

CURRICULUM VITAE



Prof. MOHAME DNAJIB ZAGHLOUL

TECHNICAL & MARITAL STATUS

Last Name: ZAGHLOUL

First Name: Mohamed Najib

Born December 9, 1962

Married, two children

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UNIVERSITY ABDELMALEK UNIVERSITY ESSAADI

FACULTY OF SCIENCE AND TECHNIQUES DEPARTMENT OF EARTH SCIENCES

B.P 416, TANGIER - MOROCCO PROFESSOR OF EARTH SCIENCES

Tel: +212 39 39 39 54/55 Fax: +212 39 39 39 53

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I-CURRENT EMPLOYMENT

Function: Professor at the Faculty of Sciences and Techniques of Tangier

Grade: Full professor

Subjects taught:

Geology I (BCG I): Solar system and metamorphic rocks, magmatic and sedimentary

Geology I (BCG I): Stratigraphy and Sedimentary paleoenvironment

Geology II (BCG II): Sedimentology

Geology II (BCG II): Petrography

Geology III (G III License): Geological Mapping

Geology III (G III License): Regional Geology

Area of current research: Structural geology, Sedimentology, sedimentary petrology and marine geohazards.

II-EDUCATION & QUALIFICATIONS

Full Professor of University since October 2006

Associate Professor since October 2002

Assistant Professor since October 2001

Lecturer in the Department of Sciences at the Faculty of Sciences and Techniques of Tangier (Morocco) Earth since October 1996

2002 : Thesis D'Etat-es Sciences Discipline: Earth Sciences , Option : Geodynamics of sedimentary basins , " siliciclastic sedimentation Oligo - Miocene type " Flysch "in the Rif, Morocco (" Flysch Basin "and" Zones internal ") : trends and correlations across the Maghrébide chain" AbdelMalek Essaâdi University , Faculty of Tetouan. Mention: very Honourable and Congratulating Jury.

1994 : Diploma of Higher Education es- Science Geology (Magister) . Structural Option , "The northern Federico (internal Rif, Morocco) units : Inventory deformation and geodynamic setting in the Betic - Rif chain." Mohammed V University , Faculty of Sciences of Rabat. Mention: Very Honorable and Jury Congratulations

1988 : Master of Structural Geology , Mohammed V University , Faculty of Sciences of Rabat

1987 : Master of Geology, Faculty of Sciences of Tetouan (with honors)

1985 : Undergraduate college Diploma in Biology - Geology, Faculty of Sciences of Tetouan (with honors)

III-SKILLS

Geodynamics basement and cover (Structural analysis, and Macrotectonique /Tectonophysics)

Geological mapping

Analysis of sedimentary sequences and Geodynamics of Sedimentary Basins

Sedimentary Petrology

Siliciclastic sedimentology

Structural Geology

IV- PROFESSIONAL R&D EXPERIENCE

works applied to the field of Building (BTP) in Georet company

Soil geotechnics and tectonophysics

Coastal monitoring

Geotechnical control and rheology of building materials

V- EXPERIENCES & RESPONSABILITES,

Head, Department of Earth Sciences (1997-1998 and 2012-2013) ,

Lecturer at the Faculty of Sciences and Techniques of Tangier (Morocco) in the Department of Earth Sciences since 1996*

COURSES FOR UNDERGRADUATE STUDENTS:

Earth and primitive cosmology (Undergraduate level GI)

petrography (Undergraduate level GII)

Sedimentology (Undergraduate level GII)

Sedimentology and Tectonics (Undergraduate level GII)

Tectonics 1996-2003 (Undergraduate level GII)

Sedimentology - tectonics (Undergraduate level GII)

Geological Mapping (Undergraduate level GIII)

Regional geology (Undergraduate level GIII)

Sedimentary petrography (Undergraduate level GIII)

Coordinator of ESRG “Earth science Rsearch Group”

Responsible for thin section Laboratory at FST of Tangier

VI-COMPUTER SKILLS

DAO and Multimedia:

