

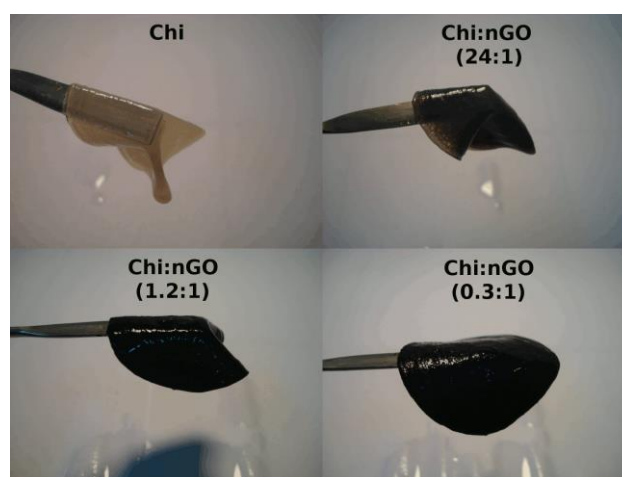
Chitin hybrid material reinforced with graphene oxide nanosheets: Chemical and mechanical characterisation

Joaquín Antonio González,^a María Florencia Mazzobre,^b María Emilia Villanueva,^a Luis Eduardo Díaz^a and Guillermo Javier Copello*^a

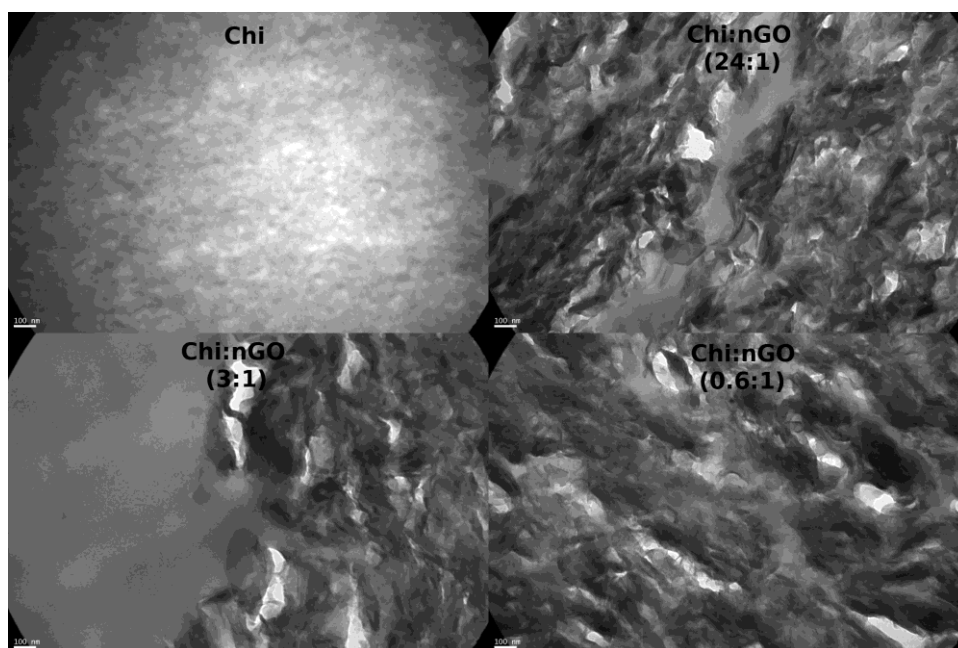
^a Cátedra de Química Analítica Instrumental, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires (UBA), IQUIMEFA (UBA-CONICET), Junín 956, C1113AAD Buenos Aires, Argentina

^b Departamento de Industrias, Facultad de Ciencias Exactas y naturales – Universidad de Buenos Aires y CONICET, Intendente Guiraldes 2160, CP 1428, Buenos Aires, Argentina

