

(A UNIT OF CATECHIST SISTERS OF ST.ANN'S, HYD)

ATMAKURU (Village), Mangalagiri (M), Guntur Dist-522503, A.P, India.

Approved by AICTE & PCI New Delhi & Govt. of A.P, Affiliated to SBTET& A.N University, Guntur Accredited by NAAC & Approved under UGC 2f & 12b and Approved Institutional Innovation Council by AICTE

Ph: 08645-236255, 236722, 9912342142 E-mail: ncpa@csagp@yahoo.co.in Web site: www.ncpacsag.ac.in

3.5.1The number of MOUs, collaborations / linkages for Faculty exchange, Student exchange, Internship, Field trip, on-the-job training, research and other academic activities during the year

<u>2021–2022</u>

LIST OF MOU'S / COLLABORATIVE ACTIVITIES FOR ACADEMIC YEAR 2021-2022

S.NO	NAME OF THE ORGANISATION	Year of MOU
1.	SEEKO BIOTICS	2021-2022
2.	MANIPAL HOSPITAL	Initial: 2011-2012 Renewed Date:2021-2022
3.	CAVAXIA- CLINICAL RESEARCH ACADEMY, VIJAYAWADA	2021-2022
4.	AVENIDA INNOVATIONS	2021-2022
5.	KALINGA UNIVERSITY, RAIPUR	2021-2022
6.	JOURNAL OF CARDIOVASCULAR DISEASE AND RESEARCH	2021-2022





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1. SEEKO BIOTICS







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expression shall expressly include its legally constituted signatories, assigns, successors and officers duly authorized to execute such agreement of the Second Party through **Sri.** (Jayarami Reddy, Chairman & Managing Director (CMD), who is duly authorized to represent the Organization.

Whereas, both the organizations are desire to impart Student Knowledge enhancement Programme through the arrangements of:

- Industrial Visit/Field Visit, Entrepreneurship programmes, Organizing Collaborative Conferences, Seminars, Workshops, research work.
- To strengthen the practical and theoretical exposure of B.Pharmacy, M.Pharmacy, Diploma Pharmacy, Pharm D students and Research scholars.
- Second Party will be provided the gift sample of API's to carry out the regular research, related experiments of pharmacy courses of First Party.
- The students of Nirmala College of Pharmacy, Guntur, Andhra Pradesh will be allowed to participate in the various campus interviews of Seeko Biotics.

AGREED, ACCEPTED AND EXECUTED AT 21st March, 2022(Monday).

This agreement shall be in effect for three years from the date of signature and automatically extended for the same period if written intent of termination by either party is not presented six months prior to the date of expiration.

Secretary & Correspondent Nirmala College of Pharmacy

In Presence of

Nirmala College of Pharmacy

Principal & Professor

PRINCIPAL
NIRMALA COLLEGE OF PHARMACY
ATMAKUR VILLAGE,
MANGALAGIRI, GUNTUR Dt., A.P.

Seeko Biotics

Sri Jayarami Reddy, Director Seeko Biotics

#14-309/A,KRISHNANAGAR-522502 Tadepalli (M), Guntur Dist.,A.P.

Witness:

Dr.B. Pamula Reddy

Professor & Head

Department of Pharmaceutics Nirmala College of Pharmacy Atmakur, Mangalagiri, Guntur.

NIRMALA COLLEGE OF PHARMACY ATMAKURU VILLAGE

MANGALAGIRI, Guntur Dt., A.P





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Collaborative Work carried out:

Conducted Industrial Visit to the outgoing batch B.Pharm and M.Pharm - Pharmaceutics students on 21/03/2022. A total number of 87 students are participated and they aquired the knowledge on Manufacturing of Tablets, Parenterals.









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MOU exchange between Seeko Biotics and Nirmala College of Pharmacy







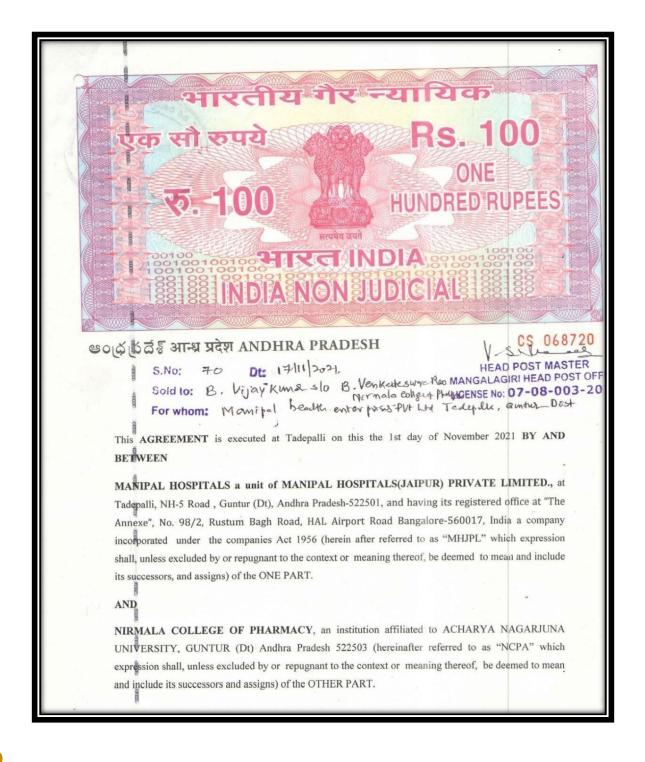
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2. MANIPAL HOSPITALS, TADEPALLI, ANDHRA PRADESH









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In this agreement wherever the context so requires MHJPL and NCPA shall be collectively referred to as the "Parties" and individually as "Party".