Adobe Premiere, Adobe Encore and Adobe Soundbooth

Corel Draw Suite

Structural geology and quantitative petrography Softwares

Stereo-32-3 Tectoto-3 Sterionet, Tectonic-FP Jmicrovision for quantitative petrography

Geophysics Software:

Introduction to Petrel software

VII-LANGUAGES

English spoken and written (fluent)

French: written and spoken (fluent)

Italian: spoken, very good understanding and writing (very good level)

Spanish: good comprehension, spoken and writing (basic level)

VIII- RESEARCH ACTIVITIES & RESEARCH STRUCTURES

Founding member of the Moroccan association of geologists and geophysicists

Member of the study group of the marine environment of morocco on both sides of the strait of Gibraltar in the department of earth sciences -FST of tangier,

REMER Network member (REMER: National Network for the Marine Geosciences),

Member of FRU (Formation and research Unit)" Mediterranean geology " at the Faculty of Sciences of Tetouan

Member of FRU " Marine environment and climate on both sides of the strait of gibraltar ." at the Faculty of Sciences and Techniques of Tangier,

Member of FRU "Marine geosciences" at Faculty of Sciences of Tetouan

Member of the National Group Moroccan Neogene (gnm) 7. ,

Member of the National Group of the Permian and Triassic (gmpt)

Scientific committee member of the fifth meeting (2006) national group of the Permian and Triassic (Gmpt)

10.Scientific committee member of the sixth meeting (2008) of National Group of the Permian and

Triassic (Gmpt)

11.Coordinator of cooperation dottorato di ricerca " *Evolution Geologica Di Tipo Di Orogeni Mediterraneo* " between the University of Catania and University Abdelmalek Essaadi 2004-2007.

12.Member of the organizing committee of the workshop thank fst tangier ; entitled " *Diagnosis of the state of the coastal environment in morocco; balance of work in the north* "(6 and 7 June 1998) .

13.PCRM member (center of excellence in research mining) at the faculty of sciences Meknes

14.Active member of MAPG (Moroccan Association Of Petroleum Geologists)

IX- RESEARCH ACTIVITIES WITHIN EUROPEAN COLLABORATIVE RESEARCH PROJECTS

Project Title : « *Eta e caratteri dei depositi tipo « Verrucano » dall'Apennino Settentrionale alle Cordigliere Betiche : implicazione per l'evoluzione paleogeografica et strutturale delle catene Alpine del Mediterraneo centro-occidentale* ».

“Age and characteristics of the deposits Verrucano deviation from the Northern Apennines to the Betic Cordilleras : consequences for the palaeogeographic and structural evolution of the central - western Mediterranean Alpine Chains”.

PROJECT: COFIN-MURST (Italy, Spain, Morocco).

Funded by : Ministry of University and Research - Italy.

Participants: AbdelMalek Essaadi University-Morocco , Calabria University -Italy , Basilicata University -Italy , Siena University- Italy, Carlo Bo University- Italy , Granada University-Spain, Alicante University-Spain.

Duration: 2000 January - December 2004 (4 years).

Found amount: 300.000 Euro.

Coordinator researcher: Prof. Vincenzo Perrone.

Number of Researchers: 19.

Project Title : “*Palaeogeographic Palaeotectonic and Evolution of the Circum- Mediterranean Orogenic Belts*”.

PROJECT: MIUR - Ex60 % (Italy, Spain, Morocco).

Funded by: Ministry of University and Research - Italy

Participants: AbdelMalek Essaadi University-Morocco , Calabria University -Italy , Basilicata University -Italy , Siena University- Italy, Carlo Bo University- Italy , Granada University-Spain.

PROJECT: COFIN-MURST (Italy, Spain, Morocco). **Duration:** January 2001 - December 2005 (4 years). **Found amount:** 300.000 Euro.

Coordinator researcher: Salvatore Critelli.