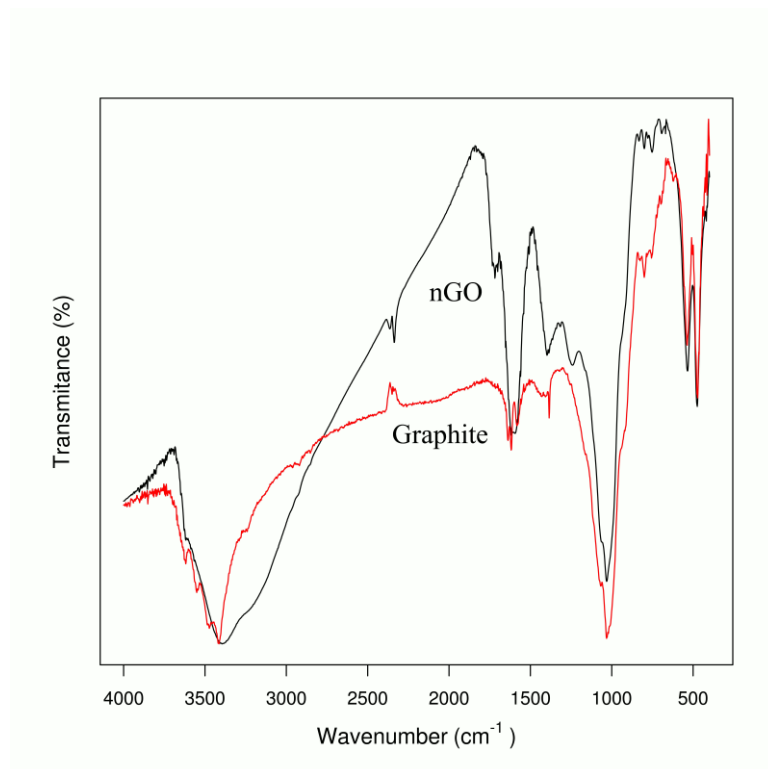
Electronic Supplementary Information



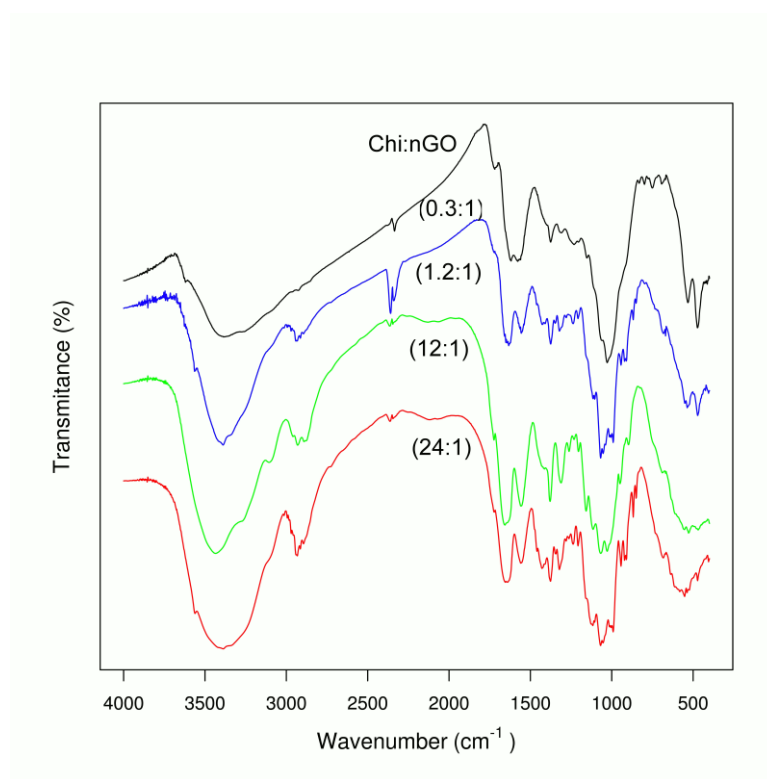
ESI 1: Macroscopical image of the Chi and Chi:nGO hybrids.



