

Ozlem YESIL CELIKTAS

Contact Ege University, Faculty of Engineering, Bioengineering **Tel:** (Work) +90-232-3115813 Address 35100 Bornova - IZMIR /TURKEY tr.linkedin.com/pub/ozlem-yesil-celiktas/34/9b7/9b/ Faculty Head of Biomedical Technologies Graduate Programme, Ege University (2018 - ...) Assoc. Prof. Dr. at Bioengineering Department, Ege University (2011 - ...) Positions Ass. Prof. Dr. at Bioengineering Department, Ege University (2007 – 2011) Education PhD in Biotechnology at Ege University (Turkey) (2002-2005) Master's Programme, 'Management of Production' at Industrial Management and Economics, Chalmers University of Technology (Sweden) (1997-1999) Bachelor of Chemical Engineering, Ankara University (Turkey) (1990-1994) Awards EC Joint Research Centre (JRC) scholarship for a presentation at the Nanobiotechnology International Workshop (Ispra-Italy) (2-4 Dec., 2009) Postdoctoral grant by the Scientific and Technical Research Council of Turkey (TUBITAK) at the Center of Life and Food Sciences Weihenstephan, Technical University of Munich (Germany) (May-September 2008) NATO A-2 grant by the Scientific and Technical Research Council of Turkey (TUBITAK) at Agrotechnology and Food Innovations Institute of Wageningen University (The Netherlands) (March-June 2005) DAAD fellowship at the Technical University of Munich (Germany) (1993) • Working at the Department of Bioengineering, Faculty of Engineering of Ege University. Professional The research can be summarized under three pillars; life science applications of supercritical fluids Experience such as enzyme treatments, drying of scaffolds. Micro- and nano-particle formation, whereas the third pillar is dedicated to microfluidic applications with emphases on macromolecule immobilization with sol-gel technology and cell entrapment for designing 3-D cancer models (Oct. 2007 -...) • Worked as an Industrial Relation's Specialist at Ege University Science and Technology Center, focusing on commercialization of the projects carried out at the University, also worked at IRC-EGE part of the IRC network- creating awareness, assisting SMEs and assessing their technical capabilities by technical audits for the ultimate target of Transnational Technology Transfer (Oct. 2003 - Oct.2007)• Worked as Planning and Customer Service Manager providing packaging solutions, conducting cost reduction projects at customer sites by focusing on supply chains and planning production at Çukurova - SCA to better fulfill customer requirements (June 2000 - Sep.2003) • Worked with the product development and marketing teams at Electrolux AB, white goods for developing a new generation of fridges; conducted customer surveys, focus group interviews and a Quality Function Deployment Analysis (Sweden) (June1998-Jan.1999) • Worked on a EU research project for developing new catalytic materials and process suitable for the applications in the area of gas-clean up at moderate high temperatures. Special emphasis was given to the problem of soot formation in catalytic combustion and oxidation at Chemical Technology at Kungliska Tekniska Högskolan (Sweden) (1997) • Worked at Eczacıbaşı -VITRA as the chief of Glaze Production Department. Organisation of human resources, providing long-term solutions for production related issues, embing an approach Total Productive Maintenance (TPM), providing on-the-job training, working towards annual targets and preparing the budget of the department and responding to customer complaints were emphasised requirements of my job (1995-1996) **Projects** Synthesis of a novel stiff hydrogel for cartilage tissue engineering functionalized with nanoparticles fabricated by using a microfluidic platform along with in vivo studies. Funded by TUBITAK (117M843), Project Coordinator, (2018-2020).

Enzymatic reactions in micro devices with a focus on sol-gel technology: experimental study and model development. Funded by TUBITAK (113M050), *Project Coordinator*, (2014-2017).

Sustainable Polymers from Algae Sugars and Hydrocarbons (SPLASH). Funded by EU FP7, *Contact for Turkish partner*, (2012-2017).

Sterilization requirements of microchips fabricated by different materials, Funded by Research Fund of Ege University, 14-MUH-045, *Project Coordinator*, (2014-2015).