2- **Project Title :** “*Relationships between Tectonic Accretion , Volcanism and Clastic Sedimentation Within the Circum- Mediterranean Orogenic Belts*”

PROJECT: MIUR - ex60% (Italy, Spain, Morocco). Funded by: Ministry of University and Research – Italy.

Participants: AbdelMalek Essaadi University-Morocco , Calabria University -Italy , Basilicata University -Italy , Siena University- Italy, Carlo Bo University- Italy , Granada University-Spain, Alicante University-Spain.

Duration: January 2006 - December 2009 (3 years).

Found amount: 300.000 Euro.

Coordinator researcher: Prof. Salvatore Critelli.

Project Title : *"The Cenozoic clastic sedimentation Within the circum- Mediterranean orogenic belts : implications for palaeogeographic and palaeotectonic evolution"*

PROJECT : MIUR - PRIN 2006.04.8397.

Funded by: Ministry of University and Research – Italy.

Participants: AbdelMalek Essaadi University-Morocco , Calabria University -Italy , Basilicata University -Italy , Siena University- Italy, Carlo Bo University- Italy , Granada University-Spain, Alicante University-Spain.

Duration: January 2006 - December 2008 (2 years).

Found amount: 300.000 Euro.

Coordinator researcher: Prof. Salvatore Critelli.

Project Title : *« La sedimentation clastica cenozoica del ramo meridionale della Tetide nell'Arco Betico-Rifano et nell'Apennino settentrionale: implicazione per l'evoluzione paleogeografica e paleotettonica del Mediterraneo centro-occidentale».*

« The Cenozoic clastic sedimentation of the southern branch of the Tethys in the Betic - Rif Arc and in the northern Apennines: implication for the paleogeographic evolution and palaeotectonics of the central-western Mediterranean ».

PROJECT: COFIN-MURST (DM n°: 582/2006 prot. 2006048397-004) (Italy, Spain, Morocco).

Funded by: Ministry of University and Research – Italy.

Participants: AbdelMalek Essaadi University-Morocco , Calabria University -Italy , Basilicata University -Italy , Siena University- Italy, Carlo Bo University- Italy , Granada University-Spain, Alicante University-Spain.

Duration: January 2006 - Decembre 2009 (3 years).

Found amount: 100.000 EURO.

Coordinator researcher: Prof. Salvatore Critelli.

Number of researchers: 19.

Project Title : *« Évaluation de dégradation, méthodes de sauvegarde et techniques de restauration des matériaux rocheux des sites archéologiques et monumentaux situés dans les zones côtières du Maroc et de la Sicile».*

"Degradation assessment, Backup methods and techniques for restoration of rocky materials and monumental archaeological sites in coastal areas of Morocco and Sicily".

Funded by : Ministry of Foreign Affairs (Italy) and the Ministry of Higher Education (Morocco).

Project: Programme de Coopération Maroc/Italien matière de Recherche Scientifique 2004-

2008 (Cooperation Programme Moroccan / Italian for Scientific Research 2004-2008). Participants: University "AbdelMalek Essaadi Morocco, Catania University-Italy. **Duration:** 2004 January-December 2008 (4 years).

Found amount: 12.000 Euros.

Coordinators researchers: Prof. Zaghloul Mohamed Najib & Prof. Diego Puglisi.

Number of Researchers: 12.

Project Title : « *Ricostruzioni paleogeografiche Eo-Oligo-Mioceniche delle Maghrebidi e nei Carpazi orientali* ».

« *Paleogeografic reconstructions of Eo-Oligo-Miocene of Maghrebids and the eastern Carpathians* ».

Funded by: Ateneo University (P.R. A.)-Italy.

Participants: University AbdelMalek Essaadi-Maroc, Catania University-Italy and Alexander Cuza University-Romany.

Coordinator researcher: Prof. Diego Puglisi.

