

SUPPLEMENTARY MATERIAL

*(First part)*

to the paper

Age and origin of the gabbros in the Jilotlán pluton, Jalisco:  
primitive magmatic rocks in the southern part of the Guerrero terrane

by

**Daniel Villanueva-Lascurain, Gabriela Solís-Pichardo, Peter Schaaf,  
Teodoro Hernández-Treviño, Josué Salazar-Juárez, and Pedro Corona-Chávez**

published in

*Revista Mexicana de Ciencias Geológicas, 2016, 33(1), p. 136-156.*

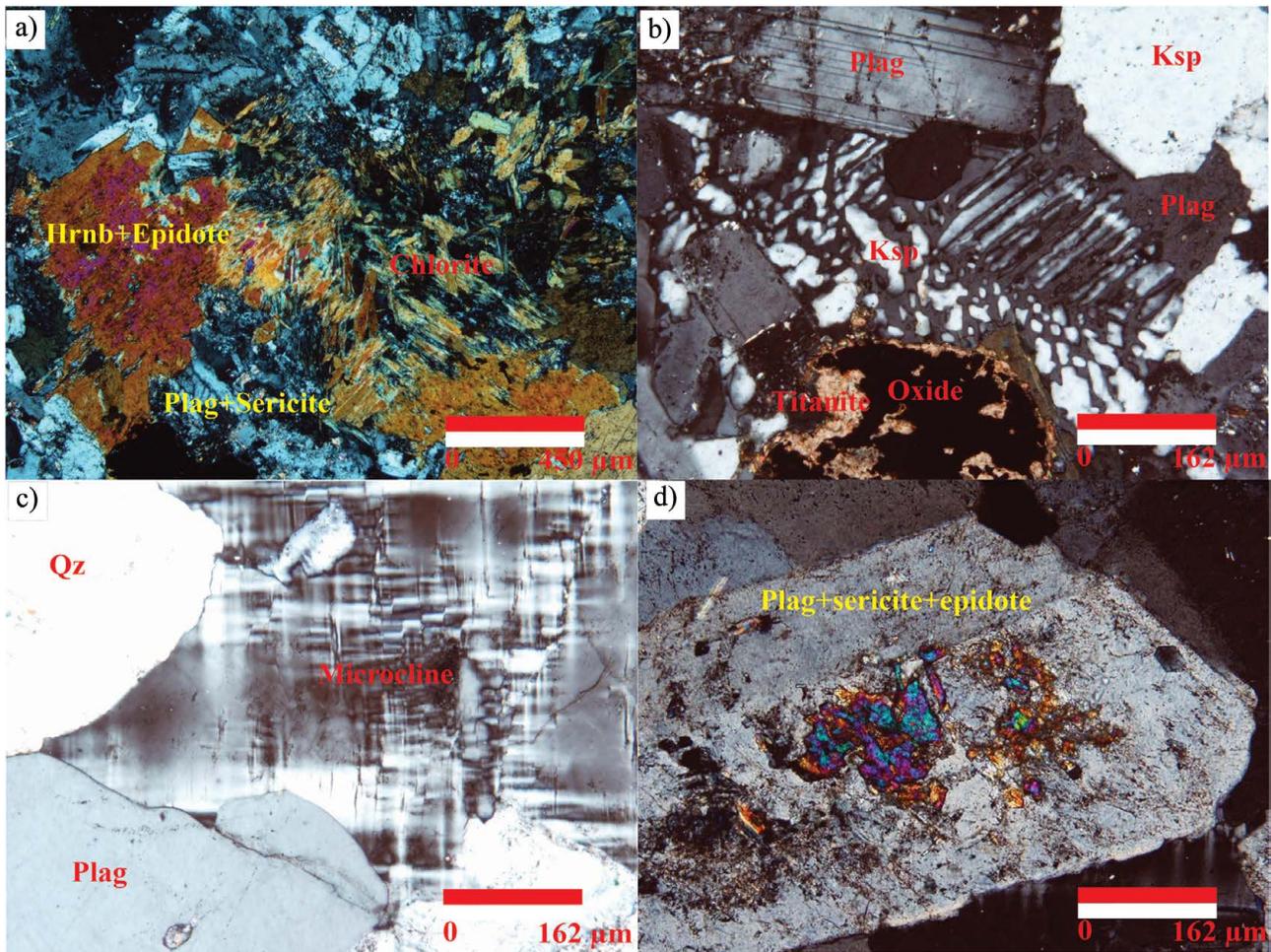


Figure A1. a) JLT-12, crossed nicols, 4X. Hornblende (Hrnb) altered to epidote and chlorite, sericitized plagioclase (Plag). b) JLT-12, crossed nicols, 10X. Antiperthitic texture, an oxide surrounded by titanite. There is also plagioclase and potassic feldspar (Ksp). c) JLT-23, crossed nicols, 10X. Microcline surrounded by quartz (Qz) and plagioclase (Plag). d) JLT-23, crossed nicols, 10X. A subhedral plagioclase with sericite and epidote alteration.

