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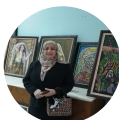


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Author(s): Antoine Al-Achi, Apoorva Daram, Sirisha Ganapuram, Shreyas Shridhar Deo, Roobina Didarians

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Author(s): Netty Suharti, Dachriyanus, Henny Lucida, Fatma Sri Wahyuni, Dira Hefni, Purnawan Pontana Putra

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Author(s): Kinjal Patel, Priya Shah, Maitreyi Zaveri

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Author(s): Amaresh Prusty, Bijon K Gupta, Amiyakanta Mishra

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Author(s): M. R. Ghante, R. B. Tangade, S. D. Sawant, P. D. Kulkarni, V. K. Bhusari

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Author(s): Vaibhav. S. Patil, Varashree B S, K. Sreedhara Ranganath Pai, Gangadhar Hari, Keerthi Priya

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Role of Quercetin as an effective Bioenhancer in Curcumin Absorption, In vitro Study (AbstractView.aspx?PID=2022-15-11-2)

Author(s): Dhanlaxmi Piniseti, Patel Aditi Balvanbhai, Jagdish Kakadiya

DOI: 10.52711/0974-360X.2022.00817 (<https://www.doi.org/10.52711/0974-360X.2022.00817>)

Views: 0 (pdf), 424 (html)

Access:  Closed Access

Cite: Dhanlaxmi Piniseti, Patel Aditi Balvanbhai, Jagdish Kakadiya. Role of Quercetin as an effective Bioenhancer in Curcumin Absorption, In vitro Study. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4867-0. doi: 10.52711/0974-360X.2022.00817 (<https://www.doi.org/10.52711/0974-360X.2022.00817>)

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(AbstractView.aspx?
PID=2022-15-
11-2)

Evaluation of Seasonal Variation and Procurement Time for *Eclipta prostrata* (L.) L.C. (AbstractView.aspx?PID=2022-15-11-20)

Author(s): Cheemalapati Venkata Narasimhaji, A K Mangal, Rekha Prabu, Ilavrasan R, Narayanam Srikanth

DOI: 10.52711/0974-360X.2022.00835 (<https://www.doi.org/10.52711/0974-360X.2022.00835>)

Views: 0 (pdf), 413 (html)

Access:  Closed Access

Cite: Cheemalapati Venkata Narasimhaji, A K Mangal, Rekha Prabu, Ilavrasan R, Narayanam Srikanth. *Evaluation of Seasonal Variation and Procurement Time for Eclipta prostrata (L.) L.C.. Research Journal of Pharmacy and Technology.* 2022; 15(11):4967-3. doi: 10.52711/0974-360X.2022.00835 (<https://www.doi.org/10.52711/0974-360X.2022.00835>)

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(AbstractView.aspx?
PID=2022-15-
11-20)

Effect of Glutaraldehyde Concentration Variation on Diclofenac Sodium Scaffolds as Cross-Linking Agent (AbstractView.aspx?PID=2022-15-11-21)

Author(s): Aniek Setiya Budiati, Nily Su'aida, Azisia Insanya Lamakluang, Silda Sabila Rahma, Bambang Subakti Zulkarnain, Dewi Isadiartuti

DOI: 10.52711/0974-360X.2022.00836 (<https://www.doi.org/10.52711/0974-360X.2022.00836>)

Views: 0 (pdf), 505 (html)

Access:  Closed Access

Cite: Aniek Setiya Budiati, Nily Su'aida, Azisia Insanya Lamakluang, Silda Sabila Rahma, Bambang Subakti Zulkarnain, Dewi Isadiartuti. *Effect of Glutaraldehyde Concentration Variation on Diclofenac Sodium Scaffolds as Cross-Linking Agent. Research Journal of Pharmacy and Technology.* 2022; 15(11):4974-0. doi: 10.52711/0974-360X.2022.00836 (<https://www.doi.org/10.52711/0974-360X.2022.00836>)

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(AbstractView.aspx?
PID=2022-15-
11-21)

Development and Evaluation of Polyherbal Formulation for the treatment of Dengue Fever (AbstractView.aspx?PID=2022-15-11-22)

Author(s): Pravin S, Nanthagopal P, Ayyappan T

DOI: 10.52711/0974-360X.2022.00837 (<https://www.doi.org/10.52711/0974-360X.2022.00837>)

Views: 0 (pdf), 672 (html)

Access:  Closed Access

Cite: Pravin S, Nanthagopal P, Ayyappan T. Development and Evaluation of Polyherbal Formulation for the treatment of Dengue Fever. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4981-6. doi: 10.52711/0974-360X.2022.00837 (<https://www.doi.org/10.52711/0974-360X.2022.00837>)

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(AbstractView.aspx?
PID=2022-15-
11-22)

Chemically synthesized Schiff's base Conjugated Piperonal as novel Antioxidants and Scavengers of Free Radicals (AbstractView.aspx?PID=2022-15-11-23)

Author(s): Ashwin Prakash Karurkar, Anuradha Venkatraman, Syed Ali Mohammed Yacoob, Asrar Ahmed, Mohamed Sihabudeen

DOI: 10.52711/0974-360X.2022.00838 (<https://www.doi.org/10.52711/0974-360X.2022.00838>)

Views: 0 (pdf), 398 (html)

Access:  Closed Access

Cite: Ashwin Prakash Karurkar, Anuradha Venkatraman, Syed Ali Mohammed Yacoob, Asrar Ahmed, Mohamed Sihabudeen. Chemically synthesized Schiff's base Conjugated Piperonal as novel Antioxidants and Scavengers of Free Radicals. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4887-3. doi: 10.52711/0974-360X.2022.00838 (<https://www.doi.org/10.52711/0974-360X.2022.00838>)

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(AbstractView.aspx?
PID=2022-15-
11-23)

Effect of Dapagliflozin on Serum Uric Acid in Type 2 Diabetes Mellitus patients (AbstractView.aspx?PID=2022-15-11-24)

Author(s): Lilian Khalil, Arige Boubou, Nisrin Kaddar

DOI: 10.52711/0974-360X.2022.00839 (<https://www.doi.org/10.52711/0974-360X.2022.00839>)

Views: 0 (pdf), 974 (html)

Access:  Closed Access

Cite: Lilian Khalil, Arige Boubou, Nisrin Kaddar. Effect of Dapagliflozin on Serum Uric Acid in Type 2 Diabetes Mellitus patients. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4994-8. doi: 10.52711/0974-360X.2022.00839 (<https://www.doi.org/10.52711/0974-360X.2022.00839>)

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(AbstractView.aspx?
PID=2022-15-
11-24)

Development and Validation of RP-HPLC Method for Estimation of Lurasidone and its impurities Lurasidone 1 and Lurasidone 8 (AbstractView.aspx?PID=2022-15-11-25)

Author(s): Maulikkumar D. Vaja, Ruchita R. Patel, Bhoomi D. Patel, Ankit B. Chaudhary

DOI: 10.52711/0974-360X.2022.00840 (<https://www.doi.org/10.52711/0974-360X.2022.00840>)

Views: 0 (pdf), 418 (html)

Access:  Closed Access

Cite: Maulikkumar D. Vaja, Ruchita R. Patel, Bhoomi D. Patel, Ankit B. Chaudhary. Development and Validation of RP-HPLC Method for Estimation of Lurasidone and its impurities Lurasidone 1 and Lurasidone 8. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4999-4. doi: 10.52711/0974-360X.2022.00840 (<https://www.doi.org/10.52711/0974-360X.2022.00840>)

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(AbstractView.aspx?
PID=2022-15-
11-25)

Chlorogenic Acid Fractionation in Robusta Green Bean Extract as a Combination Agent of Dental Pulp Stem Cells in Periodontal Tissue Engineering (AbstractView.aspx?PID=2022-15-11-26)

Author(s): Desi Sandra Sari, Neira Sakinah, Nuri, Enny Suswati³, Retno Widyowati, Ernie Maduratna

DOI: 10.52711/0974-360X.2022.00841 (<https://www.doi.org/10.52711/0974-360X.2022.00841>)

Views: 0 (pdf), 403 (html)

Access:  Closed Access

Cite: Desi Sandra Sari, Neira Sakinah, Nuri, Enny Suswati³, Retno Widyowati, Ernie Maduratna. Chlorogenic Acid Fractionation in Robusta Green Bean Extract as a Combination Agent of Dental Pulp Stem Cells in Periodontal Tissue Engineering. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5005-0. doi: 10.52711/0974-360X.2022.00841 (<https://www.doi.org/10.52711/0974-360X.2022.00841>)

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(AbstractView.aspx?
PID=2022-15-
11-26)

Immunohistochemical Study of the Over-Expressed Protein of P57-Gene Related with HPV31/33 Infections in a Group of Thyroid Carcinomatous Tissues (AbstractView.aspx?PID=2022-15-11-27)

Author(s): Nihaya Kadhim Salim, Saad Hasan Mohammed Ali, Israa Mahdi Al-Sudani

DOI: 10.52711/0974-360X.2022.00842 (<https://www.doi.org/10.52711/0974-360X.2022.00842>)

Views: 0 (pdf), 281 (html)

Access:  Closed Access

Cite: Nihaya Kadhim Salim, Saad Hasan Mohammed Ali, Israa Mahdi Al-Sudani. Immunohistochemical Study of the Over-Expressed Protein of P57-Gene Related with HPV31/33 Infections in a Group of Thyroid Carcinomatous Tissues. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5011-6. doi: 10.52711/0974-360X.2022.00842 (<https://www.doi.org/10.52711/0974-360X.2022.00842>)

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(AbstractView.aspx?
PID=2022-15-
11-27)

In Vivo Evaluation of Genotoxic Effects of Sivanar Amirtham Formulation on Rats Using Micro Nucleus Assay (AbstractView.aspx?PID=2022-15-11-28)

Author(s): Moushumi Baidya, J. Anbu, Kuntal Manna, Himangshu Sekhar Maji, Sudip Kumar Mandal

DOI: 10.52711/0974-360X.2022.00843 (<https://www.doi.org/10.52711/0974-360X.2022.00843>)

Views: 0 (pdf), 419 (html)

Access:  Closed Access

Cite: Moushumi Baidya, J. Anbu, Kuntal Manna, Himangshu Sekhar Maji, Sudip Kumar Mandal. *In Vivo Evaluation of Genotoxic Effects of Sivanar Amirtham Formulation on Rats Using Micro Nucleus Assay*. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5017-0. doi: 10.52711/0974-360X.2022.00843 (<https://www.doi.org/10.52711/0974-360X.2022.00843>)

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(AbstractView.aspx?
PID=2022-15-
11-28)

Induction of Apoptosis by Methanolic Extract of Rhizophora mucronata Lam on MCF-7 Cell Line (AbstractView.aspx?PID=2022-15-11-29)

Author(s): X. Asbin Mary, M. Syed Ali, V. Anuradha, N. Yogananth, J. Vardhana, P. Vinoth Kumar

DOI: 10.52711/0974-360X.2022.00844 (<https://www.doi.org/10.52711/0974-360X.2022.00844>)

Views: 0 (pdf), 434 (html)

Access:  Closed Access

Cite: X. Asbin Mary, M. Syed Ali, V. Anuradha, N. Yogananth, J. Vardhana, P. Vinoth Kumar. *Induction of Apoptosis by Methanolic Extract of Rhizophora mucronata Lam on MCF-7 Cell Line*. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5021-5. doi: 10.52711/0974-360X.2022.00844 (<https://www.doi.org/10.52711/0974-360X.2022.00844>)

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(AbstractView.aspx?
PID=2022-15-
11-29)

Cytokine Storm, Immunomodulators and Mucormycosis in COVID-19: Bench To Bed Side (AbstractView.aspx?PID=2022-15-11-3)

Author(s): Rony T Kondody, Sudhir Rama Varma, Aishwarya Patil, Manjusha Nambiar, Arathi S Nair, Rhea Mathew, Abhishek PT

DOI: 10.52711/0974-360X.2022.00818 (<https://www.doi.org/10.52711/0974-360X.2022.00818>)

Views: 0 (pdf), 413 (html)

Access:  Closed Access

Cite: Rony T Kondody, Sudhir Rama Varma, Aishwarya Patil, Manjusha Nambiar, Arathi S Nair, Rhea Mathew, Abhishek PT. Cytokine Storm, Immunomodulators and Mucormycosis in COVID-19: Bench To Bed Side. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4871-5. doi: 10.52711/0974-360X.2022.00818 (<https://www.doi.org/10.52711/0974-360X.2022.00818>)

