

Messaoud MARS

Research Unit on Agro-biodiversity (UR13AGR05), Department of Horticultural Sciences,
Higher Agronomic Institute, 4042 Chott-Mariem (Sousse), Tunisia.

Tel: + 216 73 327 543 / (mobile: + 216 98 280 572)

Fax: + 216 73 327 070

e-mail: mb.mars@yahoo.fr

First name: Messaoud

Surname: MARS

Date of birth: 08 - 11 - 1959

at: Bengardane (Tunisia)

Nationality: Tunisian

Civil status: Married (02 children)

LANGUAGES

- **Arabic:** Fluent - **French:** Fluent

- **English:** Fluent - **Spanish:** Fluent

SPECIALIZATION

- Plant Science, Pomology (Fruit Production & Breeding)

- Biodiversity, Plant Biotechnology

EDUCATION & DIPLOMA

- "Baccalauréat Maths-Sciences" (**Baccalaureate**), 1978

Technical Secondary School - Médenine (Tunisia)

- "Diplôme d'Ingénieur Agronome" (**Agricultural Engineer**, Plant Production), 1982

National Agronomic Institute - INAT - Tunis (Tunisia)

- "Diplôme de Spécialisation Post-Universitaire" (**Postgraduate Diploma**), 1983

Mediterranean Agronomic Institute - IAMZ/CIHEAM - Zaragoza (Spain)

- "**Master of Science**" (Plant Breeding and Seed Production), 1984

Mediterranean Agronomic Institute - IAMZ/CIHEAM - Zaragoza (Spain)

- "Attestation des Etudes Approfondies" (**Certificate of Advanced Studies** - Plant Ecology),
1986, Faculty of Sciences - Tunis (Tunisia)

- "**Doctorat d'Etat Es Sciences Naturelles**", (**Ph.D**) 2001, Department of Biology, Faculty
of Sciences, University Tunis El Manar (Tunisia)

TRAINING & POSTGRADUATE SHORT COURSES

- Oct 1983: "**Fifth International Course on Citrus Industry**"

Agricultural Research Institute - IVIA - Valencia (Spain)

- Oct 1986: "**Regional Course on Plant Genetic Resources Management**"

Technical and Cultural Cooperation Agency - ACCT - Tunis (Tunisia)

- Jan 1992: "**Use of Molecular and Cellular Techniques in Plant Breeding**"

Advanced course - IAMZ / CIHEAM - Zaragoza (Spain)

- April 1993: "**Ecole Doctorale de Biochimie et de Biologie Moléculaire**"

Training Course - Horticultural High School - Chott-Mariem (Tunisia)

- June 1997: "**Fig Production**"

Advanced course - Fac. of Agriculture, Ege Univ., Izmir (Turkey)

- November 1998: "**Basic Mutation and *in vitro* culture Techniques for Plant Breeding**"

Training Course - ARC Roodeplat, Pretoria (South Africa)

PROFESSIONAL EXPERIENCE

- Dec. 1985 - Feb. 1990: "**Research-Assistant**", Department of Horticultural Sciences, College of Horticulture (ESH), Chott-Mariem, Sousse - Tunisia.
- Feb. 1990 - Apr. 1994: "**Assistant Professor**", Department of Horticultural Sciences, College of Horticulture (ESH), Chott-Mariem, Sousse - Tunisia.
- August 1994 to Aug. 2001: Assistant Professor, **Arid Land Institute** (IRA), Médenine-Tunisia.
- March 2004 – September 2014: "**Associate Professor**" « Plant Science and Environment », Department of Horticultural Sciences and Landscape Management, High Agronomic Institute (ISA) Chott-Mariem, Sousse - Tunisia.
- September 2014: "**Professor**" (**Full**) « Plant Science and Environment », Department of Horticultural Sciences and Landscape Management, High Agronomic Institute (ISA) Chott-Mariem, Sousse - Tunisia.
 - Jan. 1996 to Aug. 2001: **Head of the Department** of "Agronomy", Arid land Institute (IRA Médenine).
 - 1997-1999: **coordinator** of the "**Regional Pole of Agricultural Research and Development**" in South-East Tunisia (PRRD-SE)

- March 2011 to date: **Director General** of the **Regional Research Centre on Horticulture and Organic Agriculture** (CRRHAB), Chott-Mariem, Sousse, Tunisia.

ACADEMIC ACTIVITIES

- **Theoretical and practical** courses:
 - Pomology
 - Fruit Trees Nurseries
 - Biodiversity
 - Dry Farming & Oases
 - Organic Fruit Production
 - Fruit Quality Management
 - **Invited lecturer** in post-graduate short courses
 - Pontevedra, Spain, September 15 to October 1, 1993
 - Med-Campus, IRA Médenine-Kébili (Tunisia), April 18 to 30, 1995
 - TCTP, Tunis (Tunisia), February 3 to March 1, 2003

- **Supervision of students:**
 - Field excursions to arid and semi-arid zones in south Tunisia
 - Engineer Research Projects (PFE): **54**
 - Technician Projects (SFE-PPFE): **14**
 - Master of Science (Biological and Agricultural Sciences): **08**
 - PhD Thesis (Biological and Agricultural Sciences): **10**, (ongoing: **09**)

- **Evaluation of dissertations:**
 - Master of Science (Biological and Agricultural Sciences): **31**
 - PhD Thesis (Biological and Agricultural Sciences): **16**

- 1991-1993, 2003-2006 & 2009-2011: member of the **Scientific Board** of I.S.A Chott-Mariem

- 2006-2010: member of the commission de recruitment of Assistant Professors « Plant Science & Environment », IRESA.
- 2006 to date: **coordinator** of the **scientific commission of Master and Thesis** « Agricultural Sciences – **Sustainable Agriculture** », ISA Chott-Mariem IRESA-University of Sousse.
- 2013 to date: member of the **scientific committee of Thesis program LMD** « Agricultural Sciences & Environment », ISA Chott-Mariem IRESA-University of Sousse.

RESEARCH ACTIVITIES

- **Research** on Fruit Genetic Resources, Floral Biology, Fruit Breeding, Fruit Trees Sanitation and Propagation
 - 1991-1994: responsible of the **Laboratory of Pomology** at ESH Chott-Mariem
 - 2000: participation in the establishment of the **Laoratory of “Dry Farming and oasis Cultivation”** at IRA Medenine
 - Aug. 2000: **Expeditions to “La Galite” and “Kerkenah” islands** (Prospection and evaluation of local fruit genetic resources), *Life* Project (AAO – MEAT – EEC).
 - Oct. 2000: **Expedition to Turkmenistan** (Prospection and evaluation of pomegranate genetic resources), **IPGRI - CWANA**.
 - 1992-1994: member of the National Commission for Research Programs on Fruit Crops (IRESA)
- 2003 to date: Coordinator of **Research Unit on Agro-biodiversity** (UR13AGR05) financed by the ministry of Higher Education & Scientific Research, with two research lines:
 - **Agro-ecosystems Biodiversity interactions and evolution** (cultivated plants, weeds, pollinators, micro-organisms)
 - Issues for **biodiversity uses**
- **R-D Projects and Networks**
 - 1995-1996: "Improvement of agricultural production in rain fed areas and oases in south Tunisia", (P95BIRD09), National Project (PNM) financed by SERST at IRA.
 - Since 1995: Member of "CIHEAM - Cooperative Working Group on Underutilized Fruit Crops", Coordinator of sub-group "Pomegranate"
 - 1995: Member of MESFIN "FAO - Mediterranean Selected Fruits Inter-country Network", Coordinator of sub-group "Pomegranate"
 - 1996-2000: "Germplasm for Arid Lands", Regional Project BM-ICARDA.
 - 1999-2000: "Enhancement of pomegranate botanical garden at Gabès", MEAT-AVFA- IRA.
 - 1998-2001: "Conservation and use of cultivated plant genetic resources in arid zones", National project IRA03-P1, IRA-SERST.
 - 2001-2002: "Conservation et rehabilitation of plant genetic resources at Douiret", PNUD-FEM-ASNAPED-IRA.
 - 2001-2003: "Improvement of fig cultivation at Dhahar zone in south Tunisia", R-D Project ASNAPED-CERAI (Spain).
 - 2001-2003: "Promoting best practices for conservation and sustainable use of biodiversity of global significance in arid & semi-arid zones", Regional project PNUD-FEM-TWAS-TWNSO.
 - 2002-2004: "Biological diversity, cultural and economic value of medicinal, herbal and aromatic plants in southern Tunisia", IRA-USDA-ICARDA.

