Bibliography

[1] J. F. Robyt, Essentials of Carbohydrate Chemistry, Spinger Advanced Texts in Chemistry. Spinger-Verlag, New York. (1998).

[2] V. Tolstoguzov, Food Hydrocolloids 18 (2004). 873-877.

[3] A. Varki, R. Cummings, J. Esko, H. Freeze, P. Stanley, C. Bertozzi, G. Hart, M. Etzler. Essentials of glycobiology. Cold Spring Harbor Laboratory Press; 2nd edition. (2008). ISBN 0-87969-770-9.

[4] D. William, F. I. K. McArdle, L. K. Victor, Exercise physiology: energy, nutrition, and human performance, illustrated Published by Lippincott Williams & Wilkins, Edition 6 (2006). ISBN 0781749905.

[5] R. L. Crawford, Lignin biodegradation and transformation. New York: John Wiley and Sons. (1981). ISBN 0-471-05743-6.

[6] D. M. Updegraff, Analytical Biochemistry. 32 (1969). 420-424.

[7] I. Miwa & S. Suzuki, Annals of Clinical Biochemistry. 39 (2002) 612–613.

[8] R. L. Ingermann & G. L. Virgin, The journal of Experimental Biology. 129 (1987) 141-149.

[9] J. Lunn, J. L. Buttriss, Nutr. Bull. 32 (2007) 21–64.

[10] A. S. Attele, J. A. Wu & C. S. Yuan, Biochemical Pharmacology. 58 (1999) 1685-1693.

[11] M. Rianaudo, Progress in Polymer science. 31 (2006) 603-632.

[12] I. Aranaz, M. Mengíbar, R. Harris, I. Paños, B. Miralles, N. Acosta, G. Galed & A. Heras, Current Chemical Biology. 3 (2009). 203-230.

[13] T.N. Laremore, F. Zhang, J. S. Dordick, J. Liu, R. J. Linhardt, Curr. Opin. Chem. Biol. 13 (2009) 633–640.

[14] B. N. Chatterjee, N. Sarkar & A. S. Rao. Carbohydrate Research. 104 (1982) 348-350.

[15] S. T. Chang, J. A. Buswell, P. G. Miles, Genetics and breeding of edible mushrooms. Gordon and Breach Science Publishers, Netherlands, (1992) 125-155.

[16] N. Rahmad, J. R. Al-Obaidi, N. M. N. Rashid, N. B. Zean, M. H. Y. M. Yusoff, N. S., Shaharuddin, Biological Research. 47 (2014) 30.

[17] B. Kumari, N. S. Atri & R. C. Upadhyay, World Journal of Agricultural Sciences. 8(4) (2012) 415–420.

[18] N. A. Malek, G. Kanagasabapathy, V. Sabaratnam, N. Abdullah & H. Yaacob, International Journal of Food Properties. 15 (2012) 809–814.

[19] S. S. Tripathy, A. Rajoriya & N. Gupta, Journal of Pharmaceutical Biology. 4(3) (2014) 138–147.

[20] P. Manzi, L. Gambelli, S. Marconi, V. Vivanti, L. Pizzoferrato, Food Chemistry. 65 (4) (1999) 477–482.

[21] P. D. Guedes, B. Ribeiro, R.F. Goncalves, P. Baptista, P. Valentao, R.M. Seabre, P.B. Andrade, Journal of Agricultural and Food Chemistry, 56 (2008) 1704–1712.

[22] D. M. Agrahar & G. Subbulakshmi, Food Chemistry. 89 (2005) 599–603.

[23] B. A. Wani, R. H. Bodha & A. H. Wani, Journal of Medicinal Plants Research. 4(24) (2010) 2598–2604.

[24] B. Ribeiro, P. Valentao, P. Baptista, R. M. Seabra & P. B. Andrade, Food and Chemical Toxicology. 45 (2007) 1805–1813.

[25] A. Villares, L. Mateo-Vivaracho & E. Guillamon, Agriculture. 2 (2012) 452–471.

[26] W. H. Fitzpatrick, W. B. Esselen & E. Weir, Journal of the American Dietetic Association, 22 (1946) 318-323.

[27] W. Lintzel, Biochemica et Biophysica Acta. 308 (1941) 413-419.

[28] G. Kansci, D. C. Mossebo, A. B. Selatsa and M. Fosto, Nahurang, 47 (2003) 213-216.

[29] V. A. Aletor, Food Chemistry, 54 (1995) 265–268.

[30] S. S. Davidson, G. Johnsy, A. Samuel, V. Kaviyarasan, Indian Journal of Traditional Knowledge 11 (1) (2012) 150–153.

[31] S. K. Deshmukh, Microbiology and Biotechnology for Sustainable Development. CBS Publishers and Distributors, New Delhi, India, pp. (2004) 121–140.

[32] E. Guillamon, A. G. Lafuente, M. Lozano, Fitoterapia. 81(7) (2010) 715–723.

[33] C. P. Kala, Food Chemistry. 113 (2009) 9–16.

[34] J. Cui, Y. Chisti, Biotech. Adv. 21 (2003) 109-122.

[35] S. T. Chang & S. P. Wasser, International Journal Medicinal Mushrooms. 14 (2012) 95–134.

[36] S. P. Wasser, & A. L. International Journal Medicinal Mushrooms. 1 (1999) 31–62.

[37] C. Hobbs, Medicinal mushrooms: an exploration of tradition, healing and culture. Botanica Press, Santa Cruz, Calif. (1995).

[38] F. R. Smiderle, L. M. Olsen, E. R. Carbonero, C. H. Baggio, C. S. Freitas, R. Marcon, A. R. Santos, P.A. Gorin, M. Iacomini, Eur. J. Pharmacol. 597 (2008) 86-91.

