FZVi9SMk5PU1RqUjRpczdXMMW8yQ3IydXZiWT0=>), [Bakhtiar Gul](#) (<https://sciprofiles.com/profile/author/RWUzUTdEVGJqNWVsb0g1ai84TGdJNU5KYk9LVDZsSHJGMzNaVIMzNDdudz0=>), [Abdul Mateen Khattak](#) (<https://sciprofiles.com/profile/2338954>), [Aftab Jamal](#) (<https://sciprofiles.com/profile/417041>) and [Andrea Mastinu](#) (<https://sciprofiles.com/profile/289900>).

*Horticulturae* 2022, 8(8), 676; <https://doi.org/10.3390/horticulturae8080676> (registering DOI) - 25 Jul 2022

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**Abstract** Broomrape (*Orobanche cernua* L.) is an obligate root parasitic weed that significantly reduces the qualitative and yield attributes of tomatoes globally. The efficient management of broomrape is challenging because of its complicated parasitic nature. Field trials were conducted to assess the

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### **Potency of Titanium Dioxide Nanoparticles, Sodium Hydrogen Sulfide and Salicylic Acid in Ameliorating the Depressive Effects of Water Deficit on Periwinkle Ornamental Quality (2311-7524/8/8/675)**

by  [Nahid Zomorodi](#) (<https://sciprofiles.com/profile/author/VnprL2xwZmFqU0RzcXFzNmZHUvZsWU5uR0ZSZDdhSDdZVWFFL2tDV2dFd0=>),  [Abdolhossein Rezaei Nejad](#) (<https://sciprofiles.com/profile/2153963>),  [Sadegh Mousavi-Fard](#) (<https://sciprofiles.com/profile/2136327>),  [Hassan Feizi](#) (<https://sciprofiles.com/profile/author/YVZ4Q2hwZHI2U2xMZlArWEkycUhPSXZ3YVNLVGcxbWgrMldvMHFneGINRT0=>),  [Georgios Tsaniklidis](#) (<https://sciprofiles.com/profile/977913>) and  [Dimitrios Fanourakis](#) (<https://sciprofiles.com/profile/1233437>)

*Horticulturae* **2022**, *8*(8), 675; <https://doi.org/10.3390/horticulturae8080675> (registering DOI) - 24 Jul 2022

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**Abstract** In this study, the optimal concentration of sodium hydrosulfide (NaSH), salicylic acid (SA), and titanium dioxide nanoparticles (TiO<sub>2</sub>NPs), and their relative effectiveness on alleviating the adverse effects of water deficit on ornamental quality, were investigated in periwinkle. Plants were cultivated under [...] [Read more.](#)



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### **Preliminary Study of Enological Potential and Volatile Compounds of Tintilla de Rota Somatic Variant Grown in a Warm Climate (2311-7524/8/8/674)**

by  [Cristina Lasanta](#) (<https://sciprofiles.com/profile/2122382>),  [Antonio Amores-Arrocha](#) (<https://sciprofiles.com/profile/435323>),  [Idefonso Caro](#) (<https://sciprofiles.com/profile/2115567>) and  [Pau Sancho-Galán](#) (<https://sciprofiles.com/profile/692945>)



*Horticulturae* **2022**, *8*(8), 674; <https://doi.org/10.3390/horticulturae8080674> (<https://doi.org/10.3390/horticulturae8080674>) - 24 Jul 2022

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**Abstract** In an enological market notable for its use of universal varieties, the enological potential of the somatic variant Tintilla de Rota has been studied in a warm climate area from where it originates and has been compared with three universal cultivars and with [...] [Read more.](#)

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### **Effects of Nutrient Solution Electrical Conductivity on the Leaf Gas Exchange, Biochemical Stress Markers, Growth, Stigma Yield, and Daughter Corm Yield of Saffron in a Plant Factory (2311-7524/8/8/673)**

by  [Weissollahiyan-Dewin](#) (<https://sciprofiles.com/profile/16591049>) and  [Abdullah Alsadon](#) (<https://sciprofiles.com/profile/624058>)

*Horticulturae* **2022**, *8*(8), 676; <https://doi.org/10.3390/horticulturae8080673> (<https://doi.org/10.3390/horticulturae8080673>) - 23 Jul 2022

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**Abstract** Indoor saffron farming systems under controlled conditions are required to meet the high demand for this valuable crop. The present study was to determine the flowering, growth, and yield responses of saffron grown using nutrient solutions with different electrical conductivity [...] [Read more.](#)








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**Bark Extract of *Uncaria tomentosa* L. for the Control of Strawberry Phytopathogens** (</2311-7524/8/8/672>)

by  [Eva Sánchez-Hernández](https://sciprofiles.com/profile/1556239) (<https://sciprofiles.com/profile/1556239>),  [Pablo Martín-Ramos](https://sciprofiles.com/profile/193052) (<https://sciprofiles.com/profile/193052>),  [Jesús Martín-Gil](https://sciprofiles.com/profile/625236) (<https://sciprofiles.com/profile/625236>),  [Alberto Santiago-Aliste](https://sciprofiles.com/profile/2063265) (<https://sciprofiles.com/profile/2063265>),  [Salvador Hernández-Navarro](https://sciprofiles.com/profile/2139531) (<https://sciprofiles.com/profile/2139531>),  [Rui Oliveira](https://sciprofiles.com/profile/1186656) (<https://sciprofiles.com/profile/1186656>) and  [Vicente González-García](https://sciprofiles.com/profile/802409) (<https://sciprofiles.com/profile/802409>)

*Horticulturae* **2022**, *8*(8), 672; <https://doi.org/10.3390/horticulturae8080672> (<https://doi.org/10.3390/horticulturae8080672>) - 23 Jul 2022

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**Abstract** Gray mold (*Botrytis cinerea* Pers.), crown and fruit rot (*Phytophthora cactorum* (Lebert and Cohn) J.Schröt), and verticillium wilt (*Verticillium dahliae* Kleb.) are among the main diseases that affect the strawberry crop. In the study presented herein, the bark extract of [...] **Read more.**

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**Can Moringa Leaf Spray Treatment Increase the Nutraceutical Properties of Radish Baby Leaf?** (</2311-7524/8/8/671>)

by  [Daniela Romano](https://sciprofiles.com/profile/524605) (<https://sciprofiles.com/profile/524605>),  [Giovanni La Fornara](https://sciprofiles.com/profile/author/RUMyS05hNzJCc3I3Uk52bEFLWIZYcDRrWSs4eGw5ekJtQ1RlcU5SWEtWVT0=) (<https://sciprofiles.com/profile/author/RUMyS05hNzJCc3I3Uk52bEFLWIZYcDRrWSs4eGw5ekJtQ1RlcU5SWEtWVT0=>),  [Alessandro Tribulato](https://sciprofiles.com/profile/746629) (<https://sciprofiles.com/profile/746629>) and  [Stefania Toscano](https://sciprofiles.com/profile/1186278) (<https://sciprofiles.com/profile/1186278>)

*Horticulturae* **2022**, *8*(8), 671; <https://doi.org/10.3390/horticulturae8080671> (<https://doi.org/10.3390/horticulturae8080671>) - 22 Jul 2022

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**Abstract** Among the ready-to-use products, baby leaf salads (both raw and cooked), especially those belonging to the Brassicaceae family, represent a very interesting food typology, with nutraceutical properties. Recently, to obtain products with lower levels of synthetic chemicals and to improve nutritional quality, attention [...] **Read more.**

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

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**A Study on Perceptions towards Organic and Local Production, and Individuals' Socio-Demographic and Geographical Affiliation Influencing Fruit and Vegetable Purchasing Preferences of EU Households** (</2311-7524/8/8/670>)

by  [Alice Varaldo](https://sciprofiles.com/profile/2247014) (<https://sciprofiles.com/profile/2247014>),  [Danielle Borra](https://sciprofiles.com/profile/author/WWNXUXRVSEpWNys1bnFBV3N4VEthTk9NbFVkuVVRaEhuY0VDZC80ZUFbVT0=) (<https://sciprofiles.com/profile/author/WWNXUXRVSEpWNys1bnFBV3N4VEthTk9NbFVkuVVRaEhuY0VDZC80ZUFbVT0=>),  [Fabrizio Massimelli](https://sciprofiles.com/profile/author/ek9IMGdDN2xBcVNCTHlaZGnrNEsrSzc1UVdPSFp0R2NjQTY3UXlleU92TT0=) (<https://sciprofiles.com/profile/author/ek9IMGdDN2xBcVNCTHlaZGnrNEsrSzc1UVdPSFp0R2NjQTY3UXlleU92TT0=>),  [Stefano Massaglia](https://sciprofiles.com/profile/873395) (<https://sciprofiles.com/profile/873395>) and  [Valentina Maria Merlino](https://sciprofiles.com/profile/302822) (<https://sciprofiles.com/profile/302822>)

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**Abstract** This study investigates the preferences and the consumption models in the three most relevant F&V EU markets (France, Germany and Italy) in the function of individual attitudes towards local and organic production models. A structured questionnaire was submitted to a sample of 3000 [...] [Read more.](#)