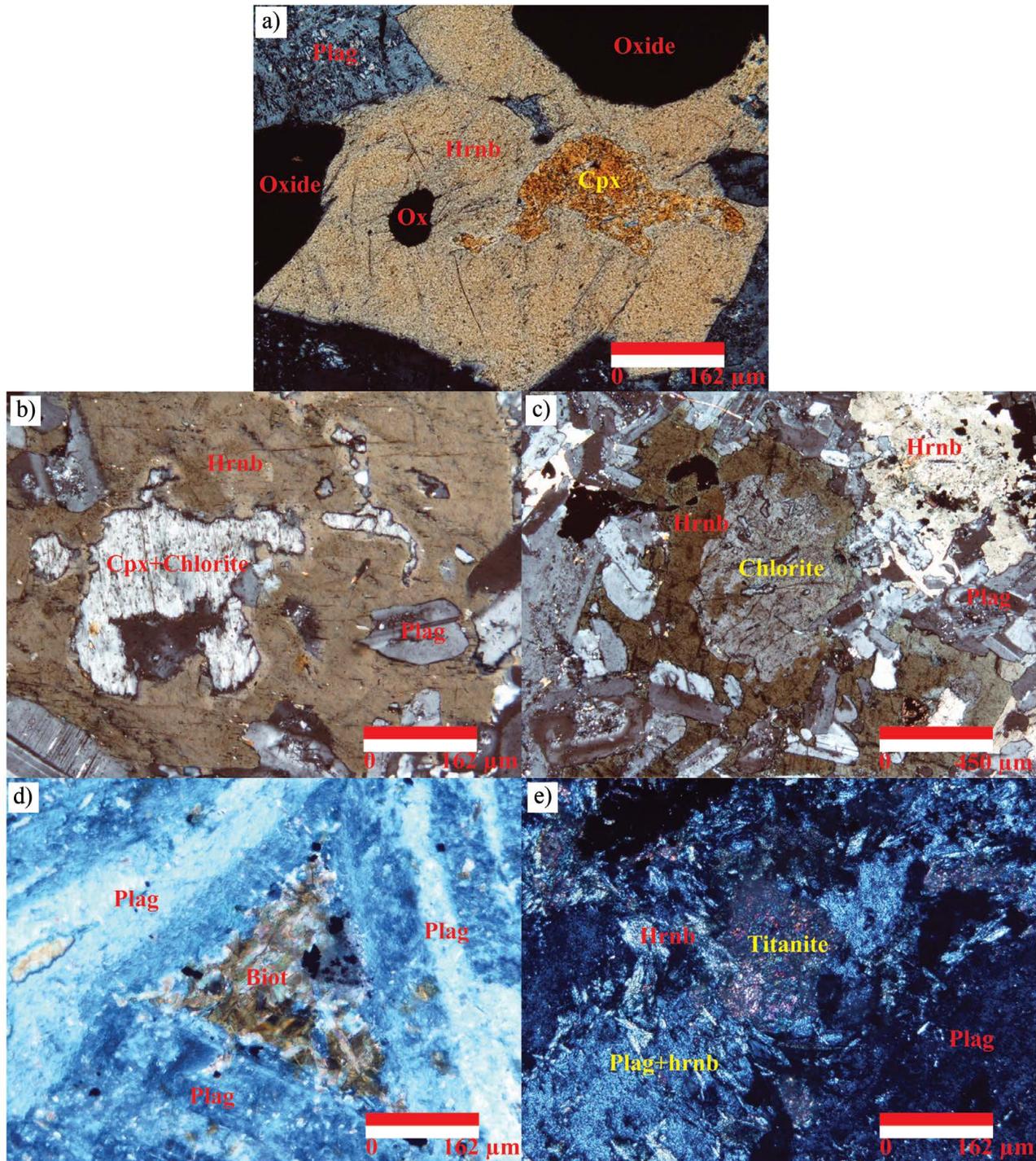


Figure A2. a) JLT-32, crossed nicols, 10X. Hornblende crystal (Hrnb) surrounding a clinopyroxene (Cpx) crystal. Oxides (Ox) and plagioclase (Plag) crystals were also observed. b) JLT-12, crossed nicols, 10X. Plagioclase (Plag) and probable chloritized clinopyroxene (Cpx) immersed in hornblende (Hrnb). c) JLT-12, crossed nicols, 4X. Chloritized hornblende and plagioclase surrounded in another hornblende. Plagioclase crystals are filling bays of the hornblende. d) JLT-45, crossed nicols, 10X. Conoscopic light, a biotite cummulate (Biot) surrounded by three plagioclase (Plag) phenocrysts. e) JLT-45, crossed nicols, 10X. Titanite crystal surrounded by hornblende (Hrnb) and plagioclase (Plag).

