

Time	Sunday 25 February		
14:00-19:00	Registration open (AAHC 2024 Registration Desks at NOVOTEL Hivernage Hotel)		
Time	Monday 26 February	Chair and co-chair	Speakers
07:30-08:30	Transfer from Marrakech to UM6P Campus (GPS locations of shuttle Bus collection sites provided on the website)		
08:30-10:00	Registration continues at UM6P Breakfast Buffet		
10:00-11:30	Opening Ceremony	Master of Ceremony (UM6P)	Moroccan Dignitaries, President of UM6P FAO-NSP, President of ISHS; President of AAHC 2024; Regional Director of CIRAD in North Africa.
11:30-12:30	Plenary 1 Status and opportunities of Horticulture industry in Africa	Conveners: <ul style="list-style-type: none"> Abdelhaq Hanafi (President of AAHC2024) Redouane Choukallah (Co-President of AAHC2024) 	Keynote Lecture 1: Science & Innovation for a more Food Secure World (<i>Ismahane Elouafi, CGIAR EMD</i>)
11:30-12:30 12:30-13:30			Plenary 2 Key challenges for Horticulture in Africa
13:30-14:30	Lunch Break		
14:30-16:00	Workshop 1 Digital Innovation for small scale farming in horticulture	Conveners: <ul style="list-style-type: none"> Remi Kahane (CIRAD, France) Fenton Beed (FAO, Italy) 	Panelists: <ul style="list-style-type: none"> Akin Akinwande (OCP Africa) Benjamin Abugri (FARA, Ghana) Yvonne Pinto (Eagle Genomics, UK) Nicolas Paget (CIRAD, Benin) Guido Santini (FAO, Italy)
16:00-16:30	Refreshment Break		
16:30-17:30	Session 1 Innovation technologies and production strategies for sustainable controlled environment	Conveners: <ul style="list-style-type: none"> Yuksel Tuzel (Ege Univ., Turkey) Stefania DePasquale (Univ. Napoli, Italy) 	16:30-16:40 Navigating Climate Change Challenges in Vegetable Greenhouse Production (<i>Nazim Gruda, University of Bonn, INRES Horticultural Sciences, Germany</i>) 16:40-16:50 Agronomic mineral biofortification as a tool to enhance the nutritional value of vegetables (<i>Cherrubino Leonardì, University of Catania, Italy</i>). 16:50-17:00 Harnessing Innovations for Sustainable Horticultural growth in East Africa (<i>Penina Yumbya, ICED, Kenya</i>) 17:00-17:10 A sustainable eco-friendly approach for vegetable production in vertical hydroponics (<i>Khuloud Alneyadi, United Arab Emirates University, United Arab Emirates</i>) 17:10-17:20 Simplified hydroponics in Tunisia: assessing the charred straw as growing substrate for lettuce cultivation (<i>Vito Aurelio Cerasola, University of Bologna, Italy</i>). 17:20-17:30 Saffron: Sustainable Urban Cultivation - Vertical Farming (<i>Mahmoud A. Sharafeldin, Ministry of Environment and Water and Agriculture, Saudi Arabia</i>)
17:30 - 18:30	Session 2 Horticulture for food and nutrition security in Africa	Conveners: <ul style="list-style-type: none"> Bibi Giyose (AUDA/FAO) Guido Santini (FAO NSP, Italy) 	17:30-17:40 Winter chill decline threatens olive production: the sustainability of olive growing in Morocco in the face of global warming. Omar Abou-Said; Adnanae El Yacoubi, Magalie Delalande, Cherkaoui El Modafar, Hayat Zaher & Bouchaib Khadari (<i>INRA Marrakech, Morocco</i>) 17:40-18:50 Promoting vegetable varieties in sub-Saharan Africa: A holistic approach (<i>Mathieu Ayenan, World Vegetable Center, Benin</i>) 18:50-18:00 Knowledge gap assessment of mushroom/Irvingia production and utilization among farmers in selected Nigerian states (<i>Olutola Oyedele, NIHORT, Farming Systems and Extension, Nigeria</i>) 18:00-18:10 Recent trends in pepper (<i>Capsicum spp.</i>) production, consumption and market segmentation in Sub-Saharan Africa (<i>Herbaud Zohoungbogbo, World Vegetable Center, Benin</i>) 18:10-18:20 Consumers' perceptions and willingness to pay (WTP) for organic vegetables in Ivory Coast (<i>Rahim Ouedraogo, CIRAD, Senegal</i>) 18:20-18:30 Natural Product-Based Biopesticides for a sustainable control of the wild cochineal <i>Dactylopius opuntiae</i> (Hemiptera: Dactylopiidae) in Morocco. <i>Karim El Fakhouri, Chaimae Ramdani; Rachid Boulamtat; Mansour Sobeh; Noamane Meftah kadmiri. Adil Mazar ; Mustapha El Bouhssini.</i>
18:30-19:30	Transfer of participants to hotels in Marrakech		

Time	Tuesday 27 February	Chair and co-chair	Papers
07:30-08:30	Transfer from Marrakech to UM6P Campus		