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### [Autochthonous Rose Hybrid \*Rosa pendulina\* × \*spinosissima\* Overshines Main Genotype \*Rosa pendulina\* in the Biochemical Characteristics of Their Hips](#) ([/2311-7524/8/8/669](#))

by [Nina Kunc](#) (<https://sciprofiles.com/profile/2294336>), [Maja Mikulič-Petkovšek](#) (<https://sciprofiles.com/profile/1668081>), [Metka Hudina](#) (<https://sciprofiles.com/profile/1506826>), [Jože Bavcon](#) (<https://sciprofiles.com/profile/author/ak9QRGs1M1RvWII5TTczQ2F3RncwYTBxMzhOQWNCOUx1NIpOZS9sNDhWYz0=>), [Branko Vreš](#) (<https://sciprofiles.com/profile/2329283>), [Gregor Osterc](#) (<https://sciprofiles.com/profile/1706284>) and [Blanka Ravnjak](#) (<https://sciprofiles.com/profile/2069972>)

*Horticulturae* 2022, 8(8), 669; <https://doi.org/10.3390/horticulturae8080669> (<https://doi.org/10.3390/horticulturae8080669>) - 22 Jul 2022

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**Abstract** The medicinal value of rose hips largely depends on the contents of vitamin C and flavonoids. Rose hips contain more vitamin C than most fruits and vegetables. We were particularly interested in how the bioactive substances of rose hips are inherited from main [...] [Read more.](#)

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### [The Emotional Experience of Flowers: Zoomed In, Zoomed Out and Painted](#) ([/2311-7524/8/7/668](#))

by [Jacqueline Urakami](#) (<https://sciprofiles.com/profile/author/aTdNWGRrMkxtMzc4SUtuTHFveFkxVEpONkVucWMxUnVMY0Q0bXh0YUtHTT0=>), [Ephrat Huss](#) (<https://sciprofiles.com/profile/345278>), [Mitsue Nagamine](#) (<https://sciprofiles.com/profile/1698462>), [Johanna Czamanski-Cohen](#) (<https://sciprofiles.com/profile/2342673>) and [Michele Zaccai](#) (<https://sciprofiles.com/profile/160184>)

*Horticulturae* 2022, 8(7), 668; <https://doi.org/10.3390/horticulturae8070668> (<https://doi.org/10.3390/horticulturae8070668>) - 21 Jul 2022

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**Abstract** People have an ancient and strong bond to flowers, which are known to have a positive effect on the mood. During the COVID-19 pandemic, sales of ornamental plants increased, and many turned to gardening, possibly as a way to cope with ubiquitous increases [...] [Read more.](#)

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### [Integrated SRNA-Seq and RNA-Seq Analysis Reveals the Regulatory Roles of miRNAs in the Low-Temperature Responses of \*Canarium album\*](#) ([/2311-7524/8/7/667](#))

by [Ruilian Lai](#) (<https://sciprofiles.com/profile/1117299>), [Qingxu Guan](#) (<https://sciprofiles.com/profile/author/ZWt4bDjxb1BJL1d2cTE4ZUFLOHIpT3JESVdPV3IiSnFpelg0Q1RHWS8vOD0=>), [Chaogui Shen](#) (<https://sciprofiles.com/profile/author/SUIVTDVMMmJFMIRKR3VYbUFYbStvSzkxckFVWmp2QIBSN0trbWh2cFRMQT0=>), [Xin Feng](#) (<https://sciprofiles.com/profile/1158478>), [Yongyan Zhang](#) (<https://sciprofiles.com/profile/1879838>), [Yiting Chen](#) (<https://sciprofiles.com/profile/2039247>), [Chunzhen Cheng](#) (<https://sciprofiles.com/profile/161769>) and [Rujian Wu](#) (<https://sciprofiles.com/profile/2244562>)

*Horticulturae* 2022, 8(7), 667; <https://doi.org/10.3390/horticulturae8070667> (<https://doi.org/10.3390/horticulturae8070667>) - 21 Jul 2022

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**Abstract** Chinese olive (*Canarium album*), a characteristic fruit tree in tropical and subtropical areas, suffers greatly from low-temperature stress (LTS). The regulatory roles of microRNA (miRNA) in plant LTS responses have been confirmed in many plant species but not in C. [...] [Read more.](#)

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### Multi-Band-Image Based Detection of Apple Surface Defect Using Machine Vision and Deep Learning [\(2311-7524/8/7/666\)](#)

by [Yan Tang](#) (<https://sciprofiles.com/profile/2250105>), [Hongyi Bai](#) (<https://sciprofiles.com/profile/692799>), [Laijun Sun](#) (<https://sciprofiles.com/profile/311926>), [Yu Wang](#) (<https://sciprofiles.com/profile/author/bGxTZmJSZGRHWcTnQTdxYzFicHhIYUdwK3hmeWRqQTcyQVJpMFhnZkMzST0=>), [Jingli Hou](#) (<https://sciprofiles.com/profile/author/ZVJvMIM5Sy9KaDNFbzhYVE9XKzYvampXdnFNOEN3a3Zvc2IOTXN2ckhsaz0=>), [Yonglong Huo](#) (<https://sciprofiles.com/profile/author/NjQ5WlhKMjRhd3dZeUU3NGpPVEpmb0xYZjdnWGV6QU1zVGVxMjIGUVBiUT0=>) and [Rui Min](#) (<https://sciprofiles.com/profile/335182>).

*Horticulturae* 2022, 8(7), 666; <https://doi.org/10.3390/horticulturae8070666> (<https://doi.org/10.3390/horticulturae8070666>) - 21 Jul 2022  
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**Abstract** Accurate surface defect extraction of apples is critical for their quality inspection and marketing purposes. Using multi-band images, this study proposes a detection method for apple surface defects with a combination of machine vision and deep learning. Five single bands, 460, 522, 660, [...]

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(This article belongs to the Special Issue [Innovative Nondestructive Techniques to Improve Quality Measurement of Fruits and Vegetables](#) ([/journal/horticulturae/special\\_issues/nondestructive\\_vegetables](#).)

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### Scientific Advances in Biostimulation Reported in the 5th Biostimulant World Congress [\(2311-7524/8/7/665\)](#)

by [Francisco García-Sánchez](#) (<https://sciprofiles.com/profile/262093>), [Silvia Simón-Grao](#) (<https://sciprofiles.com/profile/author/V0VPYkFjeG9NNE1WLzFNdTFVR2tiQk9tKzRPanU5MII0dmV4dS9wQnFMVT0=>), [Valeria Navarro-Pérez](#) (<https://sciprofiles.com/profile/author/VXIFNE5qL0NxU3ZMYVZ5MHZ5TFN6MTIDZSsvRjNsa3IOMIIZ0tibStaOD0=>) and [Marina Alfosea-Simón](#) (<https://sciprofiles.com/profile/author/RnI3VExHdE1OZjHFTm5UK0hEaTRoWmN4RFNNaW5yb0wwdHYwTk1NUmFVNDI>).

*Horticulturae* 2022, 8(7), 665; <https://doi.org/10.3390/horticulturae8070665> (<https://doi.org/10.3390/horticulturae8070665>) - 21 Jul 2022  
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**Abstract** Biostimulants are agronomic products that have become highly important in agriculture, as they are formulated with substances capable of stimulating physiological and biochemical processes in plants that help them adapt to different detrimental environmental conditions such as drought, salinity, high temperatures, nutritional deficiencies, [...]


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(This article belongs to the Special Issue [The Role of Biostimulants in Horticultural Crops](#) ([/journal/horticulturae/special\\_issues/Role\\_of\\_Biostimulants](#).)

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**Abstract** Foliar fertilization makes it possible to quickly provide plants with essential nutrients, mainly micronutrients, which can significantly improve the quality of yields. The aim of this study was to evaluate the effect of foliar fertilization with fertilizers containing calcium and microelements on yielding 



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**Effects of *Funneliformis mosseae* and Potassium Silicate on Morphological and Biochemical Traits of Onion Cultivated under Water Stress** (</2311-7524/8/7/663>).

by  [Meenakshi Sharma](https://sciprofiles.com/profile/2271404) (<https://sciprofiles.com/profile/2271404>),

 [Anil Kumar Delta](https://sciprofiles.com/profile/author/UXI4aWJkUVN2eJR4M2pQdzkvdTBRUWhpK3F6LzJR3VCYzhoeHVTZ0k5Zz0=) (<https://sciprofiles.com/profile/author/UXI4aWJkUVN2eJR4M2pQdzkvdTBRUWhpK3F6LzJR3VCYzhoeHVTZ0k5Zz0=>) and

 [Prashant Kaushik](https://sciprofiles.com/profile/1714296) (<https://sciprofiles.com/profile/1714296>)



*Horticulturae* 2022, 8(7), 663; <https://doi.org/10.3390/horticulturae8070663> (<https://doi.org/10.3390/horticulturae8070663>) - 20 Jul 2022

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**Abstract** Water stress negatively impacts the physiology of plants, affecting their growth and development. It is considered among the most important environmental factors responsible for reduced crop production. In this regard, biofertilizers may be considered significant for their reparative properties to increase stress tolerance [...] **Read more.**


(This article belongs to the Section [Biotic and Abiotic Stress](#) ([/journal/horticulturae/sections/biotic\\_abiotic\\_stress](/journal/horticulturae/sections/biotic_abiotic_stress)))


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  (</2311-7524/8/7/662/pdf?version=1658317230>)