Project Title : *Géomorphologie, Sédimentologie et Pétrologie des Travertins Quaternaires Continentaux (Régions de Tétouan-Maroc et Tavira-Loulé-Portugal) : Implications sur les changements climatiques au cours de l'Holocène de part et d'autre de détroit de Gibraltar*

Project: convention de cooperation CNRST-Maroc / FCT-Portugal -

Participants: University "AbdelMalek Essaadi Morocco, University-Evor Portugal

Duration: 2013-2015

Coordinator researchers: Prof.Aboumaria-Khadija- and Prof Carlos Alexandre da Silva

Project Title : « *L'impact des catastrophes naturelles géomarines sur les zones littorales Atlantique et Méditerranéenne marocaines : Une approche pluridisciplinaire, de la géodynamique au changement climatique (ICAN-GETMAR)* »

Project: CNRST dans le cadre des domaines prioritaires de la recherche scientifique et du développement technologique

Participants: University AbdelMalek Essaadi Morocco, Napoli University-Italy, Institut Portugais de Mer et de l'Atmosphère (IPMA) (Portugal), Strasbourg University France

Duration: 3 years (accepted in 2013) started 2016

Coordinators researcher: Prof.. Zaghloul Mohamed Najib

X- FELLOWSHIP AND RESEARCH MISSION

FRANCE

SCHOLARSHIP GRANT FROM REMER (**National Network for the Marine Geosciences**) PROJECT

From 01/09/1997 to 30/ 09/ 1997 Scientific stay at Paris in the Pierre and Marie Curie University

Bibliography on turbidites sand- clastic sedimentation (deep sea fan)

From 24/04/1998 to 05/10/1998 : Stage LODYC Laboratory (Pierre and Marie Curie University)

and the Laboratory of Physical Oceanography (Natural History Museum of Paris) .

UNITED KINGDOM

Fellowship and Training course in the Department of Geology at the University of Durham 26-5-2003 to 24-06-2003 under the direction of Professor Maurice E. Tucker on quantitative analysis in sedimentary petrography and cathodoluminescence techniques associated technical applied to Paleogene-Neogene and cretaceous hybrids sandstones (calcareous arenites) and siliciclastic sandstones of the Rif Flysch Basin.

ITALY

Fellowship researcher in the Department of Geology at the University of Catania (Italy) at the Department of Geology under the direction of Professor Diego Puglisi : Missions geological research on Miocene flysch trace of Nebrodi and Peloritani in East Sicily 04 / 12/1999 to 18/ 12/1999 ,

Scientific sojourn at the Carl-Bo University of Urbino (June 2000) : The trip was funded by the Research Fund of Professor Vincenzo Perrone Professor at the geology Institute from the University of Urbino,

to realize four sheet (100 Km²) of geological map at 1/ 10000 scale of the External units of the northern Apennines in the Marche region from April 26 to July 6, 2002 and Founded by Geological Institute of the University of Urbino (Italy) under the direction of Professor Francesco Guerrera (Project Manager of 1/50 000 geological map) (1/ 10000 scale realized sheets are: **Casa Grande, Ripe, Monte Alba and Sinegalia**). The sheets were validated and integrated within the national Italian geological mapping project (CARG project).

Field trip for ten days in the northern and southern Apennines and in the northern Calabria during the period May to July 2002 with Professor Vincenzo Perrone , Director of the Geological Institute of the University of Urbino

Training Course at the University Federico II (Napoli) from 26 June to 4 July 2002 under the direction of Professor Paola De Capoa on determination and technical preparation of nanofossils for biostratigraphic issues.

Participation in the field trip in northern Calabria and the northern Apennines 6 to 16 June 2003 supervised by Professors : Prof. G. Bonardi (University of Napoli) Pr Iannace A. (University of Naples) , Prof. Decandia FA (University of Seina) , Prof. G. Molli (University of Pisa) , Prof. V. PERRONE (Urbino University) ; under the COFIN - MURST Project "*Età e dei caratteri depositi di tipo Verrucano dall'Appennino Settentrionale go Cordigliere Betiche : implicazioni per the paleogeografica strutturale e delle del Mediterraneo Catania Alpine centro - western evoluzione* "

PORTUGAL

Training course of 20 days (10 to 30 Mai **2012**) in 2D-3D interpretation of seismic profiles by using PETREL software package at the Aveiro University-Portugal under the supervision Luis Menezes Pinheiro Associate Professor, Marine Geology and Geophysics Dep. Geociências and CESAM, Universidade de Aveiro-Portugal.