Optimization of anthocyanins from black carrot, encapsulation and investigation of its effects on Neuro 2A cancer cell line. Funded by TUBITAK (113M196), *Project Coordinator*, (2013-2014).

Investigation of the activity and stability of α -amylase under supercritical carbon dioxide. Funded by Research Fund of Ege University, 11-MUH-006, *Project Coordinator*, (2011-2013)

Solid state fermentation and supercritical fluid extraction of mycophenolic acid exhibiting immune suppressive activity. Funded by Research Fund of Ege University, 11-MUH-061, *Project Coordinator*, (2011-2013)

Supercritical fluid extraction of mortal seaweeds causing marine pollution and investigation of bioethanol production from the raffinate phase: A mathematical modeling and optimization study. Funded by TUBITAK (110M790), *Project Coordinator*, (2011-2012)

Optimizing the extraction of glycosides from the leaves of *Stevia rebaudiana* by supercritical fluid technology. Funded by Research Fund of Ege University, *Project Coordinator*, (2009 – 2010).

Effects of oregano and rosemary essential oils and extracts added to feeds enriched by n-3 PUFAs on the oxidative stability, lipid metabolism and some quality parameters of eggs in laying hens. Fundedd by TUBITAK (TOVAG 106 0 090), *Researcher*, (Sept. 2006-April 2008)

Determination of antioxidant, anti-inflammatory and antimicrobial activities of extracts obtained from different *Pinus* species. Funded by Research Fund of Ege University (06-MUH-007), *Researcher*, (July 2006 – July 2008).

Comparison of antioxidant activities of extracts obtained from rosemary and its callus cultures. Funded by TUBITAK (TBAG 2479), *Researcher*, (June 2004-June 2006).

Worked as a researcher at a project named as "Supercritical CO_2 extraction of wheat germ oil on industrial scale", an industry-academia cooperative project financed by TEYDEB (Project No: 3040158), *Researcher*, (January 2004 - December 2006)

Publications Papers in SCI-indexed journals

64) Elif Ozdemir-Kaynak, Amina Ann Qutub, Ozlem Yesil-Celiktas (2018) Advances in glioblastoma multiforme treatment: new models for nanoparticle therapy. Frontiers Physiology, doi: 10.3389/fphys.2018.00170.

63) Cahit Muderrisoglu, Sayit Sargin, Ozlem Yesil-Celiktas (2018) Novel application of β -glucuronidase immobilized silica gel formulation to microfluidic platform for biotransformation of β -glucuronides. Biotechnology Letters, DOI: 10.1007/s10529-018-2530-7.

62) Ece Yildiz-Ozturk, Esra Ilhan-Ayisigi, Arnoud Togtema, Joao Gouveia, Ozlem Yesil- Celiktas (2018) Effects of hydrostatic pressure and supercritical carbon dioxide on the viability of Botryococcus braunii algae cells. Bioresource Technlogy, doi:10.1016/j.biortech.2018.02.041.

61) Ece Yildiz-Ozturk, Mesut Yucel, Ozlem Yesil-Celiktas (2018) A generic model for diffusive dynamics of the substrate and fluorescein tagged enzyme in microfluidic platform. Microsystem Technologies, 10.1007/s00542-018-3746-0.

60) Halil Koyu, Aslihan Kazan, Serdar Demir, Mehmet Zeki Haznedaroglu, Ozlem Yesil-Celiktas (2018) Optimization of microwave assisted extraction of Morus nigra L. fruits maximizing tyrosinase inhibitory activity with isolation of bioactive constituents, Food Chemistry, 248, 183-191.

59) Ece Yildiz-Ozturk, Mesut Yucel, Cahit Muderrisoglu, Sayit Sargin, Ozlem Yesil-Celiktas (2017) Modelling dynamics of diffusive-convective mass transfer in microfluidic systems and determining hydrodynamic dispersion coefficient. Journal of Taiwan Institute of Chemical Engineers, 80, 100-106.