WHEREAS.

- 1. MHJPL inter-alia, is in the business of providing health care services and has a 300 bedded hospital
- 2. NCPA is interested in availing a minimum space of 1200 sq ft at MHJPL for training their Pharm D students
- 3. The parties have held discussions in regard to working together and have decided to reduce their agreement for the same in writing

NOW THEREFORE, THIS AGREEMENT WIPNESSETH AND THE PARTIES HEREBY AGREE AS FOLLOWS:-

- 1. Scope of Agreement
- a) MHJPL aggress to provide 1200 sq ft space and preceptors required to train NCPA Pharm D students
- b) MHJPL shall permit NCPA students to undergo training in the specialty departments
 - > Medicine
 - Surgery
 - > Pediatrics
 - Gynecology and obstetrics
 - Skin and VD
 - Orthopedics
- c) NCPA shall provide the academic staff and necessary infrastructure for Pharm D course as per the PCI norms and takes the overall responsibility for smooth conduct of the programs
- 2. Scope of NCPA students& Interns

They have to carry out monthly drug audits with monthly defined sample size and submit by 26th of every

- a) Patient counseling on drug usage
- b) In-Patient Drug audits (Prescription, Transcription, Dispensing, Administration, Documentation errors audit)





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- c) Outpatient Prescription audits
- d) Identification and documentation of Adverse drug reaction in ADR forms
- e) Explaining patients about Food drug interactions.

3. Term

The term of this agreement shall be for a period of 10 [TEN] years effective from 27 Sep 2021. However, either Party may elect to terminate this Agreement by giving 45[forty five] days written notice to the other parties without assigning any reason what so ever. However these being an academic programme the termination clause will be in accordance with the terms / semester ending of the Pharm D programme

4. Payment

In consideration of MHJPL agreeing to provide services under this agreement, NCPA shall pay to MHJPL a fixed fee of Rs. 3,00,000/- (Rupess Two Lakhs only) per year.

5. Representations of MHJPL

a. MHJPL here by, represents and warrants to the following:-

MHJPL is a company, duly formed and validly existing under the law and is qualified to do business, and to undertake the obligation under this agreement.

6. Representations of NCPA

- a.) NCPA is an institution duly formed and validly existing under the Law and is qualified to do business, and has obtained all approvals required for it to enter into this Agreement
- b.) NCPA is in compliance with all Laws and that there is no pending or threatened event that NCPA is aware of which event can adversely affect the ability of NCPA
- c.) NCPA undertakes to comply with all the necessary Laws as are in force relating to the provision of services under this agreement
- d.) NCPA shall adhere to the protocols and other instructions as provided by MHJPL towards provision of the services
- e.) NCPA aggress and undertakes to refreein from using any trademarks, logo or signage of MHJPL, and / or its intellectual property in any manner without the prior written consent of MHJPL





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7. GENERAL COVENANTS:

- a.) The relationship between the parties is independent and is honor Principal to Principal basis. Nothing in this agreement shall be interpreted or construed as constituting, expressly or by implication, an employer employee relationship between the parties here to. Further, none of the provisions of this agreement shall be deemed to constitute a partnership or agency between the parties hereto and neither shall have any authority to bind the other or shall be deemed to have any authority of the other otherwise than as strictly provided under this agreement.
- b.) The parties agree that all details, information, documents, designs, data, applications, papers, included trade secrets, business methods, business processes, business techniques, marketing plans, business plans and ideas (herein after referred to as "confidential information" which may be communicated or disclosed by one party to the other party shall be received and held by the other party on a strictly confidential basis, and shall not be disclosed to any person or business entity whatsoever. The confidentiality obligations as contained in this clause shall survive the termination of this agreement
- c.) The parties also agree not to disclose any information (except for complying with any statutory requirement or any governmental/judicial process) pertaining to the transaction as contemplated in this agreement including identity of the parties without the prior written consent to the other party
- d.) If for any reason any part or provision of this agreement is held by a court of competent jurisdictions to be void, invalid, illegal or unenforceable because it is invalid or in conflict with any law of any relevant jurisdiction, its invalidity shall not affect the validity and effect of the other provisions of this agreement, unless such provision that has become invalid or unenforceable is inseparable from the other parts of the agreement and the rights and obligations of the parties shall be construed and enforced as if this agreement did not contain the particular provisions held to be invalid and unenforceable and the invalid and unenforceable provision(s) shall be replaced by mutually acceptable provision(s) which, being valid, legal and enforceable, comes closest to the intentions of the parties underlying the invalid or unenforceable provision.
- e.) Each party undertakes to indemnify and keep the other party fully indemnified against any loss(es), damage(s), liability(ies), suit(s), proceedings(s), action(s), cost(s) etc. incurred / suffered /instituted as a result of noncompliance with the covenants, undertakings and representations made herein or as a result of any act of omission / commission or negligence on its part and / or on the part of its servants, agents, employees etc. or as a consequence of third party claims or legal dues of any nature. This clause shall survive the termination of this agreement.





