

## UADY's Research Groups recognized by the Professional Development Program for Teachers

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Source: <http://promep.sep.gob.mx/>

| Name of Institution   | Name of Academic Body   | State               | Research Line  | Members   |
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| <p>1. Autonomous University of Yucatan</p> <p>Regional Research Centre "Dr. Hideyo Noguchi" Social Sciences Unit</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Sociology</p> <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p> | <p>UADY-CA 1: Regional Development, Modernization, and New Social Subjects in Yucatan</p> | <p>In Formation</p> | <p><b>Regional Development, Modernization, and New Social Subjects in Yucatan.</b></p> <p>It aims to study, analyze and help solve some of the major problems of social and economic development of the state of Yucatan; conformation, behavior and importance of specific social actors and their impact on the structural changes of the organization, by analyzing the regional development through the processes of social mobility. Therefore, particular attention to the problems of employment and unemployment, family subsistence, business strategy, work culture, food and maquiladora industry in Yucatan is given.</p>  | <ul style="list-style-type: none"> <li>- ALCALA FERRAEZ CARLOS RAMON</li> <li>- CASTILLA RAMOS BEATRIZ MARGARITA DEL SOCORRO</li> <li>- DOMINGUEZ AGUILAR MAURICIO CECILIO</li> <li>- PACHECO CASTRO JORGE ATOCHA <b>(LEADER OF THE RG)</b></li> <li>- PINKUS RENDÓN MANUEL JESÚS</li> <li>- RAMÍREZ CARRILLO LUIS ALFONSO</li> <li>- TORRES GONGORA BEATRIZ DEL SOCORRO</li> <li>- VERDE CAÑETAS ADRIAN DAVID</li> </ul> |
| <p>2. Autonomous University of Yucatan</p> <p>Regional Research Centre "Dr. Hideyo Noguchi" Social Sciences Unit</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Sociology</p>   | <p>UADY-CA 3: Political Processes, Institutions and Political Culture in Yucatán</p>      | <p>Consolidated</p> | <p><b>Democratization Processes in Yucatan. XIX-XX centuries.</b></p> <p>Its field of study is the analysis of the relationship between state and society, conceived as a social dimension and articulating multiple leaders and led groups, that in the course of history have given consistency and permanence to the Yucatecan society and its various forms of state government. So in this social dimension the different types of socio-political movements are accommodated; the various forms of economic organization; the varied attitudes, customs and political practices, both individual and collective, and the various institutions and organizations in</p> | <ul style="list-style-type: none"> <li>- BAÑOS RAMIREZ OTHON</li> <li>- ORTIZ YAM ISAURA INÉS <b>(LEADER OF THE RG)</b></li> <li>- POOT CAPETILLO EFRAIN ERIC</li> <li>- QUEZADA SERGIO PRUDENCIO AUGUSTO</li> </ul>  |

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| <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p>   |   |                         | <p>which political society and civil society to materialize.</p> <p><b>Public Finance and State in Mexico in the XIX Century.</b><br/>It aims to conduct research on the behavior of income, expenditure, debt and financing in Mexico, from independence until the beginning of the Mexican Revolution.</p> <p><b>Citizenship and Electoral Processes in Yucatan.</b><br/>It aims to study the construction and practice of citizenship among young Yucatecans and the cyclical and the political and 2003-2006 electoral processes in Yucatan, for the purpose of monitoring the citizen participation in elections and evaluate the analysis results of votes. Special emphasis will be given to the low participation of young people registered in the electoral process.</p> |  |
| <p>3. Autonomous University of Yucatan</p> <p>School of Architecture</p> <p>Area: Engineering and Technology</p> <p>Discipline: Architecture (Others)</p> <p>Website:</p> | <p>UADY-CA 4: Heritage Conservation</p>         | <p>In Consolidation</p> | <p><b>History and Conservation of Urban and Architectural Heritage.</b><br/>Study, analysis and teaching of urban and architectural heritage from the constructive, formal, spatial, historical, social, cultural, typological, gender, utilization, project, economic and natural and environmental aspects; and promoting their conservation and presentation.</p>   | <ul style="list-style-type: none"> <li>— LIGORRED PERRAMON JOSE DE CALASANZ</li> <li>— ORDAZ TAMAYO MARISOL DEL CARMEN</li> <li>— PAREDES GUERRERO BLANCA ESTHER <b>(LEADER OF THE RG)</b></li> <li>— PERAZA GUZMAN MARCO TULIO</li> </ul> |
| <p>4. Autonomous University of Yucatan</p> <p>School of Architecture</p>  | <p>UADY-CA 5: Urban Development and Housing</p> | <p>In Formation</p>     | <p><b>Urban and Regional Development.</b><br/>Analyze and teach the dynamics of growth and development of cities, as well as the determinants of socioeconomic processes, physical and territorial nature; establish</p>   | <ul style="list-style-type: none"> <li>— ALONZO AGUILAR ALFREDO JOSE <b>(LEADER OF THE RG)</b></li> <li>— ARANA LOPEZ GLADYS NOEMI</li> <li>— FERNANDEZ MARTINEZ YOLANDA</li> </ul>  |

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| <p>Area: Engineering and Technology</p> <p>Discipline: Architecture (Others)</p> <p>Website:</p>  |                                    |                         | <p>conditions for balanced urban development; and develop proposals for urban planning and design.</p> <p><b>Housing.</b><br/>Studying and teaching conditions of production, consumption, use, spatial integration, functionality, planning, design, technology and features of different types of housing, taking into consideration the needs and requirements of users and the economic, climatic, urban and historical conditions.</p>   | <ul style="list-style-type: none"> <li>— TORRES PÉREZ MARÍA ELENA</li> </ul>   |
| <p>5. Autonomous University of Yucatan</p> <p>School of Anthropology</p> <p>Area: Education, Humanities and Art</p> <p>Discipline: Literature</p> <p>Website: <a href="http://www.antropologia.uady.mx/ca/ca_literatura/index.php">http://www.antropologia.uady.mx/ca/ca_literatura/index.php</a></p> | <p>UADY-CA 9: Literary Studies</p> | <p>Consolidated</p>     | <p><b>Literature, Ideology and Society.</b><br/>Study, analyze and retrieve knowledge about literary phenomena that are generated in both the continental and regional literature, from given literary contemporary sociological theories.</p>  | <ul style="list-style-type: none"> <li>— LEIRANA ALCOCER SILVIA CRISTINA <b>(LEADER OF THE RG)</b></li> <li>— ORTEGA ARANGO OSCAR</li> <li>— ROSADO AVILÉS CELIA ESPERANZA DEL SOCORRO</li> <li>— SHRIMPTON MASSON MARGARET ELISABETH</li> </ul> |
| <p>6. Autonomous University of Yucatan</p> <p>School of Accounting and Administration</p> <p>Area: Social and Administrative Sciences</p>   | <p>UADY-CA 11: Legal Area</p>      | <p>In Consolidation</p> | <p><b>Tax Management.</b><br/>The contributions are part of the main resources that capture the different levels of government; therefore, optimal administration is required. Tax management is the concept that includes the management of resources in two areas: public and private. From the public point of view, the tax administration is related to the set of actions that come from public policies related to the collection, control, supervision and use of public resources. From the private point of view, tax management includes the activities of companies in the process of planning, calculation, payment of contributions and the use</p> | <ul style="list-style-type: none"> <li>— AVILÉS HEREDIA LILIA CAROLINA</li> <li>— BOJORQUEZ CARRILLO ANA LAURA</li> <li>— DE LOS SANTOS BRIONES IDALIA AMPARO</li> <li>— VILLASUSO PINO VÍCTOR MANUEL <b>(LEADER OF THE RG)</b></li> </ul>       |

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| <p>Discipline: Organizational Studies</p> <p>Website: <a href="http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad">http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad</a></p>   |  |                         | <p>of the means of defense which the government is entitled. The research of the Legal Area Academic Body covers the study of tax management from both the public and the private side.</p>   |   |
| <p>7. Autonomous University of Yucatan</p> <p>School of Accounting and Administration</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Organizational Studies</p> <p>Website: <a href="http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad">http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad</a></p> | <p>UADY-CA 12: Economy and Finance</p>         | <p>Consolidated</p>     | <p><b>Study of the Impact of the Financial Environment on Traders.</b><br/>Study of new relationships generated in the financial sector and how they affect the economic environment in the region, mainly in three areas: financial intermediaries, corporate finance and personal finance.</p>                            | <ul style="list-style-type: none"> <li>– BOJORQUEZ ZAPATA MARTHA ISABEL</li> <li>– DUARTE CACERES LAURA GUILLERMINA <b>(LEADER OF THE RG)</b></li> <li>– PEREZ BRITO ANTONIO EMMANUEL</li> <li>– ROSADO MUÑOZ YOLANDA LEONOR</li> </ul> |
| <p>8. Autonomous University of Yucatan</p> <p>School of Accounting and Administration</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Economic-Administrative Science</p>  | <p>UADY-CA 14: Organization and Management</p> | <p>In Consolidation</p> | <p><b>Organization and Society.</b><br/>The study and understanding, from the standpoint of science and economics, human systems of collective action, including their styles of leadership and coordination, its human, group and social impact as well as various forms of integration with other organized entities.</p> | <ul style="list-style-type: none"> <li>– JIMENEZ DIEZ OLIVIA</li> <li>– LOPEZ CANTO LEONOR ELENA</li> <li>– MUL ENCALADA JENNIFER</li> <li>– OJEDA LOPEZ RUTH NOEMI <b>(LEADER OF THE RG)</b></li> </ul>                                |