**Iodine Enhances the Nutritional Value but Not the Tolerance of Lettuce to NaCl** (</2311-7524/8/7/662>)

by  [Giuseppe Maglione](https://sciprofiles.com/profile/1222990) (<https://sciprofiles.com/profile/1222990>),  [Ermenegilda Vitale](https://sciprofiles.com/profile/1556087) (<https://sciprofiles.com/profile/1556087>),

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**Abstract** Positive stress or essential and nonessential elements can improve nutritive values (biofortification) of edible plants. In the present study, we evaluate (i) the effect of moderate salinity on lettuce biofortification, evaluated as nutritional bioactive compound accumulation, and (ii) the role of iodine in [...] **Read more.**

(This article belongs to the Special Issue [Horticultural Plants Facing Stressful Conditions - Ways of Stress Mitigation](#) ([/journal/horticulturae/special\\_issues/Horticultural\\_Plants\\_Stressful\\_Conditions](/journal/horticulturae/special_issues/Horticultural_Plants_Stressful_Conditions)))

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**Comparing Different Methods for Pruning Pitaya (*Hylocereus undatus*)** (</2311-7524/8/7/661>)

by  [Emilio Arredondo](https://sciprofiles.com/profile/author/bkFrSGZUN0tbTI6ZzEwUTIxZFdaU2ZIWDdJMTqYw90SWc1c0JYZnphMD0=) (<https://sciprofiles.com/profile/author/bkFrSGZUN0tbTI6ZzEwUTIxZFdaU2ZIWDdJMTqYw90SWc1c0JYZnphMD0=>),

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**Abstract** Recently there have been new trends in global consumption toward fresh foods that are sources of healthy bioactive compounds, as is the case with pitaya. However, pitaya cultivation is a relatively recent phenomenon and little is known about its management. The objective of [...] **Read more.**

(This article belongs to the Special Issue [Advances in Tropical Fruit Cultivation and Breeding](#) ([/journal/horticulturae/special\\_issues/Fruit\\_Cultivation\\_Breeding](/journal/horticulturae/special_issues/Fruit_Cultivation_Breeding).)









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## Effects of Potassium Deficiency on the Growth of Tea (*Camelia sinensis*) and Strategies for Optimizing Potassium Levels in Soil: A Critical Review (2311-7524/8/7/660)

by  [Wei Huang](https://sciprofiles.com/profile/author/TFdGL0pJTGIQbTkra1J4NXZWBhLS3hUZihtbmVTajZCMGJHK3NwZjV6TT0=) (<https://sciprofiles.com/profile/author/TFdGL0pJTGIQbTkra1J4NXZWBhLS3hUZihtbmVTajZCMGJHK3NwZjV6TT0=>),  [Minyao Lin](https://sciprofiles.com/profile/author/SExCNmJVQXo5NnFHbzBEUDBkazZGUWE2SHNDTjdFakI0cDZwcVJQdIA2WT0=) (<https://sciprofiles.com/profile/author/SExCNmJVQXo5NnFHbzBEUDBkazZGUWE2SHNDTjdFakI0cDZwcVJQdIA2WT0=>),  [Jinmei Liao](https://sciprofiles.com/profile/author/Vk1YL1hwNURQZFNhVnhKVEdMeIzPWmpVK2J2cmdMY2RsRkNyQ29LVEtmVT0=) (<https://sciprofiles.com/profile/author/Vk1YL1hwNURQZFNhVnhKVEdMeIzPWmpVK2J2cmdMY2RsRkNyQ29LVEtmVT0=>),  [Ansheng Li](https://sciprofiles.com/profile/author/L2xMditFMkxLTi94ZzhpUncrbyt6Sld1YjBLZ2RJSIAwblI4Qlkva1h0MD0=) (<https://sciprofiles.com/profile/author/L2xMditFMkxLTi94ZzhpUncrbyt6Sld1YjBLZ2RJSIAwblI4Qlkva1h0MD0=>),  [Wugyan Tsewang](https://sciprofiles.com/profile/author/L0UxdE9ueDZhOWgxcW1yQmc2WkkyL3RoZhd4aXV1NmUvdzNWckNleEV6ND0=) (<https://sciprofiles.com/profile/author/L0UxdE9ueDZhOWgxcW1yQmc2WkkyL3RoZhd4aXV1NmUvdzNWckNleEV6ND0=>),  [Xuan Chen](https://sciprofiles.com/profile/author/RitMaDV2dHM3MzdckYwcTBmdHBsRGNyTUFZbDY2MDJsOHNNL3oxY3dYND0=) (<https://sciprofiles.com/profile/author/RitMaDV2dHM3MzdckYwcTBmdHBsRGNyTUFZbDY2MDJsOHNNL3oxY3dYND0=>),  [Binmei Sun](https://sciprofiles.com/profile/1429400) (<https://sciprofiles.com/profile/1429400>),  [Shaoqun Liu](https://sciprofiles.com/profile/1353652) (<https://sciprofiles.com/profile/1353652>) and  [Peng Zheng](https://sciprofiles.com/profile/1424808) (<https://sciprofiles.com/profile/1424808>)

*Horticulturae* 2022, 8(7), 660; <https://doi.org/10.3390/horticulturae8070660> (<https://doi.org/10.3390/horticulturae8070660>) - 20 Jul 2022

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**Abstract** Potassium is among the three essential macronutrients for tea plants, along with nitrogen and phosphorous, and plays important roles in growth and stress response. Potassium is absorbed by plants in larger amounts than any other mineral element except nitrogen and, in some cases, [...] [Read more](#).

(This article belongs to the Section [Plant Nutrition](#) ([/journal/horticulturae/sections/horticulturae\\_plant\\_nutrition](#)))

## The Xenia Effect Promotes Fruit Quality and Assists in Optimizing Cross Combinations in 'O'Neal' and 'Emerald' Blueberry (2311-7524/8/7/659)

by  [Jinlian Liu](https://sciprofiles.com/profile/author/bGMMyMTJOVWRvMnA3aXBwb0I2Txc5YjkkNWtNtHdKVEtFS3BCVGBZBZ2hBOD0=) (<https://sciprofiles.com/profile/author/bGMMyMTJOVWRvMnA3aXBwb0I2Txc5YjkkNWtNtHdKVEtFS3BCVGBZBZ2hBOD0=>),  [Jinjian Xu](https://sciprofiles.com/profile/author/RWo5dFZMRGVfd3h3RGI6UDYrT2Mxa0E2OHJkSTZlBmZuVDcyZiAva2tiWT0=) (<https://sciprofiles.com/profile/author/RWo5dFZMRGVfd3h3RGI6UDYrT2Mxa0E2OHJkSTZlBmZuVDcyZiAva2tiWT0=>),  [Yujing Wang](https://sciprofiles.com/profile/author/NGlvQ20weEIONkhvQ1JENmV4TW9wdz09) (<https://sciprofiles.com/profile/author/NGlvQ20weEIONkhvQ1JENmV4TW9wdz09>),  [Ke Li](https://sciprofiles.com/profile/author/NW55TFRWaEcvQ3dXMTFmOHo0TmpGQT09) (<https://sciprofiles.com/profile/author/NW55TFRWaEcvQ3dXMTFmOHo0TmpGQT09>),  [Yu Zong](https://sciprofiles.com/profile/1752221) (<https://sciprofiles.com/profile/1752221>),  [Li Yang](https://sciprofiles.com/profile/author/Y3hzaFBSY0tGRFNVTkl4MW5wbDN0UT09) (<https://sciprofiles.com/profile/author/Y3hzaFBSY0tGRFNVTkl4MW5wbDN0UT09>),  [Wenrong Chen](https://sciprofiles.com/profile/1690114) (<https://sciprofiles.com/profile/1690114>),  [Fanglei Liao](https://sciprofiles.com/profile/1886819) (<https://sciprofiles.com/profile/1886819>) and  [Weidong Guo](https://sciprofiles.com/profile/1789174) (<https://sciprofiles.com/profile/1789174>)

*Horticulturae* 2022, 8(7), 659; <https://doi.org/10.3390/horticulturae8070659> (<https://doi.org/10.3390/horticulturae8070659>) - 20 Jul 2022

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**Abstract** Cross-pollination can improve the fruit set and quality of blueberry (*Vaccinium* spp.) for growers and consumers. However, the xenia effect in southern highbush blueberry remains unclear. Therefore, we selected eight cultivars of southern highbush blueberry (*Vaccinium corymbosum* L., interspecific hybrids) and [...] [Read more](#).

(This article belongs to the Section [Fruit Production Systems](#) ([/journal/horticulturae/sections/fruit\\_production\\_systems](#)))

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## The SSR Null Allele Problem, and Its Consequences in Pedigree Reconstruction and Population Genetic Studies in Viticulture (2311-7524/8/7/658)

by  [Gizella Jahnke](https://sciprofiles.com/profile/1132602) (<https://sciprofiles.com/profile/1132602>),  [József Smidla](https://sciprofiles.com/profile/2242803) (<https://sciprofiles.com/profile/2242803>),  [Tamás Deák](https://sciprofiles.com/profile/1948008) (<https://sciprofiles.com/profile/1948008>),  [Róbert Oláh](https://sciprofiles.com/profile/1390743) (<https://sciprofiles.com/profile/1390743>),  [Barna Árpád Szóke](https://sciprofiles.com/profile/1619056) (<https://sciprofiles.com/profile/1619056>) and  [Diána Ágnes Nyitrainé Sárdy](https://sciprofiles.com/profile/2231071) (<https://sciprofiles.com/profile/2231071>)

*Horticulturae* 2022, 8(7), 658; <https://doi.org/10.3390/horticulturae8070658> (<https://doi.org/10.3390/horticulturae8070658>) - 19 Jul 2022

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**Abstract** Null alleles are alleles that are recessive to codominant markers without any effect on the phenotype. In SSR assays, there are several reasons for the lack of amplification at a locus: the primer does not bind well, longer fragments do not amplify due [...] [Read more](#).