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(AbstractView.aspx?
PID=2022-15-
11-3)

Ayurvedic Management of Vatarakata (Gout) - A Case Report (AbstractView.aspx?PID=2022-15-11-30)

Author(s): Sima Balaprasad Jaju, Digambar G. Dipankar, Almas M. Shaikh, Anjali Rajesh Pote, Anupama M. Bathe

DOI: 10.52711/0974-360X.2022.00845 (<https://www.doi.org/10.52711/0974-360X.2022.00845>)

Views: 0 (pdf), 626 (html)

Access:  Closed Access

Cite: Sima Balaprasad Jaju, Digambar G. Dipankar, Almas M. Shaikh, Anjali Rajesh Pote, Anupama M. Bathe. Ayurvedic Management of Vatarakata (Gout) - A Case Report. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5026-0. doi: 10.52711/0974-360X.2022.00845 (<https://www.doi.org/10.52711/0974-360X.2022.00845>)

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(AbstractView.aspx?
PID=2022-15-
11-30)

Formulation, evaluation and optimization of orally disintegrating films of Azithromycin using DOE approach for the pediatrics with acute otitis media (AbstractView.aspx?PID=2022-15-11-31)

Author(s): Shankhadip Nandi, Gargi Das, Khandekar Hussan Reza

DOI: 10.52711/0974-360X.2022.00846 (<https://www.doi.org/10.52711/0974-360X.2022.00846>)

Views: 0 (pdf), 504 (html)

Access:  Closed Access

Cite: Shankhadip Nandi, Gargi Das, Khandekar Hussan Reza. Formulation, evaluation and optimization of orally disintegrating films of Azithromycin using DOE approach for the pediatrics with acute otitis media. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5031-7. doi: 10.52711/0974-360X.2022.00846 (<https://www.doi.org/10.52711/0974-360X.2022.00846>)

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(AbstractView.aspx?
PID=2022-15-
11-31)

Antiproliferative and Antioxidant Activities of Chloroform Soluble and its Fractions Obtained from Methanolic Extract of Cocoa pod Husk (AbstractView.aspx?PID=2022-15-11-32)

Author(s): Sri Windananti, Mustanir Yahya, Binawati Ginting, Nurdin Saidi

DOI: 10.52711/0974-360X.2022.00847 (<https://www.doi.org/10.52711/0974-360X.2022.00847>)

Views: 0 (pdf), 478 (html)

Access:  Closed Access

Cite: Sri Windananti, Mustanir Yahya, Binawati Ginting, Nurdin Saidi. Antiproliferative and Antioxidant Activities of Chloroform Soluble and its Fractions Obtained from Methanolic Extract of Cocoa pod Husk. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5038-2. doi: 10.52711/0974-360X.2022.00847 (<https://www.doi.org/10.52711/0974-360X.2022.00847>)

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(AbstractView.aspx?
PID=2022-15-
11-32)

Residual Solvents by GC-HS Procedure for Etoricoxib: Method Development and Validation Report (AbstractView.aspx?PID=2022-15-11-33)

Author(s): Komali Sivaprasad, Vardhani Devi Duggirala Parvatha Venkata, Kapavarapu Maruthi Venkata Narayanarao, Pulipaka Shyamala

DOI: 10.52711/0974-360X.2022.00848 (<https://www.doi.org/10.52711/0974-360X.2022.00848>)

Views: 0 (pdf), 371 (html)

Access:  Closed Access

Cite: Komali Sivaprasad, Vardhani Devi Duggirala Parvatha Venkata, Kapavarapu Maruthi Venkata Narayanarao, Pulipaka Shyamala. Residual Solvents by GC-HS Procedure for Etoricoxib: Method Development and Validation Report. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5043-9. doi: 10.52711/0974-360X.2022.00848 (<https://www.doi.org/10.52711/0974-360X.2022.00848>)

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(AbstractView.aspx?

PID=2022-15-

11-33)

Isolation of bio-molecule Baicalein (5, 6, 7-Trihydroxy flavone) from root of Oroxyllum indicum L. Vent and its prospective interaction with COVID-19 Viral S-Protein Receptor Binding Domain (AbstractView.aspx?PID=2022-15-11-34)

Author(s): Mamta Gokhale, Rumana Faraz, Isha Deshpande, Ashish Garg

DOI: 10.52711/0974-360X.2022.00849 (<https://www.doi.org/10.52711/0974-360X.2022.00849>)

Views: 0 (pdf), 402 (html)

Access:  Closed Access

Cite: Mamta Gokhale, Rumana Faraz, Isha Deshpande, Ashish Garg. Isolation of bio-molecule Baicalein (5, 6, 7-Trihydroxy flavone) from root of Oroxyllum indicum L. Vent and its prospective interaction with COVID-19 Viral S-Protein Receptor Binding Domain. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5050-6. doi: 10.52711/0974-360X.2022.00849 (<https://www.doi.org/10.52711/0974-360X.2022.00849>)

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(AbstractView.aspx?

PID=2022-15-

11-34)

Effect of chronic unpredictable stress on behavioral analysis and cognitive functions in association with hippocampus glial cells (AbstractView.aspx?PID=2022-15-11-35)

Author(s): Megha Gokul, Nayanatara Arun Kumar, Rekha D. Kini, Nirupama M., Anupama N., Bhagyalakshmi K., Vandana Blossom, Santosh Rai P.V.

DOI: 10.52711/0974-360X.2022.00850 (<https://www.doi.org/10.52711/0974-360X.2022.00850>)

Views: 0 (pdf), 413 (html)

Access:  Closed Access

Cite: Megha Gokul, Nayanatara Arun Kumar, Rekha D. Kini, Nirupama M., Anupama N., Bhagyalakshmi K., Vandana Blossom, Santosh Rai P.V.. *Effect of chronic unpredictable stress on behavioral analysis and cognitive functions in association with hippocampus glial cells. Research Journal of Pharmacy and Technology. 2022; 15(11):5057-1. doi: 10.52711/0974-360X.2022.00850 (<https://www.doi.org/10.52711/0974-360X.2022.00850>)*

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(AbstractView.aspx?

PID=2022-15-

11-35)

The pharmacognostic profiling of traditionally used medicinal plants of Northeast India and evaluation of their in-vitro anti-oxidant and anti-inflammatory potential (AbstractView.aspx?PID=2022-15-11-36)

Author(s): SM Abdul Aziz Barbhuiya, Ajay Kakati, Muslek Uddin Mazumder, Md Rejwan Ahmed Choudhury, Mosrur Ahmed Laskar

DOI: 10.52711/0974-360X.2022.00851 (<https://www.doi.org/10.52711/0974-360X.2022.00851>)

Views: 0 (pdf), 351 (html)

Access:  Closed Access

Cite: SM Abdul Aziz Barbhuiya, Ajay Kakati, Muslek Uddin Mazumder, Md Rejwan Ahmed Choudhury, Mosrur Ahmed Laskar. *The pharmacognostic profiling of traditionally used medicinal plants of Northeast India and evaluation of their in-vitro anti-oxidant and anti-inflammatory potential. Research Journal of Pharmacy and Technology. 2022; 15(11):5062-7. doi: 10.52711/0974-360X.2022.00851 (<https://www.doi.org/10.52711/0974-360X.2022.00851>)*

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(AbstractView.aspx?

PID=2022-15-

11-36)

Mouth Dissolving Tablets: An Insight into Challenges and Future Prospects of Technologies in Pharmaceutical Industries (AbstractView.aspx?PID=2022-15-11-37)

Author(s): Jitendra Gupta

DOI: 10.52711/0974-360X.2022.00852 (<https://www.doi.org/10.52711/0974-360X.2022.00852>)

Views: 0 (pdf), 461 (html)

Access:  Closed Access

Cite: Jitendra Gupta. Mouth Dissolving Tablets: An Insight into Challenges and Future Prospects of Technologies in Pharmaceutical Industries. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5068-7. doi: 10.52711/0974-360X.2022.00852 (<https://www.doi.org/10.52711/0974-360X.2022.00852>)

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(AbstractView.aspx?
PID=2022-15-
11-37)

Estimation of shelf-life of Balachaturbhadraka syrup containing different sweetening agents (AbstractView.aspx?PID=2022-15-11-38)

Author(s): Chinky Goyal, Pankaj Bhatt, Shivani Rawat, Vipin Kumar Sharma, Meena Rani Ahuja

DOI: 10.52711/0974-360X.2022.00853 (<https://www.doi.org/10.52711/0974-360X.2022.00853>)

Views: 0 (pdf), 336 (html)

Access:  Closed Access

Cite: Chinky Goyal, Pankaj Bhatt, Shivani Rawat, Vipin Kumar Sharma, Meena Rani Ahuja. Estimation of shelf-life of Balachaturbhadraka syrup containing different sweetening agents. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5078-3. doi: 10.52711/0974-360X.2022.00853 (<https://www.doi.org/10.52711/0974-360X.2022.00853>)

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(AbstractView.aspx?
PID=2022-15-
11-38)

Effect of Ayurvedic oral medication and Panchakarma therapy in Gridhrasi (Sciatica) - A Case Report (AbstractView.aspx?PID=2022-15-11-39)

Author(s): Anjali Rajesh Pote, Digambar G. Dipankar, Sima Balaprasad Jaju, Roshani Shekhar Patil

DOI: 10.52711/0974-360X.2022.00854 (<https://www.doi.org/10.52711/0974-360X.2022.00854>)

Views: 0 (pdf), 458 (html)

Access:  Closed Access

Cite: Anjali Rajesh Pote, Digambar G. Dipankar, Sima Balaprasad Jaju, Roshani Shekhar Patil. Effect of Ayurvedic oral medication and Panchakarma therapy in Gridhrasi (Sciatica) - A Case Report. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5084-8. doi: 10.52711/0974-360X.2022.00854 (<https://www.doi.org/10.52711/0974-360X.2022.00854>)

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(AbstractView.aspx?
PID=2022-15-
11-39)

The Vedic medicine ingredient from household kitchens is the prospecting element for the future medicinal innovations in pharmaceuticals: Statistical analysis (AbstractView.aspx?PID=2022-15-11-4)

Author(s): Gurvishal Sinha

DOI: 10.52711/0974-360X.2022.00819 (<https://www.doi.org/10.52711/0974-360X.2022.00819>)

Views: 0 (pdf), 503 (html)

Access:  Closed Access

Cite: Gurvishal Sinha. The Vedic medicine ingredient from household kitchens is the prospecting element for the future medicinal innovations in pharmaceuticals: Statistical analysis. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4876-0. doi: 10.52711/0974-360X.2022.00819 (<https://www.doi.org/10.52711/0974-360X.2022.00819>)

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(AbstractView.aspx?
PID=2022-15-
11-4)

Solubility Enhancement of Paclitaxel by Using Biomaterial (AbstractView.aspx?PID=2022-15-11-40)

Author(s): Sachin D. Rede, Rupal K. Jani

DOI: 10.52711/0974-360X.2022.00855 (<https://www.doi.org/10.52711/0974-360X.2022.00855>)

Views: 0 (pdf), 411 (html)

Access:  Closed Access

Cite: Sachin D. Rede, Rupal K. Jani. Solubility Enhancement of Paclitaxel by Using Biomaterial. Solubility Enhancement of Paclitaxel by Using Biomaterial. Research Journal of Pharmacy and Technology. 2022; 15(11):5089-3. doi: 10.52711/0974-360X.2022.00855 (<https://www.doi.org/10.52711/0974-360X.2022.00855>)

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(AbstractView.aspx?
PID=2022-15-
11-40)

Effect of intermittent fasting and complete fasting on biochemical and histological parameters in high fat high sugar induced rat model of obesity (AbstractView.aspx?PID=2022-15-11-41)

Author(s): Sourav V , Anupama N, Nayanatara Arun Kumar, Chitra Pai Kulyadi, Sowndarya K

DOI: 10.52711/0974-360X.2022.00856 (<https://www.doi.org/10.52711/0974-360X.2022.00856>)

Views: 0 (pdf), 696 (html)