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- f.) Neither party shall be liable to the other party upon termination for loss or prospective profits on anticipated sales, for any consequential, indirected or exemplary damages arising thereof
- g.) It is being agreed and understood that MHJPL shall not be responsible for death, injury or accidents to NCPA's students, employees, which may arise out of or in the course their duties within MHJPL and or outside the location
- h.) NCPA shall ensure that its employees and students on the location shall carry and display at all times appropriate identification showing that they are the employees or students of NCPA
- i.) Each party aggress that it shall not release any statements, information, advertisement in connection with or relating to this agreement, the transactions contemplated hereunder unless the prior written consent of the other party has been obtained. In no event shall either party use the trademark, trade name, logo, or other intellectual property right of the other party unless authorized in writing
- j.) Any provision of this agreement or a right or obligation created under this agreement may not be waived except in writing signed by the party granting the waiver, or varied except in writing signed by the parties. Further, any delay or indulgence by any party in enforcing the terms of this agreement or any forbearance to the other party shall not be considered as waiver by the first mentioned party of any breach of or non-compliance with any of the terms and conditions of this agreement by the other party nor shall the same in any manner prejudice the rights of the first mentioned parties hereunder.
- k.) The parties confirm and acknowledge that this agreement constitutes the entire agreement between them with respect to the subject matter hereof supersedes and over rights all previous communications, either oral or written, between the parties with respect to the subject matter of this agreement and no agreement or understanding varying or extending the same shall be binding upon any party unless it is arising out of the specific provisions of this agreement and is in writing signed by both the parties.
- l.) Any notice, request, demand, instruction or other communications to be given by any party in writing shall be effective upon delivery during regular business hours at the offices of the other party and which are herein after set forth. Such communications shall be given by facsimile, commercial delivery service or sent by certified mail, postage prepaid and returned receipt requested, as follows:





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To MHJPL

To NCPA

The Courts in Guntur District will have exclusive jurisdictions in respect of any proceedings arising under this Agreement.

IN WITNESS WHEREOF, the parties have caused this agreement to be executed the day and the year first hereinabove written.

For and on behalf of MHJPL

Authorized Signatory Authorized Signatory

Dr. SUDHAKAR KANTIPUDI MBBS, MD (Hosp. Admin.), PG Dip(Medical Law) HOSPITAL DIRECTOR MANIPAL HOSPITALS TADEPALLI, GUNTUR-522 501. A.P. For and on behalf of NCPA

Secretary a Correspondent
NIRMALA COLLEGE OF PHARMACY
ATMAKUR VILLAGE - 522 503
Mangalagiri Mandal, Guntur Dist., A.R.





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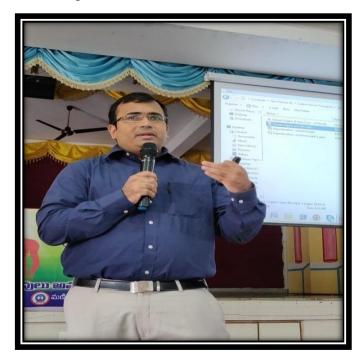
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Collaborative Activities:

MOU has been signed with **Manipal hospitals** to provide necessary facilities and preceptors to train the Pharm D students in various departments like Medicine, Surgery, Paediatrics, Gynaecology, Obstetrics, Orthopaedics, etc.,



"Awareness on Organ Donation" organized by our Nirmala College of Pharmacy in association with Manipal Hospitals, Vijayawada on 17th August, 2018. The same programme is conducted by Dr. K. Charan Tej, Medical Superintendent, Manipal Hospital, Tadepalli, Guntur (Dt), Andhra Pradesh.









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INSTITUTIONAL REVIEW BOARD APPROVED CLINICAL PROJECTS







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INSTITUTIONAL REVIEW BOARD

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In 4 see nation with

MANIPAL HOSPITALS

Tadepalli, Vijayawada

Approval No: PD010/IRB/NRM1/2018-2019

Date: 13-07-2018

CERTIFICATE

The Institutional Review Board Committee meeting held on 12 14 Dec 2

Has approved the thesis protocol titled "PREVALENCE AND IMPACT OF

PATIENT COUNSELLING IN MANAGEMENT OF DIABETES MELLITUS"

Of DOKKU. MOUNIKA, PUCHAKAYALA. KRISHNA SWETHA under the guidance of

Dr. Yuva Sri Sai Anumula of PHARMACY PRACTICE Department, Nirmala college of Pharmacy, for V/VI DOCTOR OF PHARMACY project to be conducted during 2018 to

2019 at Department of Pharmacy Practice.

President, IRB (Dr.K. Charan Tej) Vice President, IRB (Dr.SK.Abdul Rahaman) Member Secretary, (Dr. D. Subba Reddy)

MBBS, MD DNB P THE MEDICAL SUPERINTE Manipal Hospitals.

Tadepalli, Guntur District - 522:

Members:

I. Dr. S. Balaiah

2. Dr. P. Divya Jyothi

3. Dr.T.Vinay Kumar

4. Mr.Sk.Linkbat Ali





PRINCIPAL

NIRMALA COLLEGE OF PHARMACY

ATMAKUR VILLAGE,

MANGALAGIRI, GUNTUR Dt., A.P.

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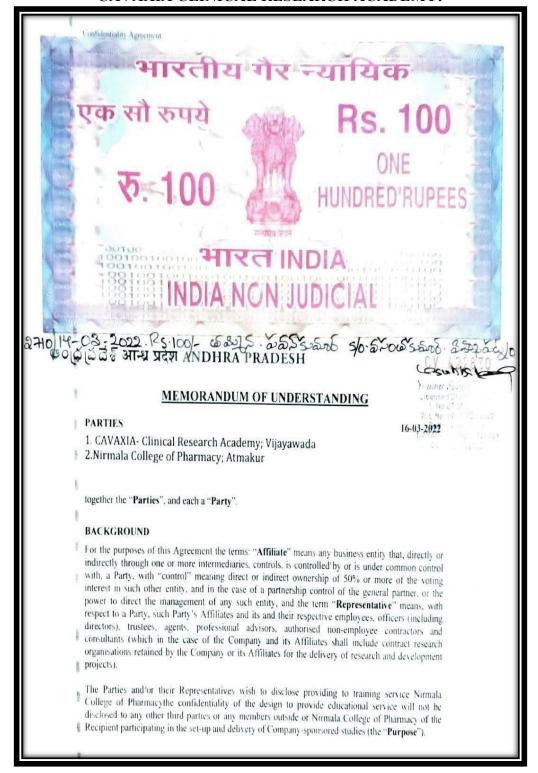
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CAVAXIA CLINICAL RESEARCH ACADEMY:







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Confidentiality Agreement

The Purpose of this is to form a mutual collaboration with Narasaraopet Institute of Pharmaceutical Sciencesfor the duration of five tenure years in between CAVAXIA & Nirmala College of Pharmacy to provide service of clinical research certifications.