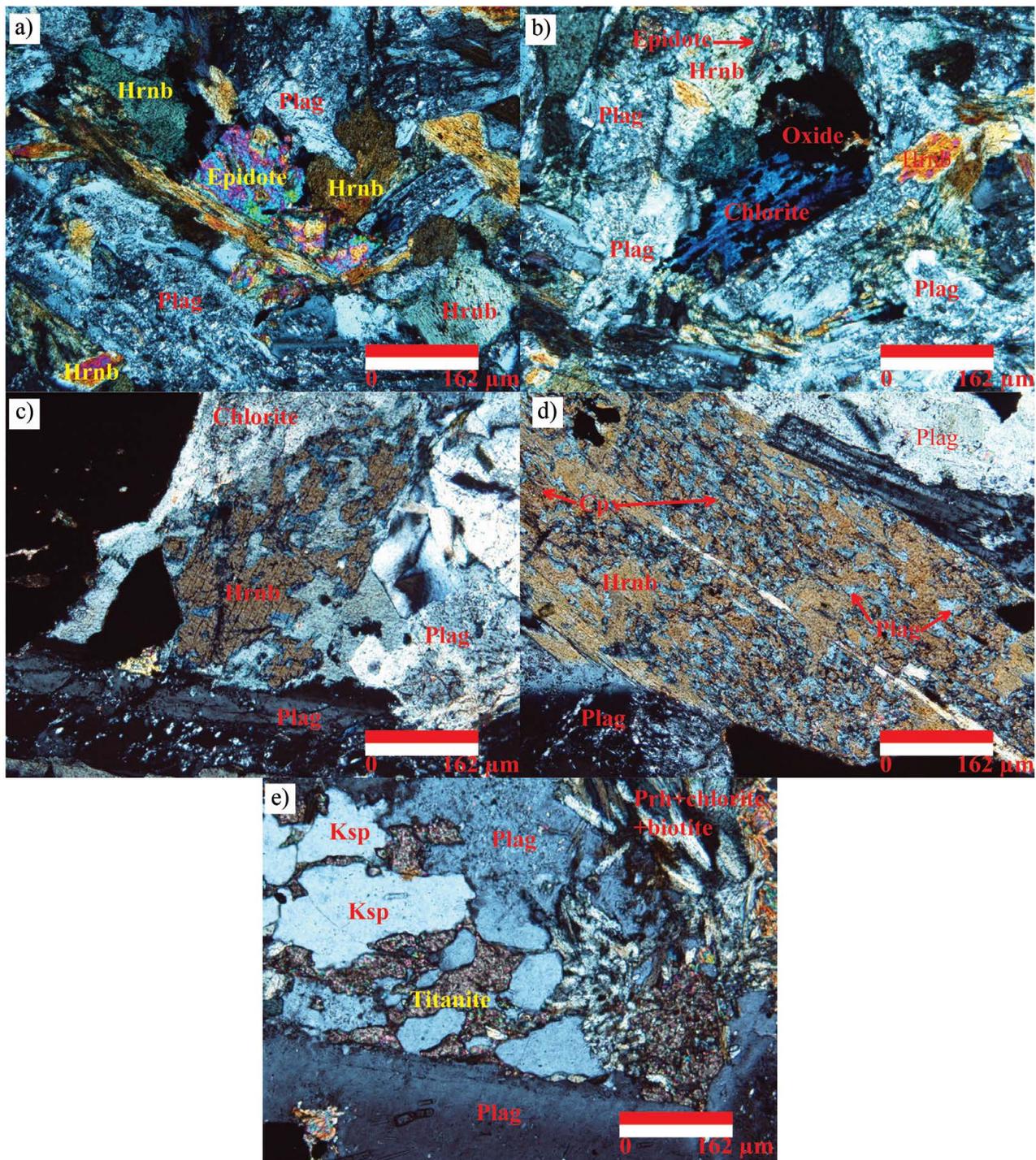


Figure A3. a) JLT-30-2, crossed nicols, 10X. Green and black hornblende (Hrnb) with epidote. Plagioclase (Plag) are sericitized. b) JLT-30-2, crossed nicols, 10X. Possibly hornblende surrounding a skeletal oxide that has been altered to chlorite. There is also plagioclase and hornblende. c) JLT-32, crossed nicols, 10X. Hornblende (Hrnb) crystal partially replaced by chlorite. d) JLT-32, crossed nicols, 10X. Clinopyroxene (Cpx) partially replaced by hornblende, both of which present plagioclase exsolution. e) JLT-8A, crossed nicols, 10X. Plagioclase (Plag) in contact with potassic feldspar (Ksp) and surrounded by titanite. There are also prehnite (Prh), chloritized hornblende and biotite crystals.

