

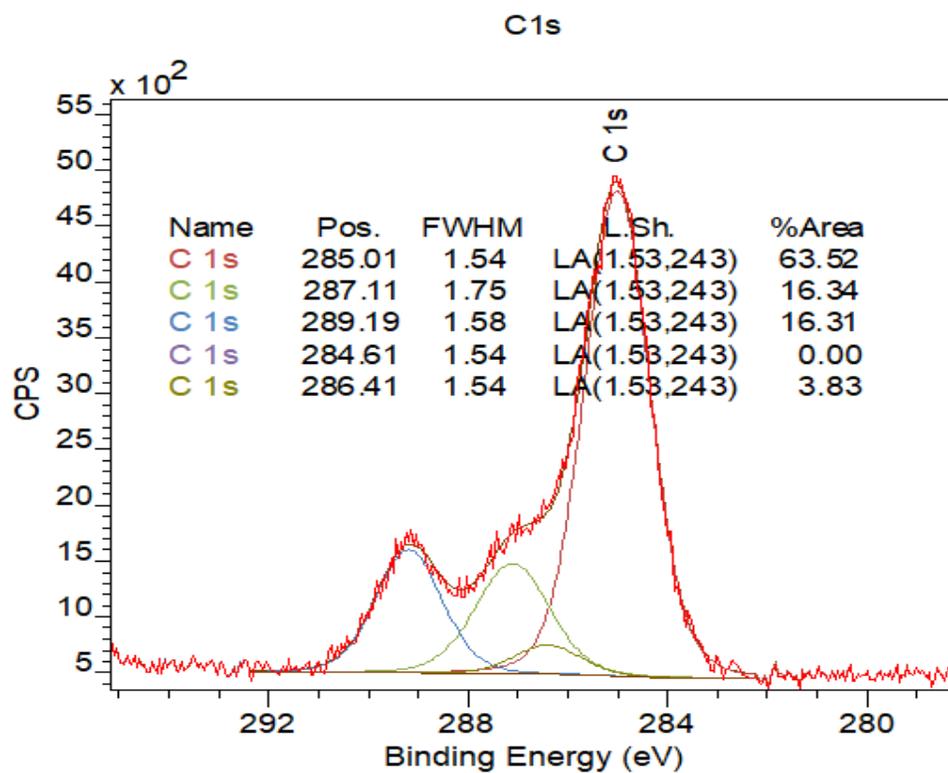
Article

Cytotoxicity Study of UV-Laser-Irradiated PLLA Surfaces Subjected to Bio-Ceramisation: A New Way towards Implant Surface Modification

Konrad Szustakiewicz ^{1,*}, Bartłomiej Kryszak ^{1,*}, Paulina Dzienny ², Błażej Poźniak ³, Marta Tikhomirov ³, Viktoria Hoppe ⁴, Patrycja Szymczyk-Ziółkowska ⁴, Włodzimierz Tylus ⁵, Michał Grzymajło ¹, Agnieszka Gadomska-Gajadur ⁶ and Arkadiusz J. Antończak ²