[39] M. Zhang, S. W. Cui, P.C.K. Cheung, Trends Food Sci. Technol. 18 (2007) 4-19.

[40] J. A. Bohn and J. N. BeMiller, Carbohydrate Polymers. 28 (1995) 3–14.

[41] P. W. Mansell, H. Ichinose, R. J. Reed, E. T. Krementz, R. McNamee, N. R. J. Di Luzio, Natl. Cancer Inst. 54 (1975) 571-580.

[42] K. Morikawa, R. Takeda, M. Yamazaki, D. Mizuno, Cancer Res. 45 (1985) 1496-1501.

[43] N. N. Miura, N. Ohno, J. Aketagawa, H. Tamura, S. Tanaka & T. Yadomae, Immunology Medical Microbiology. 13 (1996) 51-57.

[44] A. C. Ruthes, F. R. Smiderle & M. Iacomini, Carbohydrate Polymers, 117 (2015) 753-761.

[45] S. K. Bhanja, D. Rout, P. Patra, C. K. Nandan, B. Behera, T. K. Maiti & S. S. Islam, Carbohydrate Research. 374 (2013) 59-66.

[46] I. Chakraborty, S. Mondal, D. Rout & S. S. Islam, Carbohydrate Research. 341 (2006) 2990–2993.

[47] D. Rout, S. Mondal, I. Chakraborty, M. Pramanik & S. S. Islam, Carbohydrate Research. 340 (2005) 2533–2539.

[48] T. Mizuno, T. Hagiwara, T. Nakamura, H. Ito, K. Shimura, T. Sumiya, A. Asakura, Agric. Biol. Chem. 54,(1990) 2889-2896.

[49] D. Rout, S. Mondal, I. Chakraborty, M. Pramanik, S. S. Islam, Med. Chem. Res. 13 (2004) 509-517.

[50] T. Wang, L. Deng, S. Li & T. Tan, Carbohydrate Polymers, 67 (2007) 133-137.

[51] P. Zhang & P. C. K. Cheung, Bioscience Biotechnology Biochemistry. 66 (2002) 1052-1056.

[52] H. Kawagishi, T. Kanao, R. Inagaki, T. Mizuno, K. Shimura, H. Ito, T. Hagiwara, T. Hakamura, Carbohydr. Polym. 12 (1990) 393-404.

[53] T. Mizuno, H. Saito, T. Nishitoba, H. Kawagashi, Food Rev. Int. 11 (1995) 23-61.

[54] C. Zhuang, T. Mizuno, A. Shimada, H. Ito, C. Suzuki, Y. Mayuzumi, H. Okamoto, Y. Ma, J. Li, Biosci. Biotechnol. Biochem. 57 (1993) 901-906.

[55] Q. P. Gao, R. Seljelid, H. Q. Chen, R. Jiang, Carbohydrate Research, 288 (1996) 135-142.

[56] E. K. Mandal, K. Maity, S. Maity, S. K. Gantait, S. Maiti, T. K. Maiti, S. R. Sikdar & S. S. Islam, Carbohydrate Research, 346 (2011) 2237-2243.

[57] D. K. Manna, A. K. Nandi, M. Pattanayak, P. Maity, S. Tripathy, A. K. Mandal, et al. Carbohydrate Polymers. 134 (2015) 375–384.

[58] K. K. Maity, S. Patra, B. Dey, S. K. Bhunia, S. Mandal, B. Behera, T. K. Maiti, S. R. Sikdar & S. S. Islam, Carbohydrate Research. 370 (2013) 13–18.

[59] A. K. Nandi, S. Samanta, S. Maity, I. K. Sen, S. Khatua, K. S. P. Devi, et al., Carbohydrate Polymers. 99 (2014) 774-782.

[60] I. K. Sen, P. K. Maji, B. Behera, T. K. Maiti, P. Mallick, S. R. Sikdar, et al., International Journal of Biological Macromolecules. 53 (2013) 127–132.

[61] P. Maity, S. Samanta, A. K. Nandi, I. K. Sen, S. Paloi, K. Acharia, et al., International Journal of Biological Macromolecules. 63 (2014) 140–149.

[62] J. A. Bohn & J. N. BeMiller, Carbohydrate Polymer. 28(1995) 3–14.

[63] M. Okazaki, Y. Adachi, N. Ohno & T. Yadomae, Biological and Pharmaceutical Bulletin. 18 (1995) 1320–1327.

[64] T. Mizuno, P. Yeohlui, T. Kinoshita, C. Zhuang, H. Ito, Y. Mayuzumi, Biosci. Biotechnol. Biochem. 60 (1996) 30-33.

[65] T. Mizuno, C. Zhuang, K. Abe, H. Okamoto, T. Kiho, S. Ukai, S. Leclerc, L. Meijer, Int. J. Med. Mushrooms 1 (1999) 301-316.

[66] S. P. Wasser, Appl. Microbiol. Biotechnol. 60 (2002) 258-274.

[67] T. Kiho, I. Yoshida, M. Katsuragawa, M. Sakushima, S. Usui, S. Ukai, Biol. Pharm. Bull. 17 (1994) 1460-1462.

[68] I. Yoshida, T. Kiho, S. Usui, M. Sakushima, S. Ukai, Biol. Pharm. Bull. 19 (1996) 114-121.

[69] E. Benzamini and S. Leskowitz. Immunology: A Short Course, Wiley-Liss Inc. (1991) pp. 51-58.

[70] T. Mizuno, M. Morimoto, K. I. Minato, H. Tsuchida, Biosci. Biotechnol. Biochem. 62 (1998) 434-437.