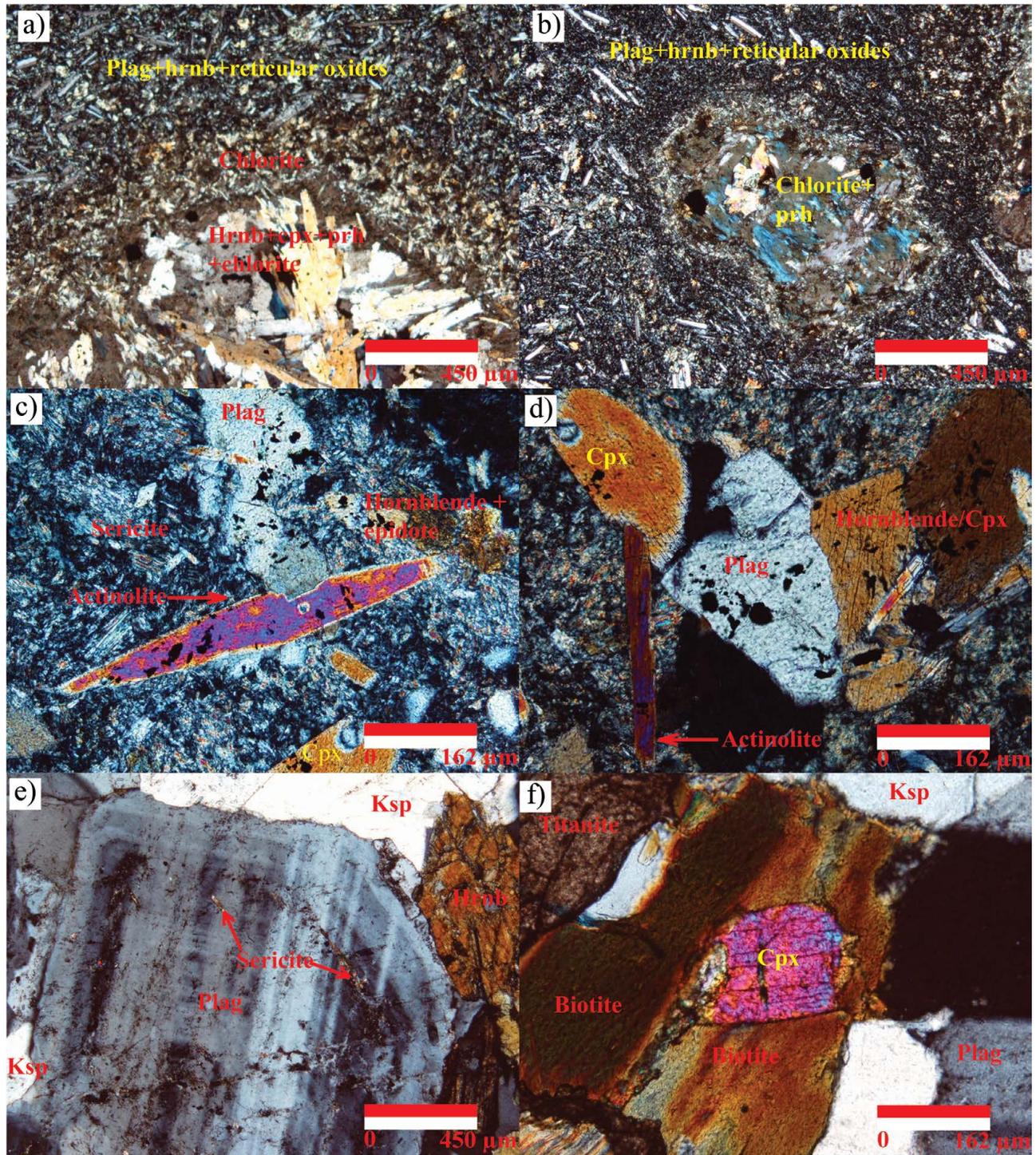


Figure A4. a) JLT-13C, crossed nicols, 4X. A xenolith with hornblende (Hrnb), clinopyroxene (Cpx), prehnite (Phr) and chlorite crystals with a chlorite reaction rim embedded in a plagioclase (Plag), hornblende and reticular oxide matrix. b) JLT-13C, crossed nicols, 4X. Chloritized xenolith with prehnite, embedded in the rocks matrix. c) JLT-13C, crossed nicols, 10X. A xenolith with bipyramidal actinolite, a plagioclase (Plag) phenocrystal, hornblende (Hrnb) and clinopyroxene (Cpx) crystals in the middle of a fine grained sericitized plagioclase, hornblende and oxide rich matrix. d) JLT-13C, crossed nicols, 10X. Plagioclase, clinopyroxene, hornblende, actinolite crystals and oxides in the fine grained plagioclase, hornblende and oxide matrix; producing a cumulo-phyric texture. e) JLT-23, crossed nicols, 4X. Zoned and sericitized plagioclase (Plag), surrounded by hornblende (Hrnb) and potassic feldspar (Ksp). f) JLT-23, crossed nicols, 10X. Clinopyroxene (Cpx) immersed in biotite. There is also plagioclase, potassic feldspar and titanite.