58) Ece Yildiz-Ozturk, Ozlem Yesil-Celiktas (2017) Supercritical CO2 extraction of hydrocarbons from Botryococcus braunii as a promising bioresource. Journal of Supercritical Fluids, 130, 261-266.

57) Halil Koyu, Aslihan Kazan, Taylan Kurtulus Ozturk, Ozlem Yesil-Celiktas, Zeki Haznedaroglu (2017) Optimizing subcritical water extraction of Morus nigra L. fruits for maximization of tyrosinase inhibitory activity. Journal of Supercritical Fluids, 127, 15-22.

56) Aslihan Kazan, Marcel Heymuth, Dilan Karabulut, Seref Akay, Ece Yildiz-Ozturk, Rabia Onbas, Cahit Muderrisoglu, Sayit Sargin, Rene Heils, Irina Smirnova, Ozlem Yesil-Celiktas (2017) Formulation of organic and inorganic hydrogel matrices for immobilization of β -glucosidase in microfluidic platform. Engineering in Life Sciences, 17, 714-722.

55) Seref Akay, Rene Heils, Hoc Khiem Trieu, Irina Smirnova, Ozlem Yesil-Celiktas (2017) An injectable alginate-based hydrogel for microfluidic applications. Carbohydrate Polymers, 161, 228-234.

54) Ece Yildiz-Ozturk, Sultan Gulce-Iz, Muge Anil, Ozlem Yesil-Celiktas (2017) Cytotoxic responses of carnosic acid and doxorubicin on breast cancer cells doped in butterfly-shaped microchips in comparison to 2D and 3D culture systems. Cytotechnology, 69(2), 337-347.

53) Ozlem Yesil-Celiktas, Cansu Pala, E. Oyku Cetin-Uyanikgil, Canan Sevimli-Gur (2017) Synthesis of silica-PAMAM dendrimer nanoparticles as promising carriers in Neuro blastoma cells. Analytical Biochemistry, 519, 1-7.

52) Cansu Pala, Canan Sevimli-Gur, Ozlem Yesil-Celiktas (2017) Green extraction processes focusing on maximization of black carrot anthocyanins along with cytotoxic activities. Food Analytical Methods, 10 (2), 529-538.

51) Aslihan Kazan, Canan Sevimli-Gur, Ozlem Yesil-Celiktas, Nurhan Turgut Dunford (2017) In vitro tumor suppression properties of blueberry extracts in liquid and encapsulated forms. European Food Research and Technology, 243, 1057-1063.

50) Rabia Onbas, Aslihan Kazan, Ayse Nalbantsoy, Ozlem Yesil-Celiktas (2016) Cytotoxic and iNOS inhibition activities of propolis extract along with microencapsulation by complex coacervation. Plant Foods for Human Nutrition, 71, 286-293.

49) Irem Cemre Turu, Ceren Turkcan-Kayhan, Aslihan Kazan, Ece Yildiz-Ozturk, Sinan Akgol, Ozlem Yesil-Celiktas (2016) Synthesis and characterization of cryogel structures for isolation of EPSs from Botryococcus braunii. Carbohydrate Polymers, 150, 378-384.

48) Yavuz C., Oliaei A.N.B., Cetin B., Yesil-Celiktas O. (2016) Sterilization of PMMA microfluidic chips by various techniques and investigation of material characteristics. Journal of Supercritical Fluids, 107, 114-121.

47) Aslihan Kazan, Canan Sevimli-Gur, Ozlem Yesil-Celiktas, Nurhan Turgut Dunford (2016) Investigating anthocyanin contents and in vitro tumor suppression properties of blueberry extracts prepared by various processes. European Food Research and Technology, 242, 693-701.

46) Irem Deniz, Mehmet Ozgun Ozen, Ozlem Yesil Celiktas (2016) Supercritical fluid extraction of phycocyanin from Spirulina platensis and its in vitro cytotoxicity on human lung cancer. Journal of Supercritical Fluids, 108, 13-18.