Access:  Closed Access

Cite: Sourav V , Anupama N, Nayanatara Arun Kumar, Chitra Pai Kulyadi, Sowndarya K. Effect of intermittent fasting and complete fasting on biochemical and histological parameters in high fat high sugar induced rat model of obesity. Research Journal of Pharmacy and Technology. 2022; 15(11):5094-8. doi: 10.52711/0974-360X.2022.00856 (<https://www.doi.org/10.52711/0974-360X.2022.00856>)

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(AbstractView.aspx?
PID=2022-15-
11-41)

Molecular Detection of some Staphylococcal species with the newly developed folp gene sequences (AbstractView.aspx?PID=2022-15-11-42)

Author(s): Mohamed Mohamed Adel El-Sokkary

DOI: 10.52711/0974-360X.2022.00857 (<https://www.doi.org/10.52711/0974-360X.2022.00857>)

Views: 0 (pdf), 375 (html)

Access:  Closed Access

Cite: Mohamed Mohamed Adel El-Sokkary. Molecular Detection of some Staphylococcal species with the newly developed folp gene sequences. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5099-5. doi: 10.52711/0974-360X.2022.00857 (<https://www.doi.org/10.52711/0974-360X.2022.00857>)

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(AbstractView.aspx?
PID=2022-15-
11-42)

In Vitro Antioxidant and Sunscreen Activities of Gyrinops versteegi Leaf Extract from Different Location in Indonesia and Phytosome Combinations (AbstractView.aspx?PID=2022-15-11-43)

Author(s): Rita Kartika Sari, Maeda Wahyuningrum, Salman Arib Rozan, M. Ilham Aulia, Mohamad Rafi, Ietje Wientarsih

DOI: 10.52711/0974-360X.2022.00858 (<https://www.doi.org/10.52711/0974-360X.2022.00858>)

Views: 0 (pdf), 495 (html)

Access:  Closed Access

Cite: Rita Kartika Sari, Maeda Wahyuningrum, Salman Arib Rozan, M. Ilham Aulia, Mohamad Rafi, Ietje Wientarsih. In Vitro Antioxidant and Sunscreen Activities of Gyrinops versteegi Leaf Extract from Different Location in Indonesia and Phytosome Combinations. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5106-5111. doi: 10.52711/0974-360X.2022.00858 (<https://www.doi.org/10.52711/0974-360X.2022.00858>)

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(AbstractView.aspx?
PID=2022-15-
11-43)

Antioxidant Potential of different extracts of *Xanthium strumarium* leaves (AbstractView.aspx?PID=2022-15-11-44)

Author(s): Deepak Kumar, Ashwani Sanghi, Shefali Arora, Shobhit Vidyarthi

DOI: 10.52711/0974-360X.2022.00859 (<https://www.doi.org/10.52711/0974-360X.2022.00859>)

Views: 0 (pdf), 424 (html)

Access:  Closed Access

Cite: Deepak Kumar, Ashwani Sanghi, Shefali Arora, Shobhit Vidyarthi. Antioxidant Potential of different extracts of *Xanthium strumarium* leaves. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5112-4. doi: 10.52711/0974-360X.2022.00859 (<https://www.doi.org/10.52711/0974-360X.2022.00859>)

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(AbstractView.aspx?
PID=2022-15-
11-44)

Anti-inflammatory activity of methanol and ethyl acetate fractions of *Sesbania grandiflora* roots in rats (AbstractView.aspx?PID=2022-15-11-45)

Author(s): Vinay NS, Pooja T, Nandeesh R, Syed Mansoor Ahmed, Veeresh P Veerapur, Babitha S

DOI: 10.52711/0974-360X.2022.00860 (<https://www.doi.org/10.52711/0974-360X.2022.00860>)

Views: 0 (pdf), 328 (html)

Access:  Closed Access

Cite: Vinay NS, Pooja T, Nandeesh R, Syed Mansoor Ahmed, Veeresh P Veerapur, Babitha S. Anti-inflammatory activity of methanol and ethyl acetate fractions of *Sesbania grandiflora* roots in rats. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5115-9. doi: 10.52711/0974-360X.2022.00860 (<https://www.doi.org/10.52711/0974-360X.2022.00860>)

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(AbstractView.aspx?
PID=2022-15-
11-45)

In vitro Antioxidant Potential and Anti-bacterial Activities of Rajanyadi Churna Extracts Against Escherichia coli (AbstractView.aspx?PID=2022-15-11-46)

Author(s): *Rupali Deshpande, Chandrashekar K.S., Vasudev R Pai, Venkatesh Kamath, Aswatha Ram H.N.*

DOI: 10.52711/0974-360X.2022.00861 (<https://www.doi.org/10.52711/0974-360X.2022.00861>)

Views: 0 (pdf), 443 (html)

Access:  Closed Access

Cite: *Rupali Deshpande, Chandrashekar K.S., Vasudev R Pai, Venkatesh Kamath, Aswatha Ram H.N.. In vitro Antioxidant Potential and Anti-bacterial Activities of Rajanyadi Churna Extracts Against Escherichia coli. Research Journal of Pharmacy and Technology. 2022; 15(11):5120-5. doi: 10.52711/0974-360X.2022.00861 (<https://www.doi.org/10.52711/0974-360X.2022.00861>)*

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(AbstractView.aspx?
PID=2022-15-
11-46)

Clinical assessment of a synthetic biomaterial containing hydroxyapatite and beta tricalcium phosphate in socket preservation (AbstractView.aspx?PID=2022-15-11-47)

Author(s): *Ali Forouzanfar, Mehrdad Radvar, Ebrahim Shayesteh, Hamideh Sadat Mohammadipour*

DOI: 10.52711/0974-360X.2022.00862 (<https://www.doi.org/10.52711/0974-360X.2022.00862>)

Views: 0 (pdf), 483 (html)

Access:  Closed Access

Cite: *Ali Forouzanfar, Mehrdad Radvar, Ebrahim Shayesteh, Hamideh Sadat Mohammadipour. Clinical assessment of a synthetic biomaterial containing hydroxyapatite and beta tricalcium phosphate in socket preservation. Research Journal of Pharmacy and Technology. 2022; 15(11):5126-1. doi: 10.52711/0974-360X.2022.00862 (<https://www.doi.org/10.52711/0974-360X.2022.00862>)*

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(AbstractView.aspx?
PID=2022-15-
11-47)

Fenofibrate and Statins in Patients with COVID-19 (AbstractView.aspx?PID=2022-15-11-48)

Author(s): Yazan Batineh, Qutaiba Ahmed Al Khames Aga, Kawthar Faris Nassir, Tharwat I Sulaiman, Ali Abbas Al-Gharawi, Jawad I Rasheed, Zaid Al Madfai, Mutaz A. Sheikh Salem, Luma Ahmed Al Khames Aga, Manhal Yasseen Rijab Agha, Eamon Abdullah

DOI: 10.52711/0974-360X.2022.00863 (<https://www.doi.org/10.52711/0974-360X.2022.00863>)

Views: 0 (pdf), 371 (html)

Access:  Closed Access

Cite: Yazan Batineh, Qutaiba Ahmed Al Khames Aga, Kawthar Faris Nassir, Tharwat I Sulaiman, Ali Abbas Al-Gharawi, Jawad I Rasheed, Zaid Al Madfai, Mutaz A. Sheikh Salem, Luma Ahmed Al Khames Aga, Manhal Yasseen Rijab Agha, Eamon Abdullah. Fenofibrate and Statins in Patients with COVID-19. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5132-8. doi: 10.52711/0974-360X.2022.00863 (<https://www.doi.org/10.52711/0974-360X.2022.00863>)

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(AbstractView.aspx?
PID=2022-15-
11-48)

Knowledge assessment of dental implant practitioners at Ajman and Sharjah dental schools (AbstractView.aspx?PID=2022-15-11-49)

Author(s): Haya Nadhim DDS, Frah A. Ezaez DDS, Amaweya Abdulrahman Al-Sammarraie, Ayyam Khalid Abdulkareem

DOI: 10.52711/0974-360X.2022.00864 (<https://www.doi.org/10.52711/0974-360X.2022.00864>)

Views: 0 (pdf), 282 (html)

Access:  Closed Access

Cite: Haya Nadhim DDS, Frah A. Ezaez DDS, Amaweya Abdulrahman Al-Sammarraie, Ayyam Khalid Abdulkareem. Knowledge assessment of dental implant practitioners at Ajman and Sharjah dental schools. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5139-3. doi: 10.52711/0974-360X.2022.00864 (<https://www.doi.org/10.52711/0974-360X.2022.00864>)

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(AbstractView.aspx?
PID=2022-15-
11-49)

Can Spices Cure Flu?: A Multiple targets based Bioinformatics analysis (AbstractView.aspx?PID=2022-15-11-5)

Author(s): *Pragya Chaturvedi, Vijay Laxmi Saxena, Vishakha Raina, Pooran Singh Solanki, Abhishek Chaturvedi*

DOI: 10.52711/0974-360X.2022.00820 (<https://www.doi.org/10.52711/0974-360X.2022.00820>)

Views: 0 (*pdf*), 396 (*html*)

Access:  Closed Access

Cite: *Pragya Chaturvedi, Vijay Laxmi Saxena, Vishakha Raina, Pooran Singh Solanki, Abhishek Chaturvedi. Can Spices Cure Flu?: A Multiple targets based Bioinformatics analysis. Research Journal of Pharmacy and Technology. 2022; 15(11):4881-6. doi: 10.52711/0974-360X.2022.00820 (<https://www.doi.org/10.52711/0974-360X.2022.00820>)*

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(AbstractView.aspx?
PID=2022-15-
11-5)

Cytotoxicity Evaluation of Chalcone-Coumarin Conjugates Against A549 Cell Line (AbstractView.aspx?PID=2022-15-11-50)

Author(s): *Raj Keshwar Prasad, Kavita R. Loksh*

DOI: 10.52711/0974-360X.2022.00865 (<https://www.doi.org/10.52711/0974-360X.2022.00865>)

Views: 0 (*pdf*), 333 (*html*)

Access:  Closed Access

Cite: *Raj Keshwar Prasad, Kavita R. Loksh. Cytotoxicity Evaluation of Chalcone-Coumarin Conjugates Against A549 Cell Line. Research Journal of Pharmacy and Technology. 2022; 15(11):5144-7. doi: 10.52711/0974-360X.2022.00865 (<https://www.doi.org/10.52711/0974-360X.2022.00865>)*

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(AbstractView.aspx?
PID=2022-15-
11-50)

Validation of quantitative determination methods of active substances in Carbatryl tablets (AbstractView.aspx?PID=2022-15-11-51)

Author(s): Kucherenko Liudmyla, Nimenko Ganna, Khromylova Olga, Borsuk Serhii

DOI: 10.52711/0974-360X.2022.00866 (<https://www.doi.org/10.52711/0974-360X.2022.00866>)

Views: 0 (pdf), 350 (html)

Access:  Closed Access

Cite: Kucherenko Liudmyla, Nimenko Ganna, Khromylova Olga, Borsuk Serhii. Validation of quantitative determination methods of active substances in Carbatryl tablets. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5148-3. doi: 10.52711/0974-360X.2022.00866 (<https://www.doi.org/10.52711/0974-360X.2022.00866>)

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(AbstractView.aspx?
PID=2022-15-
11-51)

Formulation and Evaluation of Mouth Dissolving Films of Amlodipine Besylate by using Natural and Synthetic Polymers (AbstractView.aspx?PID=2022-15-11-52)

Author(s): Umar Faruk Sha A., Pravin S.

