

Marisa Masumi Beppu

Curriculum Vitae

September 2016

Personal data

Name Marisa Masumi Beppu
Birth 25/10/1972 - RJ - Brasil
ID 086514890 IFP - RJ - 25/09/1990

Institution

Vice-Dean
University of Campinas – UNICAMP Brazil
Chemical Engineering School
Department of Materials and Biotechnology Process Engineering

Formation

2006 Post-Doctorate.
Massachusetts Institute Of Technology, MIT, USA

1996 - 1999 PhD
Universidade Estadual de Campinas, UNICAMP, Campinas, Brasil

1994 - 1996 MsC
Universidade Estadual de Campinas, UNICAMP, Campinas, Brasil

1993 Graduation: Chemical Engineering
Universidade Estadual de Campinas, UNICAMP, Campinas, Brasil

Projects: over 30 research project developed

Prizes:

Zeferino Vaz Prize – Excellence 2012
Productivity scholarship CNPq 1D – 2010
Best Chemical Engineering Student Award –CREA- 1993
Best PhD, Msc and student posters in CBPol, CHITIN, and other conferences.

Production

Full papers

1. HERNANDEZ-MONTELONGO, J.; LUCCHESI, E.G.; GONZALEZ, I.; MACEDO, W.A.A.; NASCIMENTO, V.F.; MORAES, A.M.; BEPPU, M.M.; COTTA, M.A.

Hyaluronan/chitosan nanofilms assembled layer-by-layer and their antibacterial effect: A study using Staphylococcus aureus and Pseudomonas aeruginosa. Colloids and Surfaces. B, Biointerfaces (Print). , v.141, p.499 - 506, 2016.

2. HERNÁNDEZ-MONTELONGO, JACOBO; NASCIMENTO, VICENTE F.; MURILLO, DUBER; TAKETA, THIAGO B.; SAHOO, PRASANA; DE SOUZA, ALESSANDRA A.; Beppu, Marisa M.; COTTA, MONICA A.

Nanofilms of hyaluronan/chitosan assembled layer-by-layer: An antibacterial surface for Xylella fastidiosa. Carbohydrate Polymers. , v.136, p.1 - 11, 2016.

3. RIBEIRO, MARTA; de Moraes, Mariana A.; Beppu, Marisa M.; GARCIA, MÓNICA P.; FERNANDES, MARIA H.; MONTEIRO, FERNANDO J.; FERRAZ, MARIA P.

Development of silk fibroin/nanohydroxyapatite composite hydrogels for bone tissue engineering. European Polymer Journal. , v.67, p.66 - 77, 2015.

4. CAMPELO, CLAYTON SOUZA; LIMA, LUANA DIAS; REBÊLO, LUCIANA MAGALHÃES; Mantovani, Diego; Beppu, Marisa Masumi; VIEIRA, Rodrigo Silveira

In vitro evaluation of anti-calcification and anti-coagulation on sulfonated chitosan and carrageenan surfaces. Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems (Print). , v.59, p.241-248 - ,

2015.

5. DEMIR, ALI GÖKHAN; TAKETA, THIAGO B.; TOLOUEI, RANNA; FURLAN, VALENTINA; PATERNOSTER, CARLO; Beppu, Marisa M.; Mantovani, Diego; PREVITALI, BARBARA
Laser surface structuring affects polymer deposition, coating homogeneity, and degradation rate of Mg alloys. *Materials Letters (General ed.)*. , v.160, p.359 - 362, 2015.

6. Polak, Roberta; LIM, ROSANNA M.; Beppu, Marisa M.; PITOMBO, RONALDO N. M.; COHEN, ROBERT E.; RUBNER, MICHAEL F.
Liposome-Loaded Cell Backpacks. *ADV HEALTHC MATER.* , v.1, p.n/a - n/a, 2015.

7. Polak, Roberta; BRADWELL, GRINIA M.; GILBERT, JONATHAN B.; DANIELSEN, SCOTT; Beppu, Marisa M.; COHEN, ROBERT E.; RUBNER, MICHAEL F.
Optimization of Amine-Rich Multilayer Thin Films for the Capture and Quantification of Prostate-Specific Antigen. *Langmuir.* , v.31, p.5479 - 5488, 2015.

8. BRESOLIN, IGOR TADEU LAZZAROTTO; Beppu, Marisa Masumi
Preface: 10th Brazilian meeting on adsorption. *Adsorption (Boston)*. , v.21, p.1 - 2, 2015.

9. CARNEIRO, RAFAEL T.A.; TAKETA, THIAGO B.; GOMES NETO, REGINALDO J.; OLIVEIRA, JHONES L.; CAMPOS, ESTEFÂNIA V.R.; de Moraes, Mariana A.; DA SILVA, CAMILA M.G.; Beppu, Marisa M.; FRACETO, LEONARDO F.
Removal of glyphosate herbicide from water using biopolymer membranes. *Journal of Environmental Management.* , v.151, p.353 - 360, 2015.