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| <p>Website: <a href="http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad">http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad</a></p>   |  |                         |  |   |
| <p>9. Autonomous University of Yucatan</p> <p>School of Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Construction</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico_fi.php">https://www.ingenieria.uady.mx/personalacademico_fi.php</a></p>               | <p>UADY-CA 21:<br/>Construction Engineering</p>  | <p>In Consolidation</p> | <p><b>Construction Innovation.</b><br/>Innovate administrative and productive construction procedures to ensure the sustainable use of resources involved therein.</p>   | <ul style="list-style-type: none"> <li>— ALVAREZ ROMERO SERGIO OMAR</li> <li>— CORONA SUAREZ GILBERTO ABENAMAR</li> <li>— GONZALEZ FAJARDO JOSÉ ANTONIO DE JESÚS</li> <li>— LORIA ARCILA JOSÉ HUMBERTO</li> <li>— SOLIS CARCAÑO ROMEL GILBERTO<br/><b>(LEADER OF THE RG)</b></li> <li>— ZARAGOZA GRIFE JESUS NICOLAS</li> </ul> |
| <p>10. Autonomous University of Yucatan</p> <p>School of Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Environmental Engineering</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico_fi.php">https://www.ingenieria.uady.mx/personalacademico_fi.php</a></p> | <p>UADY-CA 23:<br/>Environmental Engineering</p> | <p>Consolidated</p>     | <p><b>Environmental Engineering.</b><br/>Detect and quantify the environmental problems to propose solutions through the development and adaptation of technologies, in order to ensure a healthy environment and sustainable use.</p> | <ul style="list-style-type: none"> <li>— GIACOMAN VALLEJOS GERMAN</li> <li>— MENDEZ NOVELO ROGER IVÁN</li> <li>— PONCE CABALLERO MARÍA DEL CARMEN<br/><b>(LEADER OF THE RG)</b></li> <li>— QUINTAL FRANCO CARLOS ALBERTO</li> </ul>   |

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| <p>11. Autonomous University of Yucatan</p> <p>School of Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Hydraulics and Hydrology</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico.fi.php">https://www.ingenieria.uady.mx/personalacademico.fi.php</a></p> | <p>UADY-CA 24: Hydraulics and Hydrology</p> | <p>In Consolidation</p> | <p>Hydraulic Engineering and Hydrology.<br/>Generate and apply knowledge to assess the behavior of water, both in nature and in the works of engineering for sustainable water management.</p>   | <ul style="list-style-type: none"> <li>— GONZALEZ HERRERA ROGER AMILCAR <b>(LEADER OF THE RG)</b></li> <li>— OSORIO RODRIGUEZ JOSÉ HUMBERTO</li> <li>— SANCHEZ Y PINTO ISMAEL ABELARDO</li> <li>— CASARES SALAZAR RAFAEL</li> </ul>  |
| <p>12. Autonomous University of Yucatan</p> <p>School of Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Structures</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico.fi.php">https://www.ingenieria.uady.mx/personalacademico.fi.php</a></p>               | <p>UADY-CA 26: Structures and Materials</p> | <p>Consolidated</p>     | <p>Engineering Structures and Materials.<br/>Generate knowledge and technology on the behavior of structures and building materials, to solve engineering problems relating to the stability, security and economy of structural systems.</p>  | <ul style="list-style-type: none"> <li>— FERNÁNDEZ BAQUEIRO LUIS ENRIQUE</li> <li>— GAMBOA MARRUFO MAURICIO</li> <li>— MORENO HERRERA JOEL ALBERTO</li> <li>— VARELA RIVERA JORGE LUIS <b>(LEADER OF THE RG)</b></li> </ul>  |
| <p>13. Autonomous University of Yucatan</p> <p>School of Engineering</p>   | <p>UADY-CA 27: Engineering Physics</p>      | <p>Consolidated</p>     | <p>Engineering Physics.<br/>Generate knowledge and technology in the area of physics through the study of: semiconductor materials, electronic instrumentation, renewable energy as well as renewable and medical physics, in order to use both in industry and in basic research.</p> | <ul style="list-style-type: none"> <li>— ACOSTA CESAR RENAN</li> <li>— ACOSTA DIAZ MILENIS</li> <li>— CAB CAUICH CESAR ALBERTO</li> <li>— CARVENTE MUÑOZ OSVALDO</li> <li>— MEDINA ESQUIVEL RUBÉN ARTURO</li> <li>— MÉNDEZ GAMBOA JOSÉ ÁNGEL</li> <li>— PEÑUÑURI ANGUIANO FRANCISCO RAMÓN</li> </ul> |

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| <p>Area: Engineering and Technology</p> <p>Discipline: Material Science, Energy and Instrumentation and Control</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico.fi.php">https://www.ingenieria.uady.mx/personalacademico.fi.php</a></p>  |  |                         |  | <ul style="list-style-type: none"> <li>- PÉREZ QUINTANA IGNACIO VICENTE</li> <li>- RIECH MÉNDEZ INÉS MARGARITA</li> <li>- TAPIA GONZÁLEZ JORGE ALEJANDRO</li> <li>ZAMBRANO ARJONA MIGUEL ANGEL<br/><b>(LÍDER DE CA)</b></li> </ul>                                     |
| <p>14. Autonomous University of Yucatan</p> <p>School of Chemical Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Food Science and Technology</p> <p>Website: <a href="http://www.ingquimica.uady.mx/investigacion/grupos.php">http://www.ingquimica.uady.mx/investigacion/grupos.php</a></p> | <p>UADY-CA 29: Food Development</p>            | <p>Consolidated</p>     | <p>Technology for the Utilization, and Conservation of Agricultural and Fishery Resources and co-products.</p> <p>This group makes technological developments on underused or underutilized resources, which can acquire added value by processing, adjustment or modification.</p> <p>Development of Products, Food Ingredients and Additives.</p> <p>Identifies those materials with a social, commercial or medicinal value that require more knowledge to fully benefit from them.</p> <p>Generation, Development and Characterization of Functional Food for Specific Problems.</p> <p>Use of raw materials and regional products for the development of functional foods with added value through its nutritional, physiological and technological effect.</p> | <ul style="list-style-type: none"> <li>- BETANCUR ANCONA DAVID ABRAM <b>(LÍDER DE CA)</b></li> <li>- CASTAÑEDA PEREZ EDUARDO</li> <li>- CASTELLANOS RUELAS ARTURO FRANCISCO</li> <li>- CHEL GUERRERO LUIS ANTONIO</li> <li>GALLEGOS TINTORE SANTIAGO MOISES</li> </ul> |
| <p>15. Autonomous University of Yucatan</p>  | <p>UADY-CA 30: Process Systems Engineering</p> | <p>In Consolidation</p> | <p>Process Engineering.</p> <p>We perform theoretical and experimental research in technologies and design methodologies, sustainability analysis, simulation, control and evaluation of chemical and biotechnological processes. We focus</p>   | <ul style="list-style-type: none"> <li>- BAZ RODRIGUEZ SERGIO ANTONIO <b>(LEADER OF THE RG)</b></li> <li>- SACRAMENTO RIVERO JULIO CÉSAR</li> </ul>  |

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| <p>School of Chemical Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Process Engineering</p> <p>Website: <a href="http://www.ingquimica.uady.mx/investigacion/grupos.php">http://www.ingquimica.uady.mx/investigacion/grupos.php</a></p>  |   |                         | <p>mainly on: a) The design of clean and sustainable processes, such as biofuels, renewable chemicals and applications of supercritical fluids; b) process simulation steady state and dynamic, using mathematical models derived material balances, energy and momentum, including computational fluid dynamics; c) improving processes using tools such as optimization, sensitivity analysis, energy integration and mass among others; d) instrumentation and control of chemical, thermal and biotechnological processes; e) the sustainability of chemical and biotechnological processes through the design, improvement and application of methodologies such as life cycle analysis, energy analysis and other related; f) the application and adaptation of innovative teaching-learning strategies in teaching courses related to engineering processes.</p> | <ul style="list-style-type: none"> <li>- ZITLALPOPOCA SORIANO ANGEL GUILLERMO</li> </ul>   |
| <p>16. Autonomous University of Yucatan</p> <p>School of Chemical Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Industrial Engineering</p> <p>Website: <a href="http://www.ingquimica.uady.mx/investigacion/grupos.php">http://www.ingquimica.uady.mx/investigacion/grupos.php</a></p> | <p>UADY-CA 31: Competitiveness and Technological Innovation</p> | <p>In Consolidation</p> | <p><b>Management of Technology.</b><br/>Assesses the role of the management of technological change and innovation in achieving the competitiveness of companies and organizations.</p> <p><b>Entrepreneurial Development and Entrepreneurship Studies.</b><br/>Analyzes the application of models of promotion and development of enterprising students and the evolution of their processes for employers.</p>  | <ul style="list-style-type: none"> <li>- GARCIA LIRA ALAN (<b>LEADER OF THE RG</b>)</li> <li>- SANTOS FLORES JORGE SANTIAGO</li> <li>- ESCALANTE EUÁN JESÚS FRANCISCO</li> </ul>                     |
| <p>17. Autonomous University of Yucatan</p>   | <p>UADY-CA 32: Fundamental and Applied Chemistry</p>            | <p>In Consolidation</p> | <p><b>Generation and Application of Chemical Knowledge in the Areas of Materials, Environmental and Industrial.</b></p>   | <ul style="list-style-type: none"> <li>- ÁVILA ORTEGA ALEJANDRO (<b>LÍDER DE CA</b>)</li> <li>- BARRON ZAMBRANO JESUS ALBERTO</li> <li>- CARRERA FIGUEIRAS CRISTIAN MUÑOZ RODRÍGUEZ DAVID</li> </ul> |

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| <p>School of Chemical Engineering</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Analytical Chemistry</p> <p>Website: <a href="http://www.ingquimica.uady.mx/investigacion/grupos.php">http://www.ingquimica.uady.mx/investigacion/grupos.php</a></p>   |   |                         | <p>Contribute to the training of professionals of chemistry through the generation and application of chemical knowledge in the areas of materials, environmental and industrial, involving: i) The design, synthesis and analysis of multifunctional organic and inorganic materials. ii) The study of the possible application and / or degradation of organic and inorganic materials in various fields of science. iii) The implementation, development and validation of analytical methodologies for different chemical species in different matrix. iv) Physical Education and / or chemicals of various environmental contaminants in soil, water and air.</p> |  |
| <p>18. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Algebra</p> <p>Website: <a href="https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos">https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos</a></p> | <p>UADY-CA 33: Algebra</p>  | <p>Consolidated</p>     | <p>Theories of Numbers, Algebra Representations and their Applications.</p> <p>In number theory, the faculty of algebra studies the theory of the zeros, special values and relationships of the zeta functions and fields multizeta global functions and applications of these in cryptography, codes and elliptic curves. In representation theory, the faculty of algebra studies the generalization of the theorem of Drozd to perfect fields, derived categories and their applications to control theory and number theory.</p>  | <ul style="list-style-type: none"> <li>- BAUTISTA ANCONA VICTOR MANUEL</li> <li>- DÍAZ VARGAS JAVIER ARTURO</li> <li>- LARA RODRÍGUEZ JOSÉ ALEJANDRO <b>(LÍDER DE CA)</b></li> <li>- PÉREZ TERRAZAS JESÚS EFRÉN</li> <li>- RUBIO BARRIOS CARLOS JACOB</li> </ul> |
| <p>19. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Natural and Exact Sciences</p>  | <p>UADY-CA 34: Differential Equations, Analysis and Teaching of Mathematics</p> | <p>In Consolidation</p> | <p>Applications of Mathematical Analysis, Differential Equations and Mathematics Teaching.</p> <p>Develop and apply knowledge of mathematical analysis and differential equations in mathematical modeling processes as well as in the teaching of mathematics.</p>  | <ul style="list-style-type: none"> <li>- APARICIO LANDA EDDIE DE JESÚS</li> <li>- ÁVILA VÁLES ERIC JOSÉ</li> <li>- GARCÍA ALMEIDA GERARDO EMILIO <b>(LEADER OF THE RG)</b></li> <li>- SOSA MOGUEL LANDY ELENA</li> </ul>   |