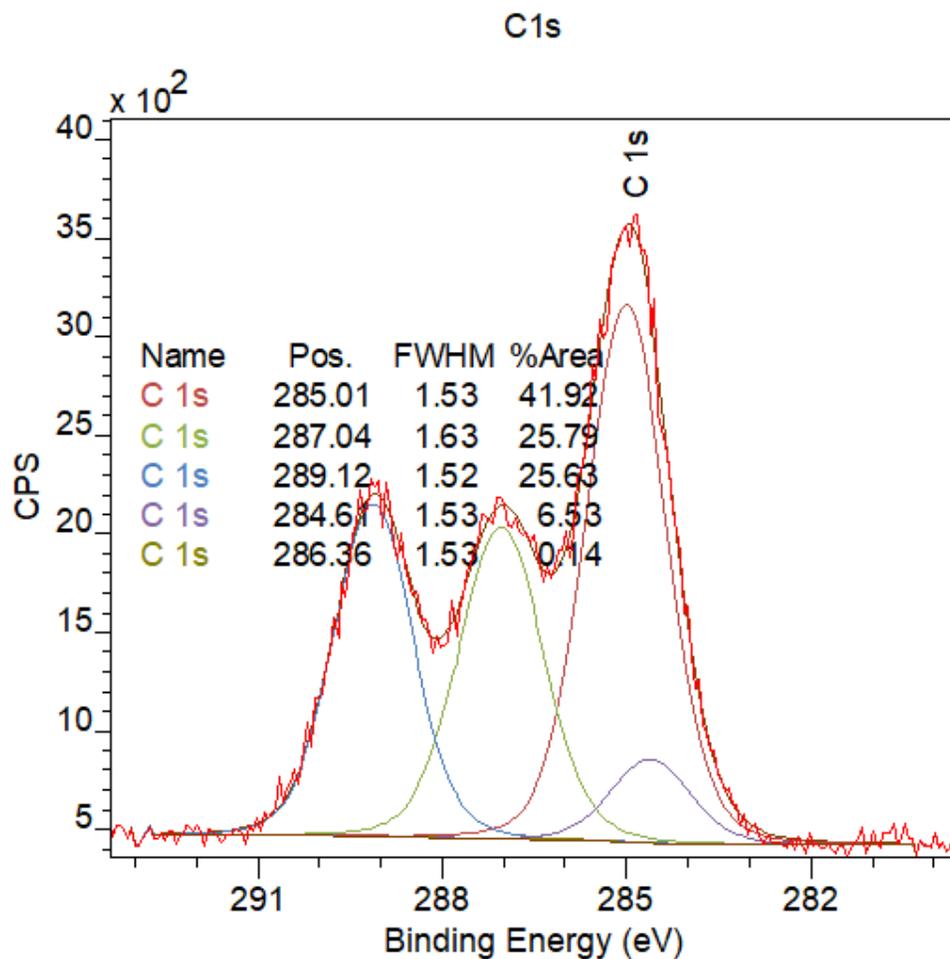
- ¹ Department of Polymer Engineering and Technology, Faculty of Chemistry, Wrocław University of Science and Technology (WUST), Wyb. Wyspiańskiego 27, 50-370 Wrocław, Poland; michal.grzymajlo@pwr.edu.pl
- ² Laser and Fiber Electronics Group, Faculty of Electrical Engineering, Wrocław University of Science and Technology, 50-370, Wrocław, Poland; paulina.dzienny@pwr.edu.pl (P.D.); arkadiusz.antonczak@pwr.edu.pl (A.A.)
- ³ Department of Pharmacology and Toxicology, Faculty of Veterinary Medicine, Wrocław University of Environmental and Life Sciences, ul. Norwida 25, 50-375 Wrocław, Poland; blazej.pozniak@upwr.edu.pl (B.P.); marta.tikhomirov@upwr.edu.pl (M.T.)
- ⁴ Centre for Advanced Manufacturing Technologies, Faculty of Mechanical Engineering, Wrocław University of Science and Technology (WUST), Łukasiewicza 5, 50-370 Wrocław, Poland; viktoria.hoppe@pwr.edu.pl (V.H.); patrycja.e.szymczyk@pwr.edu.pl (P.S.-Z.)
- ⁵ Department of Advanced Material Technologies, Faculty of Chemistry, Wrocław University of Science and Technology, 50-370, Wrocław, Poland; wlodzimierz.tylus@pwr.edu.pl
- ⁶ Faculty of Chemistry, Warsaw University of Technology, ul. Noakowskiego 3, 00-664 Warsaw, Poland; agadomska@ch.pw.edu.pl
- * Correspondence: konrad.szustakiewicz@pwr.edu.pl (K.S.); bartlomiej.kryszak@pwr.edu.pl (B.K.)