10. Vieira, Rodrigo S.; MENEGHETTI, Emerson; BARONI, Paula; Guibal, Eric; GONZÁLEZ DE LA CRUZ, VICTOR M.; CABALLERO, ALFONSO; Rodríguez-Castellón, Enrique; Beppu, Marisa M.
Chromium removal on chitosan-based sorbents - An EXAFS/XANES investigation of mechanism. *Materials Chemistry and Physics.* , v.146, p.412 - 417, 2014.

11. VAZ, JULIANA M.; MICHEL, ELÉONORE C.; CHEVALLIER, PASCALE; Beppu, Marisa M.; Mantovani, Diego
Covalent Grafting of Chitosan on Plasma-Treated Polytetrafluoroethylene Surfaces for Biomedical Applications. *Journal of Biomaterials and Tissue Engineering.* , v.4, p.915 - 924, 2014.

12. de Moraes, Mariana Agostini; CROUZIER, THOMAS; RUBNER, MICHAEL; Beppu, Marisa Masumi
Factors Controlling the Deposition of Silk Fibroin Nanofibrils during Layer-by-Layer Assembly. *Biomacromolecules.* , v.16, p.141218122154008 - , 2014.

13. de Moraes, Mariana Agostini; ALBRECHT MAHL, CYNTHIA REGINA; FERREIRA SILVA, MARIANA; Beppu, Marisa Masumi
Formation of silk fibroin hydrogel and evaluation of its drug release profile. *Journal of Applied Polymer Science (Print)*. , v.132, p.n/a - n/a, 2014.

14. TONOLI, Marina Salvarani; Beppu, Marisa Masumi
In situ X-ray diffraction study of phase development during hardening of beta- tricalcium phosphate bone cements with chitosan. *Key Engineering Materials.* , v.587, p.109 - 114, 2014.

15. GODOI, FERNANDA CONDI DE; RABELO, RODRIGO BALLONI; SILVA, Maria Aparecida; RODRIGUEZ-CASTELLON, ENRIQUE; Guibal, Eric; Beppu, Marisa Masumi
Introduction of copper nanoparticles in chitosan matrix as strategy to enhance chromate adsorption. *Chemical Engineering and Processing.* , v.83, p.43 - 48, 2014.

16. TAKETA, T. B.; BEPPU, M. M.
Layer-by-Layer Thin Films of Alginate/Chitosan and Hyaluronic Acid/Chitosan with Tunable Thickness and Surface Roughness. *Materials Science Forum (Online)*. , v.783-786, p.1226 - 1231, 2014.

17. PACHECO, Ricardo Barbon; TONOLI, Marina Salvarani; Beppu, Marisa Masumi
Membranes of chitosan and collagen-type 1 for biomineralization/osteoogenesis. *Key Engineering Materials.* , v.587, p.222 - 226, 2014.