Each Party wishes to ensure that the other Party maintains the confidentiality of the Confidential Information. In consideration of the benefits to the Parties of disclosing and receiving the Confidential Information, the Parties have agreed to comply with the following terms.

FEFECTIVE DATE

The effective date of this Agreement (16/Mar/2022) shall be the date on which the last (16/Mar/2024) of the Parties signs this Agreement.

AGREED TERMS

1. THE CONFIDENTIAL INFORMATION

- The Confidential Information includes all confidential information i.e Educational materials, trainees details, software details, mode of training platforms along with meeting links & passwords, Certification course details & Syllabus and client details or made available, directly or indirectly, in any form by a Party and/or its Representatives (the "Disclosing Party") to other Party (the "Recipient"), including but not limited to: (i) the fact that discussions are taking place concerning the Purpose and the status of those discussions; (ii) any confidential or proprietary information, data or opinions communicated by either Party, including any information relating to the Disclosing Party's and/or its Affiliates' business practices, plans or relationships, or any of its products, processes, operations or intellectual property (iii) information that relates to the Company; (iv) any information or analysis derived from the Confidential Information; (v) any other information or material that the Disclosing Party indicates is confidential.
- In consideration of the Disclosing Party disclosing or making its Confidential Information available to the Recipient, the Recipient shall keep the Confidential Information confidential at all times and maintain it securely. The Recipient shall not without the Disclosing Party's prior written consent: (i) use the Confidential Information in any way except for the Purpose; (ii) publish, make available or disclose any Confidential Information to any third party; (iii) copy the Disclosing Party's Confidential Information except as strictly necessary for the Purpose; or (iv) disclose that there is any relationship between the Parties.
- 1.3 The Recipient will notify the Disclosing Party immediately of any loss or compromise of the Confidential Information and shall cooperate with the Disclosing Party's reasonable instructions in order to minimise the consequences of the same.
- 1.4 The confidentiality obligations of each Party shall continue for a period of **two 2** years from the date of this Agreement, or until the Parties enter into a separate Agreement relating to the Purpose which addresses the use of the Confidential Information. Termination of this Agreement shall not affect any accrued rights or remedies.
- After completion of the Purpose, termination of this Agreement, or at the Disclosing Party's request, the Recipient shall cease all use of the Confidential Information. The Recipient shall promptly (i) return or, at the Disclosing Party's option, destroy all Confidential Information and all documents and materials containing any Confidential Information; (ii) use reasonable endeavours to erase all Confidential Information from its computer systems, provided that the Recipient may retain Confidential Information where it is required to do so by law or where necessary for the Recipient to demonstrate that it has performed its obligations under this Agreement. The terms of this Agreement shall continue to apply to any Confidential Information retained.

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Confidentiality Agreement

1.6 All Parties do hereby agree as under:

- The party A agrees to collaborate and support in organizational development, innovation, and incubator, start up, mentoring, industry partnership, internship, starting new healthcare
- The party A agrees to collaborate for conducting workshop/seminar/conference at least once in every year at the campus of party B.
- The party A agrees to provide training & Certification to the Pharmacy/Pharm D students of party B in the fields of:
 - Clinical Research Certification
 - Clinical Data Management Certification
 - Clinical Data Analytics
 - Pharmacovigilance Certification
 - Clinical SAS Programming
 - Training on Clinical Trial Systems
 - Clinical Trials Guidelines
 - Certified Clinical Research Coordinator
 - Certified Clinical Research Associate
 - Certified Clinical Research Professional
 - Career Abroad
 - Personality Development Skill Training including Mock Interviews
 - CAVAXIA Webinar Access.

EXCEPTIONS AND PERMITTED DISCLOSURES 2

- The confidentiality obligations set out in this Agreement shall not apply to information that is: (i) generally available to the public other than as a result of any breach of this 2.1 Agreement by the Recipient; (ii) obtained from a third party who had the full right to disclose it; (iii) lawfully in the Recipient's possession (with full rights to disclose) before disclosure under this Agreement; or (iv) developed independently by or for the Recipient without reference to the Confidential Information.
- The Recipient may disclose the Confidential Information to those of its Representatives who need to know such Confidential Information for the Purpose, provided that it (i) 2.2 informs those Representatives of the confidential nature of the Confidential Information before disclosure; (ii) ensures that all such Representatives maintain the confidentiality of all such Confidential Information in accordance with the provisions of this Agreement; and (iii) remains liable for any unauthorised disclosure of Confidential Information by any of its Representatives as if it had made such disclosure itself.
- The Recipient may disclose the Confidential Information to the extent required by law, by 2.3 any governmental or other regulatory authority or by a court or other authority of competent jurisdiction, provided always that: (i) to the extent it is legally permitted to do so, it gives the Disclosing Party as much notice of such disclosure as possible; and (ii) it complies with the Disclosing Party's reasonable directions for taking legally available steps to resist or narrow such requirement (at the Disclosing Party's reasonable expense),



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and in any event restricts the disclosure to only those parts of the Confidential Information lawfully required to be disclosed.