ARABIAN SAUDITE

20 days (7 to 30 Junary **2016**) Field trip of geological mapping with undergraduate student in ABLA BASIN (Arabian Sheild)

XI- CONFERENCES

- **invited Speaker to the University of Catania (Italy)** by Professor Diego Puglisi . Department of Earth Sciences , Conference Title : " Structure and geodynamic context of the Internal Betico - Rifian areas falling on the Paleogene and Neogene Times" . Catania , Sicily , Italy, Dec. 5, 1999 .
- **Invited Speaker by the University of Bari (Italy)** by Professor Franco Loiacono. Department of Geology and Geophysics , Title of the Conference : " Structuring and geodynamic context of the Internal Betico - Rifian areas falling on the Paleogene and Neogene Times" . Bari - Italy, 10 December 1999.
- **Invited Speaker to the University of Napoli (Italy)** by Professor Glauco Bonardi. Department of Earth Sciences , Conference Title : " Oligo - Miocene siliciclastic " Flysch type " Within Fold -belt sedimentation basins Top , Piggy -back basins and foredeep Basins of the Rif Chain » Napoli - Italy, July 20, 2003 .
- **Invited Speaker to the University of Durham (UK)** by Prof. Maurice E. Tucker Department of Geological Sciences , University of Durham Title :: Conference " The evolution of the Tertiary basins Mediteranean " Durham - Great Britain May 10, 2003
- **Invited Speaker to the University of Catania (Italy)** by Professor Diego Puglisi . Department of Earth Sciences , Title of the Conference : "The Early Mezosoic nickname verrucano continental redbeds of the internal Rif chain (internal Rif , Morocco)." Sedimentary processes , depositional systems and palinspastic reconstruction " Catania , Sicily , Italy, 10. May 2006
- **Invited Speaker to the University of Aveiro (Portugal)** by Prof. Luis Menezes Pinheiro . Department geosciences and CESAM , University of Aveiro , Portugal , Title of the Conference : "The Triassic redbeds of the rif the belt (Northern Rif, Morocco) : Aveiro , Portugal, May 25, 2012

XII- SUPERVISION OF SCIENTIFIQUE WORKS SUPERVISING MASTER HIGHER EDUCATION DIPLOMA

- **Hajar EL TALIBI; 4 October 2012 (Master Thesis):** *Sedimentology and petrology of the Massylian Albian-Aptian siliciclastic Flysch of Chouamat Nappe (Central Rif, Morocco): Implication for provenance, diagenetic processes andgeodynamic setting*

- **Hanane REDDAD 2006 (DESA Thesis):** *Caractérisation Pétro-Sédimentaire, Provenance Et Reconstruction Du Modèle De Drainage Des Sources D'apport Des Sédiments Actuels Du Rif Septentrional : Cas Des Dépôts Fluviatiles Et Côtiers Entre Ras-Mazari Et Jebha (Tétouan - Novembre 2006)*
 - **Said EL MOUSSAOUI; October 3rd, 2013 (Master Thesis):** *Numerical simulation of tsunami for the prevention of natural disasters : The Atlantic coast Tangier-Assilah (northern Morocco)*
 - **Omar BENZAOUZ; Octobre 10th, 2011 (Master Thesis):** *Gas Hydrate Stability Domains In The Portuguese Margin, The Gulf Of Cadiz And The West Alboran Sea*
 - **Amine ZERDEB; 16-September 2014 (Master Thesis):** *Sedimentary evolution of fluvial modern deposits in the Mediterranean northern coastal watershed of the Rif belt: An overview on Earth Processes of continental –ocean sediment flux transfer*
 - **Nizar BEN-AZZOUZ; 13 July 2015:** *Recent evolution of fluvial and marine deposits of Sado Estuary (Setubal, Portugal): New insight from high resolution seismic Interpretation*
 - **Anass ABASSI; 14 July 2015:** *Geomorphology and Sedimentology of Holocene calcareous tufas and travertines (tetouan; northern Rif, Morocco): sedimentary processes and implication for depositional paleoenvironments*
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PHD THESIS SUPERVISION DEFENDED