Supporting Info



CasaXPS (This string can be edited in CasaXPS.DEF/PrintFootNc

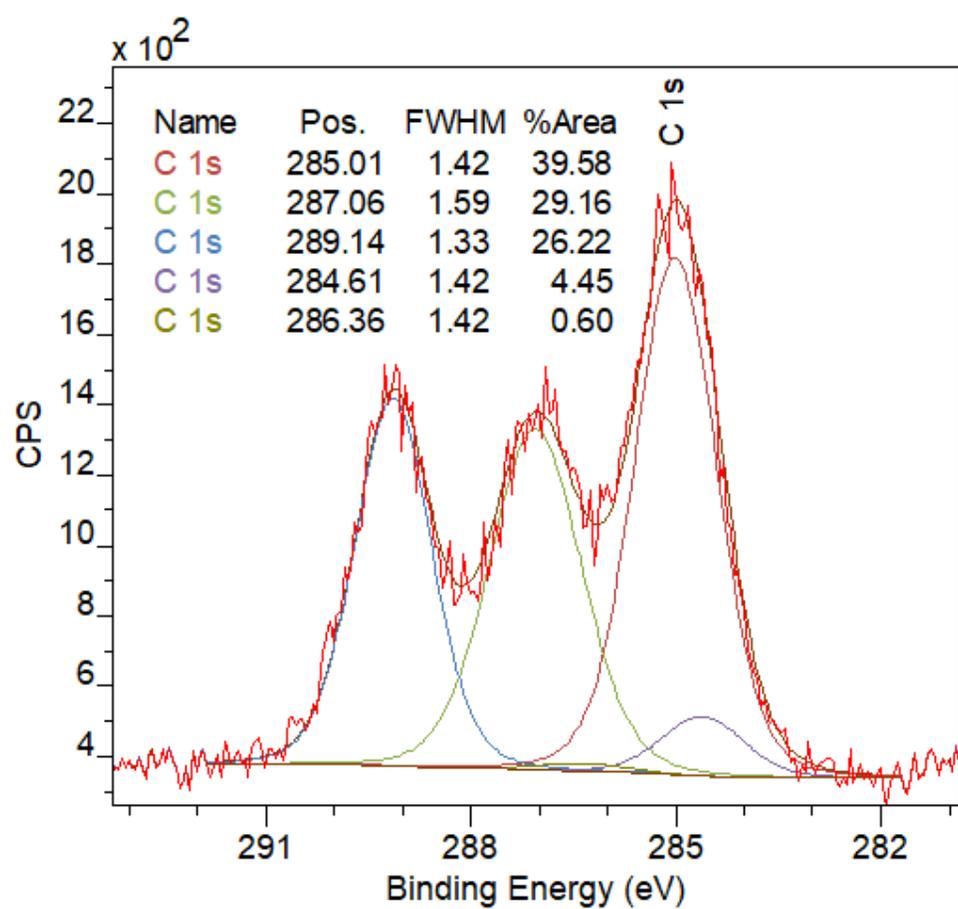
Figure S1. XPS C1s spectra of PLLA foil



CasaXPS (This string can be edited in CasaXPS.DEF/PrintFootNc

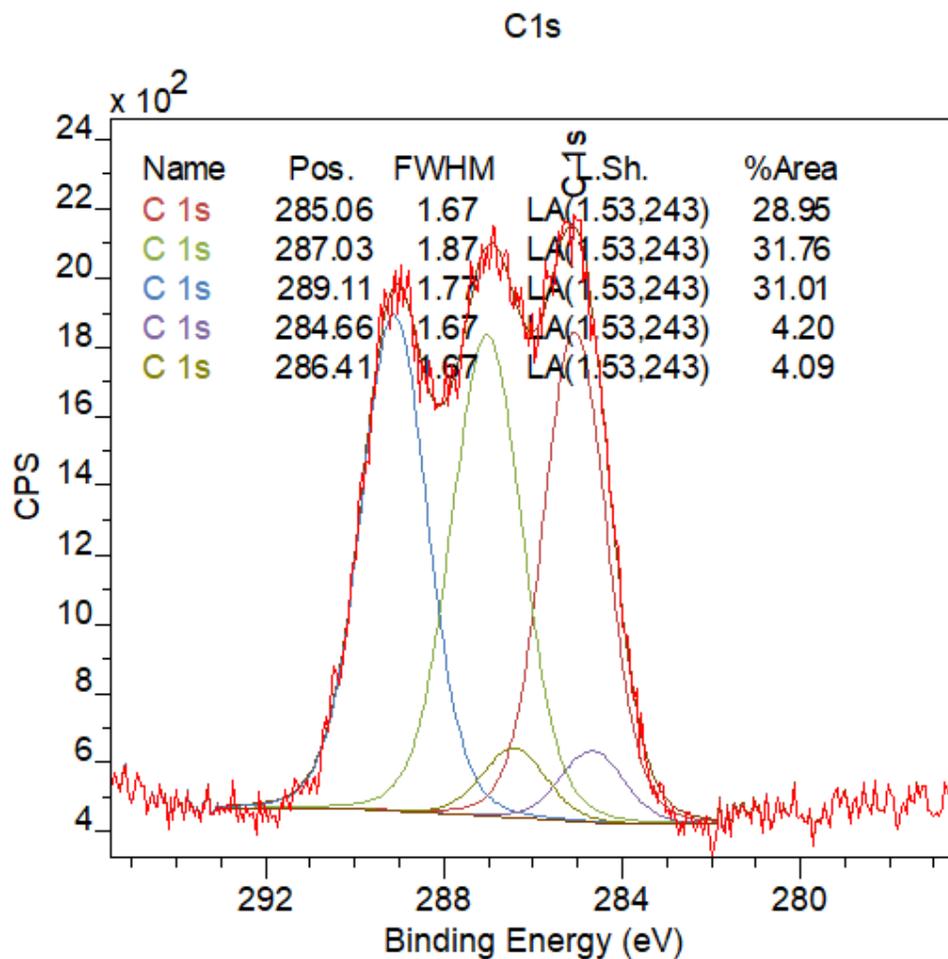
Figure S2. XPS C1s spectra of PLLA_UV_1d