DOI: 10.52711/0974-360X.2022.00867 (<https://www.doi.org/10.52711/0974-360X.2022.00867>)

Views: 0 (pdf), 518 (html)

Access:  Closed Access

Cite: Umar Faruk Sha A., Pravin S.. Formulation and Evaluation of Mouth Dissolving Films of Amlodipine Besylate by using Natural and Synthetic Polymers. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5154-7. doi: 10.52711/0974-360X.2022.00867 (<https://www.doi.org/10.52711/0974-360X.2022.00867>)

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(AbstractView.aspx?
PID=2022-15-
11-52)

Gas Chromatography-Head Space-Flame Ionization Sensor based assessment of four residuary solvents in rivaroxaban bulk medication (AbstractView.aspx?PID=2022-15-11-53)

Author(s): Rajesh Varma Bhupatiraju, Battula Sreenivasa Rao

DOI: 10.52711/0974-360X.2022.00868 (<https://www.doi.org/10.52711/0974-360X.2022.00868>)

Views: 0 (pdf), 377 (html)

Access:  Closed Access

Cite: Rajesh Varma Bhupatiraju, Battula Sreenivasa Rao. Gas Chromatography-Head Space-Flame Ionization Sensor based assessment of four residuary solvents in rivaroxaban bulk medication. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5158-3. doi: 10.52711/0974-360X.2022.00868 (<https://www.doi.org/10.52711/0974-360X.2022.00868>)

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(AbstractView.aspx?
PID=2022-15-
11-53)

Identification of metabolite compounds from ethanolic extract of the Red Gedi Leaves (*Abelmoschus manihot* L. Medik) by LC-ESI-MS (AbstractView.aspx?PID=2022-15-11-54)

Author(s): Juliet Tangka, Elisabeth N. Barung, Diana Lyrawati, Djoko W. Soeatmadji, Nurdiana

DOI: 10.52711/0974-360X.2022.00869 (<https://www.doi.org/10.52711/0974-360X.2022.00869>)

Views: 0 (pdf), 488 (html)

Access:  Closed Access

Cite: Juliet Tangka, Elisabeth N. Barung, Diana Lyrawati, Djoko W. Soeatmadji, Nurdiana. Identification of metabolite compounds from ethanolic extract of the Red Gedi Leaves (*Abelmoschus manihot* L. Medik) by LC-ESI-MS. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5164-7. doi: 10.52711/0974-360X.2022.00869 (<https://www.doi.org/10.52711/0974-360X.2022.00869>)

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(AbstractView.aspx?
PID=2022-15-
11-54)

Exploring *Schleichera oleasa* crude bark extract for its anti-helminthic potential (AbstractView.aspx?PID=2022-15-11-55)

Author(s): Jasmine Chaudhary, Akash Jain, Anns Sabu, Priyanka Jha, Prerna Sarup, Vishal Sharma, Diksha Sharma

DOI: 10.52711/0974-360X.2022.00870 (<https://www.doi.org/10.52711/0974-360X.2022.00870>)

Views: 0 (pdf), 660 (html)

Access:  Closed Access

Cite: Jasmine Chaudhary, Akash Jain, Anns Sabu, Priyanka Jha, Prerna Sarup, Vishal Sharma, Diksha Sharma. *Exploring *Schleichera oleasa* crude bark extract for its anti-helminthic potential. Research Journal of Pharmacy and Technology. 2022; 15(11):5168-1. doi: 10.52711/0974-360X.2022.00870* (<https://www.doi.org/10.52711/0974-360X.2022.00870>)

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(AbstractView.aspx?
PID=2022-15-
11-55)

Perception and Attitude of Medical and Dental Students Towards Covid-19 and its Vaccination in A Medical and Dental College of India (AbstractView.aspx?PID=2022-15-11-56)

Author(s): Zuryat Ashraf, Mehwish Majeed, Tauseef Nazir, Sameena Farhat, Shaheena Rasool, Mohd. Adil

DOI: 10.52711/0974-360X.2022.00871 (<https://www.doi.org/10.52711/0974-360X.2022.00871>)

Views: 0 (pdf), 254 (html)

Access:  Closed Access

Cite: Zuryat Ashraf, Mehwish Majeed, Tauseef Nazir, Sameena Farhat, Shaheena Rasool, Mohd. Adil. *Perception and Attitude of Medical and Dental Students Towards Covid-19 and its Vaccination in A Medical and Dental College of India. Research Journal of Pharmacy and Technology. 2022; 15(11):5172-6. doi: 10.52711/0974-360X.2022.00871* (<https://www.doi.org/10.52711/0974-360X.2022.00871>)

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(AbstractView.aspx?
PID=2022-15-
11-56)

Botanical Identification of Ayush - Ayurveda and Unani Drugs and its Relevance in Quality Control (AbstractView.aspx?PID=2022-15-11-57)

Author(s): Mohd Kashif Husain

DOI: 10.52711/0974-360X.2022.00872 (<https://www.doi.org/10.52711/0974-360X.2022.00872>)

Views: 0 (pdf), 428 (html)

Access:  Closed Access

Cite: Mohd Kashif Husain. *Botanical Identification of Ayush - Ayurveda and Unani Drugs and its Relevance in Quality Control. Research Journal of Pharmacy and Technology. 2022; 15(11):5177-3. doi: 10.52711/0974-360X.2022.00872* (<https://www.doi.org/10.52711/0974-360X.2022.00872>)

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(AbstractView.aspx?
PID=2022-15-
11-57)

Antioxidant Activity and Compounds Identification of Sauropus androgynus (L.) Merr. and Moringa oleifera Lam Leaves Combination Fermented with Kombucha Consortium (AbstractView.aspx?PID=2022-15-11-58)

Author(s): Santi Endrawati, Nina Artanti, Muhammad Hanafi

DOI: 10.52711/0974-360X.2022.00873 (<https://www.doi.org/10.52711/0974-360X.2022.00873>)

Views: 0 (pdf), 466 (html)

Access:  Closed Access

Cite: Santi Endrawati, Nina Artanti, Muhammad Hanafi. *Antioxidant Activity and Compounds Identification of Sauropus androgynus (L.) Merr. and Moringa oleifera Lam Leaves Combination Fermented with Kombucha Consortium. Research Journal of Pharmacy and Technology. 2022; 15(11):5184-1. doi: 10.52711/0974-360X.2022.00873* (<https://www.doi.org/10.52711/0974-360X.2022.00873>)

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(AbstractView.aspx?
PID=2022-15-
11-58)

To Compare the Effectiveness of Balance and Proprioception with Conventional Exercise in Non Specific Neck Pain (AbstractView.aspx?PID=2022-15-11-59)

Author(s): Rajalaxmi.V, Sushmitha Anandhan, K.Kirupa, K. Kamatchi, Radhakrishnan Unnikrishnan, Shady Abdullah Alshewaier

DOI: 10.52711/0974-360X.2022.00874 (<https://www.doi.org/10.52711/0974-360X.2022.00874>)

Views: 0 (pdf), 339 (html)

Access:  Closed Access

Cite: Rajalaxmi.V, Sushmitha Anandhan, K.Kirupa, K. Kamatchi, Radhakrishnan Unnikrishnan, Shady Abdullah Alshewaier. To Compare the Effectiveness of Balance and Proprioception with Conventional Exercise in Non Specific Neck Pain. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5192-5. doi: 10.52711/0974-360X.2022.00874 (<https://www.doi.org/10.52711/0974-360X.2022.00874>)

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PID=2022-15-

11-59)

Molecular interaction of Centella asiatica bioactive compounds and Donepezil on Alzheimer's protein through in silico studies (AbstractView.aspx?PID=2022-15-11-6)

Author(s): Hagar Ali Marzouk, Syahputra Wibowo, Husnul Khotimah, Sutiman Bambang Sumitro

DOI: 10.52711/0974-360X.2022.00821 (<https://www.doi.org/10.52711/0974-360X.2022.00821>)

Views: 0 (pdf), 562 (html)

Access:  Closed Access

Cite: Hagar Ali Marzouk, Syahputra Wibowo, Husnul Khotimah, Sutiman Bambang Sumitro. Molecular interaction of Centella asiatica bioactive compounds and Donepezil on Alzheimer's protein through in silico studies. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4887-6. doi: 10.52711/0974-360X.2022.00821 (<https://www.doi.org/10.52711/0974-360X.2022.00821>)

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(AbstractView.aspx?

PID=2022-15-

11-6)

Standardization of Dengen Bark Extract (*Dillenia serrata*) for Emulgel Product Development (AbstractView.aspx?PID=2022-15-11-60)

Author(s): Santi Sinala, Ismail Ibrahim, Sisilia Teresia Rosmala Dewi, Sesilia Rante Pakadang, Jumain, Arisanty

DOI: 10.52711/0974-360X.2022.00875 (<https://www.doi.org/10.52711/0974-360X.2022.00875>)

Views: 0 (pdf), 443 (html)

Access:  Closed Access

Cite: Santi Sinala, Ismail Ibrahim, Sisilia Teresia Rosmala Dewi, Sesilia Rante Pakadang, Jumain, Arisanty. Standardization of Dengen Bark Extract (*Dillenia serrata*) for Emulgel Product Development. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5196-2. doi: 10.52711/0974-360X.2022.00875 (<https://www.doi.org/10.52711/0974-360X.2022.00875>)

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(AbstractView.aspx?
PID=2022-15-
11-60)

ADR profile among healthcare workers on Hydroxychloroquine prophylaxis in a tertiary care teaching hospital in India (AbstractView.aspx?PID=2022-15-11-61)

Author(s): Neha Rani, Tirthankar Deb, Ankita Beniwal, Astha Singh

DOI: 10.52711/0974-360X.2022.00876 (<https://www.doi.org/10.52711/0974-360X.2022.00876>)

Views: 0 (pdf), 396 (html)

Access:  Closed Access

Cite: Neha Rani, Tirthankar Deb, Ankita Beniwal, Astha Singh. ADR profile among healthcare workers on Hydroxychloroquine prophylaxis in a tertiary care teaching hospital in India. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5202-5. doi: 10.52711/0974-360X.2022.00876 (<https://www.doi.org/10.52711/0974-360X.2022.00876>)

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(AbstractView.aspx?
PID=2022-15-
11-61)

Standardization of Proprietary Ayurvedic Laxative Tablet Formulation – Vasulax (AbstractView.aspx?PID=2022-15-11-62)

Author(s): Madhavi Patel, Shivangi Chauhan, Vishal Patel, Hardik Soni, Vikram Trivedi

DOI: 10.52711/0974-360X.2022.00877 (<https://www.doi.org/10.52711/0974-360X.2022.00877>)

Views: 0 (pdf), 395 (html)

Access:  Closed Access

Cite: Madhavi Patel, Shivangi Chauhan, Vishal Patel, Hardik Soni, Vikram Trivedi. Standardization of Proprietary Ayurvedic Laxative Tablet Formulation – Vasulax. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5206-0. doi: 10.52711/0974-360X.2022.00877 (<https://www.doi.org/10.52711/0974-360X.2022.00877>)

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(AbstractView.aspx?
PID=2022-15-
11-62)

Formulation and characterization of Sauropus androgynous (L) Merr leaf extract Gel in Combination with CMC-Na and Carbopol 940 Using DPPH Method (AbstractView.aspx?PID=2022-15-11-63)

Author(s): Ni Nyoman Yuliani, Jefrin Sambara, Sandeep Poddar, Urmisha Das

DOI: 10.52711/0974-360X.2022.00878 (<https://www.doi.org/10.52711/0974-360X.2022.00878>)

Views: 0 (pdf), 470 (html)

Access:  Closed Access

Cite: Ni Nyoman Yuliani, Jefrin Sambara, Sandeep Poddar, Urmisha Das. Formulation and characterization of Sauropus androgynous (L) Merr leaf extract Gel in Combination with CMC-Na and Carbopol 940 Using DPPH Method. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5211-6. doi: 10.52711/0974-360X.2022.00878 (<https://www.doi.org/10.52711/0974-360X.2022.00878>)

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(AbstractView.aspx?
PID=2022-15-
11-63)

Synthesis and genotoxic evaluation of a 4-(Oxiran-2-ylmethyl)-1,4-benzothiazin-3-one (AbstractView.aspx?PID=2022-15-11-64)

Author(s): Hassan Jaddi, Ahmed Moussaif, Laila. Benbacer, Mohammed Attaleb, Mohamed Ellouz, Nada Kheira Sebbar

DOI: 10.52711/0974-360X.2022.00879 (<https://www.doi.org/10.52711/0974-360X.2022.00879>)

Views: 0 (pdf), 407 (html)

Access:  Closed Access

Cite: Hassan Jaddi, Ahmed Moussaif, Laila. Benbacer, Mohammed Attaleb, Mohamed Ellouz, Nada Kheira Sebbar. Synthesis and genotoxic evaluation of a 4-(Oxiran-2-ylmethyl)-1,4-benzothiazin-3-one. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5217-4. doi: 10.52711/0974-360X.2022.00879 (<https://www.doi.org/10.52711/0974-360X.2022.00879>)

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(AbstractView.aspx?
PID=2022-15-
11-64)

Development and qualitative evaluation of periodontal gel containing an antibacterial agent for periodontal disease (AbstractView.aspx?PID=2022-15-11-65)