[71] H. Itoh, H. Ito, H. Amano, H. Noda, Jpn. J. Pharmacol. 66 (1994) 265-271.

[72] T. Ebina, Y. Fujimiya, Biotherapy, 11 (1998) 259-265.

[73] H. Kawagishi, R. Inagaki, T. Kanao, T. Mizuno, K. Shimura, H. Ito, T. Hagiwara & T. Nakamura, Carbohydrate Research, 186 (1989) 267-273.

[74] R. Biedron, J. M. Tangen, K. Maresz & G. Hetland, Functional Foods in Health and Disease. 2(11) (2012) 428-447.

[75] B. Grinde, G. Hetland & E. Johnson, International Immunopharmacology. 6 (2006). 1311–1314.

[76] C. H. Hsu, K. C. Hwang, Y. H. Chiang & P. Chou, Journal of Alternative and Complementary Medicine. 14 (2008) 299-301.

[77] Y. Fujimiya, H. Kobori, K.I. Oshiman, R. Soda, T. Ebina, Nippon Shokuhin Kagaku Kaishi, 45 (1998) 246-252.

[78] S.A. Fulleroton, A. A. Samadi, Mol. Urol. 4 (2000) 7-13.

[79] I. Nishida, H. Nanba, H. Kuroda, Chem. Pharm. Bull. 36 (1988) 1819-1827.

[80] K. Sugimachi, Y. Maechara, M. Ogawa, T. Kakegawa, M. Tomira, Cancer Chemother. Pharmacol. 40 (1997) 233-238.

[81] P. Stamets, Ten Speed press, Berkeley, Calif (2000).

[82] Hamuro, J.; Chichara, G.; Fenichel, R. L.; Chirigos M A (eds) Immunomodulation agents and their mechanisms, Dekker, New York, (1985), 409-436.

[83] H. Furue, I. Kitoh, Jap. J. Cancer Chemother. 8 (1981) 944-960.

[84] T. Taguchi, H. Furue, T. Kimura, T. Kondo, T. Hattori, T. Itoh, N. Osawa, Jap. J. Cancer Chemother. 12 (1985) 366-380.

[85] Y. Zhang, H. Kong, Y. Fang, K. Nishinari & G.O. Philip, Bioactive Carbohydrates and Dietary Fibre. 1(1) (2013) 53-71.

[86] H. Furue, Int. J. Immunopharmacol. 7 (1985) 333-336.

[87] K. Okamura, T. Kinukawa, Y. Tsumura, T. Otani, T. Itoh, H. Kobayashi, O. Matsuura, M. Kobayashi, T. Fukutsu, S. Ohshima, Cancer. 58 (1986) 865-872.

[88] K. Okamura, T. Kinukawa, Y. Tsumura, T. Otani, T. Itoh, H. Kobayashi, O. Matsuura, M. Kobayashi, T. Fukutsu, S. Ohshima, Biomed. Pharmacothera. 43 (1989) 17.

[89] S. P. Wasser, A. L. Weis, Crit. Rev. Immunol. 19 (1999) 65-96.

[90] R. L. Whistler, A. A. Bushway, P. P. Singh, W. Nakahara, P. Tokuzen, Adv. Carbohydr. Chem. Biochem. 32 (1976) 235-274.

[91] T. Mizuno, International Journal of Medicinal Mushrooms. 4, (2002) 299-312.

[92] R. P. Feynmann, Eng. Sci.23(1960) 22.

[93] L. Li, J. Hu, A.P. Alivistos, Nano Lett.1 (2001) 349-351.

[94] M. Barsoum, in "Fundamentals of ceramics", McGrow Hill International Education, New York, (1997).

[95] P. Mulvaney. Langmuir 12 (1996) 788-800.

[96] B. Knoll, F. Keilmann, Nature 399 (1999) 134-137.

[97] W. Chen, W. Cai, L. Zhang, G. Wang, L. J. Zhang, J. Colloid Interface Sci. 238 (2001) 291-295.

[98] A. Frattini, N. Pellegri, D. Nicastro, O. de Sanctis, Mater. Chem. Phys. 94 (2005) 148-152.

[99] S. Sengupta, D. Eavarone, I. Capila, G.L. Zhao, N. Watson, T. Kiziltepe, R. Sasisekharan, Nature 436 (2005) 568-572.

[100] I. Pastoriza-Santos, L. M. Liz-Marzan, Langmuir 15 (1999) 948-951.

[101] L. Rivas, S. Sanchez-Cortes, J. V. Garcia-Ramos, G. Morcillo, Langmuir 17 (2001) 574-577.

[102] Z. Zhang, R. C. Patel, R. Kothari, C. P. Johnson S. E. Friberg, P. A. Aikens, J. Phys. Chem. B. 104 (2000) 1176–1182.

[103] Y. Plyuto, J. M. Berquier, C. Jacquiod, C. Ricolleau, Chem. Commun. (1999) 1653–1654.

[104] T. Wang, D. Zhang, W. Xu, J. Wang, R. Han, D. Zhu, Langmuir 18 (2002) 1840–1848.

[105] Y. Guari, C. Thieuleux, A. Mehdi, C. R. Reye, J. P. Corriu, S. Gomez-Gallardo, K. Philippot, B.Chaudret, Chem. Mater. 15 (2003) 2017–2024.

[106] K. Ohno, K. Koh, Y. Tsujii, T. Fukada, Angew. Chem., Int. Ed. 42 (2003) 2751–2754.

[107] Y. Tan, L. Jiang, Y. Li, D. Zhu, J. Phys. Chem. B. 106 (2002) 3131–3138.