45) Deniz Senyay-Oncel, Ozlem Yesil-Celiktas (2015) Characterization, immobilization and activity enhancement of cellulase treated with supercritical CO2. Cellulose, 22, 3619-3631.

44) Ece Yildiz-Ozturk, Ayse Nalbantsoy, Ozgur Tag, Ozlem Yesil-Celiktas (2015) A comparative study on extraction processes of Stevia rebaudiana leaves with emphasis on antioxidant, cytotoxic and nitric oxide inhibition activities. Industrial Crops and Products, 77, 961-971.

43) Ersin Onem, Gurbuz Gulumser, Manfred Renner, Ozlem Yesil-Celiktas (2015) High pressure vegetable tanning of sheepskins using supercritical carbon dioxide. Journal of Supercritical Fluids, 104, 259-264.

42) Aslihan Kazan, Melih Soner Celiktas, Sayit Sargin, Ozlem Yesil-Celiktas (2015) Bio-based fractions by hydrothermal pressurized olive pomace: Process optimization and evaluation. Energy Conversion and Management, 103, 366-373.

41) Elif Ozdemir-Kaynak, OzlemYesil-Celiktas (2015) Microwave-assisted digestion combined with silica-based spin column extraction as a new approach for rapid DNA isolation from human bones. Analytical Biochemistry, 486, 44-50.

40) Ece Yildiz-Ozturk, Ozlem Yesil-Celiktas (2015) Diffusion phenomena of cells and biomolecules in microfluidic devices. Biomicrofluidics, 9, 052606, doi: 10.1063/1.4923263

39) Onem E., Gulumser G., Renner M., Oelbermann A.L., Yesil-Celiktas O. (2015) Pressurized fluid extraction (PFE) of valonea tannin with binary H2O-CO2 and ternary H2O-CH3OH-CO2 systems and phase equilibrium studies. Separation and Purification Technology, 146, 101-107.

38) Deniz, I., Vardar-Sukan, F., Yüksel, M., Saglam, M., Ballice, L., Yesil-Celiktas, O. (2015) Hydrogen production from marine biomass by hydrothermal gasification. Energy Conversion and Management, 96, 124-130.

37) Akay F., Kazan A., Celiktas M.S., Yesil-Celiktas O. (2015) A holistic engineering approach for utilization of olive pomace. Journal of Supercritical Fluids, 99, 1-7.

36) Yildiz-Ozturk E., Tag O., Yesil-Celiktas O. (2014) Subcritical water extraction of steviol glycosides from Stevia rebaudiana leaves and characterization of the raffinate phase. Journal of Supercritical Fluids, 95, 422-430.

35) Yesil-Celiktas O (2014) Patenting trends in enzyme related microfluidic applications. Biochemical Engineering Journal, 92, 53-62.

34) Senyay-Oncel D., Kazan A., Yesil-Celiktas O. (2014) Processing of protease under sub- and supercritical conditions for activity and stability enhancement. Biochemical Engineering Journal, 92, 83-89.

33) Kazan A., Koyu H., Turu I.C., Yesil-Celiktas O. (2014) Supercritical fluid extraction of Prunus persica leaves and utilization possibilities as a source of phenolic compounds. Journal of Supercritical Fluids, 92, 55-59.

32) Yildiz E., Karabulut D., Yesil-Celiktas O. (2014) A bioactivity based comparison of Echinacea purpurea extracts obtained by various processes. Journal of Supercritical Fluids, 89, 8-15.

31) Onem E., Gulumser G., Akay S., Yesil-Celiktas O. (2014) Optimization of tannin isolation from acorn and application in leather processing. Industrial Crops and Products, 53, 16-22.

30) Pilavtepe M., Sargin S., Celiktas M.S., Yesil-Celiktas O. (2013) Transformation of Posidonia oceanica residues to bioethanol. Industrial Crops and Products, 51, 348-354.

29) Yesil-Celiktas O., Cumana S., Smirnova I. (2013) Silica-based monoliths for enzyme catalyzed reactions in microfluidic systems with an emphasis on glucose 6-phosphate dehydrogenase and cellulase. Chemical Engineering Journal, 234, 166-172.