Author(s): Gaurav Tiwari, Garima Singh, Ravi Shekhar, Ruchi Tiwari

DOI: 10.52711/0974-360X.2022.00880 (<https://www.doi.org/10.52711/0974-360X.2022.00880>)

Views: 0 (pdf), 371 (html)

Access:  Closed Access

Cite: Gaurav Tiwari, Garima Singh, Ravi Shekhar, Ruchi Tiwari. Development and qualitative evaluation of periodontal gel containing an antibacterial agent for periodontal disease. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5225-1. doi: 10.52711/0974-360X.2022.00880 (<https://www.doi.org/10.52711/0974-360X.2022.00880>)

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(AbstractView.aspx?
PID=2022-15-
11-65)

Development and validation of UV spectroscopic method for estimation of sacubitril and valsartan combination (LCZ696) in bulk and pharmaceutical tablet dosage forms (AbstractView.aspx?PID=2022-15-11-66)

Author(s): Rajeswari Aleti, K. V. Ramana Murthy

DOI: 10.52711/0974-360X.2022.00881 (<https://www.doi.org/10.52711/0974-360X.2022.00881>)

Views: 0 (pdf), 591 (html)

Access:  Closed Access

Cite: Rajeswari Aleti, K. V. Ramana Murthy. Development and validation of UV spectroscopic method for estimation of sacubitril and valsartan combination (LCZ696) in bulk and pharmaceutical tablet dosage forms. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5232-8. doi: 10.52711/0974-360X.2022.00881 (<https://www.doi.org/10.52711/0974-360X.2022.00881>)

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(AbstractView.aspx?
PID=2022-15-
11-66)

Sero-characterization of intestinal and extra-intestinal Escherichia coli (E. coli) isolates from different geographical locations in India (AbstractView.aspx?PID=2022-15-11-67)

Author(s): Gulshan Kumar, Yashwant Kumar, Gaurav Kumar, Ajay Kumar Tahlan

DOI: 10.52711/0974-360X.2022.00882 (<https://www.doi.org/10.52711/0974-360X.2022.00882>)

Views: 0 (pdf), 340 (html)

Access:  Closed Access

Cite: Gulshan Kumar, Yashwant Kumar, Gaurav Kumar, Ajay Kumar Tahlan. Sero-characterization of intestinal and extra-intestinal Escherichia coli (E. coli) isolates from different geographical locations in India. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5239-4. doi: 10.52711/0974-360X.2022.00882 (<https://www.doi.org/10.52711/0974-360X.2022.00882>)

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(AbstractView.aspx?
PID=2022-15-
11-67)

A Comparative Clinical Study to Evaluate the Efficacy of Gomutra Arka Bhavita Shilajatu and Agnimantha Bhavita Shilajatu in Sthaulya W.S.R. To Obesity (AbstractView.aspx?PID=2022-15-11-68)

Author(s): Roshani Shekhar Patil, Jibi Varghese, Jaypalsing Prakashsing Pawar, Rashmi Gangadhar Kurbet, Anjali Rajesh Pote

DOI: 10.52711/0974-360X.2022.00883 (<https://www.doi.org/10.52711/0974-360X.2022.00883>)

Views: 0 (pdf), 462 (html)

Access:  Closed Access

Cite: Roshani Shekhar Patil, Jibi Varghese, Jaypalsing Prakashsing Pawar, Rashmi Gangadhar Kurbet, Anjali Rajesh Pote. A Comparative Clinical Study to Evaluate the Efficacy of Gomutra Arka Bhavita Shilajatu and Agnimantha Bhavita Shilajatu in Sthaulya W.S.R. To Obesity. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5245-9. doi: 10.52711/0974-360X.2022.00883 (<https://www.doi.org/10.52711/0974-360X.2022.00883>)

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(AbstractView.aspx?
PID=2022-15-
11-68)

Potential matrix metalloproteinase-9 inhibitor of aurone compound isolated from Sterculia quadrifida leaves: In-vitro and in-silico studies (AbstractView.aspx?PID=2022-15-11-69)

Author(s): Rollando Rollando, Warsito Warsito, Masruri Masruri, Nashi Widodo

DOI: 10.52711/0974-360X.2022.00884 (<https://www.doi.org/10.52711/0974-360X.2022.00884>)

Views: 0 (pdf), 412 (html)

Access:  Closed Access

Cite: Rollando Rollando, Warsito Warsito, Masruri Masruri, Nashi Widodo. Potential matrix metalloproteinase-9 inhibitor of aurone compound isolated from Sterculia quadrifida leaves: In-vitro and in-silico studies. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5250-4. doi: 10.52711/0974-360X.2022.00884 (<https://www.doi.org/10.52711/0974-360X.2022.00884>)

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(AbstractView.aspx?
PID=2022-15-
11-69)

Attenuation of Experimentally Induced Anxiety by Panchagavya Ghrita in Mice (AbstractView.aspx?PID=2022-15-11-7)

Author(s): Gururaja MP, Nidhi P Shetty, Himanshu Joshi

DOI: 10.52711/0974-360X.2022.00822 (<https://www.doi.org/10.52711/0974-360X.2022.00822>)

Views: 0 (pdf), 449 (html)

Access:  Closed Access

Cite: Gururaja MP, Nidhi P Shetty, Himanshu Joshi. Attenuation of Experimentally Induced Anxiety by Panchagavya Ghrita in Mice. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4897-0. doi: 10.52711/0974-360X.2022.00822 (<https://www.doi.org/10.52711/0974-360X.2022.00822>)

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(AbstractView.aspx?
PID=2022-15-
11-7)

Development and Validation of HPTLC Method for the Estimation of Escitalopram oxalate and Flupentixol Dihydrochloride in Pharmaceutical Formulation (AbstractView.aspx?PID=2022-15-11-70)

Author(s): S. Malathi, H. Ananthi

DOI: 10.52711/0974-360X.2022.00885 (<https://www.doi.org/10.52711/0974-360X.2022.00885>)

Views: 0 (pdf), 347 (html)

Access:  Closed Access

Cite: S. Malathi, H. Ananthi. Development and Validation of HPTLC Method for the Estimation of Escitalopram oxalate and Flupentixol Dihydrochloride in Pharmaceutical Formulation. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5255-9. doi: 10.52711/0974-360X.2022.00885 (<https://www.doi.org/10.52711/0974-360X.2022.00885>)

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(AbstractView.aspx?
PID=2022-15-
11-70)

Assessment of behavioral and anatomical changes in anterior Cingulate gyrus and Substantia nigra in stressed adult albino mice (AbstractView.aspx?PID=2022-15-11-71)

Author(s): Hemalatha Bangera, Vasanthalakshmi K R, Manjula SD

DOI: 10.52711/0974-360X.2022.00886 (<https://www.doi.org/10.52711/0974-360X.2022.00886>)

Views: 0 (pdf), 337 (html)

Access:  Closed Access

Cite: Hemalatha Bangera, Vasanthalakshmi K R, Manjula SD. Assessment of behavioral and anatomical changes in anterior Cingulate gyrus and Substantia nigra in stressed adult albino mice. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5260-6. doi: 10.52711/0974-360X.2022.00886 (<https://www.doi.org/10.52711/0974-360X.2022.00886>)

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(AbstractView.aspx?
PID=2022-15-
11-71)

Exploration of phytochemical and in-vitro antioxidant and antidiabetic properties of *Aerva sanguinolenta* (L.) Blume (AbstractView.aspx?PID=2022-15-11-72)

Author(s): Nilanjan Sarkar, Sara Farheen, Mainak Chakraborty, Swarupananda Mukherjee, Pallab Kanti Haldar

DOI: 10.52711/0974-360X.2022.00887 (<https://www.doi.org/10.52711/0974-360X.2022.00887>)

Views: 0 (pdf), 374 (html)

Access:  Closed Access

Cite: Nilanjan Sarkar, Sara Farheen, Mainak Chakraborty, Swarupananda Mukherjee, Pallab Kanti Haldar. Exploration of phytochemical and in-vitro antioxidant and antidiabetic properties of *Aerva sanguinolenta* (L.) Blume. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5267-2. doi: 10.52711/0974-360X.2022.00887 (<https://www.doi.org/10.52711/0974-360X.2022.00887>)

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(AbstractView.aspx?
PID=2022-15-
11-72)

Clinical Pharmacist role and their Importance in the Systematic Analysis of Diabetes Management Studies (AbstractView.aspx?PID=2022-15-11-73)

Author(s): Sini T. Inasu, M.V. Kumudavalli, B.S. Venkateswarlu

DOI: 10.52711/0974-360X.2022.00888 (<https://www.doi.org/10.52711/0974-360X.2022.00888>)

Views: 0 (pdf), 384 (html)

Access:  Closed Access

Cite: Sini T. Inasu, M.V. Kumudavalli, B.S. Venkateswarlu. *Clinical Pharmacist role and their Importance in the Systematic Analysis of Diabetes Management Studies. Research Journal of Pharmacy and Technology. 2022; 15(11):5273-7. doi: 10.52711/0974-360X.2022.00888 (<https://www.doi.org/10.52711/0974-360X.2022.00888>)*

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(AbstractView.aspx?
PID=2022-15-
11-73)

Antimicrobial Studies on Aqueous and Ethanolic Extract of Root, Stem and Leaves of Phyllanthus niruri (Bhumi Amla): Hepatoprotective Medicinal Plant (AbstractView.aspx?PID=2022-15-11-74)

Author(s): Reni Nigam, Praveen Garg

DOI: 10.52711/0974-360X.2022.00889 (<https://www.doi.org/10.52711/0974-360X.2022.00889>)

Views: 0 (pdf), 383 (html)

Access:  Closed Access

Cite: Reni Nigam, Praveen Garg. *Antimicrobial Studies on Aqueous and Ethanolic Extract of Root, Stem and Leaves of Phyllanthus niruri (Bhumi Amla): Hepatoprotective Medicinal Plant. Research Journal of Pharmacy and Technology. 2022; 15(11):5278-2. doi: 10.52711/0974-360X.2022.00889 (<https://www.doi.org/10.52711/0974-360X.2022.00889>)*

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(AbstractView.aspx?
PID=2022-15-
11-74)

Development and Evaluation of Essential Oil-based Lozenges using Menthol and Eucalyptus and in vitro Evaluation of their Antimicrobial activity in S.aureus and E.coli (AbstractView.aspx?PID=2022-15-11-75)

Author(s): Manas Ranjan Sahoo, Marakanam Srinivasan Umashankar, Ramesh Raghava Varier

DOI: 10.52711/0974-360X.2022.00890 (<https://www.doi.org/10.52711/0974-360X.2022.00890>)

Views: 0 (pdf), 628 (html)

Access:  Closed Access

Cite: Manas Ranjan Sahoo, Marakanam Srinivasan Umashankar, Ramesh Raghava Varier. Development and Evaluation of Essential Oil-based Lozenges using Menthol and Eucalyptus and in vitro Evaluation of their Antimicrobial activity in S.aureus and E.coli. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5283-8. doi: 10.52711/0974-360X.2022.00890 (<https://www.doi.org/10.52711/0974-360X.2022.00890>)

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(AbstractView.aspx?
PID=2022-15-
11-75)

Impact of Antioxidant rich fractions isolated from moss Fissidens grandiflora on alcohol-induced oxidative stress (AbstractView.aspx?PID=2022-15-11-76)

Author(s): Madhavi Meka, Nalini Panatula, Siva Kumar Nemala, Srilakshmi Nallapaty, Sree Teja Koneru, Alekhya Ketha

DOI: 10.52711/0974-360X.2022.00891 (<https://www.doi.org/10.52711/0974-360X.2022.00891>)

Views: 0 (pdf), 362 (html)

Access:  Closed Access

Cite: Madhavi Meka, Nalini Panatula, Siva Kumar Nemala, Srilakshmi Nallapaty, Sree Teja Koneru, Alekhya Ketha. Impact of Antioxidant rich fractions isolated from moss Fissidens grandiflora on alcohol-induced oxidative stress. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5289-4. doi: 10.52711/0974-360X.2022.00891 (<https://www.doi.org/10.52711/0974-360X.2022.00891>)

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(AbstractView.aspx?
PID=2022-15-
11-76)

Preparation, Characterization and Pharmacological evaluation of Bauhinia variegata Lauha Bhasma (AbstractView.aspx?PID=2022-15-11-77)

Author(s): Rupali Ajesh Gulalkari

DOI: 10.52711/0974-360X.2022.00892 (<https://www.doi.org/10.52711/0974-360X.2022.00892>)