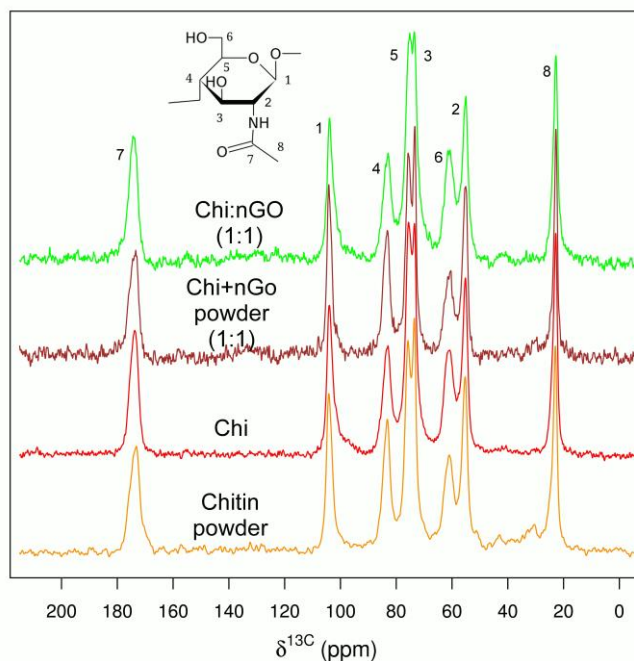
ESI 2: TEM image of the Chi and Chi:nGO hybrids.



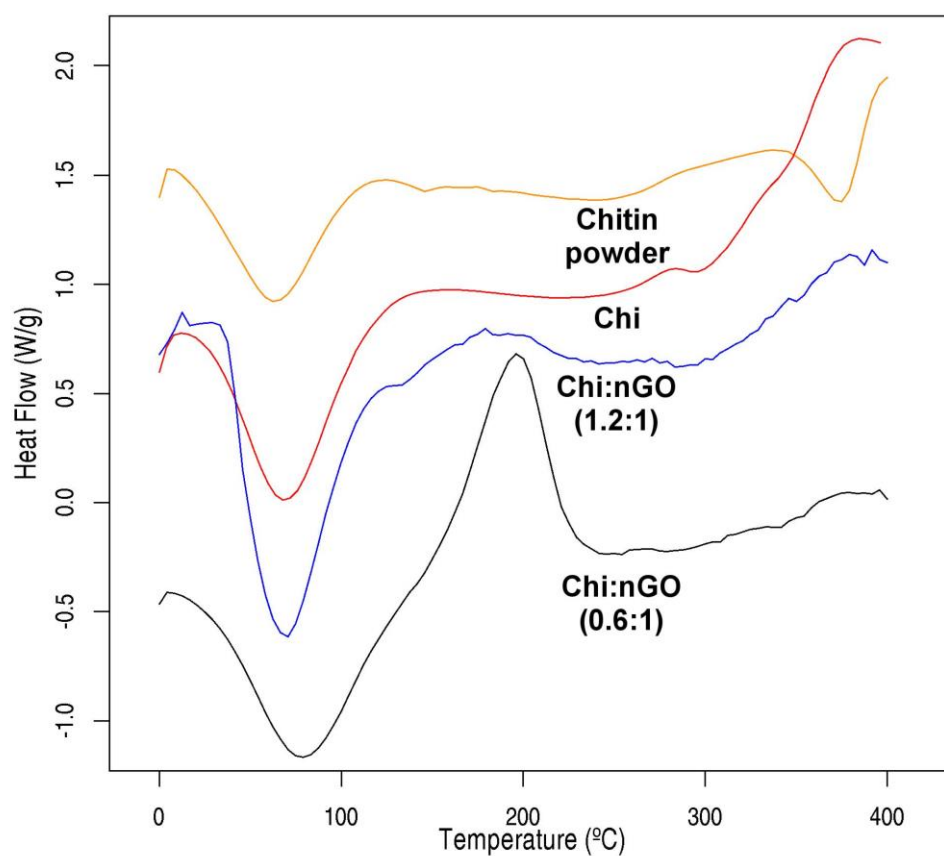
ESI 3: FTIR spectra of graphite and nGO.