3. RIGHTS TO AND ACCURACY OF CONFIDENTIAL INFORMATION

- All rights, title and interest in and to the Confidential Information (including all intellectual property rights) shall remain the exclusive property of the Disclosing Party or its licensors. No rights in respect of the Confidential Information are granted to the Recipient other than those set out in this Agreement.
- The Disclosing Party does not give any representation or warranty concerning the Confidential Information, its accuracy or its completeness, and neither the Disclosing Party nor any of its Representatives accept any liability to the Recipient for the accuracy or completeness of any of the Confidential Information or for any opinions, errors, omissions or misstatements contained in the Confidential Information.

4. EDUCATIONAL SECTOR REPRESENTATIVES' ATTENDANCE AT MEETINGS

- Where any discussions between the Parties concerning the Purpose involve the attendance of health sector representatives (whether health care professionals or otherwise), the Parties shall ensure that any such meetings are conducted in accordance with all applicable laws and guidance and that all necessary approvals have been obtained from the organisations by which all attendees are employed or to which they are affiliated. In particular, the Parties agree that the attendees will not receive any compensation for attendance or participation in such meetings, although they may be provided with reasonable and modest expenses in respect of accommodation, meals and travel as permitted in accordance with applicable laws and guidance, and (where applicable) subject to the attendee's consent to such payments being publicly disclosed.
- 4.2 Attendees shall provide reasonable evidence for all expenses claimed. The Company will not reimburse expenses of individuals who do not attend the meetings or who are accompanying the attendees.
- 4.3 The Parties shall enter into separate agreements where any attendees or third parties are required to attend meetings other than for the Purpose, or to perform any services.
- The Parties agree that attendance at any meeting is not intended as an inducement to or in return for any attendee to recommend, prescribe, purchase, supply or order any of the Company's products.

5. GENERAL

- The Recipient acknowledges that damages alone would not be an adequate remedy for the breach of any of the terms of this agreement, and that without prejudice to any other rights and remedies it may have, the Disclosing Party is entitled to seek injunctive relief concerning any threatened or actual breach of any of the provisions of this agreement.
- Neither Party may assign, sub-license or otherwise transfer any or all of its rights or obligations under this Agreement without the prior written consent of the other Party save that the Company shall be entitled to assign, delegate, sublicense or otherwise transfer its rights and obligations under this Agreement to any Affiliate, any external service providers such as contract research organizations retained to assist the Company in delivering

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PRINCIPAL
NIRMALA COLLEGE OF PHARMACY
ATMAKUR VILLAGE,
MANGALAGIRI, GUNTUR Dt., A.P.

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ATMAKURU (Village), Mangalagiri (M), Guntur Dist-522503, A.P, India.

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research and development projects sponsored by the Company, and to any successor in research and or substantially all of the business to which this Agreement relates. The Company shall always have the right to perform any or all of its obligations and exercise any or all of its rights under this Agreement through any of its Affiliates.

- This Agreement constitutes the entire agreement between the Parties and supersedes all prior written or oral agreements or understandings with respect to the subject matter of this 5.3 Agreement.
- Any amendment or modification to this Agreement must be in writing and signed by 5.4 authorised representatives of each Party.
- This Agreement may be executed in two or more counterparts, each of which shall be deemed an original and all of which shall together be deemed to constitute one and the 5.5 same agreement. The Parties agree that execution of this Agreement by industry standard electronic signature software and/or by exchanging PDF signatures shall have the same legal force and effect as the exchange of original signatures, and that in any proceeding arising under or relating to this Agreement, each Party hereby waives any right to raise any defence or waiver based upon execution of this Agreement by means of such electronic signatures or maintenance of the executed agreement electronically.
- This Agreement does not address the law that governs disputes arising out of this 5.6 Agreement or the subject matter of this Agreement.

AGREED by the Parties on the dates indicated below

SIGNED for and on behalf of

CAVAXIA

Signature

Date: 16-03-2

Read and Acknowledged By:

Witness Signature

PRINCIPALO

NIRMALA COLLEGE OF PHARMACY ATMAKUR VILLAGE.

MANGALAGIRI, GUNTUR DI., A.P.

SIGNED for and on behalf of NIRMALA COLLEGE OF PHARMACY

Signature

Name: Mirmala Jyothi

Title: Secretary / correspondent

Date: 16 |3 | 2022
Secretary & Correspondent NIRMALA COLLEGE OF PHARMACY ATMAKUR VILLAGE - 522 503

Mangalagui Mandal, Guntur Dist., A.P.





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Collaborative Activities:

MOU has been signed with **CAVAXIA Clinical Research Academy**, Vijayawada to collaborate and support in Organizational development, Innovation, Incubator, Start-up, Mentoring, Industry Partnership, etc., CAVAXIA also provides training & Certifications to pharmacy/ Pharm D students in fields of Clinical Research, Clinical Data Management, Clinical Data Analytics, Pharmacovigilance, Clinical SAS, Clinical trail Guidelines, Training on Clinical Trail Systems, Career Abroad, Personality Development Skill Training etc.,







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3. AVENIDA INNOVATIONS





MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING (hereinafter referred to as the "MOU") is made and entered into as of -0.3--/--2---/2022 by and between;-

"AVENIDA INNOVATIONS", Address: SPS Vamsi Nivas, Plot no 4, KPHB colony Phase V, Hyderabad, contact Dr. Karthik Rakam 7569692853, Email: com/avenidapro.com, (henceforth referred to as the "Party A" and collectively as the "Parties").

AND

"Nirmala College of Pharmacy", Mangalagiri, Contact Dr. SK. Abdul Rahaman, Email: rahamanphd@gmail.com (henceforth referred to as the "Party "B" and collectively as the "Parties").