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| <p>Discipline: Calculus, Analysis and Differential Equations</p> <p>Website: <a href="https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos">https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos</a></p>   |  |                         |  |  |
| <p>20. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Statistics</p> <p>Website: <a href="https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos">https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos</a></p> | <p>UADY-CA 36: Statistics</p>  | <p>In Consolidation</p> | <p>Statistics and Probability. Generating and applying probability theory and statistics to help solve problems in various areas of knowledge and strengthen educational programs of the institution.</p>  | <ul style="list-style-type: none"> <li>— BATÚN CUTZ JOSÉ LUIS (<b>LEADER OF THE RG</b>)</li> <li>— GUERRERO LARA ERNESTO ANTONIO</li> <li>— KANTÚN CHIM MARÍA DIÓDORA</li> <li>— PANTI TREJO HENRY GASPAR</li> </ul>             |
| <p>21. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Geometry</p>   | <p>UADY-CA 39: Differential Geometry, Dynamical Systems and Applications</p> | <p>Consolidated</p>     | <p>Geometry and Dynamics in Varieties. Development of research, dissemination and training of human resources in areas related to the application of geometric, dynamic and algebraic techniques, topical problems in differential geometry and theoretical physics.</p> | <ul style="list-style-type: none"> <li>— BARRERA VARGAS WALDEMAR DEL JESÚS</li> <li>— NAVARRETE CARRILLO JUAN PABLO</li> <li>— NAVARRO SOZA JOSÉ MATÍAS</li> <li>— SOLÍS GAMBOA DIDIER ADÁN (<b>LEADER OF THE RG</b>)</li> </ul> |

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| <p>Website: <a href="https://www.maticas.uady.mx/personal-academico/cuerpos-academicos">https://www.maticas.uady.mx/personal-academico/cuerpos-academicos</a></p>   |   |                     |   |   |
| <p>22. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Agricultural Sciences</p> <p>Discipline: Animal Genetic Improvement</p> <p>Website: <a href="http://www.ccba.uady.mx/rmg.php">http://www.ccba.uady.mx/rmg.php</a></p> | <p>UADY-CA 41: Reproduction and Animal Genetic Improvement in the Tropics</p> | <p>Consolidated</p> | <p>Reproduction and Management of Animal Genetic Resources.</p> <p>This research aims to give comprehensive attention to reproductive and genetic aspects of animals used for livestock production in production systems, domestic and wildlife resources (Units management and conservation of wildlife; UMA's) in the area of influence of the Campus of Biological and Agricultural Sciences, in order to help improve their productivity and sustainability. So that a better use and conservation of these species be sought within an appropriate ecological balance.</p> | <ul style="list-style-type: none"> <li>– MAGAÑA MONFORTE JUAN GABRIEL</li> <li>– MONTES PEREZ RUBEN CORNELIO</li> <li>– SEGURA CORREA JOSE CANDELARIO <b>(LEADER OF THE RG)</b></li> </ul>  |
| <p>23. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Environmental Biology, Conservation and Management of Natural Resources, Environmental Contamination, Ecology,</p>      | <p>UADY-CA 42: Tropical Ecology</p>   | <p>Consolidated</p> | <p>Population Ecology and Interactions in the Tropic.</p> <p>Demographics of threatened plants, study of plant-herbivore-pollinator relations, hosted-parasite interactions in terrestrial and aquatic vertebrates, plant-mycorrhizal interaction.</p> <p>Ecosystem Studies and Environmental Restoration.</p> <p>Pesticide residues in terrestrial and aquatic ecosystems, detection of pesticides in aquatic and terrestrial vertebrates, effects of pesticides in communities.</p>   | <ul style="list-style-type: none"> <li>– CERVERA HERRERA JOSÉ CARLOS</li> <li>– LEIRANA ALCOGER JORGE LEANDRO</li> <li>– NAVARRO ALBERTO JORGE AUGUSTO</li> <li>– PARRA TABLA VICTOR PROSPERO</li> <li>– RAMOS ZAPATA JOSÉ ALBERTO <b>(LEADER OF THE RG)</b></li> </ul> |

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| <p>Statistics and Applications, Evolution.</p> <p>Website: <a href="http://www.ccba.uady.mx/et.php">http://www.ccba.uady.mx/et.php</a></p>   |  |                     |   |   |
| <p>24. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Animal Ecology and Zoology</p> <p>Website: <a href="http://www.ccba.uady.mx/bio.php">http://www.ccba.uady.mx/bio.php</a></p>   | <p>UADY-CA 43: Animal Bioecology</p>   | <p>Consolidated</p> | <p><b>Animal Ecology.</b><br/>Study of diversity, interactions and factors that determine the distribution and abundance of wildlife, at different spatial and temporal scales.</p> <p><b>Wildlife Conservation and Management.</b><br/>The design of strategies for the conservation and sustainable management of wildlife.</p> | <ul style="list-style-type: none"> <li>- CHABLE SANTOS JUAN BAUTISTA (<b>LEADER OF THE RG</b>)</li> <li>- DELFIN GONZALEZ HUGO</li> <li>- MANRIQUE SAIDE PABLO CAMILO</li> <li>- MELÉNDEZ RAMÍREZ VIRGINIA</li> <li>- SELEM SALAS CELIA ISELA</li> </ul>                        |
| <p>25. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Agricultural Sciences</p> <p>Discipline: Agriculture of Tropical Zones</p> <p>Website: <a href="http://www.ccba.uady.mx/mcrnt.php">http://www.ccba.uady.mx/mcrnt.php</a></p> | <p>UADY-CA 44: Management and Conservation of Natural Tropical Resources</p> | <p>Consolidated</p> | <p><b>Tropical Agroecology.</b><br/>Application of principles and concepts of ecology for the design, management, evaluation and rehabilitation of production to achieve sustainable food systems areas.</p>  | <ul style="list-style-type: none"> <li>- ESTRADA MEDINA HECTOR</li> <li>- JIMÉNEZ OSORNIO JUAN JOSE MARIA</li> <li>- MONTAÑEZ ESCALANTE PATRICIA IRENE</li> <li>- RUENES MORALES MARIA DEL ROCIO (<b>LEADER OF THE RG</b>)</li> <li>- FERRER ORTEGA MIRIAM MONSERRAT</li> </ul> |

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| <p>26. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Agricultural Sciences</p> <p>Discipline: Veterinary Sciences, et al.</p> <p>Website: <a href="http://www.ccba.uady.mx/sa.php">http://www.ccba.uady.mx/sa.php</a></p> | <p>UADY-CA 48: Animal Health</p>       | <p>Consolidated</p> | <p>Epidemiology of Tropical Diseases in Animals.</p> <p>The aim of this group is to know the means of diagnosis, prevention and / or eradication of major diseases that affect the health of domestic animals in the tropics.</p>  | <ul style="list-style-type: none"> <li>– AGUILAR CABALLERO ARMANDO JACINTO</li> <li>– BOLIO GONZALEZ MANUEL EMILIO</li> <li>– GUTIÉRREZ BLANCO EDUARDO</li> <li>– GUTIERREZ RUIZ EDWIN JOSE</li> <li>– ORTEGA PACHECO ANTONIO</li> <li>– RODRIGUEZ VIVAS ROGER IVAN (<b>LEADER OF THE RG</b>)</li> <li>– ROSADO AGUILAR JOSE ALBERTO</li> <li>– TORRES ACOSTA JUAN FELIPE DE JESUS</li> </ul> |
| <p>27. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Agricultural Sciences</p> <p>Discipline: Beekeeping</p> <p>Website: <a href="http://www.ccba.uady.mx/api.php">http://www.ccba.uady.mx/api.php</a></p>                | <p>UADY-CA 49: Tropical Beekeeping</p> | <p>Consolidated</p> | <p>Harnessing Bees in the Tropic.</p> <p>Addresses aspects related to biology in the broad sense of all Apidae groups and possible ways of use of those species with economic potential and its byproducts.</p>  | <ul style="list-style-type: none"> <li>– MAY ITZÁ WILLIAM DE JESÚS</li> <li>– MEDINA MEDINA LUIS ABDELMIR</li> <li>– MOO VALLE JOSÉ HUMBERTO (<b>LEADER OF THE RG</b>)</li> <li>– QUEZADA EUAN JOSÉ JAVIER GUADALUPE</li> </ul>   |
| <p>28. Autonomous University of Yucatan</p> <p>School of Psychology</p>  | <p>UADY-CA 52: Clinical Psychology</p> | <p>In Formation</p> | <p>Personality, Family and Psychological Welfare.</p> <p>This line aims to generate and apply knowledge in the area of clinical psychology with an emphasis in the areas of personality, family and psychological well-being, in order to know the characteristics of our population and incorporate</p> | <ul style="list-style-type: none"> <li>– VÁZQUEZ VARGAS ERENDIRA ESTRELLA</li> <li>– NAVARRETE CENTENO JORGE RAMON</li> <li>– SOSA CORREA MANUEL (<b>LEADER OF THE RG</b>)</li> <li>– VANEGA ROMERO SALLY</li> </ul>  |

