



Appendix E Merged chromosome images of ten *Arachis* species after FISH and sequential GISH-FISH. The different color signals in the chromosomes were generated with different probes; white, 5S rDNA labeled with biotin-16-dUTP and detected with fluorescein anti-biotin (the original green signals converted to pseudo white color); red, 45S rDNA labeled with digoxigenin-11-dUTP and detected with anti-digoxigenin-rhodamine; green, telomeric repeats (TTTAGGG)<sub>n</sub> labeled with biotin-16-dUTP and detected with fluorescein anti-biotin; fuchsia, GISH with total genomic DNA of *A. ipaënsis* labeled digoxigenin-11-dUTP and detected with anti-digoxigenin-rhodamine (original red signals converted to pseudo color fuchsia); blue, chromosomes counterstained with DAPI. **a:** *A. batizocoi*; **b:** *A. diogoi*; **c:** *A. hoehnei*; **d:** *A. duranensis*; **e:** Z5297; **f:** *A. ipaënsis*; **g:** *A. stenophylla*; **h:** *A. chiquitana*; **i:** *A. villosa*; **j:** *A. stenosperma*.