08:30-09:30	Session 3 Best Agricultural Practices for smart horticulture	Conveners: <ul style="list-style-type: none"> • Cherubino Leonardi (Univ. Catania, Italy) • Enoch Achigan Dako (Univ. Abomey Calavi, Benin) 	08:30-08:40 Viability growth and yield responses of two okra (<i>Abelmoschus esculentus</i>) varieties to different hydro-priming durations (Paul Kweku Tandoh , KNUST, Ghana) 08:40-08:50 Seed germination and seedling development of selected vegetables and herbs grown in used disinfected substrates (Johleen Malaka , ARC-VIMP, South Africa) 08:50-09:00 Assessment of Aqua Crop model for simulating the Pea Crop Growth in Chichaoua region, Morocco (Lamia Jallal , University Cadi Ayyad, Morocco) 09:00-09:10 Effect of genotype and planting-harvesting methods on amaranth vegetable yield (Fekadu Fufa Dinssa , The World Vegetable Center, Tanzania) 09:10-09:20 Remote sensing-based analysis of tree degradation in the Haouz Plain: Examining the impact of drought and its spatial extent (Younes Ablila , Cadi Ayyad University, Morocco) 09:20-09:30 Digital access, capacities and uses by market gardeners in Benin (Nicolas Paget , CIRAD, Benin)
09:30-11:00	Workshop 2 New technologies for urban vegetable production (Sponsored by FAO)	Conveners: <ul style="list-style-type: none"> • Stefania DePasquale (Univ. Napoli, Italy) • Francesco Orsini (Univ. Bologna, Italy) Guido Santini & Fenton Beed Food and Agriculture Organization (FAO) of the United Nations (UN), Italy)	09:30-09:35 Opening and introduction (S. De Pascale) 09:35-09:45 The role of Urban Agriculture on sustainable city/region food systems (G. Santini) 09:45-09:55 Innovative technologies for urban food production (F. Orsini) 09:55-10:05 Capillary Wick Irrigation for Household Food and Nutrition in Kenya (A. Indeche , University of Nairobi Kenya) 10:05-10:15 Rapid assessment for actionable food systems transformation (E. Ofosuah Obeng , Wageningen University, The Netherlands) 10:15-10:25 Low-tech vertical farming in Nigeria (V. Aghaji , AGLOBE Development Center, Lagos, Nigeria) 10:25-10:55 Round table (moderators S. DePascale, F. Beed) 10:55-11:00 Conclusion and take away messages (F. Orsini, G. Santini)
11:00-11:30	Refreshment Break and Poster session		
11:30-12:30	Session 4 Efficient Use of water and nutrients in horticulture	Conveners: <ul style="list-style-type: none"> • Cherrubino Leonardi (Univ. Catania, Italy) • Yüksel Tüzel (Ege Univ., Turkey) 	11:30-11:40 Effects of soil amendments under drought stress on tomato accessions (Yüksel Tüzel ; Gölgen Bahar Öztekin; Mr. Tunç Durdu; Dr. Omar Saley Harouna) 11:40-11:50 Influence of soil moisture content on irrigation demand of <i>Solanum aethiopicum</i> L., Shum group (Godfrey Sseremba , UCU, Uganda) 11:50-12:00 Quantification of olive tree evapotranspiration using an optical-microwave scintillometer and SEBAL model (Hamza Barguache , Cadi Ayyad University, Morocco) 12:00-12:10 Effect of sustained and regulated deficit irrigation on productive parameters of <i>Olea europaea</i> L. cv. Menara in Marrakech region (Morocco) (Khaoula Ibbra , University Cadi Ayyad, Morocco) 12:10-12:20 Response of fluted pumpkin (<i>Telfairia occidentalis</i> Hook F.) to dry season irrigation (Isaac Ore Aiyelaagbe , Abeokuta University of Agriculture, Nigeria) 12:20-12:30 Optimizing image classification parameters in tree orchards using Sentinel-2 data (El Houcine El Moussaoui , Cadi Ayyad University, Morocco)
12:30-13:30	Session 5 Efficient Use of water and nutrients in horticulture	Conveners: <ul style="list-style-type: none"> • Mohamed El Gharous (UM6P, Morocco) • Abdelaziz Hirich (UM6P, Morocco) 	12:30-12:40 Fertilizers used in tomato production in West Africa (Antoine De Troij , Cirad HortSys, Benin) 12:40-12:50 Residual compost effect on tomato (<i>Solanum lycopersicum</i> L.) roots under drought conditions (Lord Abbey , Dalhousie University, Canada) 12:50-13:00 Growth response of greenhouse grown lettuce to irrigation in southwest Nigeria (Isaac Ore Aiyelaagbe , Abeokuta University of Agriculture, Nigeria) 13:00-13:10 Enhancing water use efficiency (WUE) and yield in <i>Lactuca sativa</i> : a comparative study of simplified soilless cultivation (SSC) versus traditional soil-based systems in Colombia (Gaia Moretti , University of Bologna, Italy) 13:10-13:20 Evaluating homemade dry manure tea as an alternative to synthetic fertilizers in spinach cultivation (Hana Lamouchi , UMR G-EAU CIRAD, France) 13:20-13:30 Growth and seed yield responses of okra to different rates of kitchen waste compost application in a tropical environment (Paul Kweku Tandoh , KNUST, Ghana)