- 2003: "Analysis of sanitary status of fig germplasm collections in Tunisia and Spain", Spanish-Tunisian Joint project (34/03/P).
- 2004: "Comparative study of genetic diversity and reproductive biology of local pear", Spanish-Tunisian Joint project (07/04/P).
- 2004: "Study of genetic diversity and new use development for local pomegranate – 07/04/P ", Spanish-Tunisian Joint project (A433/05).
- 2005: "Fig Mosaic Disease in Tunisia and Spain", Spanish-Tunisian Joint project (A433/05), scientific and technical cooperation ().
- 2007: "Genetic diversity and floral biology of local pear in Tunisia", Spanish-Tunisian Joint project (A/011142/07).
- 2009: "Bioactive polyphenols from Pomegranate fruit: purification and identification of the main compounds; Use of their protective properties against oxidative and heat stress", Portugal-Tunisia Joint project.
- 2011: "Genetic and proteomic analysis in relation to sex determination and responses to abiotic stress at fig tree (*Ficus carica* L.) ", French-Tunisian CMCU Joint project.
- 2010-2012: "Pomegranate (*Punica granatum* L.) germplasm in Tunisia and Morocco: characterization and molecular typing for biodiversity preservation ", Tunisia-Morocco CMPTM Joint project.
- 2013-2016: "Promotion of Tunisian pomegranates via the development of a label « Pomegranates of Gabès » ", Research project financed by IRESA-DGPA, Ministry of Agriculture (Tunisia) and AFD (France).
- 2013-2015: "Propagation, conservation and evaluation of sensitivity/tolerance to fire blight of local pear rootstocks and varieties", Research project financed by IRESA-DGPA, Ministry of Agriculture (Tunisia)
- 2015-2016: "Capacity building on molecular breeding for the development of south-south cooperation model", multilateral project financed in the framework of Korea Africa Food and Agriculture Cooperation Initiative (KAFACI), Tunisian Focal Point.

- **Collaboration** in different research activities on « Use of genetic resources of medicinal, aromatic and ornamental plants »
- 2008 - 2010: Member of the scientific committee of **UTAP - ODESYANO - MFFEPA** project « Capacity building of small farmers in the use of local products ‘Djebba Figs’ »
- 2008 - 2010: Member of the scientific committee of **AAESH - FEM - PNUD** project « Awareness about conservation of plant genetic resources for climatic change mitigation » (Sousse - Monastir)
- 2008 to date: Evaluation of submitted research projects (DGRST, Ministry of Higher Education & Scientific Research) and Research Units (CNEAR)
- 2012 to date: coordinator of the National Commission of Research Planning and evaluation on Fruit Crops, IRESA, Ministry of Agriculture
- 2013 to date: member of the **Scientific Board** of CBBC (Biotechnology Research Centre - Borj Cedria)
- 2013 to date: member of the **Scientific Board** of Olive Institute (Sfax).
- April 07-12, 2015: Mission in Hungary « Prospection of Tunisian-Hungarian cooperation in agricultural research and higher education », NARIC (Hungary)-IRESA (Tunisia).

ATTENDED WORKSHOPS & SEMINARS

- International Scientific Meetings: **54**
- National Scientific Meetings: **25**
- National Development Workshops: **12**

OTHER ACTIVITIES

- Organization of **Training sessions** for technicians of CRDAs & Development Agencies and young farmers:
 - 1988: Pruning of fruit trees (INSPPSA Sidi Thabet)
 - 1989 & 1990: Citrus pruning (INSPPSA Sidi Thabet)
 - 1990: Implementation and monitoring of fruit plantations (CFRA Chott-Mariem)
 - 1993: Fruit thinning (CFRA Chott-Mariem)
 - 1999: Fruit trees training and pruning (CRDA Tataouine)
- February 17, 2009: "Citrus pruning", CTA (Centre Technique des Agrumes), Grombalia.
- February 19-21, 2009: Training session on « Fig cultivation » for technicians of ODESYANO, CRDA Béja and UTAP, organized at Thibar-Djebba.
- July 8-17, 2009: Training session on « Training and Pruning of fruit trees » for teachers of Bouchrik Agricultural School, AVFA-CENAFIF, Bouchrik.
- Participation in “Supervision and extension program” for farmers in irrigated areas (PPI) at Kairouan, Sidi Bouzid and Kasserine.
- Participation to the implementation of the **National Gene Bank (Tunisia)**
- Participation to **NGO activities** related to environment and biodiversity management:
 - AJZ: Association des Jeunes de Zammour, Beni Kheddache (Tunisia)
 - ASNAPEP: Association de Sauvegarde de la Nature et de Protection de l’Environnement à Douiret, Tataouine (Tunisia)
 - ASOC: Association de Sauvegarde de l’Oasis de Chenini, Gabès (Tunisia)
 - ADD: Association de Développement Durable, Médenine (Tunisia)
 - ATUTAX: Association Tunisienne de Taxonomie (Tunisia)
 - ATAD: Association Tunisienne pour une Agriculture Durable (Tunisia)
 - ISOFAR: International Society of agricultural Research (Germany)
- Participation to **radio and TV emissions** on biodiversity and Agriculture in arid zones (National TV (*Al Mindhar*)- 1994, Radio Tataouine – 1997, Austrian TV ORF (*Modern Times*) -2001, Radio Monastir (*Nabdh Al Hakl*) – 2002, National TV (*Masalek Al Maarifa*) - 2006)
- 2002 to date: member of the National Commission on Fruit Crops (Fruit varieties registration and protection), Ministry of Agriculture, Tunisia.
- 2012 to date: Member of the « **National Commission of Organic Agriculture** », Ministry of Agriculture, Tunisia.

PUBLICATIONS & PRESENTATIONS

- 1- Dissertations, Thesis: **05**
- 2- Scientific papers (International Scientific Journals): **71**
- 3- Scientific papers (National Scientific Journals): **14**
- 4- Scientific papers (Special Issues of Scientific Journals): **24**
- 5- Scientific papers (Proceedings of Scientific Meetings): **11**

- 6- Scientific papers (Chapters in books): **01**
- 7- Final Reports of R-D projects: **06**
- 8- Technical Documents: **08**
- 9- Scientific expertise (consultancy) reports for R-D projects: **04**

- 1996-2011: Member of the editorial board of the "*Revue des Régions Arides*" edited by Arid Land Institute (IRA) - Tunisia.
- 2004-2011: Member of the editorial board of the "*Ezzaitouna*" edited by Olive Tree Institute (IO) - Tunisia.

• Referee for "*Annales de l'INRAT*", "*Plant Genetic Resources Newsletter*", "*HortScience*", "*Jordanian Journal of Agricultural Science*", "*Journal of the American Society of Horticultural Science*", "*Revue de l'INAT*", "*Scientia Horticulturae*", "*Journal of Food Quality*", "*Fruit, Vegetable and Cereal Science and Biotechnology*", "*LWT-Food Science and Technology*", "*Australian Journal of Crop Science*" ...

ATTENDED SCIENTIFIC WORKSHOPS & MEETINGS (details)

International Scientific Meetings: 54

- May 10-12, 1983: "Problems of Plant Genetic Resources and New Varieties, Impact on Agriculture", International Seminar, AIDA, Zaragoza (**Spain**).
- Nov. 2-4, 1988: "Second International Meeting on Mediterranean Tree Crops", Subtropical Plants and Olive Tree Institute, Chania, Crete (**Greece**). (***Oral presentation***)
- May 8-10, 1990: "Fruit Tree Rootstocks, Present Status & Future Prospects", International Seminar, AIDA, Zaragoza (**Spain**).
- July 2-3, 1991: "Fruit Trees Viruses, Diagnosis and Plant Material Sanitation", ATA-IAMZ (Association Tunisienne des Anciens de l'IAMZ), Tunis (Tunisia). (***Member of the organizing committee***)
- Nov; 18-19, 1992: "Ovine Livestock in Arid & Semi-arid Regions", ATA-IAMZ & OEP, Kairouan (Tunisia). (***Member of the organizing committee***)
- Dec. 2-3, 1993: "Agriculture, Sustainability & Environment", ATA-IAMZ, Ministry of Agriculture & IAMZ, Tunis (Tunisia).
- May 10-12, 1994: "Plant Propagation, New Techniques and Current Problems", International Seminar, AIDA, Zaragoza (**Spain**). (***Oral presentation***)
- Nov. 7-8, 1994: "Second MESFIN (Mediterranean Selected Fruits Inter-country Network) Meeting", FAO/CIHEAM/INIA/CITA, Zaragoza (**Spain**).
- Nov. 9-10, 1994: "First Meeting of the CIHEAM Cooperative Working Group on Underutilized Fruit Crops", CIHEAM-IAMZ, Zaragoza (**Spain**). (***Member of the organizing committee, Oral presentation***)
- Oct. 2-5, 1995: "First MESFIN Meeting on Plant Genetic Resources" Organized by FAO/INIA/CITA, Tenerife (**Spain**). (***Oral presentation***)
- June 6-9, 1996: "Second Mediterranean Congress on Domestic Biodiversity and Popular Knowledge", REMERGE (Réseau Méditerranéen des Ressources Génétiques) & AAB (Association des Amis du Belvédère), Carthage (**Tunisia**). (***Oral presentation***)
- June 14-16, 1996: Regional Workshop on "Germplasm for Arid Lands", Multilateral Working Group on the Environment, Initiative to Combat Desertification in the Middle East, Cairo (**Egypt**). (***Oral presentation***)
- October 3-4, 1996: International Workshop "Biodiversity in the Mediterranean Basin", REMERGE & AED, Arles, **France**.
- December 5-6, 1996: International Meeting "Scientific Research and Sustainable Development of Arid Zones" organized by SERST - IRA, Jerba (**Tunisia**). (***Member of the organizing committee, Oral presentation***)
- June 24-28, 1997: First International Symposium on Fig, ISHS, EUFA, CIHEAM, TARS and TSHS, Izmir (**Turkey**). (***Oral presentation***)
- October 15-17, 1998: First International Symposium on Pomegranate, EPS-Univ. M.H. and CIHEAM, Orihuela (**Spain**). (***Member of the Scientific Committee, Oral presentation***)
- March 13-18, 1999 : International Workshop on Strategies and technologies for Conservation and Sustainable Use of Biodiversity in Large Asian and North African landscapes, Ministry of Agriculture & Land Reclamation, ICARDA, IPGRI, CEDARE and FAO, Marsa Matrouh, **Egypt**. (***Poster presentation***)
- June 10-12, 1999 : Third general meeting of MESFIN, FAO, Cukurova Univ. - Fac. Agr., Adana, **Turkey**. (***Oral presentation***)
- October 23-24, 1999: Second Tunisian Interdisciplinary Workshop on Science and Technology (TIWSS'99), University of Electro-Communication, Tokyo, **Japan**. (***Oral presentation***)