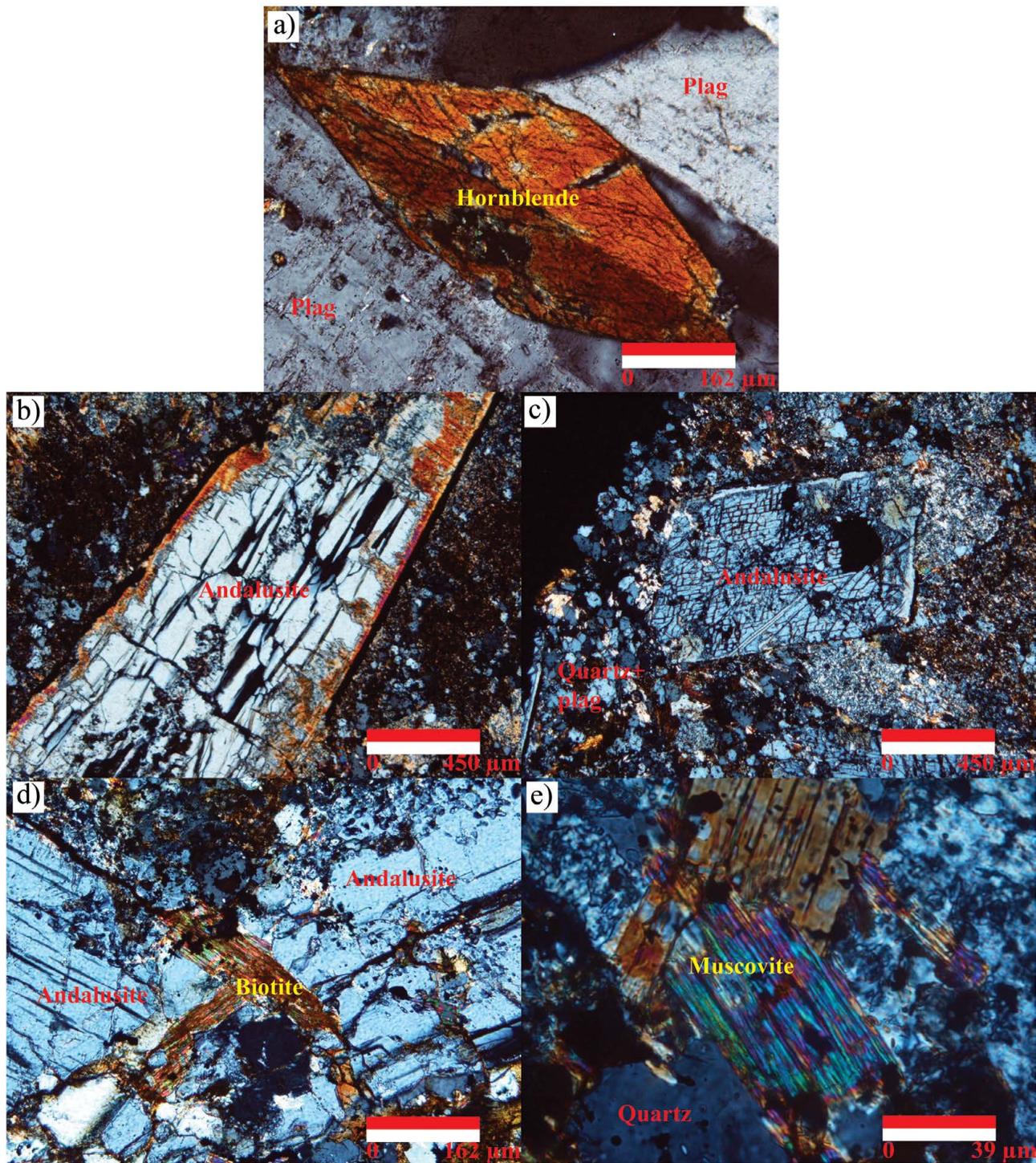


Figure A5. a) JLT-23, crossed nicols, 10X. Twinned hornblende surrounded by plagioclase (Plag) crystals. b) Sample -9-, crossed nicols, 4X. Andalusite determined by electronic microscopy (SEM). Possible amphiboles (Anf) and an opaque mineral (possibly an oxide) are observed at the edges. c) Sample-9-, crossed nicols, 4X. A euhedral andalusite (SEM) with a basal cut surrounded by quartz and plagioclase (Plag). d) Sample -9-, crossed nicols, 10X. Biotite in the middle of two andalusite crystals. e) Sample -9-, crossed nicols, 40X. White mica, possibly muscovite, surrounding a quartz crystal.