WHEREAS, in consideration of the mutual understandings contained therein and for other good and valuable consideration, the receipt and sufficiency of which hereby are acknowledged, it is mutually agreed between the Parties to this MOU, as follows:

BACKGROUND

Avenida Innovations is a global organization focused on establishing benchmarks of excellence in training for the **Pha**rmacy, healthcare and life sciences industries. With offices in the United States and India, Avenida offers excellent support to the individuals and companies who it serves. Avenida has highly experienced experts from health sector in its network and also a base of approximately 10000 pharma graduates, 100s of college and universities in direct contact as on date. There is always a need for quality, job ready pharmacy/ health care graduates and professionals for industry. There is a huge skill gap in pharmacy/healthcare graduates in the country.

AllParties hereby form themselves into this MOU for the benefits of each other in future and ultimately the wider population (hereinafter jointly referred to as the "Purpose") or for upcoming projects as both have a synergy in their space of work and engagements. The objective of this MOU is to





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bridge this skill gap through collaboration and partnership between both parties. Under this MOU All the parties shall complete projects on agreed conditions of this MOU which shall be followed during the course of this MOU.

ENGAGEMENT & SCOPE

This MOU contemplates the proposed engagement of the Parties. All Parties accept such engagement and agree that they shall during the term of their engagement hereunder conscientiously provide their resources and perform the required services to full limit of their ability, and further agree that they shall promptly and faithfully comply with all requirements, directions, requests, rules, and regulations.

All Parties do hereby agree as under:

- 1. The party A agrees to collaborate and support in organizational development, pedagogy, patent, research, innovation, incubator, startup, mentoring, industry partnership, internship, starting new healthcare programs with party B.
- 2. The party A agrees to collaborate for conducting workshop/seminar/conference at least once in every year at the campus of party B.
- 3. The party A agrees to provide training to the Pharmacy/Pharm D students of party B in the fields of:

Clinical Pharmacy

Clinical Research

Clinical Data Management, Data Analytics

Pharmacovigilance

Career Abroad

Medical Writing and Communication

Informatics

Any other fields as needed

- 4. The party A agrees to provide career guidance to interested students of Pharmacy/Pharm D and other courses of party B
- 5. Both the parties agreeto use each other promotional materials (logo, pamphlets, name & address, contact details, etc) in any event organized by both the parties only for promotional activities.

All parties have full capacities for the responsibilities above and will execute as described. Except this all the parties will share responsibilities on





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mutually agreed basis and hence share expense, profit and any other credits depending on agreed terms and conditions as mutually agreed.

1. INDEMIFICATIONS

All Parties shall indemnify and hold harmless each other, their affiliates and respective officers, directors, agents and employees from any and all claims, demands, losses, causes of action, damage, lawsuits, judgments, including attorneys' fees and costs, arising out of, or relating to, the services of Parties under this MOU.

- LIABILITYAll partners, sponsors, volunteers are absorbed of any liability resulting from any and all services provided during the mutually agreed events.
- 3. NON-DISCLOSURE All partners are working together in this endeavor Neither Party will use, copy, adapt, alter or part with possession of any information of the others which is disclosed or otherwise comes into its possession under or in relation to this MOU and which is of a confidential nature.
- 4. FINANCIAL IMPLICATIONS: Once both the parties agree and decide the priority areas of implementation, financials will be mutually discussed and decided.

5. GENERAL

- The parties to this MOU shall not be deemed to be in breach of this understanding or otherwise liable to any other party in any manner whatsoever for any failure or delay in performing or initiating the activities proposed in this MOU.
- This MOU records the understanding between the parties and is not intended to be a legally binding document and shall not be enforceable in any Court of Law.
- 3) The parties to this MOU shall be permitted to use the other's name, crest, logo or branding after obtaining the other's prior consent to such use and fully complying with the user guidelines.

6. NOTICES & COMMUNICATION

Communication necessary for the performance of this MOU shall be made through the contact details provided in this MOU.

7. ADDENDUM

A party to this MOU may request an amendment to this MOU at any time, provided such amendment is with the prior written consent of the authorised representatives of all parties.





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8. TERMINATION

Termination of this MOU by each Party prior to the execution and delivery of the definitive agreements shall be without liability and no Party hereto shall be entitled to any form of relief whatsoever, including without limitation, injunctive relief or damages.

For the purposes of this MOU the nominated "AVENIDA" contact is:

Dr. Karthik Rakam

Co-founder & CEO

Email: karthika avenidapro.com

The nominated contact for "Nirmala College of Pharmacy" is:

Dr. SK. Abdul Rahaman

Principal

Email: rahamanphdagmail com

SIGNATURES:

This MOU is executed on behalf of the parties by their respective duly authorized signatory as set out below:

"AVENIDA"

"Nirmala College of Pharmacy"

CARcher Calabada

Party "A"

Party "B"

Date: -3--/-3--/2022

Date: ----/2022 ATMAKURU VILLAC. MANGALAGIRI, Guntur Dt., A.r.

Witness Signatures:

1. T. Virry Kumar 3/3/2022





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Collaborative Activities:

MOU signed with **Avenida Innovations** to provide training to the Pharmacy / Pharm D students in the fields of Clinical Pharmacy, Clinical Research, Clinical Data Management, Data analytics, Pharmacovigilance, Career guidance, etc.,

"Awareness on Real Time training and Learning approach of Pharm D graduate in **Hospital**" on 03/03/2022 by Dr Karthik Rakam.