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| <p>Area: Social and Administrative Sciences</p> <p>Discipline: Clinical Psychology and Health Psychology</p> <p>Website:</p>  |  |                         | <p>such knowledge to various educational degree programs, both undergraduate and graduate, and meet the demands of mental health more relevant in our region.</p>  |  |
| <p>29. Autonomous University of Yucatan</p> <p>School of Psychology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Industrial and Work Psychology and Organizational Psychology</p> <p>Website:</p> | <p>UADY-CA 53: Organizations and Work Psychology</p> | <p>In Consolidation</p> | <p>Psychology, Organizations and Work. Its purpose is to study the issues related to the functioning of organizations through human resources at the individual, group and organizational level and with a systemic approach, as well as the various work-related topics and most of the aspects of behavior, generating knowledge that contributes to the balance between performance and greater efficiency and well-being and quality of life of the people who make the organizations.</p>   | <ul style="list-style-type: none"> <li>— AGUILAR ORTEGA CECILIA BEATRIZ</li> <li>— CENTENO LEY MARÍA GUADALUPE</li> <li>— CETINA CANTO THELMA ELENA (<b>LEADER OF THE RG</b>)</li> </ul>   |
| <p>30. Autonomous University of Yucatan</p> <p>School of Chemistry</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Chemical Sciences</p>   | <p>UADY-CA 54: Chemical Sciences</p>                 | <p>Consolidated</p>     | <p>Studies of Bio-organic molecules with application in pharmacy and food. The search for compounds with biological activity is performed taking advantage of the chemical rich biodiversity of the Yucatan Peninsula or through the use of new tactics and synthetic strategies, incorporating the application of modern spectrometric methods for studying molecules with complex structures and in the development of studies of the biological structure activity relationship, promoting a participatory environment, all with emphasis on the use of environmentally friendly methods.</p> | <ul style="list-style-type: none"> <li>— CÁCERES CASTILLO ROLANDO DAVID</li> <li>— MARRERO CARBALLO RUBEN</li> <li>— MENA REJON GONZALO JOAQUIN</li> <li>— MIRÓN LÓPEZ GUMERSINDO</li> <li>— QUIJANO QUIÑONES RAMIRO FELIPE (<b>LEADER OF THE RG</b>)</li> </ul> |

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| <p>Website: <a href="http://www.quimica.uady.mx/">http://www.quimica.uady.mx/</a></p>   |  |                     | <p>Development, Validation and Application of analytical methods based on electrochemical, spectroscopic and chromatographic techniques.</p> <p>This line of research involves the implementation, validation and / or application of high sensitivity analytical methodology, ie the measurement of an analyte of low concentrations (the order of MG / L and µG/L) for substances which are liable to be quantified by atomic absorption spectrophotometry, plasma emission spectroscopy (ICP), anodic stripping voltammetry and / or differential pulse polarography. As well as gas chromatography and high performance liquid chromatography resolution.</p> |  |
| <p>31. Autonomous University of Yucatan</p> <p>School of Chemistry</p> <p>Area: Health Sciences</p> <p>Discipline: Pharmacology</p> <p>Website: <a href="http://www.quimica.uady.mx/">http://www.quimica.uady.mx/</a></p> | <p>UADY-CA 55: Pharmaceutical Sciences and Clinical Biochemistry</p>                       | <p>Consolidated</p> | <p>Pathogenesis, Diagnosis and treatment of Infectious and Chronical-Degenerative Diseases</p> <p>Preclinical, clinical and molecular evaluation of infectious and chronical-degenerative diseases, as well as the study of therapeutic strategies employed for its treatment.</p>  | <ul style="list-style-type: none"> <li>– ARANA ARGÁEZ VÍCTOR ERMILO (<b>LEADER OF THE RG</b>)</li> <li>– LARA RIEGOS JULIO CÉSAR</li> <li>– RAMÍREZ CAMACHO MARIO ALBERTO</li> <li>– TORRES ROMERO JULIO CESAR</li> </ul>  |
| <p>32. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Biomedicine</p>  | <p>UADY-CA 56: Vector-Borne and Infectious Diseases</p> <p>Division of Health Sciences</p> | <p>Consolidated</p> | <p>Infectious and Parasitic Zoonotic Diseases.</p> <p>Studies parasites, bacteria and viruses in which reservoirs are involved in their transmission and that cause diseases in humans.</p>   | <ul style="list-style-type: none"> <li>– CRUZ CHAN JULIO VLADIMIR</li> <li>– DZUL ROSADO KARLA ROSSANET</li> <li>– GARCIA REJON JULIAN EVERARDO (<b>LEADER OF THE RG</b>)</li> <li>– LUGO CABALLERO CÉSAR ISRAEL</li> <li>– PUERTO MANZANO FERNANDO ISAIAS</li> <li>– REYES SOLÍS GUADALUPE DEL CARMEN</li> <li>– ROSADO VALLADO MIGUEL ENRIQUE</li> </ul> |

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| Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a>   |  |                  |   |  |
| 33. Autonomous University of Yucatan<br><br>Division of Health Sciences<br><br>Division of Health Sciences<br><br>Area: Health Sciences<br><br>Discipline: Infectious Diseases<br><br>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a> | UADY-CA 57: Biomedicine of Infectious and Parasitic Diseases | Consolidated     | <b>Biomedicine of Infectious and Parasitic Diseases.</b><br>Develop research in cell biology of infectious and parasitic diseases, endemic, emerging and reemerging in the South-Southeast region of Mexico, diseases to characterize strains, cell structures, and genes that explain pathophysiologic mechanism in the host-parasite-environment relationship, for the search of vaccines, medicines and messages to the population that as a whole can be translated into control mechanisms and prevention of diseases under study. | <ul style="list-style-type: none"> <li>— ACOSTA VIANA KARLA YOLANDA</li> <li>— AYORA TALAVERA GUADALUPE</li> <li>— CONDE FERRÁEZ LAURA</li> <li>— GONZALEZ LOSA MARÍA DEL REFUGIO <b>(LEADER OF THE RG)</b></li> <li>— GUZMAN MARIN EUGENIA DEL SOCORRO</li> </ul> |
| 34. Autonomous University of Yucatan<br><br>Division of Health Sciences<br><br>Area: Health Sciences<br><br>Discipline: Medical-Surgical Diseases<br><br>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a>                              | UADY-CA 58: Integral Study of Blood Diseases                 | In Consolidation | <b>Chronic Degenerative Diseases.</b><br>Medical Surgical Diseases.   | <ul style="list-style-type: none"> <li>— PAVIA RUZ NORMA DEL ROSARIO</li> <li>— VALADEZ GONZALEZ NINA <b>(LEADER OF THE RG)</b></li> <li>— VALENCIA PACHECO GUILLERMO</li> <li>— VERA GAMBOA LIGIA DEL CARMEN</li> </ul>   |
| 35. Autonomous University of Yucatan   | UADY-CA 59: Genetic and Reproductive Health                  | In Consolidation | <b>Genetic and Reproductive Health.</b><br>The RG of Genetic and Reproductive Health has developed research of basic and clinical-epidemiological, biological, cultural and social  | <ul style="list-style-type: none"> <li>— CANTO CETINA THELMA ELENA</li> <li>— GARCÍA ESCALANTE MARÍA GUADALUPE</li> <li>— GONZALEZ HERRERA LIZBETH JOSEFINA</li> </ul>   |

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| <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Maternal and Child Health and Reproductive Health</p> <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p>        |  |                         | <p>factors involved in the process of human reproduction and family planning, the interaction of environmental factors with the human genome and variability in candidate genes as potential biomarkers of risk, that interact with multifactorial diseases.</p> | <ul style="list-style-type: none"> <li>— PINTO ESCALANTE DORIS DEL CARMEN <b>(LEADER OF THE RG)</b></li> <li>— POLANCO REYES LUCILA EDITH</li> <li>— RUBI CASTELLANOS RODRIGO</li> </ul>   |
| <p>36. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Neuroscience</p> <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p> | <p>UADY-CA 60: Integral Study of Functional and Degenerative CNS</p> | <p>In Consolidation</p> | <p><b>Brain Diseases.</b><br/>Brain diseases affecting the population: epilepsy, stroke, psychiatric diseases, and neurodegenerative disorders (Parkinson's disease and Alzheimer's disease).</p>  | <ul style="list-style-type: none"> <li>— ALVAREZ CERVERA FERNANDO JOSE</li> <li>— ARANKOWSKY SANDOVAL GLORIA MARGARITA</li> <li>— GARCIA MISS MARIA DEL ROSARIO</li> <li>— GONGORA ALFARO JOSE LUIS</li> <li>— HEREDIA LOPEZ FRANCISCO JOSE <b>(LEADER OF THE RG)</b></li> <li>— PINEDA CORTES JUAN CARLOS</li> <li>— SALGADO BURGOS HUMBERTO</li> </ul> |
| <p>37. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Nutrition and Feeding</p>  | <p>UADY-CA 61: Human Nutrition</p>                                   | <p>In Consolidation</p> | <p><b>Human Nutrition.</b><br/>Studies all aspects of human nutrition, from the social to individual.</p>  | <ul style="list-style-type: none"> <li>— CABRERA ARAUJO ZULEMA MORAYMA <b>(LÍDER DE CA)</b></li> <li>— HERNÁNDEZ ESCALANTE VÍCTOR MANUEL</li> <li>— MARÍN CÁRDENAS ALINA DIONÉ</li> </ul>  |