[108] K. S. Mayya, B. Schoeler, F. Caruso, Adv. Funct. Mater. 13 (2003) 183–188.

[109] J. Tanori, M. P. Pileni, Langmuir 13 (1997) 639–646.

[110] P. T. Anastas, J. C. Warner, Green Chemistry: Theory and Practice; Oxford University Press: New York, 1998.

[111] P. T. Anastas, J. C. Warner Green Chemistry: Theory and practice; Oxford University Press, Inc: New York, (1998).

[112] P. Raveendran, J. Fu, S. L. Wallen. J. Am. Chem. Soc. 125 (2003) 3940-13941.

[113] K. Esumi, N. Takei, T. Y. Oshimura, Colloids Surf. B 32 (2003) 117-123.

[114] R. C. Mucic, J. J. Storhoff, C. A. Mirkin, R. L. Letsinger. J. Am. Chem. Soc. 120 (1998) 12674-112675.

[115] P. Mukherjee, A. Ahmad, D. Mandal, S. Senapati, S. R. Sankar, M. I. Khan, R. Ramani, R. Parischa, P.V. Ajaykumar, M. Alam, M. Sastry, M. Kumar, Angew. Chem. Int. Ed. 40 (2001) 3585- 3588.

[116] T. K. Lindhorst, Structure of saccharides, essentials of carbohydrate chemistry and biochemistry,Wiley-VCH, 3rd edn. (2007)

[117] Y. N. Mata, E. Torres, M.L. Blazquez, A. Ballester, F. Gonzalez, J.A. Munoz, J. Hazard Mater. 166 (2009) 612–618.

[118] M. M. Kemp, A. Kumar, S. Mousa, E. Dyskin, M. Yalcin, P.Ajayan, R.J. Linhardt, S. A. Mousa, Nanotechnology 20 (2009) 455104 (7pp)

[119] S. K. Hashmi and G. J. Hutchings, Gold catalysis, Angew. Chem. Int. Ed. Engl. 45 (2006) 7896–7936.

[120] K. Farhadi, M. Forough, R. Molaei, S. Hajizadeh and A. Rafipour, Sensors Actuators B Chem, 161 (2012) 880–885.

[121] A. K. Zhang X and X. Liang, Biotechnol. Adv. 31 (2013) 593–606.

[122] P. Raveendran, J. Fu, S.L Wallen, J. Am. Chem. Soc. 125 (2003) 13940–13941.

[123] N. Vigneshwaran, R.P. Nachane, R.H. Balasubramanya, P.V. Varadarajan, Carbohydr. Res., 341 (2006) 2012–2018.

[124] J. Cai, S. Kimura, M. Wada, S. Kuga, Biomacromolecules 10 (2009) 87–94.

[125] Y. Ma, N. Li, C. Yang, X. Yang, Anal. Bioanal. Chem. 382 (2005) 1044–1048.

[126] B.J. Morrow, E. Matijevic, D.V. Goia, J. Colloid Interface Sci. 335 (2009) 62–69.

[127] H. Huang, X. Yang, Carbohydr. Res. 339 (2004) 2627–2631.

[128] C. Sun, R. Qu, H. Chen, et al.: Carbohydr. Res. 343 (2008) 2595–2599.

[129] D. Wei, Y. Ye, X. Jia, C. Yuan, W. Qian, Carbohydr. Res. 345 (2010) 74–81.

[130] M. Potara, D. Maniu, S. Astilean, Nanotechnology 20 (2009) 315602 (7pp).

[131] D. R. Bhumkar, H.M. Joshi, M. Sastry, V.B. Pokharkar, Pharm. Res. 24 (2007) 1415–1426.

[132] D. Wei, W. Qian, D. Wu, Y. Xia, X. Liu, J. Nanosci. Nanotechnol. 9 (2009), pp. 2566–2573.

[133] B. S. Liu, T.B. Huang, Macromol. Biosci. 8 (2008) 932–941.

[134] M. J. Laudenslager, J.D. Schiffman, C.L. Schauer, Biomacromolecules 9 (2008) 2682–2685.

[135] M. M. Kemp, A. Kumar, S. Mousa, et al.: Biomacromolecules 10 (2009) 589–595.

[136] M. M. Kemp, A. Kumar, D. Clement, P. Ajayan, S. Mousa, R.J. Linhardt, Nanomedicine (Lond) 4 (2009) 421–429.

[137] M. George, T.E. Abraham, J. Controlled Release 114 (2006) 1–14.

[138] H. H. Tonnesen, J. Karlsen, Drug Dev. Ind. Pharm. 28 (2002) 621–630.

[139] S. Saha, A. Pal, S. Kundu, S. Basu, T. Pal, Langmuir 26 (2010). 2885–2893.

[140] P. R. Sajanlal, T. S. Sreeprasad, A. K. Samal, T. Pradeep, Nano Rev., **2011**, 2, 1.

[141] J.W. Stouwdam, R.A.J. Janssen, J. Mater. Chem. 18 (2008) 1889-1894.

[142] W. Lee, S.H. Kang, J.Y. Kim, G.B. Kolekar, Y.E. Sung, S.H. Han, Nanotechnology 20 (2009) 335706 (7pp).

[143] V. G. Mokerov, Y.V. Fedorov, L.E. Velikovski, M.Y. Scherbakova, Nanotechnology 12 (2001) 552.

[144] V. M. Ustinov, A.E. Zhukov, A.R. Kovsh, S.S. Mikhrin, N.A. Maleev, B.V. Volovik, Y. G. Musikhin, Y. M. Shernyakov, E. Y. Kondat'eva, M.V. Maximov, A.F. Tsatsul'nikov, N.N. Ledentsov, Z. I. Alferov, J.A. Lott, D. Bimberg, Nanotechnology 11 (2000) 397.