- March 6 - 8, 2000: Regional Expert Meeting on Pomegranate, IPGRI-CWANA & IRA, Médenine, **Tunisia**. (*Organizer*)
- March 26 - 29, 2000: International Conference on the Conservation of Biodiversity in the Arid Regions, EPA, **Kuwait**. (*Poster presentation*)
- April 25 - 27, 2000: TJASST'2000: Tunisian Japanese Seminar on Science and Technology, Tunis - **Tunisia**. (*Oral presentation*)
- May 15 - 17, 2000: Second Arab Conference on Scientific Research and Conservation of Biodiversity, ASRIC - SERST, Médenine - **Tunisia**. (*Oral presentation*)
- April 4 - 6, 2001: First International Meeting of the Project "Promoting Best Practices for Conservation, Management & Sustainable Use of Biodiversity of Global Significance in Arid and Semi-Arid Zones", TWNSO - TWAS, Trieste - **Italy**.
- May 2 - 4, 2001: II Tunisian Japanese Seminar on Science and Technology (TJASST'2001), Tunis - **Tunisia**. (*Member of the organizing committee*)
- May 7 - 11, 2001: Second International Symposium on Fig, CIHEAM, ISHS and SECH, Caceres (**Spain**). (*Member of the Scientific Committee, Oral presentation*)
- April 21 – 24, 2002: Second International Meeting of the Project "Promoting Best Practices for Conservation, Management & Sustainable Use of Biodiversity of Global Significance in Arid and Semi-Arid Zones", TWNSO - TWAS, Muscat - **Oman**. (*Oral presentation*)
- September 13 – 15, 2002: Regional Symposium on Plant Biotechnology. ATSB, LGMIB & UNESCO, Hammamet (**Tunisia**).
- December 14–17, 2002: International Conference "Promoting Best Practices for Conservation and Sustainable Use of Biodiversity of Global Significance in Arid and Semi-Arid Zones", TWNSO - TWAS, DRC, Cairo - **Egypt**.
- August 27–30, 2003: International Conference "Implementing Programs to Conserve Biodiversity in Arid and Semi-Arid Regions in Developing Countries", TWNSO-GEF-UNEP, Rabat, **Morocco**. (*Oral presentation*)
- December 10-13, 2003: Third International Conference "Environment and identity in Mediterranean: Towards a sustainable Mediterranean ", University Tunis El Manar, University of Corsica and STSN, Hammamet – **Tunisia**. (*Session Chair*)
- June 1-3, 2004: International Conference "Promoting medicinal, herbal and aromatic plants in the Mediterranean basin", IRA-ICARDA-USDA, Médenine - **Tunisia**.
- November 22-25, 2004: International Conference "Dry farming and Oases", IRA-MESRST-GTZ-IPGRI-ICARDA, Jerba - **Tunisia**. (*Oral presentation*)
- April 18-21, 2005: International Conference "Promoting Community-driven Conservation and Sustainable Use of Dryland Agrobiodiversity", ICARDA-UNDP-GEF, Aleppo, **Syria** (*oral presentation*)
- May 16-20, 2005: III International Symposium on Fig, organised by Univ Algarve, ISHS, APH & CIHEAM, Vilamoura, **Portugal**. (*Member of the scientific committee, Oral presentation*)
- November 2-4, 2006: International Symposium " Medicinal, herbal and aromatic plants: Production and use", IRA-ENIG-ICARDA-USDA, Jerba, **Tunisia**. (*Member of the scientific committee*)
- May 22, 2007: First Workshop on Biotechnology for OVOP « One Village – One Product, From laboratory to industry », CBBC & Tsukuba University, Cité des Sciences de Tunis (**Tunisia**). (*02 Posters*)
- June 4-5, 2007: International Symposium "Tunisian ecosystems for future generations", MEDD, Tunis, **Tunisia**.
- October 29-30, 2007: Tunisia –Japan Symposium on Society, Science and Technology, 8th edition, TP-BC, Univ. Sousse, TAJ and ARENA-Univ. Tsukuba, Sousse – **Tunisia**, (*01 Poster, 01 Oral communication*).

- March 26-28, 2009: International Symposium on "Aromatic and Medicinal Plants: from Production to use", organized by IRA-ENIG-ICARDA-USDA, Jerba (**Tunisia**). (*Member of the Scientific Committee*)
- December 15-19, 2009 : International Symposium on Olive Tree « Olivebioteq 2009 », organized by IO-IRESA-COI-CIHEAM, Sfax, **Tunisia** (*Session chair*)
- February 12-14, 2010: International Workshop on Fig Tree, organized at Oujda (Morocco) by REMADEL, ADD (Tunisia) & AODD (**Morocco**). (*Plenary conference*)
- October 19-21, 2011: II International Symposium on Pomegranate, organized by EPS-Univ. Miguel Hernandez & CIHEAM, Madrid-Orihuela, **Spain**. (*Member of scientific committee and Chairman of the session of Plant Material, Plenary conference*)
- November 21-22, 2012: International Conference on « Impact of global change on Mediterranean forest resources », organized by INRGREF-BNG, Hammamet (**Tunisia**).
- April 15-16, 2013: First International Meeting « Date palm genetic resources: actual status, characterization and management challenge », organized by IRA Medenine, Jerba (**Tunisia**). (*Co-chair of the session 'Approaches of inventory and characterization'*)
- April 26-27, 2013: Second International Conference « Biodiversity and Food security », organized by Tunisian Association of Taxonomy (ATUTAX), Hammamet (**Tunisia**).
- May 14-16, 2013: International Symposium « Crop protection management in Mediterranean organic agriculture », organized by CTAB-ISOFAR-MOAN, Sousse (**Tunisia**). (*Member of the organizing committee*)
- November 27-28, 2013: International Symposium « Food security and sustainable development, challenges of agricultural research », organized by INRAT, Tunis (**Tunisia**).
- February 06-09, 2014: First Africa-International Allelopathy Congress, organised by ATAD-IAA-ISA- Univ. of Sousse, Sousse (Tunisia). (*Member of the scientific committee*)
- April 02-04, 2014: Planning Meeting on Horticulture Program, organised by KAFACI-DRA-INRAM, (Morocco). (*Oral presentation*)
- October 13-14, 2014: International Conference « Biotechnologies and socio-economic development in Tunisia », organised by Ministry of Industry, Tunis (**Tunisia**).
- October 31, 2014: « Maghreb-France Conference on agricultural research in Mediterranean region », organised by IRESA-INRAA-INRAM-INRAF-CIRAD, Tunis (**Tunisia**).
- April 29, 2015: Joint Symposium MHESR-JICA-JST on « Valorisation of research results in biotechnology and agriculture », Tunis (**Tunisia**).
- September 01-06, 2015: "V International Symposium on Fig", Univ. Naples, ISHS, Naples, **Italy**. (*Member of the Scientific Committee, Plenary Conference, Oral Communication*)

National Scientific Meetings: 25

- February 18-21, 1997: National Workshop on biological diversity, MEAT-GEF-PNUE, Tunis (Tunisia).
- November 28-29, 1997: National Workshop on Advances in Agronomic Research, IRESA/Min. Agr., Nabeul (Tunisia).
- December 6-7, 1999: VI National Workshop on Advances in Agronomic Research, IRESA/Min. Agr., Nabeul (Tunisia).
- March 20 - 23, 2000: 11° Journées Biologiques, ATSB, Hammamet - Tunisia.
- March 19 - 21, 2001: 12° Journées Biologiques, ATSB, Hammamet - Tunisia.