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| <p>Website: <a href="http://www.medicina.uady.mx/principal/m03canh.php">http://www.medicina.uady.mx/principal/m03canh.php</a></p>   |  |                         |  |  |
| <p>38. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Rehabilitation Medicine and Sports Medicine</p> <p>Website: <a href="http://www.medicina.uady.mx/principal/m03car.md.php">http://www.medicina.uady.mx/principal/m03car.md.php</a></p>  | <p>UADY-CA 62: Health, Movement and Disability</p> | <p>In Formation</p>     | <p><b>Health, Movement and Disability.</b><br/>Generate knowledge that provides feedback for Educational Programs in the areas of rehabilitation and sports medicine through educational research, health promotion and the study of the limiting aspects of the interaction of the sedentary individual or athlete with their environment, as well as optimizing the reintegration and social participation of people with or without disability or at risk of it.</p>  | <ul style="list-style-type: none"> <li>- BARRERO SOLÍS CLAUDIA LORENA <b>(LEADER OF THE RG)</b></li> <li>- HIJUELOS GARCÍA NAYELI ALEJANDRA</li> <li>- PEREZ PADILLA ELSY ARLENE</li> <li>- TUN COLONIA JOSÉ ANTONIO</li> <li>- OJEDA MANZANO ALEJANDRO</li> </ul> |
| <p>39. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p> <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Public Health</p> <p>Website: <a href="http://www.medicina.uady.mx/principal/m03casp.php">http://www.medicina.uady.mx/principal/m03casp.php</a></p> | <p>UADY-CA 63: Public Health</p>                   | <p>In Consolidation</p> | <p><b>Public Health.</b><br/>Study of the social determinants of human health and / or its degenerative process, from the perspective of public health. Understanding social determinants as those social, economic, political, cultural, and environmental determinants of health (WHO, 2011), among which stand out as positive: favorable environment, healthy lifestyles, favorable psychosocial factors and adequate health services. While the negatives are all those that put health at risk, they reduce the quality of life of people, causing disease and / or disability, at the same time that they directly affect the morbidity and mortality of the population. The approach to health problems from this perspective allows: a) Identifying health problems. b) Analyze all the determinants that affect the problem and c) Prioritize the main determinants that influence health.</p> | <ul style="list-style-type: none"> <li>- ESTRELLA CASTILLO DAMARIS FRANCIS</li> <li>- PEREZ HERRERA NORMA ELENA</li> <li>- RUBIO ZAPATA HECTOR ARMANDO</li> </ul>  |

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| <p>40. Autonomous University of Yucatan</p> <p>School of Psychology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Social and Community Psychology</p> <p>Website:</p>  | <p>UADY-CA 67: Social Psychology</p>                   | <p>In Consolidation</p> | <p>Culture, Personality y Psychosocial Processes.</p> <p>This line is aimed at the study of personality and psychosocial development processes of individuals and groups within a cultural context, as well as the development of social programs directed to the most relevant socio-community demands in the region.</p> | <ul style="list-style-type: none"> <li>– CORTES AYALA MARÍA DE LOURDES DE G.</li> <li>– FLORES GALAZ MIRTA MARGARITA <b>(LEADER OF THE RG)</b></li> <li>– MORALES MANRIQUE MARÍA TERESA</li> </ul>  |
| <p>41. Autonomous University of Yucatan</p> <p>School of Education</p> <p>Area: Education, Humanities and Art</p> <p>Discipline: Educational Policy</p> <p>Website: <a href="http://www.educacion.uady.mx/index.php?seccion=profesores&amp;enlace=administracion">http://www.educacion.uady.mx/index.php?seccion=profesores&amp;enlace=administracion</a></p> | <p>UADY-CA 68: Politics, Organizations and Society</p> | <p>Consolidated</p>     | <p>Politics, Organizations and Society.</p> <p>Study of educational organizations, their relationship with the environment, their main actors and the policies that impact their quality; as well as the study of social processes that promote an education for peace, inclusive and free of violence.</p>                | <ul style="list-style-type: none"> <li>– AGUILAR RIVEROLL ANGEL MARTIN</li> <li>– CISNEROS CHACON EDITH JULIANA <b>(LEADER OF THE RG)</b></li> <li>– DOMÍNGUEZ CASTILLO JOSÉ GABRIEL</li> <li>– ESPAÑA NOVELO JORGE NARCISO</li> <li>– RODRIGUEZ SOLIS GEOVANY</li> </ul> |
| <p>42. Autonomous University of Yucatan</p> <p>School of Education</p>  | <p>UADY-CA 69: Curriculum and Instruction</p>          | <p>Consolidated</p>     | <p>Teaching, Educational Innovation and Curriculum.</p> <p>Study of teaching and curriculum, including different teaching forms, modes and environments, curriculum design and</p>   | <ul style="list-style-type: none"> <li>– CANTO HERRERA PEDRO JOSE <b>(LEADER OF THE RG)</b></li> <li>– HEREDIA SOBERANIS NORMA GRACIELLA</li> <li>– MENDEZ OJEDA JOSE ISRAEL</li> </ul>   |

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| <p>Area: Education, Humanities and Art</p> <p>Discipline: Didactics</p> <p>Website: <a href="http://www.educacion.uady.mx/index.php?seccion=profesores&amp;enlace=curriculo">http://www.educacion.uady.mx/index.php?seccion=profesores&amp;enlace=curriculo</a></p>   |  |                         | <p>development, technological innovation, teacher training, professional ethic and the teaching of intercultural contexts.</p>   | <ul style="list-style-type: none"> <li>— PINTO SOSA JESUS ENRIQUE</li> <li>— QUIÑONEZ PECH SERGIO HUMBERTO</li> <li>— REYES CABRERA WILLIAM RENE</li> <li>— SANCHEZ ESCOBEDO PEDRO ANTONIO</li> </ul>  |
| <p>43. Autonomous University of Yucatan</p> <p>School of Economy</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: International Trade</p> <p>Website: <a href="http://www.economia.uady.mx/index.php?item=170&amp;cont=40&amp;type=4&amp;tema=3">http://www.economia.uady.mx/index.php?item=170&amp;cont=40&amp;type=4&amp;tema=3</a></p> | <p>UADY-CA 71: Trade and International Relations</p> | <p>In Consolidation</p> | <p>Theory and Practice of Trade and International Relations.<br/>Develop research projects with the aim of identifying the issues of trade and international relations, and to analyze trends in these trades and Mexico's relations with different regions.</p>   | <ul style="list-style-type: none"> <li>— ALONZO SOLIS JUAN FELIPE DE JESUS <b>(LEADER OF THE RG)</b></li> <li>— CAMPOS GARCIA MELCHOR JOSE</li> <li>— LEYVA MORALES CARLOS ENRIQUE DE ATOCHA</li> <li>— VELA MANZANILLA RAÚL ALONSO</li> </ul> |
| <p>44. Autonomous University of Yucatan</p> <p>School of Education</p> <p>Area: Education, Humanities and Art</p>   | <p>UADY-CA 72: Education and Orientation</p>         | <p>In Consolidation</p> | <p>Education Agents.<br/>Subjects or agents that are actively involved in the educational process and that play roles in different areas, educational levels and stages of this process. The main actors are: students, teachers, administrators and families. Understanding the different areas related to school, home and community; by educational level, with regard to basic and higher education, secondary and higher.</p> | <ul style="list-style-type: none"> <li>— DRUET DOMINGUEZ NORA VERONICA <b>(LEADER OF THE RG)</b></li> <li>— GUERRERO WALKER GLADYS JULIETA</li> <li>— MARTÍN PAVÓN MARIO JOSÉ</li> <li>— SEVILLA SANTO DORA ESPERANZA</li> </ul>               |

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| <p>Discipline: Education</p> <p>Website: <a href="http://www.educacion.uady.mx/index.php?seccion=profesores&amp;enlace=educacion">http://www.educacion.uady.mx/index.php?seccion=profesores&amp;enlace=educacion</a></p>   |   |                     | <p>Also, they refer to the diagnostic time, design, intervention and evaluation.</p>   |   |
| <p>45. Autonomous University of Yucatan</p> <p>Regional Research Centre “Dr. Hideyo Noguchi” Social Sciences Unit</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Social Anthropology</p> <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p> | <p>UADY-CA 73: Identity and Mayan Culture in Yucatan</p>                | <p>Consolidated</p> | <p><b>Studies on Identity and Mayan Culture in Yucatan.</b></p> <p>Studies of the Mayan people and their culture in order to seek to understand its logic and that are respectful and sensitive to their differences have been scarce. Therefore, from a self-critical, multidisciplinary and multicultural approach, this research aims to generate respectful knowledge of their identity and culture, its history, its current situation and aspirations that in addition to deepening their understanding, may result in tools and appropriate actions to support their knowledge, appreciation and full development as Maya. Research projects associated with the line, combines the social sciences, humanities and natural sciences and even incorporate themes and emerging approaches such as global citizenship, intercultural dialogue, decoloniality and biodiversity management to bring new perspectives to the study of Mayan people and culture, both in history and in its being and its contemporary manifestations. The self-critical nature of knowledge generation also involves constant monitoring of scientific production in Mexico and the world on these issues.</p> | <ul style="list-style-type: none"> <li>– DUARTE DUARTE ANA ROSA</li> <li>– EASTMOND SPENCER AMARELLA</li> <li>– KROTZ HEBERLE STEFAN GEORG</li> <li>– SÁNCHEZ SUÁREZ AURELIO</li> <li>– VILLANUEVA VILLANUEVA NANCY BEATRIZ <b>(LEADER OF THE RG)</b></li> <li>– CHAVEZ GUZMAN CARMEN MONICA</li> <li>– VICTORIA OJEDA JORGE</li> </ul> |
| <p>46. Autonomous University of Yucatan</p> <p>School of Dentistry</p> <p>Area: Health Sciences</p>  | <p>UADY-CA 79: Microbiology, Pathology and Dental Molecular Biology</p> | <p>Consolidated</p> | <p><b>General and Molecular Microbiology in Dentistry.</b></p> <p>Studies of epidemiological surveillance, molecular diagnosis and control of microorganisms associated with infectious diseases both in the oral cavity and its environment. As well as the study of physical</p>   | <ul style="list-style-type: none"> <li>– HERNÁNDEZ SOLÍS SANDRA ELENA</li> <li>– LAMA GONZÁLEZ ESPERANZA MERCEDES</li> <li>– RODRÍGUEZ FERNÁNDEZ MARÍA DEL SAGRADO CORAZÓN</li> <li>– RUEDA GORDILLO FLORENCIO <b>(LEADER OF THE RG)</b></li> </ul>   |