PhD Thesis of Miss GIOCONDA LISA GIGLIUTO in sedimentary geology with collaboration Prof. Diego Puglisi at the University of Catania within Doctoral Formation titled "Geologica Evoluzione Di Di Orogini Tipo Mediterraneo" under Coordination Professor. Fabio LENTINI -University of Catania. **Achieved in November 2005**

PhD Thesis of Mrs Pr KHADIJA ABOUMARIA Professor at the Tangier Faculty of Sciences and Techniques - University Abdelmalek Essaâd in collaboration with Prof. Mhamed ABERKANE University Mohammed V - Rabat, on the theme.. " *petrologic and sedimentologic, Characterization and Quaternary Stratigraphic Of Quaternary Marine Formations Between Assila and Ceuta: Origin And paleogeographic implications.* **Achieved in 2007**

PhD Thesis of Miss HAJAR EL TALIBI Evidences of Tsunamis deposits along the Moroccan Atlantic Coast (Tangier – Azilah) **achieved in 12 April 2014**

PhD Thesis of EL OUARAGLI BILAL "Kinematics and Miocene structuring Maghrebian and Appeninic Flyschs: geodynamic setting and processes of the genesis of circum- Mediterranean belts". **achieved in 15 Mai 2017**

PHD THESIS SUPERVISION IN PROGRESS

Supervisor of the PhD Thesis of EL MOUSSAOUI SAID: "Tsunami-System Interaction coastline, transportation and sedimentation of Tsunamites and morphological changes associated: Digital Approach". **in progress**

Supervisor of the PhD Thesis of GUARMOUCH KARIM: "3D/4D Modeling of the urban evolution of the Medina of Tetouan from VX to XX century (Morocco): Application of New Technologies for the management and enhancement of the Universal Cultural Heritage UNESCO". **in progress**

Supervisor of the PhD Thesis ZERDEB AMINE : *Shear zones kinematics in the front of the Rif fold and thrust belt and Maghrebian Flysch Nappes of the Northern Rif during Neogene: Geodynamic setting and Gibraltar arc articulation*

PHD THESIS CO-SUPERVISION

Co- supervisor of the PhD Thesis of the PhD Thesis **ABASSI ANASS** : *Sedimentary evolution of Siliciclastic Neogene Numidian Sequence (Maghrebian Flysch Basin, Northern Rif, Morocco)* **in progress**

Co- supervisor KASIMI Zhour : *Petrology and Provenance of Siliciclastic sandstones of the inner Prerif Domain (External Rif, Northern Morocco) : Geodynamic setting and paleogeographic implications* **in progress**

XIII-PARTICIPATION AND / OR CONTRIBUTION IN THE ORGANIZATION OF SCIENTIFIC EVENTS

Member of the organizing committee of the REMER workshop FST Tangier; entitled “*Diagnosis of the state of the art of the coastal environment in morocco; balance of work in the north*” (6 and 7 June 1998).

Member of the scientific committee GMPT group for event 2006.

Member of the scientific committee GMPT group for 2008.

National coordinator of the 6th Meeting of GMPT in Tangier in 2008.

Member of the scientific committee: "first MAPG international convention and exhibition conference Marrakech 28 October 2007".