- May 6 – 7, 2002: Tunisia - France Seminar on Plant Genetic Resources, IRESA, Tunis.
- 20-23 march 2003: 14^o Journées Biologiques, ATSB, Hammamet – Tunisia.
- June 10-12, 2003: National workshop on medicinal and aromatic plants, IRA-ICARDA-USDA, Médenine. (**Reporter**)
- December 16-17, 2003: X National Workshop on Advances in Agronomic Research, IRESA/Min. Agr., Nabeul (Tunisia).
- February 15, 2005: First National Symposium on Cactus Pear, MRSTDC & CRDA Kasserine (Tunisia).
- March 13, 2007: Revising research priorities for fruit crops, National workshop, IRESA, ISA Chott-Mariem (Tunisia) (**Oral presentation**)
- May 18, 2007: Scientific Meeting on Pistachio and Almond, Olive Tree Institute & SMA Med Food 2007, Sfax (Tunisia). (**Session Chair**)
- November 19-20, 2007: National symposium on scientific research, MESRST, Tunis (Tunisia).
- February 27, 2008: National Forum on Genetic Resources, National Gene Bank, Tunis (Tunisia).
- November 3-4, 2008: First BNG (National Gene Bank) annual meeting, Tunis. (**Oral presentation**)
- January 27, 2009: National workshop on « Research Priorities for Citrus industry in Tunisia », CTA (Centre Technique des Agrumes), Hammamet (Tunisia).
- April 18, 2009: Regional workshop « Horticultural biodiversity and Sustainable development », organized by ISA, CRRHAB, CTAB and CSFPA, Sousse ((Tunisia). (**Oral presentation**)
- December 2-3, 2009: XVI National Workshop on Advances in Agronomic Research, IRESA/Min. Agr., Nabeul (Tunisia), (**Member of the Scientific Committee**)
- June 10, 2010: Symposium "Olive Tree and Water", organized at Sousse by Olive Institute (LAPOAF) in the framework of the Project ZEIN2006 PR326.
- December 16-17, 2010: XVII National Workshop on Advances in Agronomic Research, IRESA/Min. Agr., Nabeul (Tunisia), (**Member of the Scientific Committee**)
- April 20, 2013: Scientific day « Genetics, Biodiversity and use of Bio-resources », Institute of Biotechnology, University of Monastir. (**Conference**)
- May 17, 2013: Regional Workshop on « Revising agricultural research priorities for centre-east and North-east Tunisia », Chott-Mariem. (**Co-organizer, Oral communication**)
- April 22-21, 2015: First National Symposium on Integrated Plant Protection SYNPIP-2015, organized by CRRHAB-UR13AGR09-ATAD, Sousse. (**Coordinator of the organizing committee and Session chair**)
- May 11-12, 2015: NARP (National Agency for Research Promotion) Days: “Landscape of Research and Innovation in Tunisia, Actual status and prospects”, organized by ANPR-PASRI, Hammamet - Tunisia.
- October 27-28, 2015 : PASRI (Projet d’Appui au Système de Recherche et d’Innovation) Closing Symposium, organized by ANPR-PASRI-API-MESRS, Hammamet - Tunisia.

National Development Workshops: 12

- Feb. 6-7, 1990: "National Seminar on Fruit Production in Tunisia, Constraints & Development Prospects", Ministry of Agriculture, INSPPSA Sidi Thabet (Tunisia).
- Mar.12-14, 1996: "National Workshop on Conservation & Use of Plant Genetic Resources", Ministry of Agriculture, IRESA / FAO - INPPSA, Sidi Thabet (Tunisia).

- October 12, 1996: National Workshop "Improvement of Pomegranate cultivation in Tunisia", APIA, Gabès (Tunisia). (*Oral presentation*)
- June 6, 1999: National Workshop on Pomegranate, AVFA, Mareth (Tunisia) (*Oral presentation*)
- Feb. 16, 2000: National Workshop on Organic Agriculture, CTAB – IRA, Médenine – Tunisia.
- December 24, 2002: Workshop on establishment of National Gene Bank, Ministry of Agriculture, Environment and Water Resources, CITET, Tunis. (*Member of the organizing committee*)
- November 22, 2005: National workshop on Registration and Protection of Plant varieties, Ministry of Agriculture – DG/PCQPA, Sidi Thabet (Tunisia).
- November 23, 2011: Regional Symposium on "Scientific Research and Agricultural Development in Centre-West Tunisia ", organized at Sidi Bouzid by IRESA & SIAS-11.
- December 16-17, 2014: National Workshop on "Strategy and action Plan of the National Gene Bank", Hammamet.
- January 27-28, 2015: Evaluation of the project "Actions-Indications Géographiques », Workshop by DGPA-PAIG-Ministry of Agriculture, Sousse - Tunisia. (*Oral Communication*)
- February 26, 2015: "Research Results for Application in the Industry of Organic Cactus Pear", organized by DGAB-TPAA-ONUUDI, Kairouan - Tunisia. (*Session Chair*)
- May 25-26, 2015: « Days of Biodiversity and Biosecurity », organized at Djerba by MEDD-PNUD-PNUE. (*Session Chair*)

PUBLICATIONS & PRESENTATIONS (list)

1- Dissertations, Thesis

- Mars M., 1982: "Blooming and bearing habit in orange (*Citrus sinensis* (L) Osb.) varieties *Valencia Late* and *Maltaise Demi-Sanguine* in Tunisia", INAT, 1982, 100 pages.
- Mars M., 1983: "Genetic improvement of almond (*Prunus amygdalus* Batsh.)", Mediterranean Agronomic Institute of Zaragoza (MAIZ), Spain, 1983, 80 pages.
- Mars M., 1984: "Improvement of *Citrus* rootstocks tolerance to salinity and alkalinity via mutation induction and *in vitro* embryogenesis", M.Sc. Thesis, MAIZ (Spain), 1984, 180 pages.
- Mars M., 2001: "Pomegranate (*Punica granatum* L.) genetic resources in Tunisia: Prospection, conservation and diversity analysis", Thesis (*Doctorat d'Etat*), Fac. Sci., University Tunis El Manar, 2001, 200 pages + annex.
- Mars M., 2001: "Plant genetic resources for combating desertification", Monographic Thesis, Fac. Sci., University Tunis El Manar, 2001, 30 pages.

2- Published papers (International Scientific Journals): 71

- **Mars M.**, Abderrazak R. et Marrakchi M., 1994: Etude de la variation intra-arbre de la qualité des fruits d'agrumes récoltés sur un même arbre. Effets de la date de récolte, de l'orientation des fruits et de leur position dans la frondaison. *Fruits*, Vol. 49 : 269-278.
- **Mars M.**, Carraut A., Marrakchi M., Gouiaa M. et Gaaliche F., 1994: Ressources génétiques fruitières en Tunisie (poirier, oranger, figuier, grenadier). *Plant Genetic Resources Newsletter*, N° 100: 14 -17.
- **Mars M.** et M. Marrakchi, 1998: Conservation et valorisation des ressources génétiques du grenadier (*Punica granatum* L.) en Tunisie. *Plant Genetic Resources Newsletter*, N° 114: 36 - 39.
- **Mars M.** and M. Marrakchi, 1999: Diversity of pomegranate (*Punica granatum* L.) germplasm in Tunisia. *Genetic Resources & Crop Evolution*, 46: 461- 467, 1999.
- **Mars M.** et M. Marrakchi, 2000: Variabilité intra-arbre chez le grenadier (*Punica granatum* L.) : application à l'échantillonnage des fruits. *Fruits*, 2000, Vol. 55: 347 - 355.
- Salhi-Hannachi A., **M. Mars**, K. Chatti, M. Marrakchi and M. Trifi, **2003**: Specific genetic markers for Tunisian fig germplasm: evidence of morphological traits, random amplified polymorphic DNA and inter simple sequence repeats markers. *Journal of Genetics and Breeding*, 2003, 57: 125 – 136.
- Salhi-Hannachi A., M. Trifi, S. Zehdi, J. Hedfi, **M. Mars**, A. Rhouma and M. Marrakchi, **2004**: Inter-Simple Sequence Repeat fingerprints to assess genetic diversity in Tunisian fig (*Ficus carica* L.) germplasm. *Genetic Resources & Crop Evolution*, 51: 269 - 275, 2004.
- **Mars M.** et M. Marrakchi, **2004**: Dynamique de floraison et régime de reproduction chez le grenadier (*Punica granatum* L.) en Tunisie. *Fruits*, 2004, Vol. 59: 39 – 48.
- Chatti K., Salhi-Hannachi A., **M. Mars**, M. Marrakchi et M. Trifi, **2004**: Analyse de diversité génétique de cultivars tunisiens de figuier (*Ficus carica* L.) par les caractères morphologiques. *Fruits*, 2004, Vol. 59: 49 – 61.