13:30-15:00	Lunch Break, Poster Session, and Exhibition		



AAHC 2024
5TH ALL AFRICA HORTICULTURAL CONGRESS





Time	Tuesday 27 February	Chair and co-chair	Papers
15:00-16:00	<p>Session 6</p> <p>Efficient Use of water and nutrients in horticulture</p>	<p>Conveners:</p> <ul style="list-style-type: none"> Isaac Aiyelaagbe (Abeokuta Univ., Nigeria) Antoine DeTroj (CIRAD, Benin) 	<p>15:00-15:10 Effect of potassium thiosulfate on cv Muscat of Italy grape yield and quality (Mehdi Ben Mimoun, INAT, Tunisia)</p> <p>15:10-15:20 Abscisic acid (ABA) signal transduction and light emitting diode (LED) irradiation affect sugar metabolism and translocation in grape berries (Satoru Kondo, Chiba University, Japan)</p> <p>15:20-15:30 The concentrations of iodine in irrigation water in horticultural areas of Morocco and South Africa is too low to prevent iodine deficiency in plants (Katja Hora, SQM International NV, Belgium)</p> <p>15:30-15:40 Phenotypic variability and plasticity of stem and leaf traits related to water-use in olive cultivars (Siham Wakib, UCA Marrakech, Morocco - UM Montpellier, France)</p> <p>15:40-15:50 Empowering smallholder vegetable farmers in Nigeria for improved livelihoods: The contributions of East-West Seed (Hadiza Yaro, National Agricultural Seeds Council, Nigeria)</p> <p>15:50-16:00 Testing the Interaction of Strawberry Cultivars with organic and conventional cropping systems in Morocco (Kawtar Ziane, IAVH-II, Morocco)</p>
16:00-16:30	Refreshment Break and Poster session		
16:30-17:30	<p>Session 7</p> <p>Efficient Use of water and nutrients in horticulture</p>	<p>Conveners:</p> <ul style="list-style-type: none"> Yüksel Tüzel (Ege Univ., Turkey) Redouane ChoukrAllah (UM6P, Morocco) 	<p>16:30-16:40 Water management and irrigation systems in vegetable production in West Africa (Abdou Rachidi Francisco, World Vegetable Center, Benin)</p> <p>16:40-16:50 AgroHighTech - needs and solutions for biodiversity (Giedre Samuoliene, LAMMC, Lithuania)</p> <p>16:50-17:00 Effect of organic amendments and bio stimulants on cabbage under salinity conditions (Sanaa Malki, UM6P-ASARI, Morocco)</p> <p>17:00-17:10 Enhancing water management in Morocco's arid regions: Using advanced models for accurate ET₀ estimation (Oumaima KAISSI, Mohammed VI Polytechnic University (UM6P)).</p> <p>17:10-17:20 Germination, growth, and seed yield responses of groundnut (<i>Arachis hypogaea</i> L.) to different seed sizes and sowing depths (Irene Idun, KNUST, Ghana)</p> <p>17:20-17:30 Quantifying the biosphere-atmosphere exchange of CO₂ and H₂O in three different fruit orchards in winter and summer rainfall regions of South Africa (Phumudzo Charle Tharaga, University of the Free State, South Africa)</p>
17:30-18:30	<p>Session 8</p> <p>Adapted Horticulture to marginal environments</p>	<p>Conveners:</p> <ul style="list-style-type: none"> Karin Hannweg (ISHS Division Chair, South Africa) Laila M. Karlsson (Sweden) 	<p>17:30-17:45 Challenges and opportunities in East Africa's horticulture sub-sector: perspectives from the horticulture sub-sector stakeholders (Jane Ambuko Lukhachi, University of Nairobi, Kenya)</p> <p>17:45-18:00 Challenges and opportunities for the Nigerian horticultural sector (Johannes van der Waal, AgroFair Europe B.V., The Netherlands)</p> <p>18:00-18:10 Relation between agro-biodiversity level and microclimate characteristics in Kebili oases, Tunisia (Mehdi Ben Mimoun, INAT, Tunisia)</p> <p>18:10-18:20 Efficient propagation of enset (<i>Ensete ventricosum</i>, Musaceae), an Ethiopian drought tolerant, multipurpose, indigenous starch crop (Laila M. Karlsson, Ledberg Solbacka, Linköping, Sweden)</p> <p>18:20-18:30 Characterization and study of spearmint in Morocco: chemical characterization of the plant and its essential oil (Kawtar Mahrach, IAV, Morocco)</p> <p>18:30-18:40 Yield, physiochemical characteristics and fatty acid composition of vegetable oil extracted from the seed coats of <i>Strychnos pungens</i> Soler. [family Loganiaceae] fruits (Godfrey Zharere, Zululand Univ., South Africa)</p>
18:40-19:30	Transfer of participants to their hotels in Marrakech		



