

Stanford



Petronela Buiga

Postdoctoral Scholar, Oncology

Bio

HONORS AND AWARDS

- Preparing Future Professor (PFP) Fellow, Stanford University (2023)
- NEXT Award, Biodesign for Digital Health, Stanford University (2022-2023)
- Leader of Tomorrow, GAP Summit at the Broad Institute of MIT and Harvard (2019)
- STEM for Britain, House of Commons, UK (2019)
- Ignition Award - Innovation Optimiser, University of Manchester Intellectual Property, UK (2019)
- PhD Fellowship, University of Manchester, UK (2015-2019)
- PhD Fellowship, Weizmann UK (2016-2018)
- Diploma for Research, Romanian Ambassador to the UK (2016)
- Academic Excellence Award, LSRS Romania (2015)

PROFESSIONAL EDUCATION

- Postdoctoral, Harvard University, School of Dental Medicine , Oral Medicine, Infection, and Immunity
- Doctor of Philosophy (PhD), University of Manchester/United Kingdom and Weizmann Institute of Science/Israel , Molecular and Cancer Studies (2019)
- Doctor of Dental Medicine (DMD), Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca/Romania , Dental Medicine (2015)
- Master in Business, Lucian Blaga University, Sibiu/Romania , Business (2015)
- BSc, Lucian Blaga University, Sibiu/Romania , Economics-Management (2013)

STANFORD ADVISORS

- Dean Felsher, Postdoctoral Faculty Sponsor
- Dean Felsher, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Oral Neutrophil Free Fatty Acid Receptors Expression May Link Oral Host and Microbiome Lipid Metabolism.** *Frontiers in oral health*
Wzatek, M., Bahammam, S., Buiga, P., Haddad, K., Sima, C.
2022; 3: 821326
- **Kinetic Modeling of DUSP Regulation in Herceptin-Resistant HER2-Positive Breast Cancer**
Buiga, P., Elson, A., Tabernero, L., Schwartz, J.
MDPI.2019

- **Modelling the role of dual specificity phosphatases in herceptin resistant breast cancer cell lines** *COMPUTATIONAL BIOLOGY AND CHEMISTRY*
Buiga, P., Elson, A., Tabernero, L., Schwartz, J.
2019; 80: 138-146

- **Regulation of dual specificity phosphatases in breast cancer during initial treatment with Herceptin: a Boolean model analysis**
Buiga, P., Elson, A., Tabernero, L., Schwartz, J.
BMC.2018: 11

- **A meta-analysis portal for human breast cancer transcriptomics data: BreastCancerVis**
Buiga, P., Soul, J., Schwartz, J., Zheng, H., Callejas, Z., Griol, D., Wang, H., Hu, Schmidt, H., Baumbach, J., Dickerson, J., Zhang, L.
IEEE.2018: 260-264

- **Hydrolytic and lysozymic degradability of chitosan systems with heparin-mimicking pendant groups** *MATERIALS LETTERS*
Tronci, G., Buiga, P., Alhilou, A., Do, T., Russell, S. J., Wood, D. J.
2017; 188: 359-363

- **Premalignant SOX2 overexpression in the fallopian tubes of ovarian cancer patients: Discovery and validation studies** *EBIOMEDICINE*
Hellner, K., Miranda, F., Chedom, D., Herrero-Gonzalez, S., Hayden, D. M., Tearle, R., Artibani, M., KaramiNejadRanjbar, M., illiams, R., Gaitskell, K., Elorbany, S., Xu, R., Laios, et al
2016; 10: 137-149

- **Clinical and histological characterization of an aggressive periodontitis case associated with unusual root canal curvatures.** *Romanian journal of morphology and embryology = Revue roumaine de morphologie et embryologie*
Stratul, #. I., Roman, A., #urlin, P., Petru#iu, #. A., Buiga, P., Mihiu, C. M.
2015; 56 (2): 589-96

- **Degenerative alterations of the cementum-periodontal ligament complex and early tooth loss in a young patient with periodontal disease.** *Romanian journal of morphology and embryology = Revue roumaine de morphologie et embryologie*
Petru#iu, S. A., Buiga, P., Roman, A., Danciu, T., Mihiu, C. M., Mihiu, D.
2012; 53 (4): 1087-91