- Salhi-Hannachi A., Chatti K., **M. Mars**, M. Marrakchi & M. Trifi, **2005**: Comparative analysis of genetic diversity in two collections of fig cultivars based on random amplified polymorphic DNA and inter simple sequence repeats fingerprints. *Genetic Resources & Crop Evolution*, 52: 563 - 573, 2005.
- Saddoud O., Salhi-Hannachi A., Chatti K., **M. Mars**, A., Rhouma, M. Marrakchi & M. Trifi, 2005: Tunisian fig (*Ficus carica* L.) genetic diversity and cultivar characterization using microsatellite markers. *Fruits* 60 (2005): 143-153.
- Salhi-Hannachi A., Chatti K., Saddoud O., **M. Mars**, A. Rhouma, M. Marrakchi & M. Trifi, 2006: Genetic diversity of different Tunisian fig (*Ficus carica* L.) collections revealed by RAPD fingerprints. *Hereditas*, 143: 15 – 22 (2006).
- Chatti K., Saddoud O., Salhi-Hannachi A., **M. Mars**, M. Marrakchi and M. Trifi, 2007: Analysis of genetic diversity and relationships in a Tunisian fig (*Ficus carica* L.) germplasm collection by random amplified microsatellite polymorphisms. *Journal Integrative Plant biology*, 2007, 49 (3): 386-391.
- Saddoud O., Salhi-Hannachi A., Chatti K., **M. Mars**, A., Rhouma, M. Marrakchi & M. Trifi, 2007: Genetic diversity of Tunisian figs (*Ficus carica* L.) as revealed by nuclear microsatellites. *Hereditas*, 144: 149 – 157 (2007).
- Ping An, S. Inanaga, N. Zhu, Xiangjun Li, H.M. Fadul and **M. Mars**, **2007**: Plant species as indicators of the extent of desertification in four sandy rangelands. *African Journal of Ecology*, Vol. 45 Issue 1, pp: 94-102.
- Jbir R., N. Hasnaoui, **M. Mars**, M. Marrakchi & M. Trifi, 2008: Characterization of Tunisian pomegranate (*Punica granatum* L.) cultivars using Amplified Fragment Length Polymorphism analysis. *Scientia Horticulturae*, 115 (2008): 231 – 237.
- Saddoud O., Baraket G., Chatti K., M. Trifi, Salhi-Hannachi A., M. Marrakchi & **M. Mars**, 2008: Morphological variability of fig (*Ficus carica* L.) cultivars. *International Journal of Fruit Science*, Vol. 8 (1-2) 2008: 35 - 51.
- Brini W. et **M. Mars**, 2008: Prospection du poirier local (*Pyrus communis* L.) au centre-est (Sahel) de la Tunisie. *Plant Genetic Resources Newsletter*, 2008, N° 153: 55 – 60.
- Brini W., **M. Mars** and I. Hormaza, 2008: Genetic diversity in local Tunisian pears (*Pyrus communis* L.) studied with SSR markers. *Scientia Horticulturae*, 115 (2008): 337 – 341.
- Baraket G., Saddoud O., Chatti K., **M. Mars**, M. Marrakchi, M. Trifi, & Salhi-Hannachi A., 2009: Chloroplast DNA analysis in Tunisian fig cultivars (*Ficus carica* L.): Sequence variations of the *trnL-trnF* intergenic spacer. *Biochemical Systematics and Ecology*, 36 (2009): 828 – 835.
- Baraket G., Saddoud O., Chatti K., **M. Mars**, M. Marrakchi, M. Trifi, & Salhi-Hannachi A., 2009: Sequence analysis of the internal transcribed spacers (ITSs) region of the nuclear ribosomal DNA (nrDNA) in fig cultivars (*Ficus carica* L.). *Scientia Horticulturae*, 120 (2009): 34-40.
- Baraket G., Chatti K., Saddoud O., **M. Mars**, M. Marrakchi, M. Trifi, & Salhi-Hannachi A., **2009**: Genetic analysis of Tunisian (*Ficus carica* L.) fig cultivars using amplified fragment length polymorphism (AFLP) markers. *Scientia Horticulturae*, 120, (2009): 487 - 492.
- Hasnaoui N., **M. Mars**, Jemni C. and M. Trifi, 2010: Molecular polymorphisms in Tunisian pomegranate (*Punica granatum* L.) as revealed by RAPD fingerprints. *Diversity* 2010, 2, 107-114.
- Baraket G., Chatti K., Saddoud O., **M. Mars**, M. Marrakchi, M. Trifi, & Salhi-Hannachi A., 2010: Molecular polymorphism of cytoplasmic DNA in *Ficus carica* L.: Insights from non-coding regions of chloroplast DNA. *Scientia Horticulturae*, 125, (2010): 512 - 517.

- Baraket G., A. Ben Abdelkarim, K. Chatti, O. Saddoud, **M. Mars**, M. Trifi and A. Salhi Hannachi, 2010 : Molecular evolution of chloroplast DNA in fig (*Ficus carica* L.): Footprints of sweep selection and recent expansion. *Biochemical Systematics and Ecology*, 38 (2010): 563-575.
- Chatti K., G. Baraket, A. Ben Abdelkrim, O. Saddoud, **M. Mars**, M. Trifi and A. Salhi Hannachi, 2010 : Development of molecular tools for characterization and genetic diversity analysis in Tunisian fig (*Ficus carica*) cultivars. *Biochemical Genetics*, Volume 48, Numbers 9-10 (2010): 789-806.
- Hasnaoui N., A. Buonamici, F. Sebastiani, **M. Mars**, M. Trifi and G.G. Vendramin, 2010: Development and characterization of SSR markers for pomegranate (*Punica granatum* L.) using an enriched library. *Conservation Genetics Resources* Vol. 2 (1) (2010): 283-285.
- Baraket G., K. Chatti, O. Saddoud, A. Ben Abdelkarim, **M. Mars**, M. Trifi and A. Salhi Hannachi, 2011 : Comparative assessment of SSR and AFLP markers for evaluation of genetic diversity and conservation of fig, *Ficus carica* L., genetic resources in Tunisia. *Plant Molecular Biology Reporter*, 29 (2011): 171-184.
- Hasnaoui N., **M. Mars**, S. Ghaffari, M. Trifi, P. Melgarejo and F. Hernandez, 2011: Seed and juice characterization of pomegranate fruits grown in Tunisia: comparison between sour and sweet cultivars revealed interesting properties for prospective industrial applications. *Industrial Crops and Products*, Vol. 33 (2): 374-381.
- Lazreg Aref H., B. Gaaliche, A. Fekih, **M. Mars**, M. Aouni, J.P. Chaumon and K. Said, 2011: In vitro cytotoxic and antiviral activities of *Ficus carica* Latex extracts. *Natural Product Research*, 25: 3, 310-319.
- Zaouay F. and **M. Mars**, 2011: Diversity among Tunisian pomegranate (*Punica granatum* L.) cultivars as assessed by pomological and chemical traits. *International Journal of Fruit Science*, 11(2): 151 – 166.
- Lazreg Aref H., K. Bel Hadj salah, A. Fekih, R. Chemli, **M. Mars**, M. Aouni, J.P. Chaumon and K. Said, 2011: Variability in antimicrobial activity of latex from two varieties of *Ficus carica*. *African Journal of Microbiology Research*, 5(12): 1361-1367.
- Hasnaoui N., R. Jbir, **M. Mars**, M. Trifi, A. Kamal-Eldin, P. Melgarejo and F. Hernandez, 2011: Organic acids, sugars and anthocyanins contents in juices of Tunisian pomegranate fruits. *International Journal of Food Properties*, 14(4): 741-757.
- Chaieb N., M. Bouslama and **M. Mars**, 2011: Growth and yield parameters variability among faba bean (*Vicia faba* L.) genotypes. *Journal of Natural products and Plant Resources*, 2011 1(2): 81-90.
- Baraket G., A. Ben Abdelkrim, **M. Mars** and A. Salhi-Hannachi, 2011: Cyto-nuclear discordance in the genetic relationships among Tunisian fig cultivars (*Ficus carica* L.): Evidence from non coding *trnL-trnF* and ITS regions of chloroplast and ribosomal DNAs. *Scientia Horticulturae*, 130 (1), 2011: 203-210.
- Gaaliche B., M. Trad and **M. Mars**, 2011: Effect of pollination intensity, frequency and pollen source on fig (*Ficus carica* L.) productivity and fruit quality. *Scientia Horticulturae*, 130 (2011): 737 – 742.
- Gaaliche B., L. Hfaiedh, M. Trad and **M. Mars**, 2011: Caprification efficiency of some Tunisian local fig (*Ficus carica* L.) cultivars. *Pakistan Journal of Agricultural Sciences*, Vol. 48 (4): 295- 298.
- Gaaliche B., P. E. Lauri, M. Trad, E. Costes and **M. Mars**, 2011: Interaction between vegetative and generative growth and between crop generations in fig tree (*Ficus carica* L.) productivity and fruit quality. *Scientia Horticulturae*, 131 (2011): 22 - 28.
- Saddoud O., Baraket G., Chatti K., M. Trifi, M. Marrakchi, **M. Mars** and Salhi-Hannachi A., 2011: Using morphological characters and simple sequence repeat (SSR) to

characterize Tunisian fig (*Ficus carica* L.) cultivars. *Acta Botanica Cracoviensia, Series Botanica*, 53 (2) 2011: 7 - 14.

- Hasnaoui N., A. Buonamici, F. Sebastiani, **M. Mars**, D. Zhang and G.G. Vendramin, 2012: Molecular genetic diversity of *Punica granatum* L. (pomegranate) as revealed by microsatellite DNA markers (SSR). *Gene* 493 (2012): 105 – 112.

- Trad M., C. Ginies, B. Gaaliche, M.G.C. Renard and **M. Mars**, 2012: Does Pollination Affect Aroma Development in Ripened Fig [*Ficus carica* L.] Fruit?. *Scientia Horticulturae*, 134 (2012): 93-99.