[145] L. Huang, H. Wang, Z. Wang, A. Mitra, D. Zhao, Y. Yan, Chem. Mater. 14 (2002) 876-880.

[146] G.R. Li, Z.P. Feng, J.H. Zhong, Z.L. Wang, Y.X. Tong, Macromolecules 43 (2010) 2178-2183.

[147] S.M. Yoon, I.C. Hwang, K.S. Kim, H.C. Choi, Angew. Chem. Int. Ed. 48 (2009) 2506-2509.

[148] Y. Wang, J.Y. Lee, J.S. Kim, G.H. Kim, K.S. Kim, Chem. Mater. 19 (2007) 3912-3916.

[149] B. H. Hong, S.C. Bae, C.W. Lee, S. Jeong, K.S. Kim, Science 294 (2001) 348-351.

[150] B. H. Hong, J.Y. Lee, C.W. Lee, J.C. Kim, S.C. Bae, K.S. Kim, J. Am. Chem. Soc. 123 (2001) 10748-10749.

[151] B. H. Hong, J.Y. Lee, T. Beetz, Y. Zhu, P. Kim, K.S. Kim, J. Am. Chem. Soc. 127 (2005) 15336-15337.

[152] K. S. Kim et al. J. Am. Chem. Soc. 124 (2002) 14268-142799.

[153] D. Pradhan, K.T. Leung, J. Phys. Chem. C 112 (2008) 1357-1364.

[154] J. N. Tiwari, F.M. Pan, R.N. Tiwari, S.K. Nandi, Chem. Commun. (2008) 6516-6518.

[155] X. Dong, X. Ji, J. Jing, M. Li, J, Li, W. J. Yang, Phys. Chem. C 114 (2010) 2070-2074.

[156] A. K. P. Mann, S.E. Skrabalak, Chem. Mater. 23 (2011) 1017-1022.

[157] P. F. Siril, L. Ramos, P. Beaunier, P. Archirel, A. Etcheberry, H. Remita, Chem. Mater. 21 (2009) 5170-5175.

[158] H. Lee, S.E. Habas, S. Kweskin, D. Butcher, G.A. Somorjai, P.D. Yang, Angew. Chem. Int. Ed. 45(2006) 7824-7828.

[159] A. S. Arico, P. Bruce, B. Scrosati, J.M. Tarascon, W. Van Schalkwijk, Nature Mater. 4 (2005) 366-377.

[160] M. Winter, R.J. Brodd, Chem. Rev.104 (2004) 4245-4270.

[161] M. Armand, J.M. Tarascon, Nature 451 (2008) 652-657.

[162] P. Simon, Y. Gogotsi, Nature Mater. 7 (2008) 845-854.

[163] C. C. Hu, K.H. Chang, M.C. Lin, Y.T. Wu, Nano Lett. 6 (2006) 2690-2695.

[164] Q. Shen, L. Jiang, H. Zhang, Q. Min, W. Hou, J.J. Zhu, J. Phys. Chem. C 112 (2008) 16385-16392.

[165] X. W. Teng, X.Y. Liang, S. Maksimuk, H. Yang, Small 2 (2006) 249-253.

[166] H. Lee, S.E. Habas, S. Kweskin, D. Butcher, G.A. Somorjai, P.D. Yang, Angew. Chem. Int. Ed. 45 (2006) 7824-7828.

[167] S. E. Skrabalak, J. Chen, Y. Sun, X. Lu, L. Au, C. M. Cobley, Y. Xia, Acc. Chem. Res. 41 (2008) 1587 – 1595.

[168] A. Loureiro, N. G. Azoia, A. C. Gomes, A. Cavaco-Paulo, Curr. Pharm. Des. 22 (2016) 1371–1390.

[169] E. Martis, R. Badve, M. Degwekar Chron. Young Sci. 3 (2012) 68 - 73.

[170] A. P. Nikalje, Med. Chem. 5 (2015) 081-089.

[171] F. Alexis, E. Pridgen, L.K. Molnar, O. C. Farokhzad, Mol. Pharm. 5 (2008) 505–515.

[172] S. Laurent, D. Forge, M. Port, A. Roch, C. Robic, L. Vander Elst, R. N. Muller, Chem. Rev. 110 (2010) 2574–2574.

[173] E. Y. Kim, R. Schulz, P. Swantek, K. Kunstman, M. H. Malim, S. M. Wolinsky, Gene Ther. (2012) 347-353.

[174] A. Shiotani, T. Mori, T. Nidome, Y. Nidome, Y. Katayama, Langmuir (2007) 234012-4018.

[175] X. He, J. Gao, S. S. Gambhir, Z. Cheng, Trends Mol. Med. 16 (2010) 574–583.

[176] J. Zhang, Y. Fu, Y. Mei, F. Jiang, and J. R. Lakowicz, Anal. Chem. 82 (2010) 464–4471.

[177] C. Loo, A. Lowery, N. Halas, J. West, R. Drezek, Nano Lett. 5 (2005) 709–711.

[178] J. Kneipp, H. Kneipp, M. McLaughlin, D. Brown, K. Kneipp, Nano Lett. 6 (2006) 2225–2231.

[179] A. Matschulat, D. Drescher, J. Kneipp, ACS Nano 4 (2010) 3259–3269.

[180] W. Lu, S. R. Arumugam, D. Senapati, A. K. Singh, T. Arbneshi, S. A. Khan, H. Yu, P. C. Ray, ACS Nano 4 (2010)1739–1749.

[181] Y. Du, X.-L. Luo, J.-J. Xu, H-Y. Chen, Bioelectrochemistry 70 (2007) 342-347.

