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Foreword

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## **Comptes Rendus Geoscience**

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## <sup>2</sup> Tectonics of the Levant fault system

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4 5 In June 2013, for the second time, an international 6 workshop dedicated to the tectonics of the Levant fault 7 system and the Arabic plate was held in Paris. During two 8 days, this meeting gathered researchers from 19 institu-9 tions and 12 countries, with 24 presentations. During this 10 meeting, a large variety of topics were addressed, ranging 11 from new insights into the geodynamics of the Red Sea to 12 earthquake history along the Dead Sea fault. A key point of 13 this meeting was actually to gather contributions focused 14 on the same object, here the Levant fault system, but with 15 different perspectives, to foster new collaborations and 16 research projects. In line with this idea, several presenta-17 tions were actually dealing with issues related to the 18 palaeoclimate of this specific region, engineering issues 19 about earthquake destructions, or the impact of the Dead 20 Sea active tectonics on the evolution of hominins, aside 21 from general tectonics.

At the end of this meeting, the journal *Comptes rendus Geoscience* offered to publish some of the contributions,
after a classical peer-review process. As a result, five
contributions are presented in this issue, giving a sense of
the variety of the topics addressed during this meeting.

27 The first contribution, by Frédéric Masson et al., 28 describes a new velocity field determined in the region 29 located south of the Dead Sea from repeated GPS surveys. 30 Although their results are consistent with previously 31 published GPS measurements, increased resolution allows 32 the authors to address the matter of locking depth, critical 33 to earthquake hazard assessment, in more detail, because 34 the different surveys encompass a longer time period.

Then two contributions address issues related to the
record of historical earthquakes through the destruction of
historical buildings. Yacine BenJelloun et al. document
details of the material used to build, and potentially
rebuild after an earthquake, an aqueduct in Turkey, at the

northern end of the Dead Sea fault. Miklos Kazmer et al., along the same line, report damage to several buildings along the Ghab basin, in Syria, which are attributed to some historical earthquakes. Details of the destructions and damage in a nearby stone quarry are given, which confirm the earthquake origin of destructions.

A contribution by Yossi Mart et al. discusses the geodynamics of the Dead Sea fault to emphasize its extensional component. Despite the fact that they do not necessarily support the most consensual view of the regional geodynamics, Mart and his colleagues present solid field evidence that need to be incorporated into the regional geodynamical models.

The last contribution, by Maud Hélène Devès et al., addresses the interaction between evolving landscapes and the evolution of hominins in East Africa and in the Levant region. They point how the distribution of key minerals in soil, essential to the growth of a mega fauna in the region, was driving the hominins' survival strategies in these areas.

Eventually, these five contributions give a nice sampling of all topics discussed during the 2013 "Levant meeting", and are solid scientific contributions to the field of earth sciences.

Yann Klinger, as the organizer of the "Levant fault" meeting, wants to thank Vincent Courtillot, for having offered to publish some of the results presented during the meeting in the *Comptes rendus Geoscience*.

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