18. MORAES, Mariana Agostini de; SILVA, Mariana Ferreira; WESKA, Raquel Farias; BEPPU, M. M.
Silk fibroin and sodium alginate blend: miscibility and physical characteristics. *Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems (Print)*. , v.40, p.85 - 91, 2014.
19. Polak, Roberta; CROUZIER, THOMAS; LIM, ROSANNA M.; RIBBECK, KATHARINA; BEPPU, M. M.; PITOMBO, R. N. M.; COHEN, ROBERT E.; RUBNER, MICHAEL F.
Sugar-mediated disassembly of mucin/lectin multilayers and their use as pH-tolerant, on-demand sacrificial layers. *Biomacromolecules*. , v.2014, p.140625165303004 - , 2014.
20. MARTINS, TIAGO DIAS; BATAGLIOLI, ROGÉRIO APARECIDO; TAKETA, T. B.; VASCONCELLOS, FERNANDO DA CRUZ; BEPPU, M. M.
Surface Modification Of Polyelectrolyte Multilayers By High Radio Frequency Air Plasma Treatment. *Applied Surface Science*. , v.329, p.287 - 291, 2014.
21. Vieira, Melissa Gurgel Adeodato; SILVA, MARIANA ALTENHOFEN DA; MAÇUMOTO, ANDRÉ COSTA GOMES; SANTOS, LUCIELEN OLIVEIRA DOS; Beppu, Marisa Masumi
Synthesis and application of natural polymeric plasticizer obtained through polyesterification of rice fatty acid. *Materials Research (São Carlos. Impresso)*. , v.17, p.386 - 391, 2014.
22. GODOI, FERNANDA CONDI DE; RODRIGUEZ-CASTELLON, ENRIQUE; Guibal, Eric; Beppu, Marisa Masumi
An Xps Study Of Chromate And Vanadate Sorption Mechanism By Chitosan Membrane Containing Copper Nanoparticles. *Chemical Engineering Journal (1996)*. , v.1, p.1 - 1, 2013.
23. de Moraes, Mariana Agostini; Beppu, Marisa Masumi
Biocomposite membranes of sodium alginate and silk fibroin fibers for biomedical applications. *Journal of Applied Polymer Science (Print)*. , v.130, p.n/a - n/a, 2013.
24. LIMA, PEDRO H.L.; PEREIRA, SAULO V.A.; RABELLO, RODRIGO B.; RODRIGUEZ-CASTELLÓN, ENRIQUE; Beppu, Marisa M.; CHEVALLIER, PASCALE; Mantovani, Diego; Vieira, Rodrigo S.
Blood protein adsorption on sulfonated chitosan and κ-carrageenan films. *Colloids and Surfaces. B, Biointerfaces (Print)*. , v.111, p.719 - 725, 2013.
25. CARNEIRO, THIANE N.; NOVAES, DENISE S.; Rabelo, Rodrigo B.; CELEBI, BETUL; CHEVALLIER, PASCALE; Mantovani, Diego; Beppu, Marisa M.; Vieira, Rodrigo S.
BSA and Fibrinogen Adsorption on Chitosan/κ-Carrageenan Polyelectrolyte Complexes. *Macromolecular Bioscience (Print)*. , v.13, p.n/a - n/a, 2013.
26. AGOSTINI DE MORAES, MARIANA; Cocenza, Daniela Sgarbi; DA CRUZ VASCONCELLOS, FERNANDO; Fraceto, Leonardo Fernandes; Beppu, Marisa Masumi
Chitosan and alginate biopolymer membranes for remediation of contaminated water with herbicides. *Journal of Environmental Management*. , v.131, p.222 - 227, 2013.
27. MORAES, Mariana Agostini de; MORAES, Mariana Agostini de; BEPPU, M. M.; WESKA, Raquel Farias
Effects of sterilization methods on the physical, chemical, and biological properties of silk fibroin membranes. *Journal of Biomedical Materials Research. Part B, Applied Biomaterials*. , v.1, p.n/a - n/a, 2013.
28. BEPPU, M. M.; MORAES, Mariana Agostini de; SILVA, Mariana Ferreira; MORAES, Mariana Agostini de; NOGUEIRA, Grínia Michelle; RODAS, Andrea Cecília Dorion; HIGA, Olga Zazuco
Glycerin and ethanol as additives on silk fibroin films: Insoluble and malleable films. *Journal of Applied Polymer Science (Print)*. , v.128, p.115 - 122, 2013.
29. Polak, Roberta; Rodas, Andrea C.D.; CHICOMA, DENNIS L.; GIUDICI, REINALDO; BEPPU, M. M.; Higa, Olga Z.; HIGA, O. Z.; Pitombo, Ronaldo N.M.
Inhibition of calcification of bovine pericardium after treatment with biopolymers, E-beam irradiation and in vitro endothelialization. *Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems (Print)*. , v.33, p.85 - 90, 2013.
30. SANTOS, D. T.; SANTOS, D. T.; BEPPU, M. M.; ALBARELLI, J. Q.; MEIRELES, M. A. A.

Stabilization of Anthocyanin Extract from Jaboticaba Skins by Encapsulation Using Supercritical CO₂ as Solvent. *Food Research International*. , v.50, p.617 - 624, 2013.

31. Rabelo, R. B.; VIEIRA, R. S.; LUNA, F. M. T.; GUIBAL, E.; BEPPU, M. M.
Adsorption of Copper(II) and Mercury(II) Ions onto Chemically-modified Chitosan Membranes: Equilibrium and Kinetic Properties. *Adsorption Science & Technology*. , v.30, p.1 - 22, 2012.

32. Paternotte, Estelle; AGOSTINI DE MORAES, MARIANA; Beppu, Marisa Masumi; Mantovani, Diego
Collagen-Silk Fibroin Fibers: A Promising Scaffold for Vascular Tissue Engineering. *Materials Science Forum (Online)*. , v.706-709, p.572 - 577, 2012.

33. FARIA-MACHADO, ADELIA FERREIRA; Beppu, Marisa Masumi; da Silva, Mariana Altenhofen; Vieira, Melissa Gurgel Adeodato
Epoxidation of modified natural plasticizer obtained from rice fatty acids and application on polyvinylchloride films. *Journal of Applied Polymer Science (Print)*. , v.127, p.n/a - n/a, 2012.

34. Albarelli, Juliana Q.; Albarelli, Juliana Q.; Beppu, Marisa M.; Luna, Murilo T.; Vieira, Rodrigo S.; Luna, Murilo T.; Vieira, Rodrigo S.; Beppu, Marisa M.
Evaluation of Glass Beads Coated with Chitosan for the Adsorption of Copper(II) Ions from Aqueous Solution. *Adsorption Science & Technology*. , v.30, p.227 - 240, 2012.