- Zaouay F., P. Mena, C. Vargas and **M. Mars**, 2012: Antioxidant activity and physicochemical properties of Tunisian grown pomegranate (*Punica granatum* L.) cultivars. *Industrial Crops and Products*, 40 (2012): 81-89.

- Jbir R., Zehdi S., Hasnaoui N., Ben Dhiab A., **M. Mars** and A. Salhi-Hannachi, 2012: Microsatellite polymorphism in Tunisian pomegranates (*Punica granatum* L.): cultivar genotyping and identification. *Biochemical Systematics and Ecology*, 44 (2012): 27-35.

- Lazreg Aref H., **M. Mars**, A. Fekih, M. Aouni and K. Said, 2012: Chemical Composition and Antibacterial Activity of a hexane extract of Tunisian caprifig latex from the unripe fruit of *Ficus carica*. *Pharmaceutical Biology*, 2012 50 (4): 407-412.

- Gaaliche B., O. Saddoud and **M. Mars**, 2012: Morphological and pomological diversity of fig (*Ficus carica* L.) cultivars in North West of Tunisia. *ISRN Agronomy*, Volume 2012, Article ID 326461, 09 pages (DOI: doi:10.5402/2012/326461)

- Trad M., C. Le Bourvellec, B. Gaaliche, M.G.C. Renard and **M. Mars**, 2012: Quality performance of 'Smyrna' type figs grown under Mediterranean conditions of Tunisia. *Journal of Ornamental & Horticultural Plants*, 2012, 2 (3): 139-146.

- Lazreg Aref H., H. Mosbah, A. Fekih, **M. Mars** and K. Said, 2012: Purification and biochemical characterization of lipase from *Ficus carica* latex of Tunisian East Cost Zidi variety. *Journal of the American Oil Chemists*, 2012 (89): 1847-1855.

- Lachkar A. and **M. Mars**, 2012: Assessment of Tunisian local apricot cultivars and hybrids for new breeding program. *Annals of Biological Research*, 2012, 3 (8):4108-4118.

- Gaaliche B., Trad M., Hfaiedh L., Lakhal W. and **M. Mars**, 2012: Pomological and biochemical characteristics of fig (*Ficus carica* L.) cv Zidi in different agro-ecological zones in Tunisia. *Pakistan Journal of agricultural Sciences*, Vol. 49(4): 425 – 428.

- Saddoud Debbabi O., R. Bouhlal, N. Abdelaal, S. Mnasri and **M. Mars**, 2013: Pomological study of sweet orange (*Citrus sinensis* L. Osbeck) cultivars from Tunisia. *International Journal of Fruit Science*, 13:3, 274-284.

- Trad M., B. Gaaliche, M.G.C. Renard and **M. Mars**, 2013: Plant natural resources and fruit characteristics of fig (*Ficus carica* L.) change from coastal to continental areas of Tunisia. *Journal of Agricultural Research and Development*, Vol. 3(2): 22-25.

- Baraket G., A. Ben Abdelkrim, **M. Mars** and A. Salhi-Hannachi, 2013: Genetic diversity and molecular evolution of the internal transcribed spacer (ITSs) of nuclear ribosomal DNA in the Tunisian fig cultivars (*Ficus carica* L.; *Moraceae*). *Biochemical Systematics and Ecology*, 48 (2013): 20 - 33.

- Trad M., W. Dhifi, B. Marzouk and **M. Mars**, 2013: Aroma Composition in Relation with Quality of 'Peento' Flat Peach during Fruit Development. *Global Science Books, Food 7 (Special Issue 1)*, 2013: 8-12.

- Trad M., C. Le Bourvellec, B. Gaaliche, M.G.C. Renard and **M. Mars**, 2013: Caprification modifies polyphenols but not cell wall concentrations in ripe figs. *Scientia Horticulturae*, 160 (2013): 115-22.

- Gaaliche B., M. Trad and **M. Mars**, 2013: Assessment of pollen viability, germination and tube growth in eight Tunisian caprifig (*Ficus carica* L.) cultivars. *ISRN Agronomy*, Volume 2013, Article ID 207434, 4 pages.

- Trad M., B. Gaaliche, M.G.C. Renard and **M. Mars**, 2013: Inter and intra-tree variability in quality of figs. Influence of altitude, leaf area and fruit position in the canopy. *Scientia Horticulturae*, 162 (2013): 49-54.
- Lachkar A., Fattouch S., Ghazouani T., Szikriszt B., Hegedus A., Andrzej P. and **M. Mars**, 2013: Identification of self-(in)compatibility S-alleles and new cross incompatibility groups in Tunisian apricot (*Prunus armeniaca* L.). *Journal of Horticultural Science & Biotechnology*, Vol. 88 N°4 (2013): 497-501.
- Laaribi I., M. Mezghani Aïachi and **M. Mars**, 2013: Morphometric variability induced by cross-breeding of “*Chemlali Sfax*” under different pollination treatments: self-, free- and cross-pollination. *Journal of Natural Product and Plant Resources*, 2013, 3(3): 20-28.
- Laaribi I., M. Mezghani Aïachi and **M. Mars**, 2014: Study of the floral phenology and inflorescence characteristics of selections of olives obtained by controlled pollination in relation to climatic conditions. *ARPN Journal of Science and Technology*, Vol. 3 N° 8: 793-797.
- Trad M., C. Le Bourvellec, B. Gaaliche, M.G.C. Renard and **M. Mars**, 2014. Nutritional compounds in figs from Southern Mediterranean Region. *International Journal of Food Properties*, 17:3 (2014): 491-499.
- Trad M., C. Ginies, B. Gaaliche, M.G.C. Renard and **M. Mars**, 2014: Relationship between pollination and cell wall properties in common fig. *Phytochemistry*, 98 (2014): 78-84.
- Zaouay F., Haj Salem H., Labidi R. and **M. Mars**, 2014: Development and quality assessment of new drinks combining sweet and sour pomegranate juices. *Emirates Journal of Food and Agriculture*, 2014, 26 (1): 1-8.
- Lachkar A., Chaar H. and **M. Mars**, 2014: Reproductive behavior of Tunisian apricot cultivars as related to floral morphometric characteristics and pollen quality. *International Journal of Fruit Sciences*, Volume 14 (2014): 188-204.
- Laaribi I., M. Mezghani Aïachi and **M. Mars**, 2014: Phenotypic diversity of some olive tree progenies issued from a Tunisian breeding program. *European Scientific Journal*, 10 (6), 2014: 292-313.
- Zaouay F. and **M. Mars**, 2014: Phenotypic variation and estimation of genetic parameters to improve fruit quality in Tunisian pomegranate (*Punica granatum* L.) accessions (*Punica granatum* L.) accessions. *Journal of Horticultural Science & Biotechnology*, (2014), 89 (2): 221-228.
- Saddoud Debbabi O., N. Mezghani, M. Madini, N. Ben Abdelaali, R. Bouhlel, Aymen Ksia and **M. Mars**, 2014: Genetic diversity of orange fruit (*Citrus sinensis* L. Osbeck) cultivars in Tunisia using AFLP markers. *International Journal of Agronomy and Agricultural Research*, Vol. 5, No 1, pp: 7-15, 2014.
- Ben Rached Z., M. Gorai, **M. Mars**, N. Hamza et M. Neffati, 2014: Variabilité morpho-phénologique de neuf accessions d’ail rosé (*Allium roseum* L.), plante spontanée répandue en Tunisie. *Revue d’Écologie (Terre et Vie)*, vol. 69, N°2, 2014 : 159-166.
- Bayouhd C., R. Labidi, A. Majdoub and **M. Mars**, 2014: Fig mosaic disease (FMD) incidence in some regions of Centre-East of Tunisia. *Research on Crops Journal*, 15 (4): 893-901.
- Ferjani H., F. Haouala and **M. Mars**, 2015: *In Morphological and karyological studies in two wild Irs species (Iridaceae) of Tunisia. European Scientific Journal*, 11 (2), 2015: 175-185.
- Bayouhd C., R. Labidi, A. Majdoub and **M. Mars**, 2015: *In Vitro* propagation of caprifig and female fig varieties (*Ficus carica* L.) from shoot-tips. *Journal of Agricultural Science and Technology*, Vol. 17, N° 6, 2015.

- Chaieb N., M. López-Mesas, J. Luis González, **M. Mars** and M. Valiente, 2015: Hollow Fibre Liquid Phase Micro-extraction by Facilitated Anionic Exchange for the Determination of Flavonoids in Faba Beans (*Vicia faba* L.) genotypes. *Phytochemical Analysis*, 2015, 26(5):346-352.

3- Published papers (National Scientific Journals): 14

- **Mars M.**, Primo-Millo E. et Millan R., 1989: Sélection des jeunes plants de porte-greffes d'agrumes pour la tolérance à la salinité. *Revue de l'Institut National Agronomique de Tunisie*, Vol. 4, N° 2 : 5-15.

- **Mars M.** et Marrakchi M., 1991: Identification des porte-greffes d'agrumes par électrophorèse des protéines des feuilles et d'écorces des tiges. *Revue de l'Institut National Agronomique de Tunisie*, Vol. 6, N° 1 : 13-23.