Time	Wednesday 28 February	Chair and co-chair	Speakers
07:30-08:30	Transfer from Marrakech to UM6P Campus		
08:30-09:30	<p>Workshop 3</p> <p>Food sovereignty through seed and planting material</p>	<p>Conveners:</p> <ul style="list-style-type: none"> • Moctar Fall (AgroSeed, Senegal) • Cherrubino Leonardi (Univ of Catania, Sicily) 	<p>Panelists to debate:</p> <ul style="list-style-type: none"> • Dr. Joseph Kugbe (OCP Ghana) • Malick Ba (World Vegetable Center, Mali) • Enoch Achigan Dako (University Abomey Calavi, Benin) • Liz Kizito (Uganda Catholic Univ, Uganda) • Abdrahamane Goïta, COASP, Mali • Edouard Drabo, (INERA, Burkina Faso) (ASPSP, Senegal) <p>Themes for debate:</p> <ul style="list-style-type: none"> - Seed industry: Where are we at in the region? - Protection of traditional/indigenous varieties: What is at stake? - Effect of climate change on traditional varieties (examples of fruits and vegetables) <p><i>Intra-Africa seed research cooperation and trade</i></p>
09:30-10:30	<p>Session 9</p> <p>Integrated Pest Management for safe horticultural produce</p>	<p>Conveners:</p> <ul style="list-style-type: none"> • Imme Gerke (IDRG, Germany) • Wubetu Bihon Legesse (WorldVeg, Ethiopia) 	<p>09:30-09:40 History of Biological Control in Greenhouses in Morocco (Laila Khouimi, Director General BIOBEST Morocco)</p> <p>09:40-09:50 Biological control: success stories in fruit tree crops in Africa (Yassine B. Lahiani, Koppert Global, The Netherlands)</p> <p>09:50-10:00 Integrated management of root diseases of greenhouse cucumbers using cultural, biological and chemical methods (Abdullah Al-Sadi, Sultan Qaboos University, Oman)</p> <p>10:00-10:10 Contribution of biological control to the development of integrated pest management and certified production in Morocco (Laila Lachhab, BIOBETTER Morocco)</p> <p>10:10-10:20 Assessing the effect of biopesticides combined with varietal resistance in scarlet eggplant for the management of <i>Amrasca biguttula</i> (Edouard Drabo, University JKZ, Burkina Faso)</p> <p>10:20-10:30 Potential of natural regulation of the tomato leafminer by its parasitoids in Senegal (Oumar Seydi, University Cheikh Anta Diop, Senegal)</p>
10:30-11:00	Refreshment Break and Poster session		
11:00-12:00	<p>Session 10</p> <p>Integrated Pest Management for safe horticultural produce</p>	<p>Conveners:</p> <ul style="list-style-type: none"> • Mustapha El Bouhssini (UM6P Morocco) • Laila Khouimi (BIOBEST Maroc) 	<p>11:00-11:10 Global harmonization of crop protection (Imme Gerke, IDRG, Germany)</p> <p>11:10-11:20 Evaluation of rootstocks of tomato (<i>Solanum lycopersicum</i> L.) resistance to bacterial wilt caused by <i>Ralstonia solanacearum</i> Species Complex (RSSC) in Benin (Herbaud Zohoungbogbo, World Vegetable Center, Benin)</p> <p>11:20-11:30 Exploring the susceptibility of tomato varieties to <i>Tetranychus evansi</i> Baker and Pritchard, 1960 (Acari: Tetranychidae) in Burkina Faso (Edouard Drabo, INERA, Burkina Faso)</p> <p>11:30-11:40 Life table parameters of exotic predator <i>Phytoseiulus longipes</i> (Evans) and local <i>Neoseiulus barkeri</i> (Hughes) in laboratory (Ginette Azandémè-Hounmalon, Université Nationale d'Agriculture, Benin)</p> <p>11:40-11:50 Evaluation of bio-pesticide to control insect and diseases of kale (<i>Brassica oleracea</i> L. var. <i>acephala</i>) in central Rift-Valley, Ethiopia (Wubetu Bihon Legesse, World Vegetable Center, Ethiopia)</p> <p>11:50-12:00 Can we use essential oils of <i>Ocimum</i> spp. to reduce aphids (Hemiptera: aphididae) abundance on amaranth? (Abdou Rachidi Francisco, WorldVeg, Benin)</p>
12:00-13:00	<p>Session 11</p> <p>Integrated Pest Management for safe horticultural produce</p>	<p>Conveners</p> <ul style="list-style-type: none"> • Yassine B Lahiani (Koppert Global, The Netherlands) • Laila Lchhab (BIOBETTER, Morocco) 	<p>12:00-12:10 Curative efficacy of acidic and alkaline electrolyzed water against <i>Botrytis cinerea</i> and <i>Penicillium expansum</i> on 'Granny Smith' apples (Oluwafemi James Caleb, Africa Institute for Postharvest Technology, Stellenbosch Univ., South Africa)</p> <p>12:10-12:20 Atmospheric cold plasma decontamination of <i>Botrytis cinerea</i> and <i>Monillinia</i> spp. inoculated on fresh nectarine fruit. (Oluwafemi James Caleb, Africa Institute for Postharvest Technology, Stellenbosch Univ., South Africa)</p> <p>12:20-12:30 Effect of Gene Silencing of Translation Initiation Factors eIF(iso)4G and eIF(iso)4E on sour cherry rootstock resistance to Sharka disease (Sergey Khokhlov, Nikita Botanical Gardens, Russian Federation)</p> <p>12:30-12:40 Biosecurity practices and exploratory survey for pests and diseases of Avocados in the Gharb-Loukkos Region, Morocco (Sidi Mohammed Ouaznati, Ibn Tofail University, UM6P, Morocco)</p> <p>12:40-12:50 Efficacy of <i>Beauveria bassiana</i> in controlling fruit flies and false codling moth in mango orchards (Lilian Muriuki, COLEAD, Kenya)</p>