35. de Moraes, Mariana Agostini; Paternotte, Estelle; Mantovani, Diego; Beppu, Marisa Masumi
Mechanical and Biological Performances of New Scaffolds Made of Collagen Hydrogels and Fibroin Microfibers for Vascular Tissue Engineering. *Macromolecular Bioscience (Print)*. , v.12, p.1253 - 1264, 2012.

36. de Paiva, Rafael G.; de Paiva, Rafael G.; de Moraes, Mariana A.; Beppu, Marisa M.; De Godoi, Fernanda C.; Beppu, Marisa M.; De Godoi, Fernanda C.; de Moraes, Mariana A.
Multilayer biopolymer membranes containing copper for antibacterial applications. *Journal of Applied Polymer Science (Print)*. , v.--, p.n/a - n/a, 2012.

37. Cocenza, Daniela Sgarbi; Cocenza, Daniela Sgarbi; Moraes, Mariana A.; Beppu, Marisa M.; Beppu, Marisa M.; Fraceto, Leonardo Fernandes; Moraes, Mariana A.
Use of Biopolymeric Membranes for Adsorption of Paraquat Herbicide from Water. *Water, Air and Soil Pollution (Dordrecht. Online)*. , v.223, p.3093 - 3104, 2012.

38. Vieira, Rodrigo S.; Oliveira, Mona Lisa M.; Guibal, Eric; Rodríguez-Castellón, Enrique; Beppu, Marisa M.
Copper, mercury and chromium adsorption on natural and crosslinked chitosan films: An XPS investigation of mechanism. *Colloids and Surfaces. A, Physicochemical and Engineering Aspects (Print)*. , v.374, p.108 - 114, 2011.

39. Albarelli, Juliana Q.; Rabelo, Rodrigo B.; Santos, Diego T.; Beppu, Marisa M.; Meireles, M. Angela A.
Effects of supercritical carbon dioxide on waste banana peels for heavy metal removal. *The Journal of Supercritical Fluids*. , v.58, p.343 - 351, 2011.

40. Nogueira, Grinia Michelle; de Moraes, Mariana Agostini; Rodas, Andrea Cecilia Dori3n; Higa, Olga Zazuco; Beppu, Marisa Masumi
Hydrogels from silk fibroin metastable solution: Formation and characterization from a biomaterial perspective. *Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems (Print)*. , p.1 - , 2011.

41. Vieira, Melissa Gurgel Adeodato; da Silva, Mariana Altenhofen; dos Santos, Lucielen Oliveira; Beppu, Marisa Masumi
Natural-based plasticizers and biopolymer films: A review. *European Polymer Journal*. , v.47, p.254 - 263, 2011.

42. Altenhofen da Silva, Mariana; Adeodato Vieira, Melissa Gurgel; Gomes Maçumoto, André Costa; Beppu, Marisa Masumi
Polyvinylchloride (PVC) and natural rubber films plasticized with a natural polymeric plasticizer obtained through polyesterification of rice fatty acid. *Polymer Testing*. , v.30, p.478 - 484, 2011.