- **Mars M.** et Sayadi S., 1992: Etude comparative de la qualité des fruits de cinq variétés de grenadier (*Punica granatum* L.). *Revue des Régions Arides*, N° 4/92: 45-57.

- Chatti K., Salhi-Hannachi A., **M. Mars**, M. Marrakchi and M. Trifi, 2004: Genetic diversity and phylogenetic relationships in tunisian fig (*Ficus carica* L.) cultivars mediated by RAPD. *Biologia Tunisie*, 2004, Vol. 1, N° 2: 1-4.

- Saddoud O., K. Chatti, A. Salhi-Hannachi, **M. Mars**, M. Marrakchi, M.A. Achon, V. Medina Piles and M. Trifi, 2006: The fig mosaic disease (FMD) in Tunisian fig (*Ficus carica* L.): Symptomatology and cytopathological studies. *Biologia Tunisie*, 2006, N° 4 : 18 - 21.

- Chatti K., Saddoud O., Baraket G., **M. Mars**, Salhi-Hannachi A., M. Marrakchi and M. Trifi, 2008: ISSR markers in Tunisian fig (*Ficus carica* L.) genetic diversity study. *Biologia Tunisie*, 2008, N° 5 : 40-43.

- **Mars M.**, B. Gaaliche, I. Ouerfelli et S. Chouat, 2009: Systèmes de production et ressources génétiques du figuier (*Ficus carica* L.) à Djebba et Kesra, deux villages de montagne au nord ouest de la Tunisie. *Revue des Régions Arides*, N° 22 (1/2009), pp: 33-45.

- Jbir R., S. Zehdi, N. Hasnaoui, M. Marrakchi, **M. Mars** and M. Trifi, 2010: Study of molecular polymorphism of Tunisian pomegranate (*Punica granatum* L.) cultivars using SSR and AFLP markers. *Biologia Tunisie*, N° 7 (2010): 20-25.

- Trad M., B. Gaaliche, C. Le Bourvellec, M.G.C. Renard and **M. Mars**, 2011. Flavonoïds and hydroxycinnamic acids in Tunisian fig (*Ficus carica* L.) fruits. *Tunisian Journal of Medicinal Plants and Natural Products (T JMPNP)*, 2011; 6: 108-114.

- Gaaliche B., M. Trad and **M. Mars**, 2012. Biodiversité et efficacité comparée de caprifiguiers tunisiens. *Tunisian Journal of Medicinal Plants and Natural Products (T JMPNP)*, 2012; 7: 12-19.

- Ferjani H., M. Gandour, C. Abdelly, F. Haouala and **M. Mars**, 2012. Isozyme polymorphism and genetic diversity in *Iris sisyrinchium* species. *Tunisian Journal of Medicinal Plants and Natural Products (T JMPNP)*, 2012; 7: 5-11.

- Laaribi I., M. Mezghani Aïachi, **M. Mars**, F. Labidi et F. Ben Amar, 2012: Variabilité morphologique observée au niveau d'une descendance d'oliviers issue d'autofécondations (*Olea europaea* L.). *Ezzaitouna*, 13 (1 et 2) 2012 : 30-45.

- Zaouay F., Haj Salem H. and **M. Mars**, 2013: Phytochemical characterisation and valorisation of sour pomegranates (*Punica granatum* L.). *Tunisian Journal of Medicinal Plants and Natural Products (T JMPNP)*, 2013; 10(2).

- El Air M., N. Mahfoudhi, C. Bayoud, I. Selmi, **M. Mars**, & M.H. Dhouibi, 2014: Sanitary selection of virus-tested fig (*Ficus carica* L.) cultivars in Tunisia. *Tunisian Journal of Plant Protection*. Vol. 9, N°2, 2014: 100-109.

4- Published papers (Special Issues of Referred Scientific Journals): 24

- **Mars M.** y Sayadi S., 1994: Multiplicacion por semillas del gradnado (*Punica granatum* L.): Resultados preliminares. *I.T.E.A. (Informacion Tecnica Economica Agraria)*, Vol. Extra N° 15 (1994): 44-49.

- **Mars M.**, 1995: La culture du grenadier (*Punica granatum* L.) et du figuier (*Ficus carica* L.) en Tunisie. *Cahiers Options Méditerranéennes*, Vol. 13, 1995: 85-95.

- **Mars M.**, M. Marrakchi and T. Chebli, 1998: Multivariate analysis of fig (*Ficus carica* L.) germplasm in southern Tunisia. *Acta Horticulturae*, N° 480 : 75 - 81.

- **Mars M.**, 2000: Pomegranate plant material: Genetic resources and breeding, a review. *Options Méditerranéennes.*, Série A, N° 42 : 55 - 62.

- **Mars M.**, 2003: Fig (*Ficus carica* L.) genetic resources and breeding. *Acta Horticulturae*, N° 605: 19 - 27.

- Salhi-Hannachi A., K. Chatti, O. Saddoud, J. Hedfi, A. Rhouma, **M. Mars**, M. Trifi, et M. Marrakchi, 2004: Diversité génétique du figuier (*Ficus carica* L.) cultivé en milieu aride : vers une meilleure conservation et une gestion rationnelle. *Revue des Régions Arides*, NS, 2004: 48 – 53.

- **Mars M.** et M. Marrakchi, 2004: Analyse de la diversité génétique et sélection clonale chez le grenadier (*Punica granatum* L.). *Revue des Régions Arides*, NS, 2004: 116 – 122.

- Jabbes N., Arnault L., Auger J., **Mars M.** et C. Hannachi, 2007: Analyse de la variabilité pour 5 composés organo-soufrés chez 31 accessions d'ail (*Allium sativum* L.) tunisien. *Revue des Régions Arides*, NS, 2007: 514 – 522.

- **Mars M.**, K. Chatti, O. Saddoud, A. Salhi-Hannachi, M. Trifi, and M. Marrakchi, 2008: Fig cultivation and genetic resources in Tunisia, an overview. *Acta Horticulturae*, N° 798: 27 - 32.

- Trifi M., K. Chatti, O. Saddoud, A. Salhi-Hannachi, M. Marrakchi and **M. Mars**, 2008: Survey of molecular markers in Tunisian figs: DNA fingerprinting. *Acta Horticulturae*, N° 798: 159 - 164.

- Saddoud O., K. Chatti, M. Trifi, M. Marrakchi, A. Salhi-Hannachi and **M. Mars**, 2008: Molecular polymorphisms in Tunisian figs (*Ficus carica* L.) mediated by microsatellites. *Acta Horticulturae*, N° 798: 177 - 181.

- Chatti K., O. Saddoud, A. Salhi-Hannachi, M. Marrakchi, M. Trifi and **M. Mars**, 2008: RAMPO: a powerful molecular method in fig (*Ficus carica* L.) diversity analysis. *Acta Horticulturae*, N° 798: 183 - 189.

- Salhi-Hannachi A., K. Chatti, O. Saddoud, M. Marrakchi, M. Trifi, **M. Mars** and A. Rhouma 2008: Genetic diversity in Tunisian fig germplasm assessed with molecular markers: implication for its conservation. *Acta Horticulturae*, N° 798: 191 - 197.

- Jbir R., N. Hasnaoui, M. Trifi, M. Marrakchi & **M. Mars**, 2008: Molecular polymorphism in Tunisian pomegranate (*Punica granatum* L.) cultivars as revealed by AFLP. *Revue des Régions Arides*, N° 21 (1), 2008 : 77 – 81.

- Salhi-Hannachi A., Saddoud O., Baraket G., Chatti K., **M. Mars**, M. Marrakchi & M. Trifi, 2008: L'ADN microsatellite nucléaire chez le figuier tunisien : empreinte génétique des variétés et étude de la diversité génétique et de sa structuration. *Revue des Régions Arides*, N° 21 (1), 2008 : 118 – 125.

- Trifi M., S. Rhouma, O. Saddoud, G. Baraket, **K. Chatti**, S. Zehdi-Azzouza. Ould Mohamed Salem, A. Salhi-Hannachi, **M. Mars**, H. Sakka, A. Rhouma et M. Marrakchi, 2008: Biodiversité et polymorphisme moléculaire des oasis tunisiennes : état et implication dans l'établissement des empreintes génétiques des écotypes. *Revue des Régions Arides*, N° 21 (1), 2008 : 126 – 131.

- Chatti K., O. Saddoud, G. Baraket, **M. Mars**, A. Salhi-Hannachi, M. Marrakchi and M. Trifi, 2009: Genetic diversity analysis and molecular characterization of Tunisian figs (*Ficus carica* L.). *Acta Horticulturae*, N° 814 (2009): 95 - 101.

- Jbir R., N. Hasnaoui, M. Marrakchi, M. Trifi and **M. Mars**, 2009: Assessment of relationships in Tunisian pomegranate (*Punica granatum* L.) cultivars by pomologic and AFLP markers. *Acta Horticulturae*, N° 814 (2009): 107 - 111.

- Lachkar A., W. Brini and **M. Mars**, 2010: Floral morphometric diversity of Tunisian apricot (*Prunus armeniaca* L.) cultivars. *Acta Horticulturae*, N° 862 (2010): 237-244.