13:00-14:30	Lunch Break and Poster session		

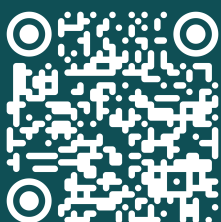
Time	Wednesday 28 February	Chair and co-chair	Speakers
14:30-15:30	Session 12 Harvest and Post-harvest Technologies in Horticulture	Conveners: <ul style="list-style-type: none"> Zinash Belay (ARC, South Africa) Kalenga Banda (University of Zambia) 	14:30-14:40 Postharvest Horticulture: Global Food and Nutritional Security (<i>Zora Singh, Edith Cowan University, Australia</i>) 14:40-14:50 Smallholder aggregation to reduce postharvest losses in horticultural value chains: challenges and opportunities (<i>Jane Ambuko Lukhachi, University of Nairobi, Kenya</i>) 14:50-15:00 The effect of essential oils as postharvest treatments of 'Hass' avocado (<i>Pearsea americana</i> Mill.) fruit (<i>Sabelo Shezi, Univ. of Mpumalanga, South Africa</i>) 15:00-15:10 Postharvest application of edible coating citrashine® for maintaining quality of 'turkey' orange fruit (<i>Matholo Joyce Mothapo, University of Limpopo, South Africa</i>) 15:10-15:20 <i>In vitro</i> control of storage spoilage fungi in export-grade white yam (<i>Dioscorea rotundata</i> Poir.) using cocoa (<i>Theobroma cacao</i> L.) leaf extracts (<i>Dr. Patrick Kumah, Department of Horticulture, CANR, KNUST, Ghana</i>) 15:20-15:30 Effectiveness of plant-based edible wax on suppressing potato tuber sprout growth during ambient storage (<i>Juliet Manamela, Univ. of Limpopo, South Africa</i>)
15:30-16:30	Session 13 Harvest and Post-harvest Technologies in Horticulture	Conveners: <ul style="list-style-type: none"> Zora Singh (ECU, Australia) Patrick Kumah (KNUST, Ghana) 	15:30-15:40 Effects of postharvest calcium chloride dips and dipping duration on the improvement of 'Classic round' tomato (<i>Solanum lycopersicum</i>) fruit quality attributes and shelf-life (<i>Nhlanhla Mathaba, University of Limpopo, South Africa</i>) 15:40-15:50 Comparative study of two cold plasma-activated alginate coatings against <i>Penicillium expansum</i> on 'Packham's triumph' pear fruit during storage (<i>Zinash Belay, ARC Stellenbosch, South Africa</i>) 15:50-16:00 Storage practices and farmer perceptions of on-farm sweet potato postharvest losses in central and northwestern Zambia (<i>Kalenga Banda, University of Zambia, Zambia</i>) 16:00-16:10 Postharvest tuber greening disorder susceptibility of two potato cultivars commonly grown in South Africa (<i>Thabisco Satekge, Univ. of Limpopo, South Africa</i>) 16:10-16:20 <i>Helichrysum patulum</i> for post-harvest management of <i>Botrytis cinerea</i> on nectarine (<i>Prunus persica</i> L. Bath) fruits (<i>Zinash Belay, Stellenbosch Univ., South Africa</i>) 16:20-16:30 Variability in mineral composition of pulp of ripe jackfruit genotypes grown in Tropical Australia (<i>Jashanpreet Kaur, Edith Cowan University, Australia</i>)
16:30-17:00	Refreshment Break and Poster session		
17:00-18:00	Session 14 Harvest and Post-harvest Technologies in Horticulture	Conveners: <ul style="list-style-type: none"> Zora Singh (ECU, Australia) Patrick Kumah (KNUST, Ghana) 	17:00-17:10 The effect of production site on sugar content in potato tubers during postharvest storage: acrylamide forming factor (<i>Tieho Paulus Mafeo, University of Limpopo, South Africa</i>) 17:10-17:20 Extending the shelf-life of Indigenous Vegetables in Ghana - Case of Cocoyam Leaves (<i>Gloria Essilfie, Department of Crop Science, University of Ghana, Ghana</i>) 17:20-17:30 The effects of combined hot-air, microwave and infrared sweet potato drying on colour and -carotene content (<i>Khuthadzo Mugodo, University of KwaZulu-Natal, South Africa</i>) 17:30-17:40 Agronomic performance of tomato entries for their yield and fruit quality attributes in Mauritius (<i>Saraye Banumaty, Food Agricultural Research Extension Institute, Mauritius</i>) 17:40-17:50 Rescuing a chilli pepper to improve local economies and strengthen social capital in Northern Peru (<i>Roberto Ugás, Universidad Nacional Agraria La Molina, Peru</i>)