Views: 0 (pdf), 384 (html)

Access:  Closed Access

Cite: Rupali Ajesh Gulalkari. Preparation, Characterization and Pharmacological evaluation of Bauhinia variegata Lauha Bhasma. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5295-1. doi: 10.52711/0974-360X.2022.00892 (<https://www.doi.org/10.52711/0974-360X.2022.00892>)

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(AbstractView.aspx?
PID=2022-15-
11-77)

Development and Validation for the Simultaneous Estimation of Rilpivirine and Dolutegravir in Bulk and Pharmaceutical Dosage Forms by RP-HPLC Method (AbstractView.aspx?PID=2022-15-11-78)

Author(s): Sivagami B, Sharmil Kumar. L.M, Chandrasekar. R, Niranjana Babu. M

DOI: 10.52711/0974-360X.2022.00893 (<https://www.doi.org/10.52711/0974-360X.2022.00893>)

Views: 0 (pdf), 449 (html)

Access:  Closed Access

Cite: Sivagami B, Sharmil Kumar. L.M, Chandrasekar. R, Niranjana Babu. M. Development and Validation for the Simultaneous Estimation of Rilpivirine and Dolutegravir in Bulk and Pharmaceutical Dosage Forms by RP-HPLC Method. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5302-6. doi: 10.52711/0974-360X.2022.00893 (<https://www.doi.org/10.52711/0974-360X.2022.00893>)

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(AbstractView.aspx?
PID=2022-15-
11-78)

Evaluation of adaptogenic activity of Neurotip capsules by swimming endurance and chronic stress model (AbstractView.aspx?PID=2022-15-11-79)

Author(s): Ravindra Bhimraj Laware, Santosh Bhausahab Dighe, Braj Nandan Kishor

DOI: 10.52711/0974-360X.2022.00894 (<https://www.doi.org/10.52711/0974-360X.2022.00894>)

Views: 0 (pdf), 357 (html)

Access:  Closed Access

Cite: Ravindra Bhimraj Laware, Santosh Bhausahab Dighe, Braj Nandan Kishor. Evaluation of adaptogenic activity of Neurotip capsules by swimming endurance and chronic stress model. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5307-3. doi: 10.52711/0974-360X.2022.00894 (<https://www.doi.org/10.52711/0974-360X.2022.00894>)

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(AbstractView.aspx?
PID=2022-15-
11-79)

Bridging between disorder, prevalence, clinical manifestation and therapeutic management of muscular dystrophy (AbstractView.aspx?PID=2022-15-11-8)

Author(s): Nigama Chandra Sattenapalli, Ranjit Prasad Swain, Siva Naga Koteswara Rao Gudhanti

DOI: 10.52711/0974-360X.2022.00823 (<https://www.doi.org/10.52711/0974-360X.2022.00823>)

Views: 0 (pdf), 455 (html)

Access:  Closed Access

Cite: Nigama Chandra Sattenapalli, Ranjit Prasad Swain, Siva Naga Koteswara Rao Gudhanti. Bridging between disorder, prevalence, clinical manifestation and therapeutic management of muscular dystrophy. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4901-7. doi: 10.52711/0974-360X.2022.00823 (<https://www.doi.org/10.52711/0974-360X.2022.00823>)

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(AbstractView.aspx?
PID=2022-15-
11-8)

Green synthesis of Zirconia nanoparticles based on ginger root extract: Optimization of reaction conditions, application in dentistry (AbstractView.aspx?PID=2022-15-11-80)

Author(s): Thyagarajan R., Narendrakumar G., Rameshkumar V., Varshiney M.

DOI: 10.52711/0974-360X.2022.00895 (<https://www.doi.org/10.52711/0974-360X.2022.00895>)

Views: 0 (pdf), 374 (html)

Access:  Closed Access

Cite: Thyagarajan R., Narendrakumar G., Rameshkumar V., Varshiney M.. Green synthesis of Zirconia nanoparticles based on ginger root extract: Optimization of reaction conditions, application in dentistry. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5314-0. doi: 10.52711/0974-360X.2022.00895 (<https://www.doi.org/10.52711/0974-360X.2022.00895>)

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(AbstractView.aspx?
PID=2022-15-
11-80)

Clinical utility of benzodiazepine in the management of alcohol withdrawal syndrome in a tertiary care teaching hospital (AbstractView.aspx?PID=2022-15-11-81)

Author(s): Kadeeja Vadakkan. Rajesh KS, Smitha Tarachandra, Bharath Raj KC, Himanshu Joshi

DOI: 10.52711/0974-360X.2022.00896 (<https://www.doi.org/10.52711/0974-360X.2022.00896>)

Views: 0 (pdf), 382 (html)

Access:  Closed Access

Cite: Kadeeja Vadakkan. Rajesh KS, Smitha Tarachandra, Bharath Raj KC, Himanshu Joshi. Clinical utility of benzodiazepine in the management of alcohol withdrawal syndrome in a tertiary care teaching hospital. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5321-6. doi: 10.52711/0974-360X.2022.00896 (<https://www.doi.org/10.52711/0974-360X.2022.00896>)

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(AbstractView.aspx?
PID=2022-15-
11-81)

Neurotrophic Factors as Antiapoptotic Agents – A Review (AbstractView.aspx?PID=2022-15-11-82)

Author(s): *Abhishek Bharti, Payal Mittal, Kundan Singh Bora*

DOI: 10.52711/0974-360X.2022.00897 (<https://www.doi.org/10.52711/0974-360X.2022.00897>)

Views: 0 (pdf), 454 (html)

Access:  Closed Access

Cite: *Abhishek Bharti, Payal Mittal, Kundan Singh Bora. Neurotrophic Factors as Antiapoptotic Agents – A Review. Research Journal of Pharmacy and Technology. 2022; 15(11):5327-0. doi: 10.52711/0974-360X.2022.00897 (<https://www.doi.org/10.52711/0974-360X.2022.00897>)*

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(AbstractView.aspx?
PID=2022-15-
11-82)

A Synthesis and Review of Ethnomedicinal Uses, Phytochemistry and Biological Activities of *Paropsia brazzeana* Baill. (Passifloraceae) (AbstractView.aspx?PID=2022-15-11-83)

Author(s): *Alfred Maroyi*

DOI: 10.52711/0974-360X.2022.00898 (<https://www.doi.org/10.52711/0974-360X.2022.00898>)

Views: 0 (pdf), 408 (html)

Access:  Closed Access

Cite: *Alfred Maroyi. A Synthesis and Review of Ethnomedicinal Uses, Phytochemistry and Biological Activities of *Paropsia brazzeana* Baill. (Passifloraceae). Research Journal of Pharmacy and Technology. 2022; 15(11):5331-6. doi: 10.52711/0974-360X.2022.00898 (<https://www.doi.org/10.52711/0974-360X.2022.00898>)*

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(AbstractView.aspx?
PID=2022-15-
11-83)

Method of Starch Acetylation and Use of Acetylated Starch as Polymer in Pharmaceutical Formulations (AbstractView.aspx?PID=2022-15-11-84)

Author(s): Vidyadevi T. Bhoyar, Veena S. Belgamwar, Sagar S. Trivedi

DOI: 10.52711/0974-360X.2022.00899 (<https://www.doi.org/10.52711/0974-360X.2022.00899>)

Views: 0 (pdf), 485 (html)

Access:  Closed Access

Cite: Vidyadevi T. Bhoyar, Veena S. Belgamwar, Sagar S. Trivedi. Method of Starch Acetylation and Use of Acetylated Starch as Polymer in Pharmaceutical Formulations. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5337-3. doi: 10.52711/0974-360X.2022.00899 (<https://www.doi.org/10.52711/0974-360X.2022.00899>)

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(AbstractView.aspx?
PID=2022-15-
11-84)

Anti-Post-Traumatic stress Potential of Strawberry (Fragaria) and Carissa carandas Leaves: A Review (AbstractView.aspx?PID=2022-15-11-85)

Author(s): Jaymala Arun Kumawat, Birendra Shrivastava, Vaishali M. Mute

DOI: 10.52711/0974-360X.2022.00900 (<https://www.doi.org/10.52711/0974-360X.2022.00900>)

Views: 0 (pdf), 396 (html)

Access:  Closed Access

Cite: Jaymala Arun Kumawat, Birendra Shrivastava, Vaishali M. Mute. Anti-Post-Traumatic stress Potential of Strawberry (Fragaria) and Carissa carandas Leaves: A Review. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5344-8. doi: 10.52711/0974-360X.2022.00900 (<https://www.doi.org/10.52711/0974-360X.2022.00900>)

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(AbstractView.aspx?
PID=2022-15-
11-85)

Current concepts of Drug Therapy in Dentistry: A Review (AbstractView.aspx?PID=2022-15-11-86)

Author(s): Ravi Gupta, Soumyadev Satpathy, Hemanth Kumar, Vignesh Kamath, Lakshmi Pandey, Rashi Dubey

DOI: 10.52711/0974-360X.2022.00901 (<https://www.doi.org/10.52711/0974-360X.2022.00901>)

Views: 0 (pdf), 466 (html)

Access:  Closed Access

Cite: Ravi Gupta, Soumyadev Satpathy, Hemanth Kumar, Vignesh Kamath, Lakshmi Pandey, Rashi Dubey. Current concepts of Drug Therapy in Dentistry: A Review. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5349-2. doi: 10.52711/0974-360X.2022.00901 (<https://www.doi.org/10.52711/0974-360X.2022.00901>)

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(AbstractView.aspx?
PID=2022-15-
11-86)

Potential of Curcumin-Quercetin Loaded Nanostructured Lipid Carriers as Oral Squamous Cell Carcinoma Adjuvant Therapy by Downregulating AKT/PI3K Signaling Pathway (AbstractView.aspx?PID=2022-15-11-87)

Author(s): Alexander Patera Nugraha, Diona Olivia Yudianto, Amelia Aisyiah Anwar, Alqomariyah Eka Purnamasari, Rifqah Ananda Mappananrang, Nastiti Faradilla, Ramadhani, Muhammad Luthfi, Tengku Natasha Eleena Binti Tengku Ahmad Noor, Albertus Putera Nugraha, Andreas Pratama Nugraha

DOI: 10.52711/0974-360X.2022.00902 (<https://www.doi.org/10.52711/0974-360X.2022.00902>)

Views: 0 (pdf), 523 (html)

Access:  Closed Access

Cite: Alexander Patera Nugraha, Diona Olivia Yudianto, Amelia Aisyiah Anwar, Alqomariyah Eka Purnamasari, Rifqah Ananda Mappananrang, Nastiti Faradilla, Ramadhani, Muhammad Luthfi, Tengku Natasha Eleena Binti Tengku Ahmad Noor, Albertus Putera Nugraha, Andreas Pratama Nugraha. Potential of Curcumin-Quercetin Loaded Nanostructured Lipid Carriers as Oral Squamous Cell Carcinoma Adjuvant Therapy by Downregulating AKT/PI3K Signaling Pathway. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5353-8. doi: 10.52711/0974-360X.2022.00902 (<https://www.doi.org/10.52711/0974-360X.2022.00902>)

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(AbstractView.aspx?
PID=2022-15-
11-87)

Phytoremediation Techniques (AbstractView.aspx?PID=2022-15-11-88)

Author(s): Preeti Sinha

DOI: 10.52711/0974-360X.2022.00903 (<https://www.doi.org/10.52711/0974-360X.2022.00903>)

Views: 0 (pdf), 591 (html)

Access:  Closed Access

Cite: Preeti Sinha. *Phytoremediation Techniques*. *Research Journal of Pharmacy and Technology*.2022; 15(11):5359-2. doi: 10.52711/0974-360X.2022.00903 (<https://www.doi.org/10.52711/0974-360X.2022.00903>)

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(AbstractView.aspx?
PID=2022-15-
11-88)

Traditional uses and Phytochemistry of Cinnamomum Species – A Mini Review (AbstractView.aspx?PID=2022-15-11-89)

Author(s): Kavita Munjal, Vinod Gauttam, Sumeet Gupta, Apeksha Gupta, Lubna Abidin, Vikas Jhawar, Aayeena Altaf

DOI: 10.52711/0974-360X.2022.00904 (<https://www.doi.org/10.52711/0974-360X.2022.00904>)

Views: 0 (pdf), 538 (html)

Access:  Closed Access

Cite: Kavita Munjal, Vinod Gauttam, Sumeet Gupta, Apeksha Gupta, Lubna Abidin, Vikas Jhawar, Aayeena Altaf. *Traditional uses and Phytochemistry of Cinnamomum Species – A Mini Review*. *Research Journal of Pharmacy and Technology*.2022; 15(11):5363-7. doi: 10.52711/0974-360X.2022.00904 (<https://www.doi.org/10.52711/0974-360X.2022.00904>)

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(AbstractView.aspx?
PID=2022-15-
11-89)

Exploration of antifungal potential of extracts of leaves of *Ocimum gratissimum* against *Microsporum gypseum* (AbstractView.aspx?PID=2022-15-11-9)

Author(s): Puneet Sudan, Monika Sharma

DOI: 10.52711/0974-360X.2022.00824 (<https://www.doi.org/10.52711/0974-360X.2022.00824>)

Views: 0 (pdf), 485 (html)

Access:  Closed Access

Cite: Puneet Sudan, Monika Sharma. Exploration of antifungal potential of extracts of leaves of *Ocimum gratissimum* against *Microsporum gypseum*. *Research Journal of Pharmacy and Technology*. 2022; 15(11):4908-2. doi: 10.52711/0974-360X.2022.00824 (<https://www.doi.org/10.52711/0974-360X.2022.00824>)

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(AbstractView.aspx?