28) Pilavtepe M., Yesil-Celiktas O. (2013) Mathematical modeling and mass transfer considerations in supercritical fluid extraction of Posidonia oceanica residues. Journal of Supercritical Fluids, 82, 244-250.

27) Sevimli-Gur C., Cetin B., Akay S., Gulce-Iz S., Yesil-Celiktas O. (2013) Extracts from black carrot tissue culture as potent anticancer agents. Plant Foods for Human Nutrition, 68, 293-298.

26) Senyay-Oncel D., Yesil-Celiktas O. (2013) Treatment of immobilized alpha- amylase under supercritical CO2 conditions: Can activity be enhanced after consecutive enzymatic reactions? Journal of Molecular Catalysis B: Enzymatic, 91, 72-76.

25) Ozdemir E., Sendemir-Urkmez A., Yesil-Celiktas O. (2013) Supercritical CO2 processing of a chitosan-based scaffold: Can implantation of osteoblastic cells be enhanced? Journal of Supercritical Fluids, 75, 120–127.

24) Cetin E.O., Yesil-Celiktas O., Cavusoglu T., Demirel-Sezer E., Akdemir O., Uyanikgil Y. (2013) Incision wound healing activity of pine bark extract containing topical formulations: An investigative study with histopathological and biochemical analyses in albino rats. Die Pharmazie, 68, 75-80.

23) Coban, I., Sargin, S., Celiktas, M.S., Yesil-Celiktas, O. (2012) Bioethanol production from raffinate phase of supercritical CO2 extracted Stevia rebaudiana leaves. Bioresource Technology, 120, 52-59.

22) Pilavtepe M., Sargin S., Celiktas M.S., Yesil-Celiktas O. (2012) An integrated process for conversion of Zostera marina residues to bioethanol. Journal of Supercritical Fluids, 68, 117-122.

21) Pilavtepe M., Yucel M., Helvaci S.S., Demircioglu M., Yesil-Celiktas O. (2012) Optimization and mathematical modeling of mass transfer between Zostera marina residues and supercritical CO2. Journal of Supercritical Fluids, 68, 87-93.

20) Pilavtepe M., Erkucuk A., Akgun I.H., Yesil-Celiktas O. (2012) Supercritical CO2 extraction of Alkanna species and investigating functional characteristics of alkannin enriched yoghurt during storage. European Food Research and Technology, 234, 807-812.

19) Yesil-Celiktas O., Cetin-Uyanikgil, E.O. (2012) In vitro release kinetics of polycaprolactone encapsulated plant extract fabricated by supercritical antisolvent process and solvent evaporation method. Journal of Supercritical Fluids, 62, 219-225.

18) Senyay-Oncel D., Yesil-Celiktas O. (2011) Activity and stability enhancement of α -amylase treated with sub- and supercritical carbon dioxide. Journal of Bioscience and Bioengineering, 112, 435-440.

17) Akay S., Alpak I., Yesil-Celiktas O. (2011) Effects of process parameters on supercritical CO2 extraction of total phenols from strawberry (Arbutus unedo L.) fruits: an optimization study. Journal of Separation Science, 34, 1925-1931.

16) Senyay-Oncel, D., Ertas, H., Yesil-Celiktas, O. (2011) Effects of supercritical fluid extraction parameters on unsaturated fatty acid yields of Pistacia terebinthus berries. JAOCS, 88, 1061-1069.

15) Akgun I.H., Erkucuk A., Pilavtepe M., Yesil-Celiktas O. (2011) Optimization of total alkannin yields of Alkanna tinctoria by using sub- and supercritical carbon dioxide extraction. Journal of Supercritical Fluids, 57, 31-37.

14) Yesil-Celiktas O., Senyay D. (2010) The breadth and intensity of supercritical particle formation research with a projection on publication and patent disclosures. Industrial & Engineering Chemistry Research, 49, 7017-7026.