C1s



CasaXPS (This string can be edited in CasaXPS.DEF/PrintFootNc

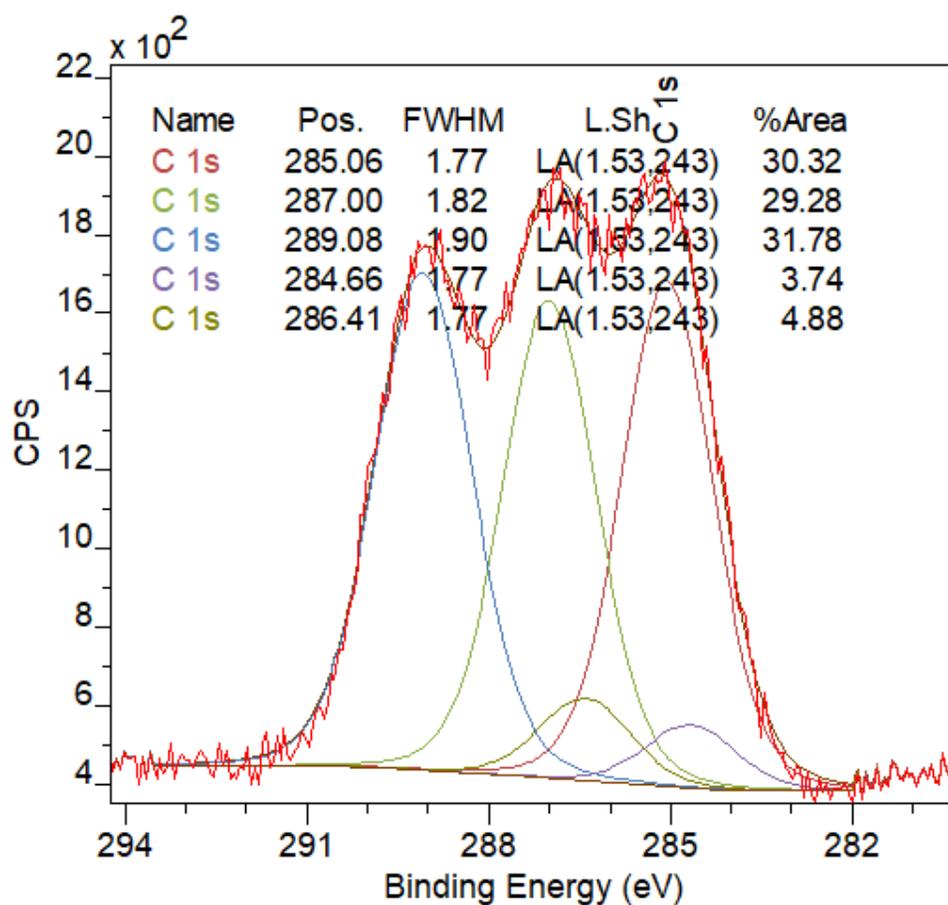
Figure S3. XPS C1s spectra of PLLA_UV_7d



CasaXPS (This string can be edited in CasaXPS.DEF/PrintFootNc

Figure S4. XPS C1s spectra of PLLA_UV_SBF_1d

C1s



CasaXPS (This string can be edited in CasaXPS.DEF/PrintFootNc

Figure S5. XPS C1s spectra of PLLA_UV_SBF_7d

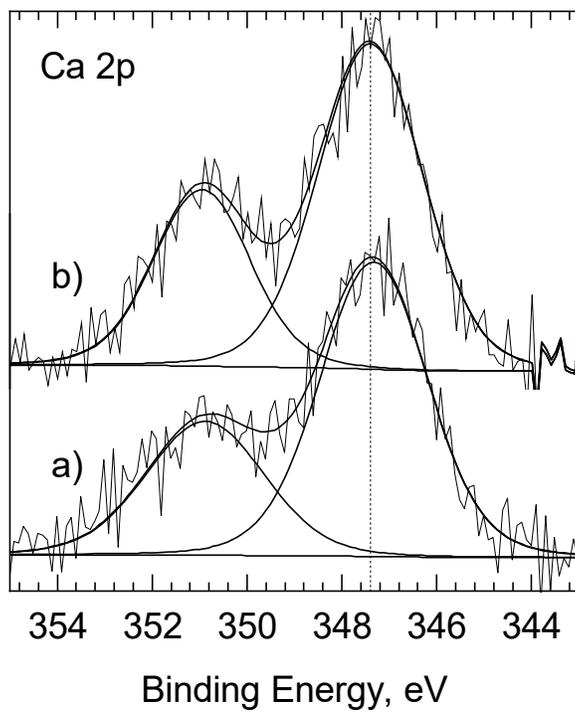


Figure S6. Ca 2p core level spectra for a) PLLA_UV_SBF_1d and b) PLLA_UV_SBF_7d