(This article belongs to the Special Issue [Effects of Climate Change on the Vitivicultural Sector](#) ([/journal/horticulturae/special\\_issues/Vitivicultural\\_Sector](#)))

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## Epidemiological Role of *Dictyophara europaea* (Hemiptera: Dictyopharidae) in the Transmission of 'Candidatus *Phytoplasma apricivorum*' (2311-7524/8/7/654)



by [Tatjana Cvrković](https://sciprofiles.com/profile/2216312) (<https://sciprofiles.com/profile/2216312>), [Jelena Jović](https://sciprofiles.com/profile/1274550) (<https://sciprofiles.com/profile/1274550>),  
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*Horticulturae* 2022, 8(7), 654; <https://doi.org/10.3390/horticulturae8070654> (<https://doi.org/10.3390/horticulturae8070654>) - 19 Jul 2022  
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**Abstract** Bois noir, an economically important disease of grapevine yellows that causes significant economic losses in wine production, is associated with 'Candidatus Phytoplasma solani' and transmitted to grapevines by cixiids *Hyaesthes obsoletus* and *Reptalus panzeri*. Polyphagous planthopper *Dictyophara europaea*, commonly found [...] [Read more](#).

(This article belongs to the Special Issue [New Insights into Pest Management in Horticultural Production](#) ([/journal/horticulturae/special\\_issues/Pest\\_Management\\_Horticultural](/journal/horticulturae/special_issues/Pest_Management_Horticultural)))

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**Cell Division Controls Final Fruit Size in Three Apple (*Malus x domestica*) Cultivars** ([/2311-7524/8/7/657](https://doi.org/10.3390/horticulturae8070657))

by [Siti Khadijah A. Karim](https://sciprofiles.com/profile/2230374) (<https://sciprofiles.com/profile/2230374>), [Andrew C. Allan](https://sciprofiles.com/profile/399982) (<https://sciprofiles.com/profile/399982>),  
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*Horticulturae* 2022, 8(7), 657; <https://doi.org/10.3390/horticulturae8070657> (<https://doi.org/10.3390/horticulturae8070657>) - 19 Jul 2022  
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**Abstract** Apple (*Malus x domestica*) fruit size is dependent on cell division and cell expansion, processes that are subsequently regulated by plant hormones such as auxins, gibberellins, and cytokinins. In this study, we investigated the role of cell division and cell expansion [...] [Read more](#).

(This article belongs to the Special Issue [Epigenetic Modifications and Breeding Application in Horticultural Plants](#) ([/journal/horticulturae/special\\_issues/Epigenetic\\_Breeding](/journal/horticulturae/special_issues/Epigenetic_Breeding)))

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**Genome-Wide Identification and Expression Pattern Analysis of the TCP Gene Family in Radish (*Raphanus sativus* L.)** ([/2311-7524/8/7/656](https://doi.org/10.3390/horticulturae8070656))

by [Yi Mei](https://sciprofiles.com/profile/author/V3ZhwThvSFhiY29ITXVYwJiInjRPTy9YNzI4bytDNXI4d2hxWU9qOEtDQT0=) (<https://sciprofiles.com/profile/author/V3ZhwThvSFhiY29ITXVYwJiInjRPTy9YNzI4bytDNXI4d2hxWU9qOEtDQT0=>),  
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*Horticulturae* 2022, 8(7), 656; <https://doi.org/10.3390/horticulturae8070656> (<https://doi.org/10.3390/horticulturae8070656>) - 19 Jul 2022

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**Abstract** TCP transcription factors are a unique transcription family in higher plants, and play important roles in plant development, responses to environmental stresses and phytohormones. Radish is an important crop and widely cultivated worldwide. However, genome-wide identification and expression analysis of TCP family in [...] [Read more](#).

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### [Changes in Yield, Quality, and Morphology of Three Grafted Cut Roses Grown in a Greenhouse Year-Round \(/2311-7524/8/7/655\)](#)

by [O-Hyeon Kwon \(https://sciprofiles.com/profile/2286347\)](#), [Hyo-Gil Choi \(https://sciprofiles.com/profile/1218173\)](#), [Se-Jin Kim \(https://sciprofiles.com/profile/author/ZC9iOFBIVEZHT0YyZGVjLzRBa2xvZkxMN2U3TEFXR1JmQ2U3a1ZGWjE4WT0=\)](#), [Young-Ran Lee \(https://sciprofiles.com/profile/author/M1ZNK3IONk9MdVdjWihMYTFUThkcmV1TFIUb21WOTRDMkdFUFJ3UmxZYz0=\)](#), [Hyun-Hwan Jung \(https://sciprofiles.com/profile/author/MFlmRzZwa3pIYVQ4SExBR0RWbE85WkRjZDdrZit0TnJBOWxyTFc1bnBIQT0=\)](#) and [Ki-Young Park \(https://sciprofiles.com/profile/2103634\)](#)

*Horticulturae* **2022**, *8*(7), 655; <https://doi.org/10.3390/horticulturae8070655> (<https://doi.org/10.3390/horticulturae8070655>) - 19 Jul 2022

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**Abstract** Cut roses are grown throughout the four distinct seasons of spring, summer, autumn, and winter in Korea. Especially in the very hot or cold seasons of summer or winter, the temperature and light environments inside a greenhouse cause abiotic stress on the growth [...]. [Read more.](#)

(This article belongs to the Special Issue [New Insights into Rootstock - Scion Interactions in Horticultural Crops \(/journal/horticulturae/special\\_issues/rootstock\\_horticultural\)](#).)

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### [Response of Common Ice Plant \(\*Mesembryanthemum crystallinum\* L.\) to Photoperiod/Daily Light Integral in Vertical Hydroponic Production \(/2311-7524/8/7/653\)](#)

by [Jiaqi Xia \(https://sciprofiles.com/profile/1840434\)](#) and [Neil Mattson \(https://sciprofiles.com/profile/261641\)](#)

*Horticulturae* **2022**, *8*(7), 653; <https://doi.org/10.3390/horticulturae8070653> (<https://doi.org/10.3390/horticulturae8070653>) - 19 Jul 2022

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**Abstract** Common ice plant (*Mesembryanthemum crystallinum* L.) is a novel edible plant with a succulent and savory flavor emerging as new crop for greenhouse and plant factory growers. Currently very limited information is available on the response of ice plant to photoperiod and [...]. [Read more.](#)

(This article belongs to the Special Issue [Controlled Environment Horticulture: Latest Advances and Future Prospects \(/journal/horticulturae/special\\_issues/Controlled\\_Horticulture\)](#).)

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### [The Impact of Aqueous Extracts of \*Verbesina sphaerocephala\* and \*Verbesina fastigiata\* on Germination and Growth in \*Solanum lycopersicum\* and \*Cucumis sativus\* Seedlings \(/2311-7524/8/7/652\)](#)

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and  
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*Horticulturae* 2022, 8(7), 652; <https://doi.org/10.3390/horticulturae8070652> (<https://doi.org/10.3390/horticulturae8070652>) - 18 Jul 2022  
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**Abstract** The use of extracts derived from different plants has gained popularity as an alternative option to manage weeds and support phenological development in plants. One of the main problems facing agricultural production is the intensive application of chemical fertilizers that harm the environment. [...] [Read more.](#)

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**The Apple Lipoxigenase *MdLOX3* Regulates Salt Tolerance and ABA Sensitivity (2311-7524/8/7/651)**

by [Xixia Chen \(https://sciprofiles.com/profile/author/TWQveFhEZWpwTTFMIFHUDUrUkV4b2JPbDdDWIkzRmxaMXovWVpGblpJQT0=\)](https://sciprofiles.com/profile/author/TWQveFhEZWpwTTFMIFHUDUrUkV4b2JPbDdDWIkzRmxaMXovWVpGblpJQT0=),  
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[Chunling Zhang \(https://sciprofiles.com/profile/author/MFNJSU1sYWdXOHRDc2JNNctUzI6S3U0NEVQOVduVW1XYUptYXBTNEpEcz0=\)](https://sciprofiles.com/profile/author/MFNJSU1sYWdXOHRDc2JNNctUzI6S3U0NEVQOVduVW1XYUptYXBTNEpEcz0=),  
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*Horticulturae* 2022, 8(7), 651; <https://doi.org/10.3390/horticulturae8070651> (<https://doi.org/10.3390/horticulturae8070651>) - 17 Jul 2022  
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**Abstract** Various abiotic stresses, particularly salinization, restrict plant growth and yield around the world. Lipoxigenases play essential functions in coping with various stresses. In the present study, we found an apple (*Malus domestica*) homolog of *Arabidopsis* lipoxigenase3, named *MdLOX3*. *MdLOX3* has [...] [Read more.](#)

(This article belongs to the Special Issue [Horticultural Crop Physiology under Biotic and Abiotic Stresses \(/journal/horticulturae/special\\_issues/biotic\\_abiotic\\_physiology\)](#).)