XIV-SCIENTIFIC PUBLICATIONS CHAPTER IN AN ISI- BOOK:

Chalouan A., Benmakhlouf M., Mouhir L Ouazani Touhami A., Saji R , Zaghoul M.N. (1995): Les étapes tectoniques de structuration alpine du Rif interne (Maroc). VI Coloquio internacional sobre el Enlace Fijo del Estrecho de Gibraltar SECEG. S. A. Madrid-Espagne 1996, Tome II Ed. S.E.C.G., S. A. ISBN 84-921497-2-8 Deposito legal M20890

Perrone V., Martín-Algarra A., Critelli S., Decandia F.A., D’errico M., Estevez A., Iannace A., Lazzarotto A., Martín-Martín M., Martín-Rojas I., Mazzoli S., Messina A., Mongelli G., Vitale S., Zaghoul M.N. (2006) : “Verrucano” and “Pseudoverrucano” in the central-western Mediterranean Alpine chains: palaeogeographic evolution and geodynamic significance. In: A. Chalouan & G. Moratti (eds) “Geology and Active Tectonics of the Western Mediterranean Region and North Africa”. Geol. Soc. of London Special Publ., 262, 1-43. ISBN 1-86239-202-1.

INTERNATIONAL INDEXED ISI-JOURNALS & REVIEWS

Abad, M., Rodríguez-Vidal, J. , Aboumaria, K. , Zaghoul, M.N., Cáceres, L.M., Ruiz, F., Martínez-Aguirre, A., Izquierdo, T., Chamorro, S. (2013): Evidence of MIS 5 sea-level highstands in Gebel Mousa coast (Strait of Gibraltar, North of Africa). Geomorphology, vol. 182, pp. 133–146, 2013.

Aboumaria K., Zaghoul M.N., Battaglia M., Loiacono F., Puglisi D. & Aberkan M. (2009): Sedimentary processes, provenance and depositional system of Quaternary marine formations from the

Tangier Peninsula (Northern Rif; Morocco) *Journal of African Earth Sciences* 55, 1-2, 10-35

Aboumaria, K., Gigliuto, L.G., Puglisi, D., **Zaghloul, M.N.**, Aberkan, M., Di Staso, A. (2006): Quaternary marine terraces on the southern side of the Gibraltar strait and on the Northern Atlantic Coast of Morocco: Lithostratigraphy, provenance and drainage patterns. *Bollettino della Societa Geologica Italiana*, vol. 125, no. 1, pp. 93–104, 2006.

Aboumaria, K., **Zaghloul, M.N.**, Battaglia, M., Loiacono, F., Puglisi, D., Aberkan, M. (2009): Sedimentary processes and provenance of Quaternary marine formations from the Tangier Peninsula (Northern Rif, Morocco). *Journal of African Earth Sciences*, vol. 55, no. 1-2, pp. 10–35, 2009.

Critelli, S., Mongelli, G., Perri, F., Martín-Algarra, A., Martín-Martín, M., Perrone, V., Dominici, R., Sonnino, M., **Zaghloul, M.N.** (2008): Compositional and geochemical signatures for the sedimentary evolution of the middle triassic-lower jurassic continental redbeds from western-central mediterranean alpine chains. *Journal of Geology*, vol. 116, no. 4, pp. 375–386.

De Capoa, P., Di Staso, A., Perrone, V., **Zaghloul, M.N.** (2007): The age of the foredeep sedimentation in the Betic-Rifian Mauretanian Units: A major constraint for the reconstruction of the tectonic evolution of the Gibraltar Arc. *Comptes Rendus - Geoscience*, vol. 339, no. 2, pp. 161–170, 2007.

De Capoa, P., D'errico, M., Di Staso, A., Perrone, V., Somma, R., **Zaghloul, M.N.** (2013) : Biostratigraphic constraints for the paleogeographic and tectonic evolution of the alpine central- western mediterranean orogenic belt (betic, maghrebien and apenninic chains) *Rendiconti Online Societa Geologica Italiana*, vol. 25, pp. 43–63, 2013.