[182] S. Y. Lim, J.S. Lee, C.B. Park, Biotechnol. Bioeng. 105 (2010) 210-214.

[183] S. Saha, A. Pal, S. Pande, S. Sarkar, S. Panigrahi, T. Pal, J. Phys. Chem. C 113 (2009) 7553-7560.

[184] D. S. Santos Jr., P. J. G. Goulet, N. P. W. Pieczonka, O. N. Oliveira Jr., F. Aroca, Langmuir 20 (2004) 10273-10277.

[185] D. Wei, W. Qian, D. Wu, Y. Xia, J. Nanosci. Nanotechnol. 9 (2009) 2566-2573.

[186] X. Li, S.M. Robinson, A. Gupta, K. Saha, Z. Jiang, D.F. Moyano, A. Sahar, M.A. Riley, V. M. Rotello, ACS Nano 8 (2014) 10682-10686.

[187] A. B. Smetana, K.J. Klabunde, G.R. Marchin, C.M. Sorense, Langmuir 24 (2008) 7457-7464.

[188] M. Banerjee, S. Mallick, A. Paul, A. Chattopadhya, S.S. Ghosh, Langmuir 26 (8) 5901-5908.

[189] H. Kong, J. Jang, Langmuir 24 (2008) 2051-2056.

[190] B. S. Liu, T-B. Huang, Macromolecular Bioscience 8 (2010) 932-941.

[191] M. M. Kemp, R. J. Linhardt, WIREs Nanomed. Nanobi. 2 (2010) 77-87.

[192] A. Travan, C. Pelillo, I. Donatei, E. Marsich, M. Benincasa, T. Scarpa, S. Semeraro, G. Turco, R. Gennaro, S. Paoletti, Biomacromolecules10 (2009) 1429-1435.

[193] K. Vimala, Y. M. Mohan, K. S. Sivudu, K. Varaprasad, S. Ravindra, N. N. Reddy, Y. Padma, B. Sreedhar, K. Mohana Raju, Colloids Surf. B 76 (2010) 248-258.

[194] M. Potara, E. Jakab, A. Damert, O. Popescu, V. Canpean, S. Astilean, Nanotechnology 22 (2011) 135101.

[195] I. K. Sen, A.K. Mandal, S. Chakraborti, B.Dey, R. Chakraborty, S.S. Islam, Int. J. Biol. Macromol. 62 (2013) 439-449.

[196] S. T. Qi, B.A. Cheney, R.Y. Zheng, W.W. Lonergan, W.T. Yu, J.G.G. Chen, Appl. Catal. A: Chem. 393 (2011**)** 44-49.

[197] A. Primo, P. Concepcion, A. Corma, Chem. Commun. 47 (2011**)** 3613-3615.

[198] S. A. Lawrence, Amines: Synthesis, Properties and Applications; Cambridge University Press: New York, (2004).

[199] R. M. Navarro, B. Pawelec, J. M. Trejo, R. Mariscal, J. L. G. Fierro, J. Catal. 189 (2000) 184.

[200] J. E. Backvall, In Modern Oxidation Methods, Wiley-VCH: New York, (2004).

[201] F. Porta, M. Rossi, J. Mol. Catal. A: Chem. 204 (2003) 553.

[202] G. Barbaro, A. Battaglia, P. Giorgianni, J. Org. Chem, 53 (1988) 5491-5501.

[203] W. S. York, A. K. Darvill, M. McNeil, T. T. Stevenson, P. Albersheim, Methods Enzymol. 118 (1985) 33-40.

[204] C. Hara, T. Kiho, Y. Tanaka, S. Ukai, Carbohydr. Res. 110 (1982) 77-87.

[205] U. Lindahl, Biochemistry Journal. 116 (1970) 27–34.

[206] G. J. Gerwig, J. P. Kamerling, J. F. G. Vliegenthart, Carbohydr. Res**.** 62 (1978) 349-357.

[207] I. Ciucanu, F. Kerek, Carbohydr. Res. 131 (1984) 209-217.

[208] A. K. Datta, S. Basu, N. Roy, Carbohydrate Res. 322 (1999) 219-227.

[209] D. Rout, S. Mondal, I. Chakraborty, M. Pramanik, S. S. Islam, Carbohydr. Res. 340 (2005) 2533-2539.

[210] M. T. Dueñas-Chaso, M. A. Rodriguez-Carvajal, P. T. Mateo, G. Franco-Rodríguez, J. L. Espartero, A. Irastorza-Iribas, Carbohydrate Research. 303 (1997) 453-458.

[211] P. E. Jansson, L. Kenne, G. Widmalm, Carbohydr. Res. 168 (1987) 67-77.

[212] P. K. Agrawal, Phytochemistry, 31 (1992) 3307-3330.

[213] M. Gruter, B. R. Leeflang, J. Kuiper, J. P. Kamerling, J. F. G. Vliegenthart, Carbohydr. Res. 239 (1993**)** 209-226.

[214] K. Bock, C. Pedersen, H. Pedersen, Adv. Carbohydr. Chem. Biochem. 42 (1984**)** 193.

[215] S. Chattopadhyay, S. K. Das, T. Ghosh, S. Das, S. Tripathy, D. Mandal, D. Das, P. Pramanik & S. Roy, Journal of Biological Inorganic Chemistry. 18 (2013) 957–973.

[216] O. H. Lowry, N.J. Rosenbrough, A. L. Farr & R. J. Randall, Journal of Biological Chemistry. 193 (1951) 255–275.

[217] S. Chattopadhyay, S. P. Chakraborty, D. Laha, R. Baral, P. Pramanik & S. Roy, Cancer Nano. 3 (2012) 13–23.