PID=2022-15-

11-9)

Preventive Cardiology: Ayurveda View (AbstractView.aspx?PID=2022-15-11-90)

Author(s): Abhijit Dinkarro Shekhar, Gunvant H Yeola, Prasad N Kulkarni, Prashant Khade, Pranesh Gaikwad

DOI: 10.52711/0974-360X.2022.00905 (<https://www.doi.org/10.52711/0974-360X.2022.00905>)

Views: 0 (pdf), 471 (html)

Access:  Closed Access

Cite: Abhijit Dinkarro Shekhar, Gunvant H Yeola, Prasad N Kulkarni, Prashant Khade, Pranesh Gaikwad. Preventive Cardiology: Ayurveda View. *Research Journal of Pharmacy and Technology*. 2022; 15(11):5368-2. doi: 10.52711/0974-360X.2022.00905 (<https://www.doi.org/10.52711/0974-360X.2022.00905>)

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(AbstractView.aspx?

PID=2022-15-

11-90)

RESEARCH ARTICLE

Chlorogenic Acid Fractionation in Robusta Green Bean Extract as a Combination Agent of Dental Pulp Stem Cells in Periodontal Tissue Engineering

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ABSTRACT:

Background: Robusta coffee beans contain very high chlorogenic acid. In the last decade, chlorogenic acid was developed as an adjunct in stem cells to enhance the anti-inflammatory and antioxidant properties of stem cells when used as a therapeutic agent. Chlorogenic acid can increase proliferation and migration and inhibit the production of pro-inflammatory cytokines in stem cells thereby increasing the ability of stem cells to regenerate tissue. **Purpose:** To analyze the levels of chlorogenic acid in robusta coffee bean extract which can be used as a combination agent for Dental Pulp Stem Cells (DPSC) in periodontal tissue engineering therapy. **Materials and Methods:** Robusta coffee bean extract was obtained from the Coffee and Cocoa Research Center, Jember Regency which was processed and processed using the fractionation method. This study used DPSC with the extraction of premolar teeth of orthodontic patients. The toxicity test was performed on the coffee extract 0.0625%; 0.125%; 0.25%; 0.5% to determine the biocompatible concentration of DPSC. **Results:** The highest fractionation and measurement of chlorogenic acid content obtained was 30.49%. Robusta coffee bean extract with a chlorogenic acid content of 30.49% at concentrations of 0.125% and 0.0625% did not cause toxicity to DPSC. **Conclusion:** Chlorogenic acid in robusta coffee bean extract concentrations of 0.125% and 0.0625% are relatively biocompatible as a combination agent for DPSC in periodontal tissue engineering therapy.

KEYWORDS: Robusta coffee beans, DPSC, Periodontal engineering, Periodontitis, Regeneration.

INTRODUCTION:

Robusta coffee beans contain several anti-inflammatory and antioxidant compounds whose benefits have been widely studied, including caffeine, caffeic acid, chlorogenic acid, and trigonelline. These chemical components are a good source of anti-inflammatory and antioxidants for the body.¹ However, of these compounds, chlorogenic acid is the highest content of polyphenolic compounds in coffee beans compared to other compounds.²⁻⁴

Chlorogenic acid is well known for its various biological properties such as anti-inflammatory, antioxidant, antimicrobial, antifungal, and antiviral activities.^{5,6} In addition, several studies have revealed that chlorogenic acid is an effective anti-inflammatory, antipyretic, and analgesic agent in both in vitro and in vivo experiments.⁷⁻¹⁰ The highest content of chlorogenic acid can be found in robusta coffee beans, which is 6.1-11.3%. This amount is the largest content compared to other coffee beans.³

In addition to the high anti-inflammatory content in robusta coffee beans, robusta coffee is the main and largest commodity in Indonesia. The production and export value of Indonesia's robusta coffee globally ranks second after Vietnam. High exports in several countries

make coffee a relatively large foreign exchange contributor. Its availability is very abundant in Indonesia, making this type of coffee easy to obtain.¹¹ However, its use in the medical field is still not known.

Several researchers have proven the potential of chlorogenic acid as an additive in stem cells to increase the anti-inflammatory and antioxidant power of stem cells when used as a therapeutic agent. One of them is chlorogenic acid which can increase proliferation and migration and inhibit the production of pro-inflammatory cytokines in stem cells, thereby increasing the ability of stem cells to regenerate tissue.^{9,12,13}

In the periodontal field, stem cells are used as materials for tissue engineering therapy. In vivo studies reported that Dental Pulp Stem Cells (DPSC) have the potential to repair periodontal bone defects by providing optimal results of bone repair, cementum formation, and periodontal ligament around the bone defect. DPSC is reported to be effective in increasing bone regeneration in the treatment of socket preservation and intrabony defects.^{14,15} However, the presence of bacterial toxins, especially LPS *P. gingivalis* in the periodontal tissue can affect the success of DPSC in regenerating periodontal tissue. Several studies reported that *P. gingivalis* LPS can stimulate the secretion of proinflammatory cytokines such as IL-1 β and TNF- α in excess, thereby inhibiting the proliferation and differentiation of osteogenic stem cells. This has an impact on delaying treatment success.^{16,17}

Besides the advantages of stem cells as a regenerative therapy for periodontal tissue, this therapy must also be able to control the possibility of inflammation that occurs and prevent disease progression. Because basically, stem cell therapy will be used in patients with periodontitis, which is a chronic inflammatory disease. Therefore, the administration of chlorogenic acid to increase the anti-inflammatory and antioxidant power of DPSC needs to be explored further so that it can increase the success of periodontal regeneration treatment.^{18,19}

The utilization of robusta coffee bean extract to increase the anti-inflammatory and antioxidant power of DPSC itself is still not well understood until now. Therefore, this study aims to analyze the optimal levels of chlorogenic acid and the concentration of robusta coffee bean extract to be used as a combination of stem cells in periodontal tissue engineering therapy.

MATERIALS AND METHODS:

Materials:

Robusta coffee bean extract was obtained from the Coffee and Cocoa Research Center, Jember Regency

which was processed and processed using the fractionation method so that it had a chlorogenic acid content of 30.49%. The processed coffee bean extract was then made at a concentration of 0.5%; 0.25%; 0.125%; 0.0625%. Dental pulp stem cells (DPSCs) were obtained from the pulp of the 1st or 2nd premolars that were extracted due to indications for orthodontic treatment. The criteria for teeth that can be used are healthy teeth, no caries, and perfectly closed tooth roots in young patient donors aged between 19-29 years, healthy, free from infectious and infectious diseases.

Extraction and Isolation of Chlorogenic Acid in Robusta Coffee Beans:

Extraction and isolation of chlorogenic acid were carried out using the fractionation method. Fractionation was carried out using the elution liquid in a suitable TLC as the mobile phase and silica gel as the stationary phase. A total of 10 mg of robusta coffee bean extract was put into a glass column that already contained silica gel. The elution liquid was added in a gradient using n-hexane : ethyl acetate (10:1 - 1:1) followed by chloroform : methanol (5:1 - 1:1) and allowed to flow through the column. The presence of compounds in these fractions was detected by TLC, fractions having the same pattern were then combined into one so that fractions with almost the same properties were obtained.

Analysis of Chlorogenic Acid Levels in Robusta Coffee Bean Extract:

Analysis of chlorogenic acid levels using the Thin Layer Chromatography (TLC) method. TLC was carried out to determine the chromatogram pattern resulting from the fractionation process of chlorogenic acid compounds in the sample. Determination of chlorogenic acid levels in robusta coffee bean extract begins with making a standard curve with a range according to linearity. Furthermore, the sample solution was prepared by weighing a certain number of samples of robusta coffee bean extract as much as 3 replications then dissolved in methanol. Then the standard solution and sample were put in a vial and spotted on a Silica Gel 60 F254 TLC plate to be analyzed under analytical conditions (eluent composition, wavelength, and test concentration) according to the optimization results. The spots formed are scanned at the optimized wavelength. Then do the calculation of % w/w levels.

DPSC Culture and Isolation:

The pulp tissue was chopped and given 3 ml of collagenase type 1, then incubated in a 5% CO² incubator, at 37°C for 30 minutes. After incubation, 3 ml of 25% MEM solution was added and incubated again. The pulp and media were transferred to a 15 ml conical tube, then centrifuged at 3500 rpm for 5 minutes at 28°C. After being centrifuged, the supernatant was

discarded and the pellet was planted in a petri dish containing 3 ml of 25% MEM solution media. Incubate and observe cell growth periodically on day 3 and day 7 to ensure cells can grow and there is no contamination. If the cell culture is 80% confluent, the culture is harvested up to 2-3 times (passage). Cell culture used in the experiment was cell culture 4 times (passages).²⁰

DPSC characteristic analysis:

DPSC characteristics test includes identification of morphology and cell surface proteins. Morphological identification of DPSC was carried out using an inverted light microscope to confirm the shape of the stem cells used in the study. While the identification of cell surface proteins using flow cytometry with antibody markers CD105, CD90, CD45, CD34.

Robusta Coffee Bean Extract Toxicity Analysis on DPSC:

Cells were cultured on 96 well plates and incubated for 24 hours. After 24 hours, all well plates were given robusta coffee bean extract in various concentrations. Giving Robusta coffee bean extract each concentration of 0.5%; 0.25%; 0.125%; 0.0625% as much as 200 µl/well plate. Each well plate was incubated for 24, 48, and 72 hours. After incubation, 25 µl of MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-dibromodiphenyltetrazolium) was added to each well. Then incubated for 4 hours at 37°C. The color change was observed with Elisa Reader at a wavelength of 595 nm.²¹

RESULT:

Analysis of Chlorogenic Acid Levels in Robusta Coffee Bean Extract:

The results of the standard calculation of chlorogenic

acid obtained a calibration curve of chlorogenic acid levels with absorbance obtained with a linearity value of $R^2 = 0.9992$. The calibration curve is a graph that forms a straight line (linear) which states the relationship between the concentration of the working solution and the proportional response of the instrument used. Measurements at the lowest level of 15 µg/ml and the highest level of 90 µg/ml with each concentration were repeated 3 times to calculate the standard deviation. The results showed a concentration of 90 µg/ml was the peak of a linear calibration curve (Figure 1).

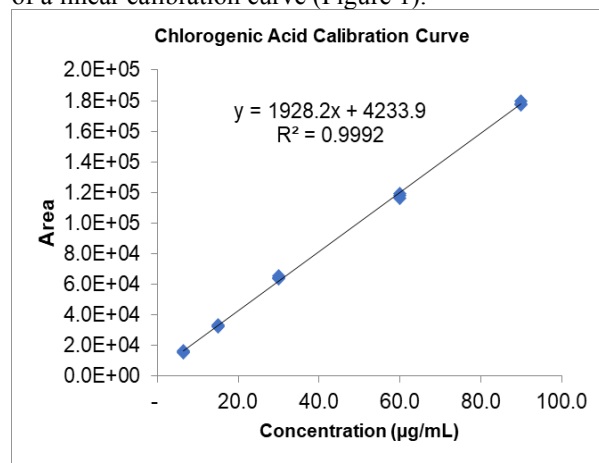


Figure 1. Chlorogenic acid calibration curve

Fractionation of chlorogenic acid levels in robusta coffee bean extract obtained the highest chlorogenic acid fraction content of 30.49%. This concentration is the largest concentration that has been obtained from 13.5 mg of robusta coffee bean extract. From the sample weight, the chlorogenic acid content of 4.1 mg of chlorogenic acid was calculated (Table 1, Figure 2).