43. Vasconcellos, Fernando C.; Goulart, Gilberto A.S.; Beppu, Marisa M.
Production and characterization of chitosan microparticles containing papain for controlled release applications. *Powder Technology*. , v.205, p.65 - 70, 2011.
44. BEPPU, M. M.; MORAES, Mariana Agostini de; AGOSTINI DE MORAES, MARIANA; SILVA, Mariana Ferreira; WESKA, Raquel Farias
Silk Fibroin: A Promising Biomaterial. *Advanced Materials Research (Online)*. , v.409, p.99 - 104, 2011.
45. VASCONCELLOS, F. C.; Vasconcellos, F.C.; Bataglioli, R.A.; BEPPU, M. M.; Flores, E.B.
Thermal Treatment Effects on Biopolymer Multilayered Thin Films. *Advanced Materials Research (Online)*. , v.409, p.181 - 186, 2011.
46. Vasconcellos, Fernando C.; Swiston, Albert J.; Beppu, Marisa M.; Cohen, Robert E.; Rubner, Michael F.
Bioactive Polyelectrolyte Multilayers: Hyaluronic Acid Mediated B Lymphocyte Adhesion. *Biomacromolecules*. , v.11, p.2407 - 2414, 2010.
47. Nogueira, Grinia M.; Rodas, Andrea C.D.; Weska, Raquel F.; Aimoli, Cassiano G.; Higa, Olga Z.; Maizato, Marina; Leiner, Adolfo A.; Pitombo, Ronaldo N.M.; POLAKIEWICZ, Bronislaw; Beppu, Marisa Masumi
Bovine pericardium coated with biopolymeric films as an alternative to prevent calcification: In vitro calcification and cytotoxicity results. *Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems (Print)*. , v.30, p.575 - 582, 2010.
48. Kleinübing, Sirlei Jaiana; VIEIRA, Rodrigo Silveira; Beppu, Marisa Masumi; Guibal, Eric; SILVA, Meuris Gurgel Carlos da
Characterization and evaluation of copper and nickel biosorption on acidic algae *Sargassum Filipendula*. *Materials Research (São Carlos. Impresso)*. , v.13, p.541 - 550, 2010.
49. MENEGHETTI, Emerson; VIEIRA, Rodrigo Silveira; BARONI, Paula; DA SILVA, M.G.C.; Beppu, Marisa Masumi
Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. *Materials Research (São Carlos. Impresso)*. , v.13, p.89 - 94, 2010.
50. POLAK, R.; WESKA, R. F.; RODAS, A. C. D.; BEPPU, M. M.; HIGA, O. Z.; Pitombo, Ronaldo N.M.
FREEZE-DRIED AND IRRADIATED BOVINE PERICARDIUM MODIFIED WITH SILK FIBROIN AND CHITOSAN: CALCIFICATION RESULTS. *The International Journal of Artificial Organs (Testo stampato)*. , v.33, p.481 - 481, 2010.
51. Nogueira, Grinia M.; Swiston, Albert J.; Beppu, Marisa Masumi; RUBNER, M. F.
Layer-by-Layer Deposited Chitosan/Silk Fibroin Thin Films with Anisotropic Nanofiber Alignment. *Langmuir*. , p.100216080742050 - 0, 2010.
52. Weska, Raquel Farias; AIMOLI, Cassiano Gomes; NOGUEIRA, Grínia Michelle; LEIRNER, A. A.; MAIZATO, Marina J S; Higa, Olga Z.; POLAKIEWICZ, Bronislaw; PITOMBO, Ronaldo Nogueira de Moraes; Beppu, Marisa Masumi
Natural and Prosthetic Heart Valve Calcification: Morphology and Chemical Composition Characterization. *Artificial Organs*. , v.34, p.311 - 318, 2010.
53. Nogueira, Grinia M.; Rodas, Andrea C.D.; Leite, Carlos A.P.; Giles, Carlos; Higa, Olga Z.; POLAKIEWICZ, Bronislaw; Beppu, Marisa M.
Preparation and characterization of ethanol-treated silk fibroin dense membranes for biomaterials application using waste silk fibers as raw material. *Bioresource Technology*. , v.101, p.8446 - 8451, 2010.
54. Moraes, Mariana Agostini de; Nogueira, Grinia Michelle; Weska, Raquel Farias; Beppu, Marisa Masumi
Preparation and Characterization of Insoluble Silk Fibroin/Chitosan Blend Films. *Polymers*. , v.2, p.719 - 727, 2010.
55. Tattini Junior, Virgilio; RODAS, A. C. D.; MAIZATO, Marina J S; LEIRNER, A. A.; BEPPU, M. M.; HIGA, O. Z.; POLAKIEWICZ, Bronislaw; PITOMBO, Ronaldo Nogueira de Moraes
STRUCTURAL CHARACTERIZATION AND IN VITRO ENDOTHELIZATION STUDY OF FREEZE-DRIED

BOVINE PERICARDIUM MEMBRANES. The International Journal of Artificial Organs (Testo stampato). , v.33, p.481 - 481, 2010.

56. Nogueira, Grínia M.; Weska, Raquel F.; Vieira, Wellington C.; POLAKIEWICZ, Bronislaw; Rodas, Andrea C. D.; Higa, Olga Z.; BEPPU, M. M.

A new method to prepare porous silk fibroin membranes suitable for tissue scaffolding applications. Journal of Applied Polymer Science. , v.114, p.617 - 623, 2009.

57. PAIVA, Rafael Gonçalves de; Rodrigo Silveira Vieira; AIMOLI, Cassiano Gomes; Beppu, Marisa Masumi
An EXAFS study of the binding of chromium, mercury and copper on natural, crosslinked and multilayer chitosan films. AIP Conference Proceedings. , v.1092, p.176 - 179, 2009.

58. Weska, Raquel Farias; Vieira Jr., Wellington Carlos; NOGUEIRA, Grínia Michelle; BEPPU, M. M.
Effect of freezing methods on the properties of lyophilized porous silk fibroin membranes. Materials Research. , v.12, p.233 - 237, 2009.

59. de Lima, Daniel Oliveira; AIMOLI, Cassiano Gomes; Beppu, Marisa Masumi
Investigation on the biomimetic influence of biopolymers on calcium phosphate precipitation; Part 1: Alginate. Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems (Print). , v.29, p.1109 - 1113, 2009.

60. WESKA, R.; NOGUEIRA, Grínia Michelle; VIEIRA JR, W. C.; BEPPU, M. M.
Porous silk fibroin membrane as a potential scaffold for bone regeneration. Key Engineering Materials. , v.396, p.187 - 190, 2009.