[218] S. Tripathy, S. K. Mahapatra, S. Chattopadhyay, S. Das, S. K. Dash, S. Majumder, Acta Tropica. 128 (2013) 494–503.

[219] S. K. Mahapatra, S. P. Chakraborty, S. Majumdar, B. G. Bag & S. Roy, European Journal of Pharmacology. 623 (2009) 132–140.

[220] H. Ohkawa, N. Ohishi, & K. Yagi, Analytical Biochemistry. 95 (1979) 351–358.

[221] M. Hino, C. Kohchi, T. Nishizawa, A. Yoshida, K. Nakata, H. Inagawa, H. Hori, K. Makino, H. Terada, G. I. Soma, Anticancer Research. 25 (2005) 3747-3754.

[222] W. Xu, F. Zhang, Y. Luo, L. Ma, X. Kou & K. Huang, Carbohydrate Research. 344 (2009) 217–222.

[223] K. K. Maity, S. Patra, B. Dey, S. K. Bhunia, S. Mandal, D. Das, D. K. Majumdar, S. Maiti, T. K. Maiti, S. S. Islam, Carbohydrate Research. 346 (2011) 366–372.

[224] L.C. Green, D.A. Wagner, J. Glogowski, P.L. Skipper, J.S. Wishnok, S.R. Tannenbaum, Anal. Biochem. 126 (1982)131-138.

[225] A. K. Mandal, I. K. Sen, P. Maity, S. Chattopadhyay, R. Chakraborty, S. Roy & S. S. Islam, International Journal of Biological Macromolecules. 79 (2015) 413–422.

[226] S. Maiti, S. K. Bhutia, S. K. Mallick, A. Kumar, N. Khadgi & T. K. Maiti, Environmental Toxicology and Pharmacology. 26 (2008) 187-191.

[227] J. Deka, A. Paul, A. Ramesh, A. Chattopadhyay, Langmuir 24 (2008) 9945–9951.

[228] D. Wei, W. Qian, D. Wu, Y. Xia, X. Liu, J. Nanosci. Nanotechnol. 9 (2009) 2566– 2573.

[229] S. Chakraborti, A.K. Mandal, S. Sarwar, P. Singh, R. Chakraborty, P. Chakrabarti, Colloids Surf. B: Biointerfaces 121 (2014) 44–53.

[230] Y. Zhao, X. Sun, B.G. Zhang, G. Trewyn, I.I. Slowing, V.S.Y. Lin, ACS Nano 5(2010) 1366–1375.

[231] J. J. Lin, W.C. Lin, R.X. Dong, S.H. Hsu, Nanotechnology 23 (2012) 65102.

[232] N. Rahmad, J. R. Al-Obaidi, N. M. N. Rashid, N. B. Zean, M. H. Y. M. Yusoff, N. S. Shaharuddin, N. A. M. Jamil & N. M. Saleh, *Biological Research*, *47* (2014) 30.

[233] S. Mondal, I. Chakraborty, M. Pramanik, D. Rout, & S. S. Islam, Carbohydrate Research. 339 (2004) 1135–1140.

[234] S. Mondal, I. Chakraborty, D. Rout, & S. S. Islam, Carbohydrate Research. 341 (2006) 878–886.

[235] S. Mondal, K. Chandra, D. Maiti, A. K. Ojha, D. Das, S. K. Roy, K. Ghosh, I. Chakarborty & S. S. Islam, Carbohydrate Research, 343 (2008) 1062–1070.

[236] K. Chandra, K. Ghosh, S. K. Roy, S. Mondal, D. Maiti, A. K. Ojha, D. Das, S. Mondal & S. S. Islam, Carbohydrate Research, 342 (2007) 2484–2489.

[237] M. Pattanayak, S. Samanta, P. Maity, I. K. Sen, A. K. Nandi, D. K. Manna, P.Mitra, K. Acharya & S. S. Islam, Carbohydrate Research, 413 (2015) 30–36.

[238] S. K. Bhanja, D. Rout, P. Patra, I. K. Sen, C. K. Nandan, & S. S. Islam, Bioactive Carbohydrates and Dietary Fibre, 3 (2014) 52–58

[239] I. Chakraborty, S. Mondal, M. Pramanik, D. Rout, & S. S. Islam, Carbohydrate Research, 339 (2004) 2249–2254.

[240] Q. Dong, J. Yao, X. Yang & J. Fang, Carbohydrate Research. 337 (2002) 1417–1421.

[241] I. J. Goldstein, G. W. Hay, B. A. Lewis & F. Smith, Methods in Carbohydrate Chemistry, 5 (1965) 361–370.

[242] M. Abdel-Akher & F. Smith, Nature. 166 (1950) 1037–1038.

[243] A. K. Mandal, I. K. Sen, P. Maity, S. Chattopadhyay, R. Chakraborty, S. Roy & S.S. Islam, International Journal of Biological Macromolecules, 79 (2015) 413–422.

[244] R. G. Ayol, J. O. Amupitan, I. G. Ndukwe & O. T. Audu, African Journal of Pure and Applied Chemistry, 3 (2009) 208–211.

[245] P. R. Gopalan, A. G. Annaselvi, P. Subramaniam, & P. R. Gopalan, International Journal of Nanomaterials and Biostructures, 3 (2013) 26‑30.

[246] S. Li, Y. Shen, A. Xie, X. Yu, X. Zhang, & L. Yang, Nanotechnology. 18 (2007) 405101 (9) pp.

[247] S. W. C. Chang, M. C. Wang, C. C. Huang, & K. Seshaiah, Journal of Agricultural and Food Chemistry. 55 (2007) 1921.