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4. KALINGA UNIVERSITY

MEMORANDUM OF UNDERSTANDING

MOU

M O U. Dated 21/08/2021

Between

Kalinga University, Ralpur (First Party)

And

Nirmala College of Pharmacy, Atmakur, Mangalagiri, Guntur (Dt), Andhra Pradesh (Second Party)

First Party

- There will be collaboration between Kalinga University and Numata College of Pharmacy in the field of academics and research
- 2 The subject experts of Nirmala College of Pharmacy will participate in the faculty development programs organized by the Kalinga University.
- 3 The research scholars of the Kalinga University will be given necessary support and guidance by the research experts/ guides of Nirmala College of Pharmacy
- The experts of various subjects of Nirmala College of Pharmacy will deliver lectures to the students of Kalinga University for updation of their knowledge when requested by the University
- 5 The faculty of Kalinga University can participate in the various academic programmes like seminars, conferences and workshops organized by Nirmala College of Pharmacy, Guntur, Andhra Pradesh, India

Second Party

- 1 The eminent subject expert of Kalinga University will deliver expert lectures for enriching the knowledge of the students when requested by the college authorities.
- 2 The students of Nirmala College of Pharmacy, Guntur Andhra Pradesh will be allowed to participate in the various campus interviews of Kalinga University

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ATMAKUR VILLAGE,

MANGALAGIRI, GUNTUR Dt., A.P.

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This agreement shall be in effect for three years from the date of signature and automatically extended for the same people if written intent of termination by either party is not presented six months prior to the date of expiration

Authorized Representative

For First Party

Dr. Sandeep Gandhi Registrar

Kalinga University, Raipur KEUTSTICAR KALINGA UNIVERSITY

SOTNE NEAR MANTE STAYS RATEME SCHOOL

For Second Party

Rev. Sr. P. Alphonsa Vicar General CSA
Secretary & Correspondent
Nimala College of Pharmacy
Atmaxia: Mangalagiri Guntur (Dt)
Andhra Pradesh India
Secretary & Correspondent

NIEMALE LOLLEGE OF PHARMACY A MAKUR VILLAGE - 522 503 Mar ... agit. Mansal, Guntur Dist., A.P.

Witness to the above M O.U.

Prof Dr. SK Abdul Rahaman Principal & Professor Nirmala Collège of Pharmacy Almakur, Mangalagir, Guntur (Dt. Andhra Pradesh, India

PRINCIPAL NIRMALA COLLEGE OF PHARMACY ATMAKUR VILLAGE. MANICALAGIRI GUNTUR DI. A.P.

That the name, day and year of persons related to M.O U. have been counter signed as above.

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Witness -





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Collaborative Activities:

MOU has been signed with **Kalinga University**, **Raipur** to collaborate with college in field of academics and Research including participation in various academics like Seminars, Conferences, Workshops, Campus Interviews, etc., In this context both the institutions are planned and conducted an International e-conference on Recent Trends in Pharmaceutical Research with a theme: "**Research innovations leading to intellectual property generation in Drug Discovery and Development**" held on 28th and 29th October, 2021.







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5. JOURNAL OF CARDIOVASCULAR DISEASE AND RESEARCH

Journal of Cardiovascular Disease Research (Scopus/) MoU with International e-Conference on Recent Trends in Pharmaceutical Research

Book Series/Journal: JCDR online

ISNN: 0976-2833 UAN No: AECFS9024C MoU NO: 00-20072021

DATE: AUG-05-2021

DUE. On Receipt

BALANCE DUE

INR ₹125,000.00

Regarding: conference minimum 50 papers publication MoU

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DESCRIPTION	RATE	QTY	AMOUNT
PAPER PUBLICTION FEE	₹125,000	50	₹125,000
50*2500= 125,000 INR			
	SUBTOTAL		₹125,000.00
	TAX (0%)	₹0.00 ₹125,000	₹0.00
	TOTAL		₹125,000.00
	BALANCE DUE		₹125,000.00

Notes for customer:

paid amount is not refundable under any circumstances

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Collaborative Activities:

Publication MOU has been signed with Journal of Cardiovascular Disease and Reasearch for publication into JCDR. In this context our research articles are published around 50 research / review papers in Vol.12, issue. 4, 5 in 2021

Journal of Cardiovascular Disease Research

ISSN: 0975-3583, 0976-2833 VOL 12, ISSUE 04, 2021

A DETAILED REVIEW ON COMPLETE UNDERSTANDING OF MIGRAINE AND ITS TREATMENT

KCL Venkat², Shaik Asha Begum¹.³, T. Vinay Kumar˚¹, Neeli Sai Kiran², Dr. Shaik Abdul Rahaman⁴, Dr. Veena Yeruva¹

¹Department of Pharmacology and Pharmacy Practice, Nirmala college of Pharmacy, Atmakur, Mangalagiri, AP,India-522503

² Pharm D students, Nirmala college of Pharmacy, Atmakur, Mangalagiri, AP, India-522503

3IPT, SPMVV, Tirupati, AP, India- 517501

Department of Pharmaceutical Chemistry, Nirmala college Of Pharmacy, Atmakur, Mangalagiri, AP, India-522503 Corresponding author:

KCL Venkat Pharm D student Nirmala college of Pharmacy, Atmakur, Mangalagiri, AP

Email: kclvenkat3151976@gmail.com Mobile no: 9248496011

ABSTRACT:

Migraine is a disabling primary headache disorder that directly affects more than one billion people worldwide including children. Migraine is the third most prevalent illness in the world. Despite its widespread prevalence, migraine remains under-diagnosed and under-treated. There is very little known about migraine for several years, however in the last few decades, considerable advances in our understanding of migraine and its pathophysiology have paved the way for better understanding of the disease condition. Migraine is of several types among which Migraine with Aura, Migraine Without aura and chronic migraine are frequently seen among patients. Migraine has strong genetic component (80% of people with migraine tend to have familial histories of the disease.) and known triggers that induce pain. ICH-3 guidelines were used in diagnosis of Migraine and there are many acute and preventive migraine treatments that are proved to be effective in migraine. Acute treatment is either specific (triptans and ergots) or non-specific (analgesics). Preventive treatment decreases migraine frequency and improves quality of life. Recent advances led to development of newer classes of drugs like CGRP antagonists namely gepants and 5-HT IF receptor agonists—namely ditans were also included. Despite of various pharmacological treatments available there is a strong need in clinical practice for alternative approaches for both acute and preventive treatment due to limited efficacy and poor toleration of pharmacological treatment in some patients.