18:00-18:45	ISHS Business Meeting Young Minds Award Vote AAHC 2028	Conveners: <ul style="list-style-type: none"> François Laurens (ISHS President) Moctar Fall (African chair of ISHS Board) Lukas Bertchinger (ISHS Board) Remi Kahane (DDEV-ISHS) 	Plenary Session ISHS strategic orientations and projects, ISHS corporate membership and partnerships, Young Minds and Publications Presentations of candidatures for the AAHC2028 and vote of participants
18:45-19:00	AAHC 2024 Concluding Remarks Announcement of the field visit, and Post-congress Tours 1 and 2	President of AAHC2024 Prof. Dr Abdelhaq Hanafi	Introduction of the new AAHC2028 President
19:00-20:00	Transfer of participants to the farewell dinner site in Marrakech		
21:00-22:30	Farewell Dinner	Hotel in Marrakech	UM6P



CONGRESS FIELD VISITS

Field visit	Thursday 29 February	Topics and sites	
Full day visit	Conveners: <ul style="list-style-type: none"> Mohamed El Gharous (UM6P, Morocco) Redouane Choukrallah (UM6P, Morocco) 	Departure from Shuttle Bus Collection at 8:00 AM Visit of horticultural farms in the Marrakech area (olives, citrus and other fruit trees, greenhouse production) Lunch Box provided. Free afternoon to visit Marrakech.	UM6P

CONGRESS TOURS



Participants can only apply for one of the two post-congress tours (1 or 2). More details are available on the website <https://www.aahc2024.com/congress-tours>

Post-congress Tour 1	01-02 March	Sites	Fees
	Transfer by bus from Marrakech to Agadir Night in Agadir Return to Marrakech on 02 March (departure of participants)	Departure from Marrakech 7:30 AM to Agadir Visit Farms in Souss Massa <ul style="list-style-type: none"> Greenhouse soil and soilless crops Vegetable Nursery Packing houses Brown Bag Lunch Night in Agadir at Hotel Almougar	Additional registration fee: 100-120 €/person
Post-congress Tour 2	01-07 March	Sites	Fees
	Itinerary available on the congress website	Mountain horticulture and touristic sites	Additional registration fee: 500-600 €/person





POSTERS



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	Titles	Authors
1	Experimental assessment of irrigation efficiency over the dominant (flood and drip) irrigated crops in the Haouz plain, center of Morocco	Saïd Khabba ; Salah Er-Raki; Jamal Ezzahar; Olivier Merlin; Mohamed Hakim Kharrou; Abdelghani Chehbouni
2	Impact of alkaline electrolyzed water treatments at higher concentration on the development physiological disorder and microbial load reduction on 'Granny Smith' apples	Oluwafemi James Caleb ; Nandi E. Nyamende; Zinash Belay
3	Growth and fruit characteristics of watermelon by soil bed type to reduce soil salt stress in greenhouses	Kyuhoi Lee ; Yumin Jeon; Soyeon Lee; Gyeongjin Jun, Geonsig Yun; Eunhye Kim; Guemjae Chung; Cheolku Youn; Ju-Hyoung Kim
4	Changes in gas exchange and photosynthetic pigments of 'Rosy Glow' apple trees on different rootstocks in response to water deficit	Lindsay Muchena ; Sebinasi Dzikiti; Elmi Lötze; Stephanie Midgley
6	Pre-export handling activities and exporters knowledge on yam rot in white yam (<i>Dioscorea rotundata</i> Poir.)	Patrick Kumah ; Samuel Owusu Ampofo; Irene Akua Idun
7	Effect of sucrose and calcium chloride pulsing on early season 'Hass' avocado fruit exocarp chilling injury and colour change during storage and ripening	Nhlanhla Mathaba ; Dipuo Rebecca Chuene; Paulus Mafeo
8	Global pumpkin breeding program of the World Vegetable Center and its applicability to the African horticulture	Narinder Dhillon
9	Fermentation durations of <i>Tithonia diversifolia</i> liquid fertilizer influences growth and leaf yield of <i>Corchorus olitorius</i> L.: An experimental evidence	Paul Kweku Tandoh ; Irene Akuah Idun; Patrick Kumah; Amoako Obed Okanta; Emmanuel Kwame Kyeretwie
10	Interactive effect of deficit irrigation and iron supply on physiological and agronomic parameters of soybean grown in calcareous soils and under arid climate conditions.	Bouthayna El Amine , Abdallah Oukarroum;, Ahmed Bouaziz, Lhoussaine Moughli, Abdelhadi Ait Houssa and Fatema Mosseddaq.