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**Changes in Carotenoid Concentration and Expression of Carotenoid Biosynthesis Genes in *Daucus carota* Taproots in Response to Increased Salinity (2311-7524/8/7/650)**

by [Yu-Han Zhao \(https://sciprofiles.com/profile/2292460\)](https://sciprofiles.com/profile/2292460),  
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**Abstract** Studying the changes of carotenoids in the taproot of carrots under salt treatment is helpful to probe the salt stress response mechanism of carrots. The carotenoid concentration and the expression profiles of 10 carotenoid-related genes were determined in two carrot cultivars with different [...]

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







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**Dwarfing Rootstock 'Yunnan' Quince Promoted Fruit Sugar Accumulation by Influencing Assimilate Flow and PbSWEET6 in Pear Scion** (</2311-7524/8/7/649>)

by  [Xiaoli Wang](https://sciprofiles.com/profile/2196779) (<https://sciprofiles.com/profile/2196779>),  [Liu Cong](https://sciprofiles.com/profile/1466156) (<https://sciprofiles.com/profile/1466156>),  [Jianwen Pang](https://sciprofiles.com/profile/author/ZWI3a1hvbngwSFpObzJBL0FNT0ILQS85eXE4aUxBdlhEM1ZDdENzVkREdz0=) (<https://sciprofiles.com/profile/author/ZWI3a1hvbngwSFpObzJBL0FNT0ILQS85eXE4aUxBdlhEM1ZDdENzVkREdz0=>),  [Yu Chen](https://sciprofiles.com/profile/author/d2VoR0ZKMKiPaDZUZ1FHUXhoUzd1ZjIBbHnrVTRvSGU1a0lxRkorMldWZz0=) (<https://sciprofiles.com/profile/author/d2VoR0ZKMKiPaDZUZ1FHUXhoUzd1ZjIBbHnrVTRvSGU1a0lxRkorMldWZz0=>),  [Zhigang Wang](https://sciprofiles.com/profile/521643) (<https://sciprofiles.com/profile/521643>),  [Rui Zhai](https://sciprofiles.com/profile/author/eCt4a3lwVGtuTWZqZmxzK0FhZC9iQko3ZjcwQnJPQitzciB3bGppRktkaz0=) (<https://sciprofiles.com/profile/author/eCt4a3lwVGtuTWZqZmxzK0FhZC9iQko3ZjcwQnJPQitzciB3bGppRktkaz0=>),  [Chengquan Yang](https://sciprofiles.com/profile/814337) (<https://sciprofiles.com/profile/814337>) and  [Lingfei Xu](https://sciprofiles.com/profile/661986) (<https://sciprofiles.com/profile/661986>)

*Horticulturae* 2022, 8(7), 649; <https://doi.org/10.3390/horticulturae8070649> (<https://doi.org/10.3390/horticulturae8070649>) - 17 Jul 2022  
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**Abstract** 'Yunnan' quince (*Cydonia oblonga* Mill.) is used as the dwarfing rootstock for pear (*Pyrus* spp.). Here, we reported that the sugar contents in mature 'Zaosu' pear fruit grafted on 'Yunan' quince (Z/Q) were higher than that in 'Zaosu' pear fruit grafted [...]




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




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**Evaluation of Proline-Coated Chitosan Nanoparticles on Decay Control and Quality Preservation of Strawberry Fruit (cv. Camarosa) during Cold Storage** (</2311-7524/8/7/648>)

by  [Reza Bahmani](https://sciprofiles.com/profile/author/QmQyTHBUTE5WaHBhV1FFdWN5Uy80YnVpciV4dDNhSC8zYW5LcW1KSDUyYz0=) (<https://sciprofiles.com/profile/author/QmQyTHBUTE5WaHBhV1FFdWN5Uy80YnVpciV4dDNhSC8zYW5LcW1KSDUyYz0=>),  [Farhang Razavi](https://sciprofiles.com/profile/1662663) (<https://sciprofiles.com/profile/1662663>),  [Seyed Najmaddin Mortazavi](https://sciprofiles.com/profile/author/aVRaV2dzNnJGdmYvMnVNT29nVG5LV295dIFUOGRDVKmVs3VQZmZsZW) (<https://sciprofiles.com/profile/author/aVRaV2dzNnJGdmYvMnVNT29nVG5LV295dIFUOGRDVKmVs3VQZmZsZW>),  [Gholamreza Gohari](https://sciprofiles.com/profile/763998) (<https://sciprofiles.com/profile/763998>) and  [Antonio Juárez-Maldonado](https://sciprofiles.com/profile/257900) (<https://sciprofiles.com/profile/257900>)

*Horticulturae* 2022, 8(7), 648; <https://doi.org/10.3390/horticulturae8070648> (<https://doi.org/10.3390/horticulturae8070648>) - 17 Jul 2022  
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**Abstract** Edible coatings are an appropriate way to preserve the quality of horticultural crops and reduce post-harvest losses. In this study, treatments with proline (Pro), chitosan (CTS) and proline-coated chitosan nanoparticles (CTS-Pro NPs) to maintain quality and reduce the decay of strawberry fruit were [...]

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### **Nitrogen Rate, Irrigation Frequency and Volume Differentially Influence Growth, Flowering, and Nutrient Uptake of Container-Grown Rhododendron during the Following Growing Season (2311-7524/8/7/647)**

by  **Guihong Bi** (<https://sciprofiles.com/profile/1768552>),

 **Carolyn F. Scagel** (<https://sciprofiles.com/profile/author/SEJOajEyMGJOVGc3a204MVc4aUFPa0hPdXJCbGNKNm1KVml1ZTFzZjVWWT0=>), and

 **David R. Bryla** (<https://sciprofiles.com/profile/2226005>).

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**Abstract** Sustainable nutrient and water management are critical for optimizing the quality and subsequent landscape performance of nursery plants. In this 2-year study, we investigated the influence of different nitrogen (N) rates [N-free fertilizer (0 N) or N-free fertilizer plus 7 (0.5 N) or [...]] **Read more.** (This article belongs to the Special Issue **Horticultural Crops Water and Fertilizer Management ( /journal/horticulturae/special\_issues/Horticultural\_Water\_Fertilizer )**)

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### **Elicitor Activity of Curdlan and Its Potential Application in Protection of Hass Avocado Plants against *Phytophthora cinnamomi* Rands (2311-7524/8/7/646)**

by  **Nathalie Guarnizo** (<https://sciprofiles.com/profile/1305517>),

 **Andree Álvarez** (<https://sciprofiles.com/profile/author/cmZmRldCbme0MTJCOGJYNEhpbk9PUHU3bEIFSGIleWZmRHRKWmExbnlIVT0=>),

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 **María Bianney Bermúdez-Cardona** (<https://sciprofiles.com/profile/author/V3hJdVRoN3QzeVI0U25NTXJqczcySFZYQkNpdk1GeFFsS1ZOQTRB=>) and

 **Walter Murillo-Arango** (<https://sciprofiles.com/profile/707774>)

*Horticulturae* 2022, 8(7), 646; <https://doi.org/10.3390/horticulturae8070646> (<https://doi.org/10.3390/horticulturae8070646>) - 16 Jul 2022

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**Abstract** *Phytophthora cinnamomi* causes one of the most important diseases in avocado crop and its chemical management represents 25% of the production cost per year. Induction of plant defense responses by elicitors is a promising strategy that is compatible with sustainable agriculture. This study [...]] **Read more.**

(This article belongs to the Special Issue **Pathogens and Disease Control of Fruit Trees ( /journal/horticulturae/special\_issues/Pathogens\_Fruit\_Trees )**)



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### **Water Stress Alleviation Effects of Biostimulants on Greenhouse-Grown Tomato Fruit (2311-7524/8/7/645)**

by  **Ángela Fernandes** (<https://sciprofiles.com/profile/1001277>),  **Christina Chaski** (<https://sciprofiles.com/profile/1556858>),

 **Carla Pereira** (<https://sciprofiles.com/profile/801477>),  **Marina Kostić** (<https://sciprofiles.com/profile/1240750>),

 **Youssef Roupheal** (<https://sciprofiles.com/profile/116007>),  **Marina Soković** (<https://sciprofiles.com/profile/2393>),

 **Lillian Barros** (<https://sciprofiles.com/profile/428642>) and  **Spyridon A. Petropoulos** (<https://sciprofiles.com/profile/258622>)




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**Abstract** The aim of the present study was to evaluate the effects of three biostimulant products (Nomoren (N), Twin Antistress (TW), x-Stress (XS) and control treatment (C: no biostimulants added)) on the nutritional value, chemical composition and bioactive properties of greenhouse tomato fruit grown

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**Characterizing the Spatial Uniformity of Light Intensity and Spectrum for Indoor Crop Production** ([/2311-7524/8/7/644](#))by  [László Balázs](https://sciprofiles.com/profile/1892551) (<https://sciprofiles.com/profile/1892551>), [Zoltán Dombi](https://sciprofiles.com/profile/author/dVo0VGt5NmFjTUhZYW5VvmRXYndpMnRSL2xCbzJQUNxOTFsVjFhZ2xlbz0=) (<https://sciprofiles.com/profile/author/dVo0VGt5NmFjTUhZYW5VvmRXYndpMnRSL2xCbzJQUNxOTFsVjFhZ2xlbz0=>), [László Csambalik](https://sciprofiles.com/profile/958958) (<https://sciprofiles.com/profile/958958>) and  [László Sipos](https://sciprofiles.com/profile/1212478) (<https://sciprofiles.com/profile/1212478>).*Horticulturae* 2022, 8(7), 644; <https://doi.org/10.3390/horticulturae8070644> (<https://doi.org/10.3390/horticulturae8070644>). - 15 Jul 2022

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**Abstract** Maintaining uniform photon irradiance distribution above the plant canopy is a fundamental goal in controlled environment agriculture (CEA). Spatial variation in photon irradiance below the light saturation point will drive differences in individual plant development, decreasing the economic value of the crop. Plant [...] [Read more](#).