- Ben Abda J., Yahyaoui N., **Mars M.**, Sdiri S. and A. Salvador-Pérez A. 2010: Effect of intermittent warming, hot water treatment and heat conditioning on quality of Jbali stored pomegranate. *Acta Horticulturae*, N° 877 (2010):1433-1439.

- Baraket G., Saddoud Dabbabi O., Ben abdelkrim A., **Mars M.**, Trifi M. et A. Salhi Hannachi, 2010: Polymorphisme moléculaire des régions intergeniques des ADNs ribosomiques (ITS) chez des cultivars de figuier (*Ficus carica* L.) du sud Tunisien. *Revue des Régions Arides* – Numéro spécial – 24 (2/2010), pp: 44-48.

- Gouta H., H. Guenichi, R. Rezgui, **M. Mars**, M. Zarrouk et A. Mliki, 2010 : Système de Production et Ressources Génétiques de l'Amandier (*Prunus dulcis* L.) dans le centre ouest tunisien. *Revue des Régions Arides* – Numéro spécial – 24 (2/2010), pp:106-111.

- Saddoud Debbabi O., Baraket G., Ben Abdelkerim A., **M. Mars**, M. Trifi et A. Salhi Hannachi, 2010 : Les îles de Kerkennah: ressources génétiques du figuier (*Ficus carica* L.). *Revue des Régions Arides* – Numéro spécial – 24 (2/2010), pp:127-129.

- Gouta H., **Mars M.**, Gouiaa M., Ghrab M., Zarrouk M. and A. Mliki, 2011: Genetic diversity of almond (*Prunus amygdalus* Batsch) in Tunisia: A morphological traits analysis. *Acta Horticulturae*, N° 912 (2011): 351-358.

5- Published papers (Proceedings of Scientific Meetings): 11

- **Mars M.**, Primo-Millo E. and Millan R., 1988: *In vitro* response of unfertilized ovules of Cleopatra Mandarin (*Citrus reshni* Hort. ex Tan.) cultured after EMS treatment. Proc. 2nd Intl. Meet. on Mediter. Tree Crops, Chania, Crete, Greece, nov. 1988, Subtrop. Plants and Olive Tree Inst.(Eds) : 83-90.

- Ghorbel A., Kchouk M.L., **Mars M.** and Rhouma A., 1994: Genetic resources of fruits in Tunisia (date palm, fig, pomegranate). Proc. Second M.E.S.F.I.N. Meeting, Zaragoza, Spain, 7-8 nov. 1994: 81-98

- Ghorbel A., Kchouk M.L., Fnayou-Ben Salem A., **Mars M.** and Rhouma A., 1996: Morphoqualitative descriptions in *ex-situ* collections of date palm, fig and pomegranate.

Proceedings of the First MESFIN Meeting on Plant Genetic Resources, Tenerife, Spain, 2-5/10/1995 : 125 - 140.

- **Mars M.**, 1996: Pomegranate genetic resources in the Mediterranean region. Proceedings of the First MESFIN Meeting on Plant Genetic Resources, Tenerife, Spain, 2-5/10/1995 : 345 - 354.

- **Mars M.**, M. Marrakchi, T. Chebli, M. Chandoul et F. Gaaliche, 1997: Conservation et évaluation des variétés locales de grenadier (*Punica granatum* L.) en Tunisie. Actes des 4èmes Journées Nationales sur les Acquis de la Recherche Agricole. Nabeul, 28 & 29 nov. 1997: 212 - 217.

- **Mars M.**, 1999: Pomegranate in the Mediterranean region: needs of collaborative research programs. In: Tuzcu O & A. B. Kuden (eds) Proceedings of the third general meeting of MESFIN, Adana, Turkey, June 10 - 12, 1999 : 99 - 104.

- An P., Inanaga S., Fadul H.M., Neffati M. and **M. Mars**, 2000: Plant indicators for assessment of desertification in rangeland : A case study of some desertified areas in China, Sudan and Tunisia., Proceedings of Symposium on Rehabilitation of Grassland and Control of Desertification in Dry Area. Guyuan, China, July 1 - 3, 2000: 25 - 37.

- Saddoud O., Chatti K., Hedfi J., **M. Mars**, Salhi-Hannachi A., M. Marrakchi & M. Trifi, 2005: Etude de la diversité génétique dans une collection de cultivars tunisiens de figuier (*Ficus carica* L.) par les caractères morphologiques et les microsatellites. *Actes des 12 Journées IRESA*, 2005.

- Aïachi M., **M. Mars** et A. Jebbari, 2009 : Développement de jeunes plants d'olivier (*Olea europeae* L.) et apparition de la première floraison. In: Karray B., J. Khecharem & S. Roussos (eds), *Proceedings of the International Symposium Olivebioteq 2009*, Sfax – Tunisia: 117-122.

- Labidi R., F. Zaouay et **M. Mars**, 2011 : Essais d'éclaircissage des fruits chez le grenadier (*Punica granatum* L.). *Actes des XVII^{èmes} Journées IRESA* sur les Acquis de la Recherche Agronomiques, Décembre 2010.

- **Mars M.**, 2014: Current status of horticultural industry and research and development in Tunisia. Proceedings of planning meeting on horticulture program, KAFACI-RDA-INRA, Rabat - Morocco, April 2014, pp: 203-212.

6- Published papers (Chapters in collective books): 01

- **Mars M.**, 2003: Conservation of fig (*Ficus carica* L.) and pomegranate (*Punica granatum* L.) varieties in Tunisia. pages 433 - 442 in : Lemons, J., R. Victor and D. Schaffer (eds.) 2003. Conserving biodiversity in arid regions. Kluwer Academic Publishers, Boston, MA. 497 pages.

7 – Final Reports of R-D projects: 06

- **Mars M.**, 1997: PNM P95BIRD09 "Improvement of agricultural production in rain-fed areas and oases in south Tunisia" April 1997, 07 pages.

- Neffati M. & **Mars M.**, 2000: "Germplasm for arid lands", IRA-CITET-ICARDA, May 2000, 09 pages (+ annex).

- **Mars M.**, 2000: "Enhancement of pomegranate botanical garden at Gabès" MEAT-SERST-AVFA, December 2000, 07 pages (+ annex).

- **Mars M.**, 2002: IRA 03-P1 "Conservation and use of domestic plant genetic resources", Research Program IRA-SERST "Dry farming and oases", May 2002, 30 pages.
- **Mars M.**, 2007: Evaluation of three years program (2004-2006) of the Research Unit on « Agro-biodiversity », May 2007, 23 pages (+ annex).
- **Mars M.**, 2009: Evaluation of three years program (2007-2009) of Research Unit on « Agro-biodiversity », December 2009, 24 pages (+ annex).

8 – Technical Documents: 08

- **Mars M.** and Gaaliche F., 1993: Pomegranate varieties in Tunisia, Ed.: G.O.V.P.F, December 1993, 32 pages. (*french – arabic*)
- **Mars M.** and Coll., 1995: Pomegranate cultivation. Technical document, A.V.F.A, April 1995. (*arabic*)
- **Mars M.** and Coll., 1997: Pomegranate descriptor list, IRA (SERST-Tunisia) & Uni. Miguel Hernandez (Alicante-Spain), June 1997.
- Haj Ahmed N. & **Mars M.**, 2001: Pomegranate fruit rot and splitting in coastal oases, Technical document, IRA Médenine, January 2001. (*arabic*)
- **Mars M.** & F. Aljane, 2001: Fig caprification in south-east Tunisia, Technical document, IRA Médenine, March 2001. (*arabic*)
- Aksoy U., F. Toribio, G. Llacer, **M. Mars**, and S. Padulosi, 2003: Descriptors for Fig. IPGRI and CIHEAM.
- Abdelkefi K., **Mars M.** Nahdi H., Khalfaoui H., Ben Guiza S. et F. Lousaief, **2007**: Pomegranate cultivation. Extension Document, A.V.F.A, 2007. (*arabic*)
- **Mars M.**, Abdelkefi K. et M. Mhafdhi, **2011** : Fig cultivation. Extension Document, A.V.F.A, 2011. (*arabic*)

9 – Scientific expertise (consultancy) reports for R-D projects: 04

- **Mars M.** and M. Neffati, 1997: Arid lands germplasm in Tunisia: an inventory of studies and research projects. Rapport de consultation élaboré dans le cadre du projet BM/ICARDA Initiative for Collaboration to Control Natural Resources Degradation in the Middle East, 16 pages.
- **Mars M.**, 2000: "Fruit Crops", Chap. 2-2, Volume 1, pp: 63 – 75 in: "Rehabilitation et renovation of fruit cropping in the Ghaba, Jnen and Menezl", Chap. 2-3, Volume 3, pp: 26-52, Integrated agricultural development of Djerba island, Bureau d'Etudes des Régions Arides (BERA - IRA).
- **Mars M.** & A. El Hamrouni, 2000: Prospection of fruit species and varieties, Mission Report, Kerkenah & La Galite islands, AAO-MEAT-CEE "Conservation and rehabilitation of islands ecosystems", August 2000, 12 pages.
- **Mars M.**, 2002: "Conservation and use of local fruit varieties", ASNAPED-PNUD "TUN/98/G52/08 Conservation & use of plant genetic resources in Douiret", September 2002, 18 pages.