61. Machado, Giovanna; Beppu, Marisa M.; Feil, Adriano F.; Figueroa, Carlos A.; Correia, Ricardo Rego Bordalo; Teixeira, Sérgio R.
Silver Nanoparticles Obtained in PAH/PAA-Based Multilayers by Photochemical Reaction. Journal of physical chemistry. C. , v.113, p.19005 - 19010, 2009.

62. NOGUEIRA, Grínia Michelle; AIMOLI, Cassiano Gomes; WESKA, R.; LEIRNER, A. A.; MAIZATO, Marina J S; HIGA, O. Z.; POLAKIEWICZ, Bronislaw; PITOMBO, Ronaldo Nogueira de Moraes; BEPPU, M. M.
Study of Morphology of Cardiac Valves (Human and Bovine Pericardium) after In Vivo Calcification. Key Engineering Materials. , v.396, p.187 - 190, 2009.

63. Borgognoni, Camila Figueiredo; Tattini Junior, Virgilio; Ayrosa, Ana Maria Irene Bartolomeu; POLAKIEWICZ, Bronislaw; Leirner, Adolfo Alberto; Maizato, Marina Junko Shiotsu; Higa, Olga Zazuco; Beppu, Marisa Masumi; PITOMBO, Ronaldo Nogueira de Moraes
The influence of freezing rates on bovine pericardium tissue Freeze-drying. Brazilian Archives of Biology and Technology. , v.52, p.1493 - 1504, 2009.

64. OLIVEIRA, Aline Pereira de; MOTITSUKE, M.; BEPPU, M. M.
A comparative study of β -TCP prepared by solid state reaction and by aqueous solution precipitation. Key Engineering Materials. , v.361, p.355 - 358, 2008.

65. RODAS, A. C. D.; MAIZATO, Marina J S; LEIRNER, A. A.; POLAKIEWICZ, Bronislaw; PITOMBO, Ronaldo Nogueira de Moraes; BEPPU, M. M.; HIGA, O. Z.
Cytotoxicity and genotoxicity of bovine pericardium preserved in glycerol. Artificial Organs. , v.32, p.272 - 276, 2008.

66. BARONI, P; VIEIRA, R; MENEGHETTI, E; DASILVA, M; BEPPU, M. M.
Evaluation of batch adsorption of chromium ions on natural and crosslinked chitosan membranes. Journal of Hazardous Materials. , v.152, p.1155 - 1163, 2008.

67. NOGUEIRA, Grínia Michelle; AIMOLI, Cassiano Gomes; WESKA, R.; NASCIMENTO, Leandro da Silva; BEPPU, M. M.
"In Vitro" Calcification of Silk Fibroin Hydrogel. Key Engineering Materials. , v.361, p.503 - 506, 2008.

68. AIMOLI, C; DELIMA, D; BEPPU, M

Investigation on the biomimetic influence of biopolymers on calcium phosphate precipitation-part 2: Chitosan. *Materials Science & Engineering. C, Biomimetic Materials, Sensors and Systems.* , v.28, p.1565 - 1571, 2008.

69. VIEIRA, Rodrigo Silveira; GUIBAL, E.; SILVA, E. A.; BEPPU, M. M.
Adsorption and desorption of binary mixtures of copper and mercury ions on natural and crosslinked chitosan membranes. *Adsorption (Boston).* , v.13, p.603 - 611, 2007.

70. TORRES, Marco Antonio; BEPPU, M. M.; SANTANA, Cesar Costapinto
Characterization of chemically modified chitosan microspheres as adsorbents using standard proteins (bovine serum albumin and lysozyme). *Brazilian Journal of Chemical Engineering.* , v.24, p.325 - 336, 2007.

71. BEPPU, M. M.; VIEIRA, Rodrigo Silveira; AIMOLI, Cassiano Gomes; SANTANA, Cesar Costapinto
Crosslinking of chitosan membranes using glutaraldehyde: Effect on ion permeability and water absorption. *Journal of Membrane Science.* , v.301, p.126 - 130, 2007.

72. DALLAN, Paula Rulf Marreco; MOREIRA, Patrícia da Luz; PETINARI, Leandro; MALMONGE, Sônia Maria; BEPPU, M. M.; GENARI, Selma Candelária; MORAES, Ângela Maria
Effects of chitosan solution concentration and incorporation of chitin and glycerol on dense chitosan membrane properties. *Journal Of Biomedical Materials Reserach Part B Applied Biomaterials.* , v.80B, p.394 - 405, 2007.

73. AYROSA, A.M.I.B; MAIZATO, Marina J S; POLAKIEWICS, Bronislau; BEPPU, M. M.; HIGA, O. Z.; PITOMBO, Ronaldo Nogueira de Moraes
Estudo do comportamento higroscópico do pericárdio bovino liofilizado.. *Matéria (UFRJ).* , v.12, p.313 - 321, 2007.