(This article belongs to the Special Issue [Innovative Technologies and Production Strategies for Sustainable Controlled Environment Horticulture](#) ([/journal/horticulturae/special\\_issues/Controlled\\_Environment\\_Horticulture](#)))**► Show Figures**

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**Dof Transcription Factors Are Involved in High CO<sub>2</sub> Induced Persimmon Fruit Deastringency** ([/2311-7524/8/7/643](#))by  [Rong Jin](https://sciprofiles.com/profile/author/b0RiYk9ZeGM2dGITQWFOUU45THFadz09) (<https://sciprofiles.com/profile/author/b0RiYk9ZeGM2dGITQWFOUU45THFadz09>), [Wei Wu](https://sciprofiles.com/profile/author/d1hSRHU0eGhnbkZnQIVoN1ZmeEpUVG1VNlorZmo2bkY0THdqaHVIL2dCZz0=) (<https://sciprofiles.com/profile/author/d1hSRHU0eGhnbkZnQIVoN1ZmeEpUVG1VNlorZmo2bkY0THdqaHVIL2dCZz0=>), [Xiaofen Liu](https://sciprofiles.com/profile/author/bm42cXVNWJKUGJuMFpuQ2hkdXQwM2Q5YIFOTGJxdVkvZitQQIdyaWxCST0=) (<https://sciprofiles.com/profile/author/bm42cXVNWJKUGJuMFpuQ2hkdXQwM2Q5YIFOTGJxdVkvZitQQIdyaWxCST0=>), [Kunsong Chen](https://sciprofiles.com/profile/1539595) (<https://sciprofiles.com/profile/1539595>) and  [Xueren Yin](https://sciprofiles.com/profile/97871) (<https://sciprofiles.com/profile/97871>)*Horticulturae* 2022, 8(7), 643; <https://doi.org/10.3390/horticulturae8070643> (<https://doi.org/10.3390/horticulturae8070643>). - 15 Jul 2022

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**Abstract** High CO<sub>2</sub> treatment is a widely used deastringency technology that causes the accumulation of acetaldehyde which precipitates the astringent soluble tannins from persimmon fruit, making them more attractive to consumers. The identification of *DkADH1* and *DkPDC2* (the key genes for acetaldehyde accumulation) [...] [Read more](#).

(This article belongs to the Collection [Advances in Fruit Quality Formation and Regulation](#) ([/journal/horticulturae/topical\\_collections/Fruit\\_Quality\\_Formation\\_Regulation](#)))**► Show Figures**

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**Antioxidant Capacity of *Salix alba* (Fam. Salicaceae) and Influence of Heavy Metal Accumulation** ([/2311-7524/8/7/642](#))by  [Demush Bajraktari](https://sciprofiles.com/profile/2347669) (<https://sciprofiles.com/profile/2347669>), [Biljana Bauer](https://sciprofiles.com/profile/author/WkRiMk9IRHR1QU9xb2Fwak4rNuTtV0VDWWw4UUcrV1hsSkZORVRSaXI1OD0=) (<https://sciprofiles.com/profile/author/WkRiMk9IRHR1QU9xb2Fwak4rNuTtV0VDWWw4UUcrV1hsSkZORVRSaXI1OD0=>) and [Lulzim Zeneli](https://sciprofiles.com/profile/810031) (<https://sciprofiles.com/profile/810031>)*Horticulturae* 2022, 8(7), 642; <https://doi.org/10.3390/horticulturae8070642> (<https://doi.org/10.3390/horticulturae8070642>). - 15 Jul 2022

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**Abstract** In this study, we analyzed and compared the concentrations of selected metals/metalloids and the antioxidant response of *Salix alba* L. (white willow) bark in the highly polluted area around the Kosovo A and B thermal power plants. The antioxidant capacity of *Salix alba* [...] [Read more](#).

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**Improvement of In Vitro Seed Germination and Micropropagation of *Amomum tsao-ko* (Zingiberaceae Lindl.)** (2311-7524/8/7/640)

by [Quyet V. Khuat](https://sciprofiles.com/profile/1998922) (https://sciprofiles.com/profile/1998922), [Elena A. Kalashnikova](https://sciprofiles.com/profile/1990283) (https://sciprofiles.com/profile/1990283), [Rima N. Kirakosyan](https://sciprofiles.com/profile/1715267) (https://sciprofiles.com/profile/1715267), [Hai T. Nguyen](https://sciprofiles.com/profile/1990282) (https://sciprofiles.com/profile/1990282), [Ekaterina N. Baranova](https://sciprofiles.com/profile/801238) (https://sciprofiles.com/profile/801238) and [Marat R. Khaliluev](https://sciprofiles.com/profile/941889) (https://sciprofiles.com/profile/941889) *Horticulturae* 2022, 8(7), 640; <https://doi.org/10.3390/horticulturae8070640> (https://doi.org/10.3390/horticulturae8070640). - 15 Jul 2022  
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**Abstract** Black cardamom (*Amomum tsao-ko* Crevost & Lemarié) is a spice plant of great commercial value in Vietnam, but with limited propagation ability. Its seeds are characterized by a thick and hard seed coat, a small endosperm, and a small embryo, which are [...] **Read more.** (This article belongs to the Special Issue **The State-of-the-Art Propagation and Breeding Techniques for Horticulture Crops** ([/journal/horticulturae/special\\_issues/Propagation\\_Breeding](/journal/horticulturae/special_issues/Propagation_Breeding).)

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**Impact of Plant Growth-Promoting Rhizobacteria Inoculation on the Physiological Response and Productivity Traits of Field-Grown Tomatoes in Hungary** (2311-7524/8/7/641)

by [Eszter Nemeskéri](https://sciprofiles.com/profile/author/ajh4VTU4MDR6RGE3ZjQwc1VYc0FFRDVyb0Y0aE1mMTBmWjJuYU5BTVh1Yz0=) (https://sciprofiles.com/profile/author/ajh4VTU4MDR6RGE3ZjQwc1VYc0FFRDVyb0Y0aE1mMTBmWjJuYU5BTVh1Yz0=), [Kitti Zsuzsanna Horváth](https://sciprofiles.com/profile/author/Tm1oUi9GODcrcEIETjhZZFJJVWkzaTFyQitKMDRZnjczd3VYU09sWnl1RVdIUh) (https://sciprofiles.com/profile/author/Tm1oUi9GODcrcEIETjhZZFJJVWkzaTFyQitKMDRZnjczd3VYU09sWnl1RVdIUh), [Bulgan Andryei](https://sciprofiles.com/profile/author/UkExRWJ0bTdRMFFwQjBCUjlvZ0IEQ1IGNIF6dGN2S1dmMWC4cnNxbkNuTT0=) (https://sciprofiles.com/profile/author/UkExRWJ0bTdRMFFwQjBCUjlvZ0IEQ1IGNIF6dGN2S1dmMWC4cnNxbkNuTT0=), [Riadh Ilahy](https://sciprofiles.com/profile/814897) (https://sciprofiles.com/profile/814897), [Sándor Takács](https://sciprofiles.com/profile/1815742) (https://sciprofiles.com/profile/1815742), [András Neményi](https://sciprofiles.com/profile/author/djg3YjdaYnE4REF1QjNyTWf5ZjVDMnh6SjFLa1Y2OERQc3d5ZnNUMGcyYz0=) (https://sciprofiles.com/profile/author/djg3YjdaYnE4REF1QjNyTWf5ZjVDMnh6SjFLa1Y2OERQc3d5ZnNUMGcyYz0=), [Zoltán Pék](https://sciprofiles.com/profile/127758) (https://sciprofiles.com/profile/127758) and [Lajos Helyes](https://sciprofiles.com/profile/author/NXlxaIJ3c1N5dG1ic0ZvcHlXENhRjERjFWcFhJd040UEUxYk13RXhqTT0=) (https://sciprofiles.com/profile/author/NXlxaIJ3c1N5dG1ic0ZvcHlXENhRjERjFWcFhJd040UEUxYk13RXhqTT0=) *Horticulturae* 2022, 8(7), 641; <https://doi.org/10.3390/horticulturae8070641> (https://doi.org/10.3390/horticulturae8070641). - 14 Jul 2022  
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**Abstract** Drought-tolerant plant growth-promoting rhizobacteria (PGPR) may promote plant development under limited water supply conditions, when plant's water demand is not completely satisfied under rain-fed conditions or when irrigation water availability is limited. The aim of this study was to examine the effects of [...] **Read more.**