13) Yesil-Celiktas O., Sevimli C., Bedir E., Vardar-Sukan F. (2010) Inhibitory effects of rosemary extracts, carnosic acid and rosmarinic acid on the growth of human cancer cell lines. Plant Foods for Human Nutrition, 65, 158-163.

12) Yesil-Celiktas O., Isleten M., Cetin E.O., Vardar-Sukan F. (2010) In vitro release kinetics of pine bark extract enriched orange juice and the shelf stability. British Food Journal, 112, (10), 1063-1076.

11) Erkucuk A., Akgun I.H., Yesil-Celiktas O. (2009) Supercritical CO2 extraction of glycosides from Stevia rebaudiana leaves: identification and optimization. Journal of Supercritical Fluids, 51, 29-35.

10) Yesil-Celiktas O. (2009) A comparative study of antioxidant properties of extracts obtained from renewable forestry and agricultural resources, Fresenius Environmental Bulletin, 18, (8), 1507-1512.

9) Yesil-Celiktas O., Otto F., Parlar H. (2009) A comparative study of flavonoid contents and antioxidant activities of supercritical CO2 extracted pine barks grown in different regions of Turkey and Germany. European Food Research and Technology, 229, 671-677

	8) Ince I., Yesil-Celiktas O., Karabay-Yavasoglu N.U., Elgin G. (2009) Effects of P.brutia bark extract and Pycnogenol® in a rat model of carrageenan induced inflammation. Phytomedicine, 16, 1101-1104.
	7) Yesil-Celiktas O., Otto F., Gruener S., Parlar H. (2009) Determination of extractability of pine bark using supercritical CO2 extraction and different solvents - optimization and prediction. Journal of Agricultural and Food Chemistry, 57, 341-347.
	6) Yesil-Celiktas O., Ganzera M., Akgun I.H., Sevimli C., Korkmaz K.S., Bedir E. (2009) Determination of polyphenolic constituents and biological activities of bark extracts from different Pinus species. Journal of the Science of Food and Agriculture, 89, 1339-1345.
	5) Yesil-Celiktas O., Isleten M., Karagul-Yuceer Y., Bedir E., Vardar-Sukan F. (2009) Influence of supercritical CO2 and methanolic extracts of rosemary on sensory properties and shelf-life of wheat germ oil. Journal of Food Quality, 32, 709 – 724.
	4) Yesil Celiktas O., Kocabas Hames E., Bedir E., Vardar Sukan F., Ozek T., Baser C. (2007) Antimicrobial activities of methanol extracts and essential oils of Rosmarinus officinalis, depending on location and seasonal variations. Food Chemistry, 100, 553-559.
	3) Yesil-Celiktas O., Girgin G., Orhan H., Wichers H. J., Bedir E., Vardar-Sukan F. (2007) Screening of free radical scavenging capacity and antioxidant activities of Rosmarinus officinalis extracts with focus on location and harvesting times. European Food Research and Technology, 224, 443-451.
	2) Yesil-Celiktas O., Bedir E., Vardar Sukan F. (2007) In vitro antioxidant activities of Rosmarinus officinalis extracts treated with Supercritical Carbon Dioxide. Food Chemistry, 101, 1457-1464.
	1) Yesil-Celiktas O., Nartop P., Gurel A., Bedir E., Vardar Sukan F. (2007) Determination of Phenolic Content and Antioxidant Activity of Extracts Obtained from Rosmarinus officinalis' Calli. Journal of Plant Physiology, 164, 1536-1542.
Books/Book Chapters	Ozlem Yesil-Celiktas, Barbaros Cetin, Ender Yildirim, Mesut Yucel, Seref Akay, Aslihan Kazan, Ece Yildiz-Ozturk, Cahit Muderrisoglu, Esra Ilhan, Ecem Saygili, Cansu Yavuz, <i>Fundamentals and</i> <i>Applications of Microfluidic Technologies</i> (ISBN: 978-605-338-195-2) Editor – Ozlem Yesil Celiktas. Ege University Publications, Faculty of Engineering Publication No: 63, 204 pages, 2016 .
	Yesil-Celiktas, O. & Vardar-Sukan F., <i>Downstream Processes for Plant Cell and Tissue Culture</i> – Book chapter Biotechnology for Medicinal Plants- Propagation and Improvement (ISBN:978-3-642- 29973-5) Editors- Suman Chandra, Hemant Lata and Ajit Varma, Springer-Verlag Publication, 2012.
	Yesil-Celiktas, O., Gurel A., Vardar-Sukan F., <i>Large Scale Cultivation of Plant Cell and Tissue Culture in Bioreactors</i> , Transworld Research Network, Kerala, 2010.
Invited speaker	Yesil-Celiktas O. The Promise of Anticancer Agents Derived from Natural Compounds. 3rd Anticancer Agent Development Congress, pp. 17, 18-19 May, Izmir, Turkey, 2015.
	Yesil-Celiktas O. A holistic approach for full utilization of Stevia rebaudiana leaves. 1st International Conference of Greek Stevia, 1-3 March, Volos, Greece, 2013.
	Yesil-Celiktas, O., "Utilization of <i>Stevia rebaudiana</i> from cultivation to process optimization: A perspective from Turkey," 2 nd Stevia World Europe, 18-19 May, Genova, Switzerland, 2010
	Yesil-Celiktas, O., "Clustering of Organic Food Producers in the Aegean Region: An Attempt" in the seminar titled as "Research and Innovation in Puglia: which future for the Agrofood Sector" organised by Regional Agency for Technology and Innovation (Tecnopolis), 27 February, 2006, Bari, Italy.

