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Towards a comprehensive view of planet formation: The role of the host star's metallicity.

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The role of the host star's metallicity in planet formation has been largely discussed in the framework of the so-called gas-giant/planet metallicity correlation. However, previous works are mainly focused on particular kinds of stars or planets. In this contribution we aim to put together all the pieces of the planet formation puzzle by analysing in the most homogeneous possible way a diverse sample of stars in terms of mass (from main sequence to giants) and spectral type (from M dwarfs to early-F) showing all the possible outcomes of the planet formation process (from planetesimals to brown dwarfs and low-mass binaries).

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