Table 1. Table of recapitulation of chlorogenic acid sample calculations. Sample P2 can be fractionated with the highest chlorogenic acid content.

Sample	Sample weight (g)	Area	Measured concentration (µg/ml)	Dilution factor	Weirght (µg)	Calculated concentration (µg/g)	Level (%)
P1	0,0135	393.209,99	201,73	20	4.034,60	298.859,49	29,89
P2	0,0135	401.065,93	205,80	20	4.116,09	304.895,40	30,49
P3	0,0135	396.455,22	203,41	20	4.068,26	301.352,88	30,14
C1	0,0189	385.278,35	197,62	20	3.952,33	209.118,16	20,91
C2	0,0189	414.555,50	212,80	20	4.256,01	225.185,54	22,52
C3	0,0189	411.400,59	211,16	20	4.223,28	223.454,12	22,35
A1	0,0137	165.694,43	83,74	20	1.674,73	122.242,93	12,22
A2	0,0137	159.062,51	80,30	20	1.605,94	117.221,85	11,72
A3	0,0137	167.342,96	84,59	20	1.691,83	123.491,04	12,35

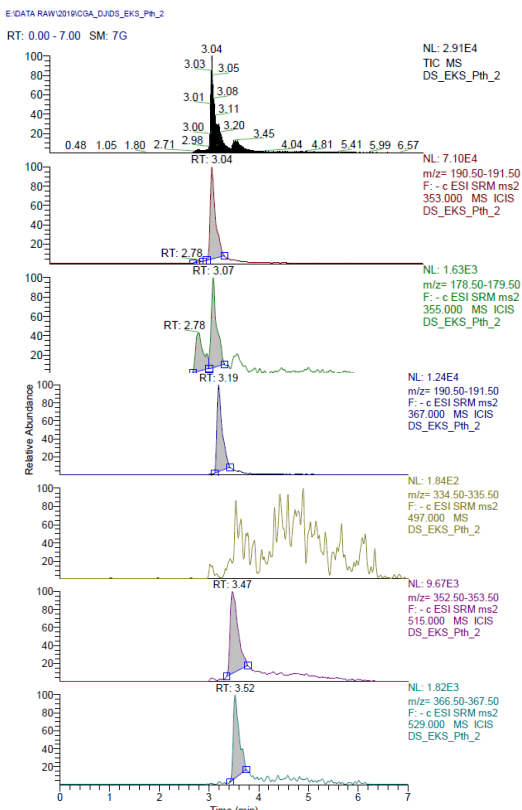


Figure 2. Chromatogram of sample P2 with a concentration of chlorogenic acid found at 30.49%

DPSC Characteristics Analysis

On observation, the morphology of DPSC was fusiform in shape with a tapered tip, a cell nucleus in the middle, and a large cytoplasm, which can be seen in Figure 3 below.



Figure 3. Morphology of DPSC (section 1). A fibroblast-like morphology appears, which is a fusiform shape with a tapered tip (blue arrow), a cell nucleus in the middle, and a large cytoplasm (red arrow). Observations under a microscope with a magnification of 100x.

Observation of DPSC surface expression markers was carried out using a flow cytometry (FCM) test to measure and analyze the surface characteristics of stem cells used in this study. The markers used as positive controls were CD90 and CD105 as markers of

mesenchymal stem cell lineage. Meanwhile, the markers used as negative controls were CD34 and CD45, which are markers of hematopoietic stem cell lineage. The FCM test on the DPSC of this study shows the results according to Figure 4 below.

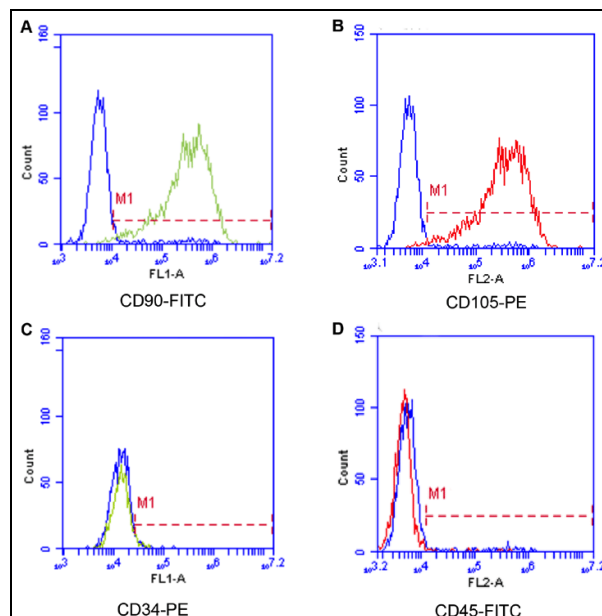


Figure 4. DPSC FCM test histogram graph. (A, B) DPSCs express the cell surface protein markers CD90 and CD105 which are shown in the green and red diagrams on the right side of the histogram. (C, D) While DPSC did not express the CD34 and CD45 cell surface protein markers which were indicated by the absence of green and red diagrams on the right side of the histogram.

Robusta Coffee Bean Extract Toxicity Analysis on DPSC:

The results of the toxicity test of robusta coffee bean extract at various concentrations on DPSC showed results as shown in Figure 5. Robusta coffee bean extract at concentrations of 0.5% and 0.25% caused toxicity to DPSC at 24, 48, and 72 hours of observation. This was indicated by the percentage of DPSC living cells <80% after the concentration was given. Meanwhile, robusta coffee bean extract concentrations of 0.125% and 0.0625% were not toxic to DPSC.

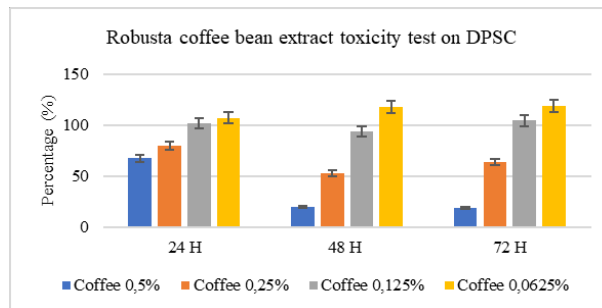


Figure 5. Graph of Robusta coffee bean extract toxicity test against DPSC. Concentrations that do not cause toxicity are 0.125% and 0.0625%.

DISCUSSION:

The chlorogenic acid content of robusta coffee bean extract in this study was 30.49%. This fractionation result is the highest concentration of chlorogenic acid that has been successfully fractionated. The most chlorogenic acid is contained in robusta coffee beans compared to other herbal sources. This content is mostly contained in robusta coffee beans without the roasting process.^{22,23} Farhaty's research (2016) states that the average chlorogenic acid content in robusta coffee beans is around 6.1-11.3%.³

Chlorogenic acid has biological properties such as anti-inflammatory, antioxidant, antimicrobial, antifungal, and antiviral activities.^{5,6} In addition, several studies have revealed that chlorogenic acid is an effective anti-inflammatory, antipyretic, and analgesic agent in both in vitro and in vivo experiments.⁷⁻¹⁰ The utilization of chlorogenic acid in stem cells as an agent to increase the anti-inflammatory potential of cells is currently the focus of researchers to develop the success rate of stem cell treatments. In addition, the application of chlorogenic acid to stem cells aims to increase cell proliferation and regeneration, so that cells are susceptible to premature aging. However, the use of chlorogenic acid in periodontal tissue engineering therapy using DPSC still requires further research.

Based on observations of morphological characteristics carried out in this study, it was confirmed that DPSCs are fusiform in shape with a tapered tip, a cell nucleus in the middle, and a large cytoplasm, which is often referred to as a fibroblast-like spindle formation. These results are following the previous theory, which confirmed that DPSCs, which are mesenchymal stem cells, have a morphology similar to fibroblast cells.²⁴⁻²⁶ In this study, DPSCs can also grow and attach to plastic substrates and can colonize. These results are in line with the research of Martens et al. (2010) who investigated the characteristics and surface expression of DPSC in vitro. His research explains that in the first 24 hours of culture, cells are able to grow and migrate out of the cultured pulp tissue and will stick to the bottom of the plastic media container which will then form colonies.²⁷

Observation of other characteristics by analyzing DPSC surface expression markers was performed using flow cytometry (FCM) test. The results of the FCM test showed the expression of CD90 and CD105, while CD34 and CD45 were not expressed. CD90 and CD105 specific antibodies are markers of mesenchymal stem cell lineage. While the specific antibodies CD34 and CD45 are markers of hematopoietic stem cell lineage. The results of this study are following pre-existing theories.^{24,25,28} Martens et al. (2010) in their research in

vitro also showed the same results.²⁷

A cell has the criteria for mesenchymal stem cells if it has the following criteria: Able to stick to plastic medium containers when cultured, Expressing CD105, CD90, CD73 and CD44, and lacking expression of CD45, CD34, CD14 or CD11b, CD79 or CD19 and HLA-DR, Can differentiate into osteoblasts, adipocytes, and chondroblasts in vitro²⁹. Although this study did not test the ability of cells to differentiate into osteoblasts, adipocytes, or chondroblasts, the other two criteria for mesenchymal stem cells were met.

Toxicity test of robusta coffee bean extract against DPSC showed that 30.49% robusta coffee bean extract at a concentration of 0.125% and 0.0625% was not toxic to DPSC, with the percentage of DPSC living cells >80%. Meanwhile, robusta coffee bean extract concentrations of 0.5% and 0.25% caused toxicity to DPSC. The cytotoxicity level of each concentration of antibacterial agent was calculated as a percentage of cell viability including absorbance values obtained for each treatment. Based on ISO 10993-5, there are cytotoxicity criteria in the viability test, including: The percentage of cell viability > 80% is considered as non-cytotoxic; The percentage of cell viability 80%-60% is considered as weak cytotoxicity; Cell viability percentage 60%-40% is considered as moderate cytotoxicity; The percentage of cell viability < 40% is considered as strong cytotoxicity.³⁰

CONCLUSION:

Robusta coffee bean extract with a chlorogenic acid content of 30.49% at concentrations of 0.125% and 0.0625% did not cause toxicity to DPSC. This concentration is relatively safe to be used as a stem cell combination in periodontal tissue engineering to increase the anti-inflammatory and antioxidant power of stem cells.

CONFLICT OF INTEREST:

The authors have no conflicts of interest regarding this investigation.

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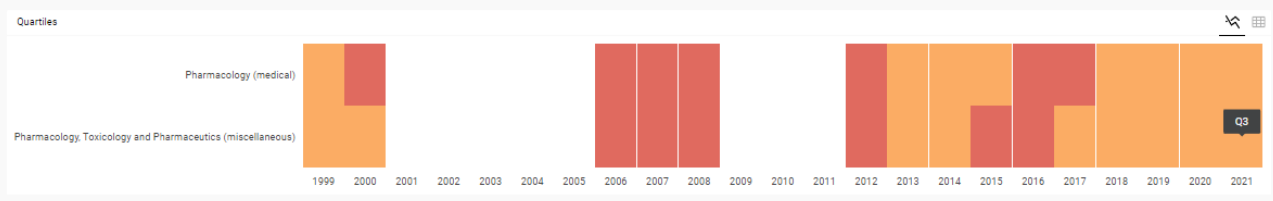
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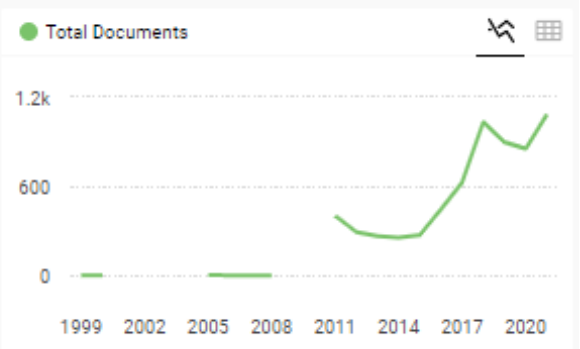
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