(This article belongs to the Special Issue **Drought Stress in Horticultural Plants** ([/journal/horticulturae/special\\_issues/Drought\\_Horticultural\\_Plants](/journal/horticulturae/special_issues/Drought_Horticultural_Plants)))

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**The Bioactivities and Chemical Profile of Turnip-Rooted Parsley Germplasm** (2311-7524/8/7/639)

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by [Spyridon A. Petropoulos](https://sciprofiles.com/profile/258622) (<https://sciprofiles.com/profile/258622>), [Ángela Fernandes](https://sciprofiles.com/profile/1001277) (<https://sciprofiles.com/profile/1001277>), [Tiane C. Finimundy](https://sciprofiles.com/profile/1078186) (<https://sciprofiles.com/profile/1078186>), [Nikolaos Polyzos](https://sciprofiles.com/profile/1015086) (<https://sciprofiles.com/profile/1015086>), [José Pinela](https://sciprofiles.com/profile/161942) (<https://sciprofiles.com/profile/161942>), [Marija Ivanov](https://sciprofiles.com/profile/1071974) (<https://sciprofiles.com/profile/1071974>), [Marina Soković](https://sciprofiles.com/profile/2393) (<https://sciprofiles.com/profile/2393>), [Isabel C. F. R. Ferreira](https://sciprofiles.com/profile/7808) (<https://sciprofiles.com/profile/7808>) and [Lillian Barros](https://sciprofiles.com/profile/428642) (<https://sciprofiles.com/profile/428642>).



*Horticulturae* 2022, 8(7), 639; <https://doi.org/10.3390/horticulturae8070639> (<https://doi.org/10.3390/horticulturae8070639>) - 14 Jul 2022

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**Abstract** In the present study, the chemical profile and bioactive properties of the roots of turnip-rooted parsley (*Petroselinum crispum* spp. *tuberosum*) germplasm were evaluated. For this purpose, plants from seventeen parsley cultivars were grown in 6 L pots, and the obtained roots [...] [Read more](#). (This article belongs to the Special Issue [Nutrition, Phytochemistry, Bioactivity of Fresh-Consumed Vegetables](#) ([/journal/horticulturae/special\\_issues/phytochemistry\\_vegetables](#)))

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**Effects of Shading Nets on Reactive Oxygen Species Accumulation, Photosynthetic Changes, and Associated Physiochemical Attributes in Promoting Cold-Induced Damage in *Camellia sinensis* (L.) Kuntze** ([/2311-7524/8/7/637](#))

by [Shah Zaman](https://sciprofiles.com/profile/2278162) (<https://sciprofiles.com/profile/2278162>),

[Jiazhi Shen](https://sciprofiles.com/profile/author/MHBmcTk3SxtkLytDVlhWakNIOUM4K0JtRVk2a0h5NmhlbGVOaXVDSEhHQT0=) (<https://sciprofiles.com/profile/author/MHBmcTk3SxtkLytDVlhWakNIOUM4K0JtRVk2a0h5NmhlbGVOaXVDSEhHQT0=>), [Shuangshuang Wang](https://sciprofiles.com/profile/author/TE1DNDhsZEteEeXmRDnySGV0eEhBUGNYdnFicUjdjm52QlhDa2IsdUVIMD0=) (<https://sciprofiles.com/profile/author/TE1DNDhsZEteEeXmRDnySGV0eEhBUGNYdnFicUjdjm52QlhDa2IsdUVIMD0=>), [Yu Wang](https://sciprofiles.com/profile/1512162) (<https://sciprofiles.com/profile/1512162>), [Zhaotang Ding](https://sciprofiles.com/profile/236649) (<https://sciprofiles.com/profile/236649>), [Dapeng Song](https://sciprofiles.com/profile/author/endpSU81ZDI0ODZOeiMwZ0QvYXZWSmxhY2VuRSs2RWM0N0hTcUc3NmVUYz0=) (<https://sciprofiles.com/profile/author/endpSU81ZDI0ODZOeiMwZ0QvYXZWSmxhY2VuRSs2RWM0N0hTcUc3NmVUYz0=>), [Hui Wang](https://sciprofiles.com/profile/author/Z1FnL0d1Y2ZEaWpwUEFwTWN2RnliSzBhY1UycmszS082L2wranVIUkVVVT0=) (<https://sciprofiles.com/profile/author/Z1FnL0d1Y2ZEaWpwUEFwTWN2RnliSzBhY1UycmszS082L2wranVIUkVVVT0=>), [Shibo Ding](https://sciprofiles.com/profile/1576818) (<https://sciprofiles.com/profile/1576818>), [Xu Pang](https://sciprofiles.com/profile/author/ZGVTRIRqdzVMaIFpSGQxYXJzbTUvU1M4VW1UYkXJSFJUcGNRYXdJWFNYcz0=) (<https://sciprofiles.com/profile/author/ZGVTRIRqdzVMaIFpSGQxYXJzbTUvU1M4VW1UYkXJSFJUcGNRYXdJWFNYcz0=>) and [Mengqi Wang](https://sciprofiles.com/profile/author/N280a29PTFPmDkZFRGN5cERMZlhmWnd0ZGRZUmErVldFbGJBZWE4VUZFOd0=) (<https://sciprofiles.com/profile/author/N280a29PTFPmDkZFRGN5cERMZlhmWnd0ZGRZUmErVldFbGJBZWE4VUZFOd0=>).

*Horticulturae* 2022, 8(7), 637; <https://doi.org/10.3390/horticulturae8070637> (<https://doi.org/10.3390/horticulturae8070637>) - 14 Jul 2022

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**Abstract** Climate change and extreme weather affect tea growing. A competitive tea market needs quick, short-term solutions. This study evaluates the effects of various shade nets under mild and extreme cold stress on tea leaf physiology, photosynthetic alterations, antioxidant activities, and physiochemical characteristics. Tea [...] [Read more](#).

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**Growth and Mineral Relations of *Beta vulgaris* var. *cicla* and *Beta vulgaris* ssp. *maritima* Cultivated Hydroponically with Diluted Seawater and Low Nitrogen Level in the Nutrient Solution** ([/2311-7524/8/7/638](#))

by [Martina Puccinelli](https://sciprofiles.com/profile/689790) (<https://sciprofiles.com/profile/689790>), [Giulia Carmassi](https://sciprofiles.com/profile/1091417) (<https://sciprofiles.com/profile/1091417>),

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[Alberto Pardossi](https://sciprofiles.com/profile/512292) (<https://sciprofiles.com/profile/512292>) and [Luca Incrocci](https://sciprofiles.com/profile/244406) (<https://sciprofiles.com/profile/244406>).

*Horticulturae* 2022, 8(7), 638; <https://doi.org/10.3390/horticulturae8070638> (<https://doi.org/10.3390/horticulturae8070638>) - 14 Jul 2022

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**Abstract** There is an increasing interest in the use of seawater in horticulture. The objective of this study was to evaluate *Beta vulgaris* var. *cicla* (Swiss chard) and its wild ancestor *B. vulgaris* ssp. *maritima* (sea beet) as potential crop species for seawater hydroponics [...] [Read more](#).

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### [Root Morphological and Physiological Adaptations to Low Phosphate Enhance Phosphorus Efficiency at Melon \(\*Cucumis melo\* L.\) Seedling Stage](https://doi.org/10.3390/horticulturae-08-00638) (2311-7524/8/7/636)

by  Pengli Li (<https://sciprofiles.com/profile/author/c0pzOWZjb3NDei9nRjZLU2JlcmRBZkhXTTdPcDcyb1hVQ2k4eTNvbFI6MD0=>),  Jinyang Weng (<https://sciprofiles.com/profile/author/M3Q0MmpQck1KNjBaeVp4RDRmTnp3dUgwTUIsT2ppZ0c1QjBzdFJhbKnsOD0=>),  Asad Rehman (<https://sciprofiles.com/profile/author/RFk4NkdKdDNCcUFkMXBBWmhxRHhCNEExGVjNNNmJYcWdVQWICVzVxc056dz0=>), and  Qingliang Niu (<https://sciprofiles.com/profile/1482397>).

*Horticulturae* 2022, 8(7), 636; <https://doi.org/10.3390/horticulturae8070636> (<https://doi.org/10.3390/horticulturae8070636>) - 14 Jul 2022

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**Abstract** The high phosphorus (P) acquisition ability of crops can reduce their dependence on artificial inorganic phosphate (Pi) supplementation under Pi-limited conditions. Melon (*Cucumis melo* L.) is vulnerable to Pi deficiency. This study was carried out to explore the morphological and physiological responses [...] [Read more.](#)

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### [Metabolome and Transcriptome Analyses Unravels Molecular Mechanisms of Leaf Color Variation by Anthocyanidin Biosynthesis in \*Acer triflorum\*](https://doi.org/10.3390/horticulturae-08-00635) (2311-7524/8/7/635)

by  Anran Sun (<https://sciprofiles.com/profile/author/M0pob1VIV1BEYWFaeW55dGFNaWNVbC96aytVSUdFbXFCNktDUiVBY1dnWT0=>),  Xiaona Pei (<https://sciprofiles.com/profile/1821603>),  Shikai Zhang (<https://sciprofiles.com/profile/author/b3o5QUttcG5hYzdBWGtmZXhhUEtVdz09>),  Zhiming Han (<https://sciprofiles.com/profile/author/UVZzRmFUSkQU20wdUxvY3VnUzFtS0VQa2FzdUpMdmVSNdhdXZyMzhBUT0=>),  Ying Xie (<https://sciprofiles.com/profile/1917483>),  Guanzheng Qu (<https://sciprofiles.com/profile/1615681>),  Xiaoqing Hu (<https://sciprofiles.com/profile/2209242>),  Muluaem Tigabu (<https://sciprofiles.com/profile/185830>) and  Xiyang Zhao (<https://sciprofiles.com/profile/291894>).