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| <p>Discipline: Medical Microbiology</p> <p>Website:</p>   |  |                         | <p>and chemical agents for the control of microorganisms associated with infectious processes, cross infections and environmental contamination.</p> <p><b>Epidemiology, Biology and Genetics of Oral Pathologies</b><br/>Epidemiological and experimental studies of oral pathologies, both infectious and noninfectious; And molecular and / or genetic studies for the study of their correlation and / or association with risk and environmental genetic factors.</p>   |  |
| <p>47. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Health and Environmental Science</p> <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p> | <p>UADY-CA 89: Health, Environment and Human Development</p> | <p>In Consolidation</p> | <p><b>Health and Human Development.</b><br/>The line of research of the RG is focused on the study of health and human development in the understanding that the health of populations cannot be considered in isolation but is determined by several factors, among which may be mentioned is the access to health services, the environment in which people live, infrastructure, human resources and others, namely, health and disease are closely related, as well as actions that are generated to the disease. The investigative work of the members of the RG is based on two pillars: the medical-social approach, and the multi and interdisciplinary work, with a view to transdiscipline, and its focus on human development of the populations studied. To achieve greater integration of the studies, the concept of sociocultural epidemiology was included, which makes a recasting of epidemiology, and takes elements from different disciplines have emerged since the eighties, to achieve a holistic view of health problems. It seeks to integrate the biological and social aspects through studies that explain the causes of problems by analyzing quantitative and qualitative information. The qualitative analysis is necessary to understand individual and collective meanings from the determining factors. The development of an integrated vision for studies from the biological and social sciences, is a challenge for the group. However,</p> | <ul style="list-style-type: none"> <li>— ANDUEZA PECH MARÍA GUADALUPE <b>(LEADER OF THE RG)</b></li> <li>— HOIL SANTOS JOLLY JOSEFINA</li> <li>— LENDECHY GRAJALES ANGEL CIRILO</li> <li>— OLIVA PEÑA YOLANDA</li> <li>— ORDOÑEZ LUNA MANUEL JESUS</li> <li>— RODRIGUEZ ANGULO ELSA MARIA</li> <li>— SANTANA CARVAJAL ANDRES MARTIN</li> </ul> |

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|  |   |                         | <p>it is believed that it is the way to overcome the partial and fragmented the problems facing society's knowledge. From this vision, the aim is to generate knowledge of biological, social, psychological, cultural, environmental, and political and gender, to mention the more general determinants. Moreover, this way of working, -multi and interdisciplinary, with a view to transdisciplinary, allows for the contribution to the faculties and campuses of UADY with an innovative methodology of work and socialization that will seek new knowledge through workshops and graduates in learning scenarios in order to encourage a participatory process for health prevention. With all of the above, we believe that the elements of university social responsibility will be reflected in the linkage of research projects in a real social environment, the social relevance of teaching and research in real learning scenarios, as well as in the Social management of knowledge.</p> |   |
| <p>48. Autonomous University of Yucatan</p> <p>School of Accounting and Administration</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Organizational Studies</p> <p>Website: <a href="http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad">http://www.contaduria.uady.mx/who-info.php?id=cuerpos-acad</a></p> | <p>UADY-CA 80: Creation, Assistance and Analysis of Organizations</p> | <p>In Consolidation</p> | <p><b>Transformation and Innovation in Organizations.</b></p> <p>The economy and international trade have entered profound changes, including the classic bilateral exchanges, which have developed and complicated making it difficult to forecast. The rules and regulations are no longer local or regional, but international, in the same organization, teams often have become multicultural. Management style has changed so. Communication and management must more than ever take into account these particularities and differences. All this has required new ways of thinking and acquiring knowledge, this line aims to analyze, reflect and propose, and incorporate into working groups to try to anticipate the complex evolution of knowledge.</p>  | <ul style="list-style-type: none"> <li>- ALONSO NOVELO VALENTÍN</li> <li>- BARREDO BAQUEIRO GUSTAVO ALBERTO <b>(LEADER OF THE RG)</b></li> <li>- BARRERA RAMIREZ LUIS MARTIN</li> <li>- SABIDO DOMINGUEZ TERESITA DE JESUS</li> <li>- SALAZAR CANTON JORGE RAMON</li> </ul> |
| <p>49. Autonomous University of Yucatan</p>  | <p>UADY-CA 81: Ecologic and Geographical</p>                          | <p>Consolidated</p>     | <p><b>Transmission Dynamics of Zoonotic Agents in the Yucatan Peninsula.</b></p>   | <ul style="list-style-type: none"> <li>- ESCOBEDO ORTEGÓN FRANCISCO JAVIER</li> <li>- REYES NOVELO ENRIQUE ALBERTO</li> </ul>   |

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| <p>Division of Health Sciences</p> <p>Area: Health Sciences</p> <p>Discipline: Tropical Diseases</p> <p>Website: <a href="http://www.cir.uady.mx/investigacion.php">http://www.cir.uady.mx/investigacion.php</a></p> | <p>Surveillance of Endemic, Emergent and Re-Emerging Zoonosis in the Peninsula of Yucatan</p> |  | <p>This line is designed for the comprehensive study of biological, ecological and geographical aspects, both arthropod vectors of vertebrate hosts that determine the transmission of zoonotic pathogens in different ecotopes where they occur. So that the generation of this knowledge allows for the understanding of the main mechanisms in which zoonotic pathogens are kept and transmitted to their different natural hosts, and their dispersion and transmission to the human population. The systematic acquisition and monitoring of this information will allow the development of strategies to prevent and control zoonotic diseases from a comprehensive and sustainable approach to the environment. In addition, using modern spatial and statistical analysis tools, it will be possible to develop predictive models of the occurrence of outbreaks of zoonotic infection in different geographic areas of the Yucatan Peninsula, in order to implement effective measures to mitigate its impact on public health.</p> <p><b>Host-Parasite Relation in Zoonotic Diseases.</b></p> <p>This line primarily addresses the basic molecular mechanisms involved in the interaction between zoonotic pathogens and their natural hosts, in order to understand the different defense strategies involved in this relationship. The answers given in these interactions, allow to know the vast playing guest roles in the cycles of zoonotic transmission, so that priorities may be established in the studio guest for the generation of efficient strategies that can reduce the transmission rate zoonotic pathogens to humans. This line also extends to the ecological-molecular interaction vector-host and vector-pathogen, which are key in the establishment of the different transmission cycles and in the efficiency of the transmission of the pathogens, respectively.</p> <p><b>Health Education for the Prevention of Transmissible Diseases, especially Zoonosis.</b></p> | <p>— RUIZ PIÑA HUGO ANTONIO (<b>LEADER OF THE RG</b>)</p> |
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|  |   |                     | In this line of research projects aimed at the efficient dissemination and implementation of educational strategies for different aspects of zoonotic diseases are developed. The main objective of this research is that communities take ownership of a basic knowledge that allows them to participate actively and naturally, in the prevention of major diseases that affect their quality of life, using the knowledge of their ancestors in harmony with its surroundings, its customs, its culture and its worldview. |   |
| <p>50. Autonomous University of Yucatan</p> <p>School of Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Electronics, Instrumentation and Control</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico_fi.php">https://www.ingenieria.uady.mx/personalacademico_fi.php</a></p> | <p>UADY-CA 84:<br/>Mechatronics</p>           | <p>Consolidated</p> | <p><b>Automation and Control of Systems.</b><br/>Generate and apply knowledge in the area of Mechatronics Engineering and integrate technologies in the areas of instrumentation and automation of mechatronic systems to solve problems of industrial engineering and manufacturing, electromechanical and instrumentation systems.</p>  | <ul style="list-style-type: none"> <li>– AVILÉS VIÑAS JAIME FRANCISCO</li> <li>– CASTILLO ATOCHE ALEJANDRO ARTURO <b>(LEADER OF THE RG)</b></li> <li>– CRUZ JIMENEZ BRAULIO JOSE</li> <li>– PALMA MARRUFO ORLANDO</li> <li>– PEÓN ESCALANTE RICARDO JAVIER</li> <li>– RICALDE CASTELLANOS LUIS JOSUÉ</li> <li>– VILLANUEVA LÓPEZ CÉSAR AUGUSTO</li> </ul> |
| <p>51. Autonomous University of Yucatan</p> <p>School of Anthropology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Archaeology</p>   | <p>UADY-CA 85:<br/>Archaeological Studies</p> | <p>Consolidated</p> | <p><b>Bioarchaeology.</b><br/>Analysis of Bioarchaeology.</p> <p><b>Archaeology of the Peninsular Mayan Area.</b><br/>Study of the Archeology of the Peninsular Mayan Area.</p>   | <ul style="list-style-type: none"> <li>– COBOS PALMA RAFAEL</li> <li>– CUCINA TIDEI ANDREA</li> <li>– FERNANDEZ SOUZA LILIA</li> <li>– HERNÁNDEZ ÁLVAREZ HÉCTOR</li> <li>– JIMÉNEZ ÁLVAREZ SOCORRO DEL PILAR</li> <li>– TIESLER BLOS VERA INGRID GUDRUN JANINE <b>(LEADER OF THE RG)</b></li> </ul>   |

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| <p>Website: <a href="http://www.antropologia.uady.mx/ca/areamaya/index.php">http://www.antropologia.uady.mx/ca/areamaya/index.php</a></p>  |   |                         |  |  |
| <p>52. Autonomous University of Yucatan</p> <p>School of Chemical Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Biotechnology</p> <p>Website: <a href="http://www.ingquimica.uady.mx/investigacion/grupos.php">http://www.ingquimica.uady.mx/investigacion/grupos.php</a></p> | <p>UADY-CA 87: Biotechnology y Bioengineering</p>   | <p>In Consolidation</p> | <p><b>Microbial Processes.</b><br/>A bioprocess is the methodology used by living organisms and / or its derivatives as catalysts of a transformation processes under controlled conditions. The development of microbial bioprocesses requires the integrated use of biochemistry, microbiology, biochemical engineering, genetic engineering and process engineering to obtain products and services of social and economic utility from microorganisms. In this line of research various aspects that influence significantly in the development or microbial bioprocess control are considered, such as isolation of new microorganisms or using microbial consortia, detection of metabolites or desired products, the conservation of the industrial microorganism isolated for stable production, the fermentation process design, improved isolates to increase performance, studying the interaction between microorganisms and their environment and the extraction and purification of microbial metabolites for products efficiently high quality. In addition there is also consideration in this research for those points of industrial processes in which the evaluation and control of the presence of microorganisms or their action constitutes an essential tool for quality assurance part of these production processes.</p> | <ul style="list-style-type: none"> <li>- CABAÑAS VARGAS DULCE DIANA (<b>LEADER OF THE RG</b>)</li> <li>- ROJAS HERRERA RAFAEL</li> <li>- RUIZ ESPINOZA JUAN ENRIQUE</li> <li>- ZEPEDA PEDREGUERA ALEJANDRO</li> </ul>  |
| <p>53. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Engineering and Technology</p>   | <p>UADY-CA 92: Computer Sciences (Tizimin Unit)</p> | <p>In Consolidation</p> | <p><b>Application Software Development.</b><br/>Development of software tools aimed at teaching-learning process, such as learning objects, animations in 2D and 3D simulation software and games to teach subjects from different educational levels (primary, secondary and higher). Software development for people with disabilities, for example: video games to support the rehabilitation of children with language problems, software to control a prototype electronic wheelchair, among others.</p>  | <ul style="list-style-type: none"> <li>- CANCHÉ EÚAN MAXIMILIANO</li> <li>- CHI PECH VÍCTOR MANUEL</li> <li>- GARCÍA GARCÍA MICHEL</li> <li>- GONZALEZ SEGURA CINHIA MARIBEL</li> <li>- GONZALEZ SEGURA SERGIO ALEJANDRO</li> <li>- LLANES CASTRO ERIKA ROSSANA</li> <li>- LOPEZ MARTINEZ JOSE LUIS (<b>LEADER OF THE RG</b>)</li> </ul> |