[248] X. Bao, C. Liu, J. Fang, & X. Li, Carbohydrate Research. 332 (2001) 67‑74.

[249] Y. Sun, H. Liang, X. Zhang, H. Tong, & J. Liu, Bioresource Technology. 100 (2009) 1860‑1863

[250] G. L. Huang,. Zeitschrift Fur Naturforschung – Section C Journal of Biosciences, 63(11‑12) (2008) 919‑921.

[251] B. Matthäus, Journal Of Agric Food Chemistry. 50 (2002) 3444‑3452.

[252] I. K. Sen, A. K. Mandal, R. Chakraborty, B. Behera, K. K. Yadav, T. K. Maiti, & S.S. Islam, Carbohydrate Polymers. 101 (2014) 188‑195.

[253] A.P. Magiorakos, A. Srinivasan, R.B. Carey, Y. Carmeli, M. E. Falagas, C. G. Giske, S. Harbarth, J. F. Hindler, G. Kahlmeter, B. Olsson-Liljequist, D. L. Paterson, L. B. Rice, J. Stelling, M. J. Struelens, A. Vatopoulos, J. T. Weber, D. L. Monnet, Clinical Microbiology and Infection 18 (2012) 268–281.

[254] J. Oteo, E. Lázaro, F.J. de Abajo, F. Baquero, J. Campos, Emerging Infectious Diseases 11 (2005) 546-553.

[255] A. Bartoloni, L. Pallecchi, M. Benedetti, C. Fernandez, Y. Vallejos, E. Guzman, A.L Villagran, A. Mantella, C. Lucchetti, F. Bartalesi, M. Strohmeyer, A. Bechini, H. Gamboa, H. Rodríguez, T. Falkenberg, G. Kronvall, E. Gotuzzo, F. Paradisi, G. M. Rossolini, Emerging Infectious Diseases 12 (2006) 907-913.

[256] J. Oteo, J. Campos, F. Baquero, Spanish members of the European Antimicrobial Resistance Surveillance System, Journal of Antimicrobial Chemotherapy 50 (2002) 945-952.

[257] J.H. Fendler, Chemical Reviews 87 (1987), pp. 877-899.

[258] G. Schmid, Chemical Reviews 92 (1992), pp. 1709-1727.

[259] P.V. Kamat, Chemical Reviews 93 (1993), pp. 267-300.

[260] K.S. Chou, Y.C. Lu, H.H. Lee, Material Chemistry and Physics 94 (2005), pp. 429-433.

[261] D.G. Schukin, I.L. Radtchenko, G.B. ChemPhysChem 4 (2003) 1101-1103.

[262] P.K. Khanna, V.V.V. Subbarao, Soft Matter Letter 57 (2003), pp. 2242-2245.

[263] C.R. Mucic, J.J. Storhoff, A.C. Mirkin, L.R. Letsinger, Journal of American Chemical Society 120 (1998) 12674-75.

[264] K. Esumi, N. Takei, T. Yoshimura, Colloids and Surfaces B 32 (2003) 117-123.

[265] J. Huang, Q. Li, D. Sun, Y. Su, X. Yang, H. Wang, Y. Wang, W. Shao, N. He, J. Hong and C. Chen, Nanotechnology 18 (2007) 102-104.

[266] P. Raveendran, J. Fu, S.L. Wallen, Journal of American Chemical Society 125 (2003) 13940-13941.

[267] A. Travan, C. Pelillo, I. Donati, E. Marsich, M. Benincasa, T. Scarpa, S. Semeraro, G. Turco, R. Gennaro, S. Paoletti, Biomacromolecules 10 (2009) 1429-1435.

[268] N. Vigneshwaran, A.A. Kathe, P.V. Varadarajan, R.P. Nachane, and R.H.Balasubramanya, Langmuir 23 (2007) 7113-17.

[269] I.K. Sen, K. Maity, S.S. Islam, Carbohydrate Polymers 91 (2013) 518–528.

[270] S. Maity, I.K. Sen, S.S. Islam, Physica E 45 (2012) 130–134.

[271] H. Yin, T. Yamamoto, Y. Wada, and S. Yanagida, Material Chemistry and Physics 83 (2004) 66-70.

[272] A.S. Edelstein and R.C. Cammarata (Eds), Bristol and Philadelphia Publishers, Bristol, 1996.

[273] S.K. Bhunia, B. Dey, K.K. Maity, S. Patra, S. Mandal, S. Maiti, T.K. Maiti, S.R. Sikdar and S.S. Islam, Carbohydrate Research 345 (2010) 2542-2549.

[274] W. Schnedl, M. Breitenbach, G. Stranzinger, Human Genetics 36 (1977) 299–305.

[275] S.L. Hajduk, Science 191 (1976) 858–859.

[276] M.L. Barcellona, G. Cardiel, E. Gratton, Biochemical and Biophysical Research Communication 170 (1990) 270–280.

[277] M.S. Cooke, M.D. Evans, M. Dizdaroglu, J. Lunec, FASEB Journal 17 (2003) 1195–1214.

[278] C. von Sonntag, The Chemical Basis of Radiation Biology, Taylor and Francis, New York, 1987.

[279] N.L. Mills, K. Donaldson, P.W. Hadoke, N.A. Boon, W. Macnee, F.R. Cassee, T. Sandstrom, A. Blomberg, D.E. Newby, Nat Clin Pract Cardiovasc Med 6 (2009) 36-44.

[280] P.V. Asharani, S. Sethu, S. Vadukumpully, S. Zhong, C.T. Lim, M.P. Hande, and S. Valiyaveettil, Advance Functional Material 20 (2010) 1233- 1242.