Di Staso, A., Perrone, V., Perrotta, S., **Zaghloul, M.N.**, Durand-Delga, M (2010): Stratigraphy, age and petrography of the Beni Issef successions (External Rif; Morocco): Insights for the evolution of the Maghrebien Chain Stratigraphie, âge et pétrographie des successions des Beni Issef (Rif Externe; Maroc): conséquences pour l'évolution de la Chaîne Maghrébienne. *Comptes Rendus - Geoscience*, vol. 342, no. 9, pp. 718–730, 2010.

El Talibi H., **Zaghloul M. N.**, Perri F., Aboumaria K., Rossi A., El Moussaoui S. (2014): Sedimentary evolution of the siliciclastic Aptian-Albian Massylian flysch of the Chouamat Nappe (central Rif, Morocco), *Journal of African Earth Sciences*, vol. 100, pp. 554–568.

10. Gigliuto, L.G., Ouazani-Touhami, A., Puglisi, D., Puglisi, G., **Zaghloul, M.N.** (2004): Petrography and geochemistry of granitoid pebbles from the oligocene-miocene deposits of the internal Rifian Chain (Morocco): A possible new hypothesis of provenance and paleogeographical implications *Geologica Carpathica*, vol. 55, no. 3, pp. 261–272, 2004.

Perrone, V., Martín-Algarra, A., Critelli, S., Decandia, F.A., D'errico, M., Estevez, A., Iannace, A., Lazzarotto, A., Martín-Martín, M., Martín-Rojas, I., Mazzoli, S., Messina, A., Mongelli, G., Vitale, S., **Zaghloul, M.N.** (2006): 'Verrucano' and 'Pseudoverrucano' in the Central-Western Mediterranean Alpine Chains: Palaeogeographical evolution and geodynamic significance. *Geological Society Special Publication*, vol. 262, pp. 1–43, 2006.

Vitale S., **Zaghloul M.N.**, El Ouaragli B., Tramparulo F.D., Ciarcia S. (2015): Polyphase deformation of the Dorsale Calcaire Complex and the Maghrebien Flysch Basin Units in the Jebha area (Central Rif, Morocco): New insights into the Miocene tectonic evolution of the Central Rif belt, *Journal of Geodynamics*, vol. 90, pp. 14–31.

Vitale S., **Zaghloul M.N.**, El Ouaragli B., Tramparulo F.D., El Ouaragli B. (2014): Deformation characterization of a regional thrust zone in the northern Rif (Chefchaouen, Morocco), *Journal of Geodynamics*, vol. 77, pp. 22–38.

Vitale S., **Zaghloul M.N.**, El Ouaragli B., Tramparulo F.D., El Ouaragli B., Ciarcia S. (2014): From Jurassic extension to Miocene shortening: An example of polyphasic deformation in the external Dorsale

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IXX-INTERNATIONALPARTNERSHIP

Coordinator of the Partnership Agreement between the FST of Tanger and the Centre for Geotechnology, University of Siena 2004-2007

Coordinator of the Partnership Agreement between the University AbdelMalek Essaadi and the University of Sannio Benevente Since 2015

XX- CIVIL SOCIETY

- Chairman of the Al Kindi Foundation For Scientific and Social Research
- Jointly project carried out by the Al Kindi Foundation and funded by the Spanish Agency for Cooperation and collaboration with Medicus Mundu Andalusia-Tanger for the period 2006-2007 entitled "Health Promotion of Women and Children Val Fleuri and Casabarata - Wilaya of Tanger. ":

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XXI- SCIENTIFIC AWARDS & RANKING

Award of Honorable Excellence for scientific research by the University AbdelMalek Essaadi in 2009

Top 15 Moroccan geologists for the Period 1999-2013: The Fifth Rank at the National Scale

http://barometre.imist.ma/index.php?option=com_content&view=article&id=27&Itemid=148

Top 15 Moroccan geologists for the Period 2009-2013: The Second Rank at the National Scale

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