74. AIMOLI, Cassiano Gomes; NOGUEIRA, Grínia Michelle; NASCIMENTO, Leandro da Silva; BACETI, A.; PITOMBO, Ronaldo Nogueira de Moraes; POLAKIEWICZ, Bronislau; BEPPU, M. M.
Lyophilized Bovine Pericardium Treated With a Phenethylamine-Diepoxide as an Alternative to Preventing Calcification of Cardiovascular Bioprosthesis: Preliminary Calcification Results. *Artificial Organs.* , v.na, p.no - prelo, 2007.

75. TORRES, Marco Antonio; BEPPU, M. M.; SANTANA, Cesar Costapinto
Production of Chemically Modified Chitosan Microspheres through Spraying and Coagulation Method. *Materials Research.* , v.10, p.149 - 175, 2007.

76. VIEIRA, R. S.; BEPPU, M. M.; VIEIRA, R. S.
Adsorption and Desorption of Hg(II) Ions on Membranes and Spheres of Chitosan by Static and Dynamic Methods. *Water Research.* , v.40, p.1726 - 1734, 2006.

77. TONOLI, Marina Salvarani; LEAL, Claudenete V; ZAVAGLIA, Cecília Amélia; BEPPU, M. M.
Development and characterization of b- tricalcium phosphate cements containing chitosan. *Key Engineering Materials.* , v.309, p.845 - 848, 2006.

78. VIEIRA, Rodrigo Silveira; BEPPU, M. M.
Dynamic and Static Adsorption and Desorption of Hg(II) Ions on Membranes and Spheres of Chitosan by Static and Dynamic Methods. *Water Research (Oxford).* , v.40, p.1726 - 1734, 2006.

79. LIMA, Daniel Oliveira de; SILVA, Marcelo Henrique Prado da; CAMPOS, J B; ROSSI, M A; BEPPU, M. M.
Influence of alginate on precipitation of calcium phosphates. *Key Engineering Materials.* , v.309, p.195 - 198, 2006.

80. VIEIRA, Rodrigo Silveira; BEPPU, M. M.
Interaction of natural and crosslinked chitosan membranes with Hg(II) ions. *Colloids and Surfaces. A, Physicochemical and Engineering Aspects.* , v.279, p.196 - 207, 2006.

81. AIMOLI, Cassiano Gomes; TORRES, Marco Antonio; BEPPU, M. M.
Investigations into the early stages of in vitro calcification on chitosan films. *Materials Science & Engineering.*

C, Biomimetic Materials, Sensors and Systems. , v.26, p.78 - 86, 2006.

82. AIMOLI, Cassiano Gomes; BEPPU, M. M.

Precipitation of calcium phosphate and calcium carbonate induced over chitosan membranes: a quick method to evaluate the influence of polymeric matrices in heterogeneous calcification. Colloids and Surfaces. B, Biointerfaces. , v.53, p.15 - 22, 2006.

83. TORRES, Marco Antonio; BEPPU, M. M.; SANTANA, Cesar Costapinto; ARRUDA, Eduardo Jose de

Viscoelastic Properties of Chitosan Solutions and Gels. Brazilian Journal of Food Technology (ITAL). , v.9, p.101 - 108, 2006.

84. TORRES, Marco Antonio; AIMOLI, Cassiano Gomes; BEPPU, M. M.; FREJLICH, Jaime

Chitosan membrane with patterned surface obtained through solution drying. Colloids and Surfaces. A, Physicochemical and Engineering Aspects. , v.268, p.175 - 179, 2005.

85. BEPPU, M. M.; TORRES, Marco Antonio; AIMOLI, Cassiano Gomes; GOULART, Gilberto Alexandre; SANTANA, Cesar Costapinto

In vitro mineralization on chitosan using solutions with excess of calcium and phosphate ions. Journal of Materials Research. , v.20, p.1 - 9, 2005.

86. VIEIRA, Rodrigo Silveira; BEPPU, M. M.

Mercury Ion Recovery Using Natural and Crosslinked Chitosan Membranes. Adsorption (Boston). , v.11, p.731 - 736, 2005.

87. TORRES, Marco Antonio; VIEIRA, Rodrigo Silveira; BEPPU, M. M.; SANTANA, Cesar Costapinto

Produção e Caracterização de Microesferas de Quitosana Modificadas Quimicamente. Polímeros (São Carlos). , v.15, p.306 - 312, 2005.

88. BEPPU, M. M.; ARRUDA, Eduardo Jose de; VIEIRA, Rodrigo Silveira; SANTOS, N. N.

Adsorption of Cu(II) on porous chitosan membranes functionalized with histidine. Journal of Membrane Science (Print). , v.240, p.227 - 235, 2004.