Conferences Oral presentations total: 32

Ece Yildiz-Ozturk, Sultan Gulce-Iz, <u>Ozlem Yesil-Celiktas</u> (2015) Matrigel coated butterfly-shaped microchip for studying breast cancer cell invasion and migration to construct 3D cellular microenvironments. **21st International Biomedical Science and Technology Symposium**, p. 71, 22 - 24 October, Antalya, Turkey.

Aslihan Kazan, Marcel Heymuth, Dilan Karabulut, Seref Akay, Rene Heils, Irina Smirnova, Sayit Sargin, <u>Ozlem Yesil-Celiktas</u> (2015) Flow through biocatalytic conversions in microfluidic systems: comparison of organic and inorganic sol-gel matrices. **VII. Bioengineering Congress**, p. 43, 19-21 November, Izmir, Turkey.

Ece Yildiz-Ozturk, Cahit Muderrisoglu, Ismail Hakkı Akgun, Sait Sargın, <u>Ozlem Yesil-Celiktas</u> (2015) Development of a technique for determination of biomolecular diffusion coefficients in microfluidic systems. **VII. Bioengineering Congress**, p. 40, 19-21 November, Izmir, Turkey.

Ece Yildiz-Ozturk, Mesut Yucel, Sultan Gulce-Iz, <u>Ozlem Yesil-Celiktas</u> (2015) Cells in focus: invasion and chemotaxis in a butterfly-shaped microchip along with diffusion phenomena. **VII. Bioengineering Congress**, p. 42, 19-21 November, Izmir, Turkey.

Irem Cemre Turu, Ceren Turkcan Kayhan, Sinan Akgol, <u>Ozlem Yesil Celiktas</u> (2015) Isolation of exopolysaccharides from algal broth using a monolithic cryogel. International Porous & Powder Materials, 15-18 September, p. 69, Izmir, Turkey.

Ozlem Yesil Celiktas (2015) Transition from organ-on-a-chip to you-on-a-chip: Is it a fiction? **VII. Bioengineering Congress**, p. 37, 19-21 November, Izmir, Turkey.

Aslihan Kazan, Dilan Karabulut, Seref Akay, Lennard Lindmüller, Rene Heils, Irina Smirnova, Sayit Sargin, <u>Ozlem Yesil Celiktas</u> (2015) Fabricating silica and ca-alginate based monoliths for immobilization of β -glucosidase. **International Porous & Powder Materials**, 15-18 September, p. 158, Izmir, Turkey.