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| <p>Discipline: Computer Sciences</p> <p>Website: <a href="https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos">https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos</a></p>  |   |                         | <p><b>Application of New Computer Technologies.</b><br/>Training in the use of new technological tools aimed at teaching different subjects (workshops for teachers and students in which useful current tools are addressed in their academic work). Development and / or implementation of algorithms through new computational technologies for solving problems in various areas. Applications of artificial intelligence in solving problems such as algorithms implemented to control various devices.</p>   | <ul style="list-style-type: none"> <li>— MIRANDA PALMA CARLOS ANDRÉS</li> <li>— NARVÁEZ DÍAZ LIZZIE EDMEA</li> </ul>  |
| <p>54. Autonomous University of Yucatan</p> <p>School of Anthropology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Communication Sciences</p> <p>Website: <a href="http://www.antropologia.uady.mx/ca/ca_comunicacion/index.php">http://www.antropologia.uady.mx/ca/ca_comunicacion/index.php</a></p> | <p>UADY-CA 93: Communication, culture and society</p> | <p>In Formation</p>     | <p><b>Communication, culture and society in Yucatan.</b><br/>One of the great tasks of Social Communication has been to link their work to the promotion of a dignified, free and well-being life, particularly in countries or regions with high levels of poverty, serious deficiencies and inequalities that have deteriorated the quality of life of most people. The LGAC Communication, culture and society in Yucatan has sought to investigate, through basic and applied research, the phenomena and communicative problems that emerge in the new scenarios of contemporary societies and cultures in globalized contexts, specifically their local expressions. The complexity of these phenomena and problems require the interdisciplinary approach in which the exercise of communication as a scientific discipline stands out. Research on the opportunities for the development of Yucatecan youth, their relationship with school and information and communication technologies, their symbolic constructions and their support networks, share the vocation to contribute, from the field of communication and culture and relying on interdisciplinary methodologies, the well-being of vulnerable groups and social change in Yucatán.</p> | <ul style="list-style-type: none"> <li>— CASTILLO ROCHA CARMEN</li> <li>— CORTÉS CAMPOS ROCIO LETICIA</li> <li>— QUIROZ CARRANZA ROXANA</li> <li>— RIVERO PEREZ ASTRID KARINA</li> <li>— SIDOROVA KSENIA (<b>LEADER OF THE RG</b>)</li> </ul> |
| <p>55. Autonomous University of Yucatan</p>   | <p>UADY-CA 94: Tropical Floristic Products</p>        | <p>In Consolidation</p> | <p><b>Diversity and Conservation of Tropical Plant Resources.</b><br/>The study of the diversity of tropical vegetal resources is a priority for the conservation of the</p>   | <ul style="list-style-type: none"> <li>— ORTIZ DIAZ JUAN JAVIER (<b>LEADER OF THE RG</b>)</li> <li>— PINZÓN ESQUIVEL JUAN PABLO</li> <li>— TUN GARRIDO JUAN DE LA CRUZ</li> </ul>   |

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| <p>School of Veterinary Medicine</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Conservation and Management of Natural Resources</p> <p>Website: <a href="http://www.ccba.uady.mx/rft.php">http://www.ccba.uady.mx/rft.php</a></p>           |  |                     | <p>same and to maintain the ecological functionality in the tropical ecosystems.</p>   |   |
| <p>56. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Natural and Exact Sciences</p> <p>Discipline: Marine Biology</p> <p>Website: <a href="http://www.ccba.uady.mx/rmt.php">http://www.ccba.uady.mx/rmt.php</a></p> | <p>UADY-CA 95: Tropical Marine Resources</p>                         | <p>Consolidated</p> | <p><b>Management of Tropical Marine Resources.</b><br/>In this line of knowledge, management and conservation of marine protected areas (MPAs) arises. In general, in the coastal zone of Yucatan, looking for community integration in the use and conservation of these resources. Understanding by integration, the traditional use of resources and their adaptation to new operating models. These new models will be supported by the existing knowledge of biodiversity in the Yucatan and use is made of it. For which innovative tools such as genetics and molecular biology are used.</p> | <ul style="list-style-type: none"> <li>— DIAZ GAMBOA RAUL ENRIQUE</li> <li>— GONZÁLEZ SALAS CARLOS FRANCISCO</li> <li>— GUILLEN HERNANDEZ SERGIO (<b>LEADER OF THE RG</b>)</li> <li>— POOT LOPEZ GASPAR ROMAN</li> </ul>        |
| <p>57. Autonomous University of Yucatan</p> <p>School of Anthropology</p> <p>Area: Social and Administrative Sciences</p>  | <p>UADY-CA 96: Studies on Cultural Practices and Representations</p> | <p>Consolidated</p> | <p><b>Cultural Practices and Representations in Yucatan and the Caribbean.</b><br/>Analyze the heterogeneity of practices related to imagination, production, circulation and consumption of consumer goods associated with the culture of the peninsula of Yucatan and its relations with the Caribbean practices.</p>  | <ul style="list-style-type: none"> <li>— AYORA DIAZ STEFFAN IGOR (<b>LEADER OF THE RG</b>)</li> <li>— FERNANDEZ REPETTO FRANCISCO JAVIER</li> <li>— ITURRIAGA ACEVEDO EUGENIA</li> <li>— VARGAS CETINA ROSA GABRIELA</li> </ul> |

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| <p>Discipline: Anthropology</p> <p>Website: <a href="https://sites.google.com/site/representacionesculturales/">https://sites.google.com/site/representacionesculturales/</a></p>   |   |                         |  |   |
| <p>58. Autonomous University of Yucatan</p> <p>School of Anthropology</p> <p>Area: Education, Humanities and Art</p> <p>Discipline: History</p> <p>Website: <a href="http://www.antropologia.uady.mx/ca/historia_su_reste/index.php">http://www.antropologia.uady.mx/ca/historia_su_reste/index.php</a></p> | <p>UADY-CA 100: History of the Southeast of Mexico</p>                      | <p>In Consolidation</p> | <p>Society and Institutions.<br/>Study the different historical processes that occurred in the Yucatan from different perspectives; the social composition and the development of regional institutions from the political-administrative; economic and religious views; authorities and socio-ethnic groups that make up society.</p> | <ul style="list-style-type: none"> <li>— CAMARA GUTIERREZ GUADALUPE DEL CARMEN</li> <li>— MIRANDA OJEDA PEDRO</li> <li>— ZABALA AGUIRRE MARÍA DEL PILAR <b>(LEADER OF THE RG)</b></li> </ul>                    |
| <p>59. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Engineering and Technology</p> <p>Discipline: Mathematical Computation</p>  | <p>UADY-CA 101: Modeling and Computer Simulating in Intelligent Systems</p> | <p>Consolidated</p>     | <p>Machine Learning and Computational Vision.<br/>Development of innovative computational solutions in the fields of machine learning, image processing and computer vision.</p>   | <ul style="list-style-type: none"> <li>— BRITO LOEZA CARLOS FRANCISCO</li> <li>— ESPINOSA ROMERO ARTURO</li> <li>— LEGARDA SÁENZ RICARDO <b>(LEADER OF THE RG)</b></li> <li>— MARTIN GONZALEZ ANABEL</li> </ul> |

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| Website: <a href="http://www.clir-lab.org/">http://www.clir-lab.org/</a>   |   |                  |  |  |
| 60. Autonomous University of Yucatan<br><br>Division of Health Sciences<br><br>Area: Health Sciences<br><br>Discipline: Epidemiology<br><br>Website: <a href="http://www.medicina.uady.mx/principal/m03caeertr.php">http://www.medicina.uady.mx/principal/m03caeertr.php</a> | UADY-CA 104:<br>Endemic, Emerging and Re-Emerging Diseases in Tropical Region | In Consolidation | <b>Basic and Epidemiological Aspects of Endemic, Emerging and Re-Emerging Diseases in the Tropical Region.</b><br>In tropical regions there are patterns of life conditioned by economic, cultural and social factors, proprietary of them, coupled with the tropical ecosystem that provide special features to both endemic diseases such as emerging and re-emerging, like deficiency, infectious and parasitic among other, which results in a profile of different magnitude and different geographical areas of significance. This makes it necessary to perform basic and epidemiological studies of infectious and parasitic emerging and prevailing in the region, to contribute to the implementation of measures to prevent and control diseases. Programs where the group works are currently leptospirosis, Rickettsial, TB, trypanosomiasis, toxoplasmosis, Hantavirus Pulmonary Syndrome and Erlichiasis. | <ul style="list-style-type: none"> <li>– CARDENAS MARRUFO MARIA FIDELIA</li> <li>– JIMENEZ DELGADILLO BERTHA MARIA GUADALUPE</li> <li>– PENICHE LARA GASPAR FERNANDO <b>(LEADER OF THE RG)</b></li> <li>– PEREZ OSORIO CARLOS ENRIQUE</li> </ul> |
| 61. Autonomous University of Yucatan<br><br>School of Law<br><br>Area: Social and Administrative Sciences<br><br>Discipline: Law<br><br>Website:   | UADY-CA 106:<br>Multidisciplinary and Tridimensional Vision of Law            | Consolidated     | <b>Law and Social Reality.</b><br>Its aim is to analyze the various legal issues that exist in the reality of society in the state of Yucatan and make proposals for prevention and solutions from the multidisciplinary point of view. At first the phenomenon of domestic violence will be discussed establishing the causes and factors that influence their origin and later other legal problems of social relevance will be analyzed to achieve the harmonious development of the state as well as peace and social security.  | <ul style="list-style-type: none"> <li>– CARBALLO SOLÍS LUCELY MARTINA</li> <li>– MACEDONIO HERNÁNDEZ CARLOS ALBERTO <b>(LEADER OF THE RG)</b></li> <li>– MENDEZ FERNANDEZ MELBA ANGELINA</li> <li>– DZIB AGUILAR JOSÉ PAULINO</li> </ul>        |
| 62. Autonomous University of Yucatan   | UADY-CA 107:<br>Psychosocial Processes and Praxis                             | Consolidated     | <b>Socio-formative Inclusion and Exclusion Processes.</b>  | <ul style="list-style-type: none"> <li>– CARRILLO TRUJILLO CARLOS DAVID <b>(LEADER OF THE RG)</b></li> <li>– ECHEVERRÍA ECHEVERRÍA REBELÍN</li> <li>– EVIA ALAMILLA NANCY MARINE</li> </ul>  |