11	Effect of intercropping (alfalfa-papaya) on fruit production: A case study in Sandiara (groundnut basin, Senegal)	Karamoko Diarra ; Serigne Sylla; Ngagne Demba Sène; Baba Diarra; Babacar Labou; Mamadou Diatte; Etienne Tendeng; Issa Alé Ndiaye; Oumar Seydi; Amadou Balde; Pape Diop; Serigne Omar Sène
12	Optimizing Ghaf Seed Germination with ZnO Nanoparticle Treatment Using Taguchi Orthogonal Array	Zienab Ahmed ; Dali Francisa; Bashayer Alhebsi
13	Aloe vera/Chitosan-based edible film with enhanced antioxidants, thermal, and barrier properties for sustainable food preservation	Zienab Ahmed ; Navjot Kaur; Chandran Somasundram; Zuliana Binti Razali
14	Impacts of insecticides use on entomological biodiversity in market gardening and proposals for agroecological alternatives in the Niayes area in Senegal	Etienne Tendeng ; Babacar Labou; Mamadou Diatte; Elhadji Serigne Sylla; Amadou Balde; Issa Alé Ndiaye; Oumar Seydi; Pape Diop; Serigne Omar Sène; Karamoko Diarra
15	Isolation and characterization of <i>Ralstonia solanacearum</i> species complex transmitted by tomato seeds in Burkina Faso	Péninna Deberdt ; Issouf Sanga; Schémaéza Bonzi; Oumarou Traore; Issa Wonni; Djibril Aboubakar Souna
16	Frontier agriculture systems in the Mediterranean Region: current status and future opportunities	Elisa Appolloni ; Giuseppina Pennisi; Vito Aurelio Cerasola; Francesco Orsini; Gertrud Buchenrieder; Wubneshe Biru
17	Sensitivity of three potato varieties to insect pests in the Cayar area (Senegal)	Pape Diop ; Elhadji Sérigne Sylla; Etienne Tendeng; Babacar Labou; Mamadou Diatte; Amadou Balde; Oumar Seydi; Sérigne Omar Sène; Issa Alé Ndiaye
18	Effects of Flower Bud Pruning on Jicama (<i>Pachyrhizus erosus</i>) Production in the Caribbean	Thomas W. Zimmerman ; Samuel Joseph
19	"MIDNITE": Combining Caribbean and African Hibiscus sabdariffa	Thomas W. Zimmerman
20	Impact of sprout inhibitor treatments on gene expression and stress responses of endo-dormant potato tubers	Munever Dogramaci ; Dipayan Sarkar
21	Release of new varieties of Blackberries (<i>Rubus</i> spp.) of the Chapingo University in Mexico with disease tolerance	Sergio Segura ; Geremías Rodríguez; Regina Guerra; Oskar Segura; David Rodríguez; Angel Rebollar
22	Varieties of Blueberry (<i>Vaccinium</i> spp.) of the University Chapingo, Mexico with low chilling requirements	Sergio Segura ; Alfonso Muratalla; Oskar segura; José Urbina
23	Study of walnut morphology using computed tomography	Sergey Khokhlov ; Yury Plugatar; Nicolay Potrachov
24	Unraveling the role of APC/C complex subunits in tomato cv. Micro-tom	Perla de Oliveira ; Nubia Barbosa Eloy
25	A tropical crop, as Hungarian farmers' potential response to climate change - the sweetpotato	Norbert Somogyi ; Tamas Monostori; Adrienn Szarvas; Adam Bordé
26	Look into the future, breeding solutions for abiotic and biotic stresses in red pepper production	Norbert Somogyi ; Miklos Pek; Melinda Tar; Klara Marotine Toth; Zsuzsanna Taborosine Abraham
27	An efficient in vitro Moroccan saffron cormlet (<i>crocus sativus</i> L.) production by direct organogenesis in saffron	Soumaya El Merzougui ; Mohamed Lachheb; Imane Boudadi; Khadija Lachguer; Khalid Lagram; Rachida El Boulan; Mohammed Amine Serghini

28	Postharvest Application of Generally Recognized as Safe (GRAS) Salts and Fungicides for Managing Alternaria Diseases in Citrus Fruit	Lamyaa Zelmaz ; Meriem Hamrani; Zineb Abbad; Mohammed Ibriz; Mohammed El Guili
29	Effectiveness of the ANECO as a new disinfectant in packinghouse against the main Citrus post-harvest pathogens	M. Hamrani ; Z. Baiz; A. Samedi; D. Lacoboni; M. El Guilli
30	Exploring Sustainable Nematicidal Alternatives: Efficacy of Actinobacterial and Plant Extracts Against Root Knot Nematodes	Latifa AZLAY ; Ez-zahra OUBASSOU; Karima BOUYAGHSSANE; El Hassan MAYAD; Mustapha BARAKATE
31	Euphorbia honey: a comprehensive compile of its traditional use, quality parameters, authenticity, adulteration, and therapeutic merits	Nihad Sahri ; Asmae Alaoui; Elhassania Elherradi; Mona F. Mahmoud; Driss Louaradi; Mansor sobeh
32	Some traits and facts of vegetable production in RADHORT Countries of Africa	C. Kittas , W. Baudoin, E-Kitta, A. Hanafi and P.A. Seck
33	Evaluation of the varietal resistance and biopesticides against Amrasca biguttula (Ishida) (Hemiptera: Cicadellidae) in Okra production in Burkina Faso	Djibril Aboubakar Souma ; Edouard Drabo; Apolline Sanou; Aboubacar Boly; Antoine Waongo; Fousséni Traoré; Thibaud Martin; Fabrice Le Bellec