89. BEPPU, M. M.; SANTANA, Cesar Costapinto

Directions of chitosan membranes in technological applications. Chemical Engineering Communications. , v.191, p.1147 - 1157, 2004.

90. BEPPU, M. M.; AIMOLI, Cassiano Gomes

Influence of acetylation on in vitro chitosan membrane biomineralization. Key Engineering Materials. , v.254, p.311 - 314, 2004.

91. BEPPU, M. M.; SANTANA, Cesar Costapinto

PAA influence on chitosan membrane calcification. Materials Science & Engineering. A, Structural Materials: properties, microstructure and processing. , v.23, p.651 - 658, 2003.

92. BEPPU, M. M.; SANTANA, Cesar Costapinto

Influence of calcification solution on in vitro chitosan mineralization. Materials Research. , v.5, p.47 - 50, 2002.

93. BEPPU, M. M.; SANTANA, Cesar Costapinto

In vitro biomineralization of chitosan. Key Engineering Materials. , v.192, p.31 - 34, 2001.

94. BEPPU, M. M.; ARRUDA, Eduardo Jose de; SANTANA, Cesar Costapinto

Síntese de caracterização de estruturas densas e porosas de quitosana. Polímeros (São Carlos). , v.4, p.163 - 169, 1999.

95. BEPPU, M. M.; LIMA, E. C. O.; GALEMBECK, Fernando

Self-Opacifying Aluminum Phosphate Particles for Paint Film Pigmentation. JCT, Journal of Coatings Technology (Cessou em 2003. Foi desmembrado em dois: ISSN 1547-0083 JCT Coatingstech; ISSN 1547-0091 JCT Research). , v.68, p.81 - 88, 1997.

96. BEPPU, M. M.; LIMA, E. C. O.; GALEMBECK, Fernando
Aluminum Phosphate Particles Containing Closed Pores: Preparation, Characterization, and Use as a White Pigment. *Journal of Colloid and Interface Science (Print)*. , v.178, p.93 - 103, 1996.

97. BEPPU, M. M.; LIMA, E. C. O.; GALEMBECK, Fernando
Nano-Sized Particles of Aluminum Polyphosphate. *Langmuir*. , v.12, p.1701 - 1703, 1996.

98. BEPPU, M. M.; GALEMBECK, Fernando; LIMA, E. C. O.; VALENTE FILHO, J. F.; SOARES, D. M.
Non-Crystalline Aluminum Polyphosphates: Preparation and Properties. *Journal of the Brazilian Chemical Society*. , v.7, p.209 - 215, 1996.

99. BEPPU, M. M.; GALEMBECK, Fernando; SOUZA, E. F.; LIMA, E. C. O.; SASSAKI, R. M.; MASSON, N.; MONTEIRO, V. A. R.
Polyphosphate nanoparticles and gels - From macroscopic monoliths to nanoparticles. *Proceedings From Nato Advanced Research Workshop*. , v.12, p.267 - 279, 1996.

Book Chapters

1. Santos, Diego T.; VARDANEGA, R.; ALBARELLI, J. Q.; RABELLO, RODRIGO B.; Beppu, Marisa Masumi; MEIRELLES, M.A.A.
Effects of Ultrasound Assisted Extraction of Water Soluble Constituents on Brazilian Ginseng Roots In: *Recent Advances in Ginseng and Glycosides Research*.1 ed.Nova Iorque : Nova Publishers, 2012, v.1, p. 14-28.

2. AGOSTINI DE MORAES, MARIANA; Beppu, Marisa Masumi
Silk Fibroin Hydrogels: A Review under Biomaterials Perspective In: *Hydrogels: Synthesis, Characterization and Applications*.1 ed.Nova Iorque : Nova Publishers, 2012, v.1, p. 209-226.

3. AGOSTINI DE MORAES, MARIANA; Beppu, Marisa Masumi
Toward eco-friendly composite materials based on silk fibroin In: *Silk: Properties, Production and Uses*.1 ed.Nova Iorque : Nova Publishers, 2012, v.1, p. 151-166.

4. BEPPU, M. M.; AIMOLI, Cassiano Gomes
Current Research and Developments on Chitin and Chitosan in Biomaterials Science In: *Current Research and Developments on Chitin and Chitosan in Biomaterials Science*.1 ed.Kerala : Research Signpost, 2008, v.1, p. 125-143.

5. VIEIRA, Rodrigo Silveira; BEPPU, M. M.
Chitosan as Adsorbent for Heavy Metal Ions: Performance and Adsorption Mechanism In: *Water Resources Research Progress*.1 ed. : Nova Science Publishers, Inc, 2007, v.1, p. 149-175.

Patents: 5

Concluded Supervision or Advisor activities

MSc: 17

PhD:9

Undergraduate student research supervisor: 30 students

Supervision of post-doctors: 7