This review tends to provide a complete overview of Migraine disorder that includes types, etiology, epidemiology, pathophysiology, ICH guidelines for diagnosis, current available Treatments of migraine with special emphasis of FDA approved novel drugs in last 5 years and also various non-pharmacological treatments available and lifestyle management of patients with Migraine.

Keywords: Migraine, Classification, Pathophysiology, Therapy, Novel Drugs, Non Pharmacological Therapy

1. INTRODUCTION:

Migraine is a primary episodic headache disorder characterized by various combinations of neurological, gastrointestinal, and autonomic changes. Migraine is derived from the Greek term hemicrania, which means "headache"(1).

Types of Migraine:

1.1 Migraine without aura (Previously used terms: Common migraine; hemicranias simplex)

Recurrent headache disorder that is characterized by attacks lasting 4-72 hours involving unilateral location, pulsating quality, moderate or severe intensity, aggravated by normal physical activity, and associated with nausea, and/or photophobia and phonophobia (2)

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Journal of Cardiovascular Disease Research

ISSN: 0975-3583, 0976-2833 VOL 12, ISSUE 04, 2021

CHEMOMETRIC ASSISTED NEW STABILITY INDICATING RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF BOSWELLIA SERRATA (AFLAPIN) AND COLLAGEN TYPE II IN COMBINED DOSAGE FORM

SK.Abdul Rahaman^{1*},L P VistajaSingamsetty*, Dr.ShantaKumari Adiki², PamidiboyinaSri Pujitha¹, Sucharitha Kuppala¹, SK RajiyaSulthana¹, InjetySundar Raj¹, Pamarthi Anil¹,NallagorlaPramodhVenkata sai¹

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ABSTRACT:

Anewchemometricassistedbyhigh-performanceliquidchromatography

(HPLC)withphotodiodearray(PDA)detectionwasimplementedforthesimultaneousdeterminationofBoswelliaserrat a (AFLAPIN)andCollagen type IItabletdosageform.Twochemometric calibration techniquesPrincipal component analysis (PCA) and partialleastsquares(PLS)wereappliedtothepeakareaat221 nmofPDAdetectorresponses. The method was carried out on a Luna Phenyl Hexyl(150X4.6mm, 3.5µ),columnwithamobilephaseconsistingofHexane and IPA (20:80v/v) with 0.1% Acetic acid and flow rate of 1.0 ml/ min. The detection was carried out at 221nm.TheretentiontimeforBoswelliaserrata (AFLAPIN)andCollagen type IIwerefoundtobe4.1 and6.2min respectively. The method was validated according to the ICH guidelines forspecificity, LOD, LOQ, precision, accuracy, linearity and robustness. The methodshowed good reproducibility and recovery with %RSD less than 2. Sothe proposedmethodwasfoundtobesimple, specific, precise, accurate and linear. The 'UNSCRAMBLER

(camo)'software was used for the numerical calculations. All ofthe two-chemometric analysis methods in this study can be satisfactorily applied forthe quantitative analysis of Boswelliaserrata (AFLAPIN) and Collagen type II in pharmaceutical capsule dosageform

KEYWORDS: Boswelliaserrata (AFLAPIN), Collagen type II, RP-HPLC, unscramble software, PLS, PCA.

INTRODUCTION:

In data analysis the qua;ity assurance of the bulk drugs and pharmaceutical preparations plays a vital role. The pharmacopoeias may not provide the standard analytical procedure for the determination of the newer drugs and formulations. Thus, it is essential to develop chemometric assisted RP-HPLC method for the development of rapid qualitative analysis pharmaceutical properties of intermediate and finished dosage forms. ¹The chemometric methods are one type of multivariate analysis that is considering more than one variable at that a time. ²Thus, it does not exist in one dimensional data. ³ the science of chemometric can be briefly described as the interaction of certain mathematical and statistical methods to chemical problems. It has developed as a consequence of a change of in the data obtained with the chemistry with the emergence of the new analytical techniques as well as microprocessors ⁴. The applications of using chemometric techniques in analytical chemistry are now numerous and applications have been revealed in spectroscopy, chromatography and other disciplines of analytical chemistry ³.

The resinous part of Boswelliaserrata contains,monoterpenes, diterpenespentacyclictriterpenic acids (boswellic acids); tetracyclic triterpenic acids. The 4 major components are β -Boswellic acid, acetyl- β -boswellic acid, 11-keto- β -boswellic acid, acetyl-11-keto- β -boswellic The 20% concentration of acetyl-11-keto- β -boswellic acid is known as aflapin. It is used as Antiseptic, Antiarthritic And Antiinflammatory⁵- δ It is believed that type II collagen will be transported across the gut epithelial cells to the underlying immune cells in the Peyer's patches where it activates naive T cells to become T regulatory (Treg). The activated Treg cells then migrate from the GALT through the lymphatic system and enter circulation. When they recognize a compound similar to what

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