34	Impact of alfalfa-tomato association on tomato agronomic parameters in Senegal	Karamoko Diarra ; Serigne Sylla; Mouhamed Bachir Touré; Baba Diarra; Babacar Labou; Mamadou Diatte; Etienne Tendeng; Issa Alé Ndiaye; Oumar Seydi; Amadou Balde; Pape Diop; Serigne Omar Sène
35	The role of the groundnut-fodder grass association in the natural control of fall armyworm in maize crops in Senegal	Amadou Balde ; Jacques Fada Sambou; Babacar Labou; Etienne Tendeng; Elhadji Serigne Sylla; Mamadou Diatte; Issa Ale Ndiaye; Oumar Seydi; Pape Diop; Serigne Omar Sene; Karamoko Diarra
36	Application of lavender and rosemary essential oils and their main component on the preservation of cucumber fruit	Nikolaos Tzortzakis ; Panayiota Xylia; Christos Goumenos; . Antonios Chrysargyris
37	Cypriot oregano essential oil and hydrosol as promising agents for the preservation of fresh basil	Nikolaos Tzortzakis ; Panayiota Xylia; Antonios Chrysargyris
38	Influence of low-pressure cold plasma and cultivar differences on the storability of fresh mango fruit	Oluwafemi James Caleb ; Ms. Loriane A. Yanco; Zinash Belay; Gunnar Sigge
39	Using Sentinel-2 time-series for land-use and evapotranspiration mapping in semi-arid Mediterranean areas: Tensift catchment, Morocco	Youssef Hajhouji
40	Fertilisation organominérale pour une productivité de la grande morelle dans les périmètres maraichers du Sud et du Nord Bénin	Faki Chabi ; Lafia Kifayath; Victoire Ahle; Brice Oussou; Gustave Dagbénonbakin; Aliou Saidou
41	Valorization of aquaculture effluent as fertilizer for production of zucchini (Cucurbita pepo L.) in Burkina Faso	Rokyatou SISSAO ; Adèle R. OUEDRAOGO; Moussa ZABA; Aboubacar SOURABIE; Saidou SANTI; Alain HEMA; Vianney W. TARPAGA; Aboubacar TOGUYENI
42	Nesidiocoris tenuis in Burkina Faso: distribution, predatory capacity and susceptibility to insecticides	Sawadogo, M. W. ; Mano, E.; Ahissou, B. R.; Somda, I.; Nacro, S.; Legréve, A.; Verheggen, F. J.
43	Effet du compost à base des déchets issus de l'industrie de la mangue associé à deux formulations de biostimulants à base d'extraits de Moringa (Moringa oleifera) et de pois d'angole (Cajanus cajan) sur la croissance et le rendement de la courgette (Cucurbita pepo L.) au Burkina Faso.	Ouédraogo Rayagnéwendé. Adèle ; Savadogo Pauline; Kambiré Fabèkouré Cédric; Barro Gnissen Bamissa, Sanou Honoré, Savadogo Idrissa
44	Effect of eggplant/basil association on the major pests of eggplant under Sudan-Sahelian conditions in Mali	ALI OUTANI Bibata ; COULIBALY K Amadou
45	the semi-autotropic hydroponic (in-potting), an alternative to tissue culture, as a method of propagating root and tuber plants; case of potato, cassava and sweet potato	Ali Koura Abdoulaye
46	Paving a sustainable road for multi stakeholder territorial platforms in the garden sectors in Côte d'Ivoire)	Euphrasie Angbo-Kouakou
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48	Potential of C-Band Radar and Infrared Thermal Data for Monitoring Maize Water Status in a Semi-Arid Region	Abdelhafid El Allaoui ; Saïd Khabba; Pierre-Louis Frison; Lionel Jarlan
49	Impact of Climate-Smart and water saving Frontier Agriculture on the WEFE Nexus in Arid Mediterranean Regions	Boucgra darkaoui ,
50	Beldi/Ruomi: A Maghreb Heritage for the use of genetic resources in horticulture)	(Sergio Segura ,
51	Comparison of biochemical indicators for drought stress response in Solanum aethiopicum Shum	Godfrey Sseremba ; Mildred Nakanwagi; ; Agnes Nandutu; Pamela Kabod; Ambrose Mukisa; Elizabeth Kizito
52	Recovery response of three contrasting genotypes suggests a “pre-defense” mechanism for highly drought tolerant genotype in Solanum aethiopicum Shum group	Godfrey Sseremba ; Pangirayi Tongoona; John Savior Yaw Eleblu; Eric Yirenkyi Danquah; Elizabeth Kizito
53	Cell culture induction in three mulberry (Morus alba L.) cultivars	Alvaro Gil-Martínez
54	A polyphenol from Morus alba encapsulated in cyclodextrins to fortify milk and juice food models.	Francisco José Vidal-Sánchez
55	Postharvest Horticulture: Global Food and Nutritional Security	Zora Singh
56	Fertilizers used in tomato production in West Africa	Fatoumata Touré
57	Farmer perception of Genetically Modified (GM) Maize, its metabolomic analysis and preference by cattle	Joseph Payne
58	A Paradigm Shift Approach to Locally-Led Horticulture Development for Increased Resiliency And Food Security	Erin McGuire
59	Potential use of plant stress-hormones to improve essential oil biosynthesis of simulated hail-damaged rose geranium (Pelargonium graveolens L'Hér. cv. 'Bourbon')	Zenzile Peter Khetsha