Dilan Karabulut, Aslihan Kazan, Seref Akay, Sayit Sargin, Barbaros Cetin, Ozlem Yesil Celiktas (2015) Development of microfluidic platforms for enzymatic conversions. 2nd International Congress on Biosensor, June 10-12, Izmir, Turkey.

Yesil-Celiktas O. Novel fluidic technologies with emphases on life science applications. 2nd Novel Fluidic Technologies and Applications Workshop, p.6, 9-10 April, Izmir, Turkey, 2015.

Yesil-Celiktas O. Immobilization of biological materials to microsystems. **Novel Fluidic Technologies and Applications Workshop**, p.7, 21-22 April, Izmir, Turkey, 2014.

Yesil-Celiktas O. A perspective on enzyme catalyzed reactions in a microfluidic system. VIth International Bioengineering Congress, p.31, 12-15 November, Kusadasi, Turkey, 2013.

Senyay-Oncel D., Kazan A., <u>Yesil-Celiktas O.</u> A novel approach for activity and stability enhancement of protease. **VIth International Bioengineering Congress**, p.52, 12-15 November, Kusadasi, Turkey, 2013.

Ozdemir-Kaynak E., Akay S., <u>Yesil-Celiktas O.</u> Improved methods for DNA isolation from ancient skeletal material. **VIth International Bioengineering Congress**, p.39, 12-15 November, Kusadasi, Turkey, 2013.

Gurer F., Kazan A., Celiktas M.S., <u>Yesil-Celiktas O.</u> Utilization of olive pomace by a green technology. **VIth International Bioengineering Congress**, p.56, 12-15 November, Kusadasi, Turkey, 2013.

Pala C., Sevimli-Gur C., Cetin-Uyanikgil E.O., <u>Yesil-Celiktas O.</u> Cytotoxic activity of anthocyanin rich black carrot extract on neuro 2A cell line. **VIth International Bioengineering Congress**, p. 45, 12-15 November, Kusadasi, Turkey, 2013.

Yildiz E., Karabulut D., Nalbantsoy A., <u>Yesil-Celiktas O.</u> Comparison of extraction methods of Echinacea purpurea and determination of cytotoxic activity of obtained extracts. **VIth International Bioengineering Congress**, p.52, 12-15 November, Kusadasi, Turkey, 2013.

Kazan A., Pala M., Yanik J., <u>Yesil-Celiktas O</u>. A promising approach for recycling of glass fiber reinforced composites using sub-critical water. **International Porous and Powder Materials Symposium**, p.162, 3-6 September, Cesme Turkey, 2013.

Senyay-Oncel D., Sargin S., <u>Yesil-Celiktas O.</u> Investigating biocatalytic properties of supercritical CO2 treated and untreated enzyme. **10th Conference on Supercritical Fluids and Their Applications**, p.345, 29 April- 6 May, Naples, Italy, 2013.

Ozdemir E., Akay S., <u>Yesil-Celiktas O.</u> Economic evaluation of polymeric scaffold by supercritical CO2 fabrication. **10th Conference on Supercritical Fluids and Their Applications**, p.255, 29 April- 6 May, Naples, Italy, 2013.

Sevimli-Gur C., <u>Yesil-Celiktas O.</u>, Vardar-Sukan F., Bedir E. Anticancer effects of methanolic, supercritical CO2 rosemary extracts, carnosic acid and rosmarinic acid. **15th European Congress on Biotechnology**, 23-26 September, Istanbul, Turkey, 2012.

Vardar-Sukan, F., <u>Yesil-Celiktas, O.</u> "Bioeconomy for bioindustries: Applications and Trends" **3rd International Conference on Industrial Biotechnology**, 24-27 June, Palermo, Italy, 2012.

Pilavtepe, M., <u>Yesil-Celiktas, O.</u> Supercritical fluid extraction of *Zostera marina* residues: An optimization and modeling study. **12th Eurasia Conference on Chemical Sciences**, 16-21 April, Corfu, Greece, 2012.

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