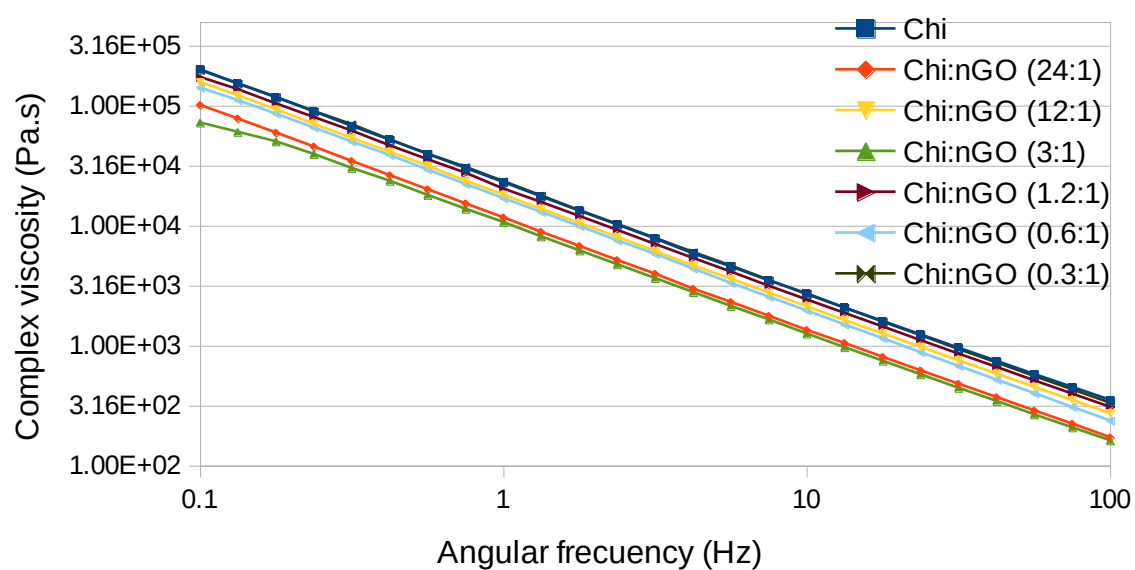
ESI 4: FTIR spectra of Chi:nGO hybrids.



ESI 5: Solid-state ^{13}C -NMR spectra of Chi, Chi:nGO hybrids, commercial chitin and a powder mixture of commercial chitin and nGO.



ESI 6: DSC thermograms of Chi, Chi:nGO hybrids and commercial chitin powder carried out under N_2 atmosphere.



ESI 7: Complex viscosity frequency dependence of the hybrids



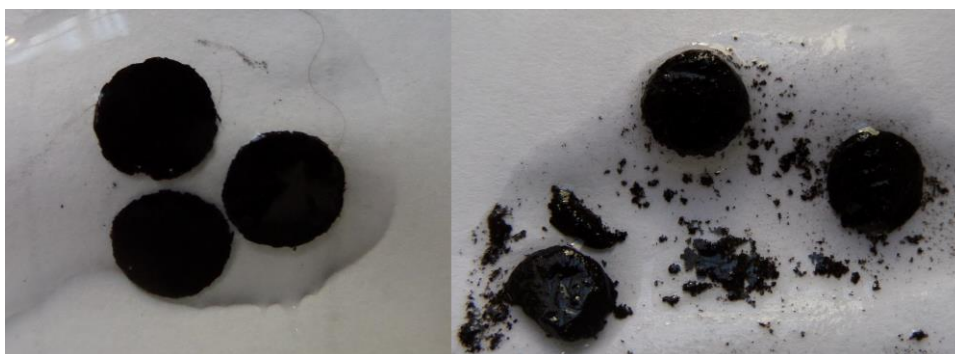
ESI 8a: Chi hybrids before (left) and after (right) lysozyme exposure



ESI 8b: Chi:nGO hybrids (12:1) before (left) and after (right) lysozyme exposure



ESI 8c: Chi:nGO hybrids (3:1) before (left) and after (right) lysozyme exposure



ESI 8d: Chi:nGO hybrids (0.3:1) before (left) and after (right) lysozyme exposure