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**Abstract** *Acer triflorum* Komarov is an important ornamental tree, and its seasonal change in leaf color is the most striking feature. However, the quantifications of anthocyanin and the mechanisms of leaf color change in this species remain unknown. Here, the combined analysis of metabolome [...] [Read more.](#)

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### [Molecular Cloning, Characterization, and Expression Analysis of SIMILAR TO RCD-ONE \(SRO\) Family Genes Responding to Abiotic and Biotic Stress in Cucumber](https://doi.org/10.3390/horticulturae-08-00634) (2311-7524/8/7/634)

by [Lingdi Xiao](https://sciprofiles.com/profile/author/R3d2NjloSXY5UkpOOXR0cTdtOEV4V2h3LzFRNFdiV2RrQzVJRGiQTWQ1cz0=) (<https://sciprofiles.com/profile/author/R3d2NjloSXY5UkpOOXR0cTdtOEV4V2h3LzFRNFdiV2RrQzVJRGiQTWQ1cz0=>), [Zixian Zhou](https://sciprofiles.com/profile/author/N3BaYjQ1VFBkOUQ2cXR1UTRUy0NjVWg4dG1WNHozQjByM0IzMEZ3S1VaST0=) (<https://sciprofiles.com/profile/author/N3BaYjQ1VFBkOUQ2cXR1UTRUy0NjVWg4dG1WNHozQjByM0IzMEZ3S1VaST0=>), [Chuxia Zhu](https://sciprofiles.com/profile/1175836) (<https://sciprofiles.com/profile/1175836>), [Jindong Zhao](https://sciprofiles.com/profile/author/U016djJxSEijUDEra3E0MkJ6RnZSZS96V2VKeStNeG95WG1HMmZobUhtUT0=) (<https://sciprofiles.com/profile/author/U016djJxSEijUDEra3E0MkJ6RnZSZS96V2VKeStNeG95WG1HMmZobUhtUT0=>), [Zhaoyang Hu](https://sciprofiles.com/profile/author/MDFScTM2amUrc21hSkRsc3BpWUdIZXZnZXlrcW5WRUU0bHRkOU5qNEIRWT0=) (<https://sciprofiles.com/profile/author/MDFScTM2amUrc21hSkRsc3BpWUdIZXZnZXlrcW5WRUU0bHRkOU5qNEIRWT0=>), [Shiqiang Liu](https://sciprofiles.com/profile/119298) (<https://sciprofiles.com/profile/119298>) and [Yong Zhou](https://sciprofiles.com/profile/508886) (<https://sciprofiles.com/profile/508886>)  
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**Abstract** SIMILAR TO RCD-ONE (SRO) is a plant-specific small protein family that controls many biological processes including physiological development and stress responses. The *SRO* gene family has been studied in several plant species, but no detailed characterization and expression profiles of this important gene [...][Read more.](#)

(This article belongs to the Special Issue [Gene Expressions in Response to Diseases, Abiotic Stresses and Pest Damage of Horticultural Products](#) ([/journal/horticulturae/special\\_issues/Gene\\_Expressions\\_Response](#)))

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by [Catello Pane](https://sciprofiles.com/profile/925194) (<https://sciprofiles.com/profile/925194>), [Riccardo Spaccini](https://sciprofiles.com/profile/1086216) (<https://sciprofiles.com/profile/1086216>), [Michele Caputo](https://sciprofiles.com/profile/959992) (<https://sciprofiles.com/profile/959992>), [Enrica De Falco](https://sciprofiles.com/profile/231943) (<https://sciprofiles.com/profile/231943>), and [Massimo Zaccardelli](https://sciprofiles.com/profile/602365) (<https://sciprofiles.com/profile/602365>)

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**Abstract** Garden cress is a vegetable crop in the Brassicaceae family that is appreciated for its nutraceutical and taste-giving components in minimally processed food chains. Due to its very short cycle, which depends on the range of production from microgreens to baby-leaf vegetables, this [...][Read more.](#)

(This article belongs to the Special Issue [Sustainable Control Strategies of Plant Pathogens in Horticulture](#) ([/journal/horticulturae/special\\_issues/Plant\\_Pathogens\\_Horticulture](#)))

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**Effects of Different Forms of *Tagetes erecta* Biofumigation on the Growth of Apple Seedlings and Replanted Soil Microbial Environment** ([/2311-7524/8/7/633](#))

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**Abstract** Apple replant disease (ARD) is a common soil disease that occurs in apple-growing areas around the world, causing root tip rot and necrosis, plant growth retardation and even plant death. Biofumigation is a promising strategy for controlling ARD due to its advantages of [...][Read more.](#)

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Junto con saludar, solicito a contraloría la autorización para realizar el pago en el extranjero a la revista científica *Horticulturae*, de nuestro recientemente aceptado Manuscrito ID: horticulturae-1793116 (adjunto certificado). Cuyo título es “Antimicrobial multiresistant phenotypes of genetically diverse *Pseudomonas spp.* isolates associated with tomato plants in Chilean orchards”

Esta publicación, es la finalización de varios años de estudio de la diversidad de bacterias del género *Pseudomonas* ambientales inocuas, así como fitopatógenas presentes en huertos nacionales. El objetivo principal fue determinar cómo estas bacterias que usualmente están presentes en ambientes agrícolas, resultaron ser multirresistentes a antibióticos y cobre, pudiendo considerarse como reservorios de resistencia así como un potencial riesgo para la salud humana. Los resultados fueron enviados, revisados y aceptados por la revista Suiza *Horticulturae*, que pertenece a Web of Science (WOS), y se encuentra dentro del cuartil uno (Q1) del área. El cuartil es un indicador que sirve para evaluar la importancia relativa de una revista dentro del total de revistas de su área, que se encuentre en Q1 significa que pertenece al 25% de las revistas más importante en agronomía a nivel mundial.

Consideramos que nuestro trabajo ha sido de alto impacto y se vio reflejado por la rápida aceptación, del mismo modo, esperamos contribuir al conocimiento y el resguardo sobre todo con un tema tan delicado como lo es la resistencia a antibióticos y cobre. Esta revista nos permitirá una mayor visualización y difusión en la comunidad científica a nivel internacional.

Finalmente, los costos de publicar en una revista de este prestigio es de CHF 1600,00 Francos Suizos ( \$1.556.545 valor de referencia del franco suizo a peso chileno al día 25 de julio 2022). Adjunto la Invoice. El pago de esta se efectuará a través de mi centro de costo N° 7271, que pertenece al Proyecto que llevo en curso U-Inicia (Vicerrectoría de Investigación de la Universidad de Chile).

Esperando tener una buena acogida se despide muy cordialmente



**Gastón Higuera**  
**Profesor Asistente**



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Certificate of acceptance for the manuscript (**horticulturae-1793116**) titled:  
Antimicrobial multiresistant phenotypes of genetically diverse *Pseudomonas* spp.  
isolates associated with tomato plants in Chilean orchards

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Juan Leiva Ortíz

Director (S) Económico y Administrativo

**COMITÉ ASESOR INTA  
ACTA N° 61 DE 2022 ADQUISICIONES  
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En virtud de lo dispuesto en el artículo N° 8 del Decreto Universitario Exento N° 1261 de Octubre de 2021 que delega facultades a Decanos(as), Directores(as) de institutos, Prorrector(a), Vicerrectores(as) y Director(a) General de Hospital Clínico, que establece que los Decanos(as) de Facultad y Directores(as) de institutos, según corresponda, deberán asesorarse por un Comité de la respectiva Facultad o Instituto para la dictación de los actos que aprueben bases de licitación, tratos directos, adjudicaciones, u otras actuaciones asociadas a los procedimientos de contratación pública establecidos en la Ley N°19.886 y su Reglamento. Este comité operará de acuerdo a lo señalado en el mismo decreto.

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4191	Autoriza TD para la adquisición del servicio de publicación de artículo de investigación titulado: "Chilean diet: is it sustainable?" (La dieta chilena: ¿es sostenible?), en la revista Open Access "Nutrients".	CHF 2.600.-
4192	Autoriza TD para la adquisición de los insumos de laboratorio: (1) COLUMNA HPLC, Luna 5u C18(2) 100A,200 x 4.6 mm y (1) CARTUCHO PRECOLUMNA C18 (10/PK.) 4x3,0mm.	\$1.150.730.-
4193	Autoriza TD para la adquisición del servicio de mantención y reparación del equipo de laboratorio Estufa Labtech.	\$417.452.-

Sobre las bases de lo expuesto, la comisión acuerda autorizar dar curso a los procesos de adquisiciones indicados precedentemente.

Para constancia firman los asistentes,

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