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| <p>School of Psychology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Psychology</p> <p>Website:</p>  |  |                     | <p>Based on our training in the fields of social psychology, social anthropology and education, we have focused our interests in one area, namely: the problems related to the social inclusion and exclusion of certain social and community groups (indigenous people, women, children, migrants, people with disabilities, homosexual people, people with obesity, the elderly, people with addiction problems, mainly). We understand social exclusion as the process by which individuals or groups are totally or partially excluded from full participation in the society in which they live (European Foundation, 1995: 4). According to theorists such as Chakravarty and D'Ambrosio (2003) and Ziccardi (2004), social exclusion takes shape in different dimensions or fields such as: human rights, gender equality, security and peace in environments free of violence, integral development; as well as the presence of prejudices, stereotypes and discriminatory social, political, institutional or ethno-linguistic practices in which some social groups such as those mentioned above are found. For its part, we understand social inclusion as the process that favors and promotes in people their role as active subjects for the construction and reconstruction of their social reality.</p> |   |
| <p>63. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Agricultural Sciences</p> <p>Discipline: Agricultural Sciences</p> <p>Website: <a href="http://www.ccba.uady.mx/nrmat.php">http://www.ccba.uady.mx/nrmat.php</a></p> | <p>UADY-CA 108:<br/>Ruminants Nutrition and Environment in the Tropics</p> | <p>Consolidated</p> | <p><b>Animal Production and Ecological Interactions in Silvopastoral Systems.</b></p> <p>At present, proposals for dealing with the problem of global climate change should be a priority for all governments. The traditional ranching has been responsible for clearing large tracts of forests and tropical forests for the implementation of grazing areas. It has also indicated that ruminant production involves the emission to the atmosphere of large volumes of greenhouse gases such as methane and carbon dioxide. In this sense, such incorporations are associations of trees, fodder shrubs and grasses that allow economic production of milk and meat in a favorable environment for the animal and in a "friendly" to the environment. Ecological interactions (air-soil-plant-animal) foster a proper</p>  | <ul style="list-style-type: none"> <li>— AGUILAR PEREZ CARLOS FERNANDO</li> <li>— KU VERA JUAN CARLOS</li> <li>— RAMIREZ Y AVILES LUIS</li> <li>— SOLORIO SANCHEZ FRANCISCO JAVIER<br/><b>(LEADER OF THE RG)</b></li> </ul> |

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|  |                                       |                  | <p>recycling of nutrients and a decrease in ambient temperature.</p> <p><b>Evaluation of Food Resources for the Ruminant Production in the Tropics.</b><br/>Livestock develops in about 60% of the territory of Mexico. Tropical regions represent 27% of the country and it is estimated that in these 44% of meat and 20% of the milk consumed in the country is produced. In the tropics, there is a high availability of agro-products and countless plant species that could be used for the feeding of ruminants. The study of such resources would bring benefits to the producer and the consumer of animal products, to reduce the cost of cattle feed, which has traditionally been fed fodder introduced requiring high inputs, as well as cereal grains, which are becoming more expensive and less available for use in livestock.</p> |   |
| <p>64. Autonomous University of Yucatan</p> <p>School of Veterinary Medicine</p> <p>Area: Agricultural Sciences</p> <p>Discipline: Agricultural Sciences</p> <p>Website: <a href="http://www.ccba.uady.mx/pem.php">http://www.ccba.uady.mx/pem.php</a></p> | UADY-CA 109: Minor Species Production | Consolidated     | <p><b>Nutrition, Health and their Interaction in the Production of Minor Species.</b><br/>Minor productive species have great potential in their production systems on a small and medium scale. This group of animals are mainly poultry, rabbits, pigs and small ruminants. Health and nutrition play an important role in the production systems of small animals. Good nutritional status is often associated with good health, and in turn good health status increases the nutritional efficiency in animals. Also, nutrition represents the highest production costs in the minor species percentage, so the evaluation of local inputs available, the study of power systems, and disease, but especially diseases that affect the digestive system and the productive efficiency of small animals is of great importance.</p>              | <ul style="list-style-type: none"> <li>— SANDOVAL CASTRO CARLOS ALFREDO</li> <li>— SANTOS RICALDE RONALD HERVE (<b>LÍDER DE CA</b>)</li> <li>— SARMIENTO FRANCO LUIS ARMANDO</li> </ul> |
| <p>65. Autonomous University of Yucatan</p> <p>School of Psychology</p>  | UADY-CA 110: School and Welfare       | In Consolidation | <p><b>Welfare Development in School Settings.</b><br/>This research aims to establish the fundamental mechanisms to improve teaching and learning in schools; focusing on the characteristics of the main actors (students and teachers) of this scenario. Given the multicultural family</p>   | <ul style="list-style-type: none"> <li>— AGUAYO CHAN JORGE CARLOS</li> <li>— ESPEJEL LÓPEZ MARTHA VANESSA</li> <li>— PINTO LORÍA MARÍA DE LOURDES</li> </ul>                            |

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| <p>Area: Social and Administrative Sciences</p> <p>Discipline: Psychology</p> <p>Website:</p>  |  |                         | <p>background and socio-educational demands; the former, in order to respond to the main problems of the education sector. Mechanisms such as self-regulation, creative problem solving or social-emotional development, among others, have become basic aspects to promote life skills and / or skills that require students to move successfully across the challenges of school. In this sense, the transformation and diversification of teaching practice needs to be relevant to these challenges. All this, on the way to achieve sustainability in psychological terms, leading to a life of greater welfare, understood as a life of tranquility and human satisfaction. The purpose of this line is aimed at generating proposals for action to address the socio-educational demands and challenges of school. The latter, based on the pillars of education proposed by UNESCO: learning to learn, learning to do, learning to be and learning to live together.</p> |  |
| <p>66. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Engineering and Technology</p> <p>Discipline: Computer Science</p> <p>Website: <a href="https://intranet.maticas.uady.mx/ca-terco/">https://intranet.maticas.uady.mx/ca-terco/</a></p> | <p>UADY-CA 111:<br/>Emerging Computer Technologies</p> | <p>In Consolidation</p> | <p>Distributed and Parallel Systems.<br/>Research and technological development aimed at generating knowledge for the integration of applications in distributed computing systems and / or parallel.</p>  | <ul style="list-style-type: none"> <li>— BASTO DÍAZ LUIS RAMIRO</li> <li>— GÓMEZ MONTALVO JORGE RICARDO</li> <li>— MADERA RAMÍREZ FRANCISCO ALEJANDRO (<b>LEADER OF THE RG</b>)</li> <li>— MOO MENA FRANCISCO JOSÉ</li> <li>— RÍOS MARTÍNEZ JORGE ALBERTO</li> </ul> |
| <p>67. Autonomous University of Yucatan</p> <p>School of Nursing</p>   | <p>UADY-CA 112:<br/>Chronicity and Public Health</p>   | <p>Consolidated</p>     | <p>Chronic Conditions and Public Health.<br/>Chronic conditions are health problems that require ongoing care for a period of several years or decades and that are acquired in the course of life; they are events that could be</p>  | <ul style="list-style-type: none"> <li>— CANDILA CELIS JULIA ALEJANDRA</li> <li>— GÓMEZ AGUILAR PATRICIA ISOLINA DEL SOCORRO (<b>LEADER OF THE RG</b>)</li> <li>— YAM SOSA ANTONIO VICENTE</li> </ul>  |

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| Area: Health Sciences<br>Discipline: Nursing<br>Website: <a href="http://www.enfermeria.uady.mx/posgrado/investigacion_2019.pdf">http://www.enfermeria.uady.mx/posgrado/investigacion_2019.pdf</a> |  |                  | avoided or postponed and that after installed, need permanent care.   |   |
| 68. Autonomous University of Yucatan<br>School of Dentistry<br>Area: Health Sciences<br>Discipline: Odontology<br>Website:   | UADY-CA 113: Child and Adolescent Dentistry      | In Consolidation | Stomatological Prevention, Intervention and Monitoring of children and adolescents.<br>The aim of the research that is done is the Stomatological prevention, intervention and monitoring of children and adolescents.  | <ul style="list-style-type: none"> <li>— ÁGUILAR AYALA FERNANDO JAVIER <b>(LEADER OF THE RG)</b></li> <li>— PINZON TE ALICIA LEONOR</li> <li>— REJON PERAZA MARINA EDUVIGES</li> <li>— SERRANO PIÑA RODRIGO</li> </ul>  |
| 69. Autonomous University of Yucatan<br>School of Dentistry<br>Area: Health Sciences<br>Discipline: Odontology<br>Website:   | UADY-CA 114: Craniofacial Growth and Development | In Consolidation | Epidemiology and Treatment of Dentomaxillofacial Anomalies.<br>Develops studies on craniofacial characteristics of the population of southeastern Mexico, looking to this knowledge through established mechanisms of attention to changes in growth and development in the craniofacial in line with these characteristics and to increase the effectiveness of such treatments. | <ul style="list-style-type: none"> <li>— AGUILAR PÉREZ FERNANDO JAVIER</li> <li>— ALONZO ECHEVERRIA MARÍA LEONOR</li> <li>— COLOMÉ RUIZ GABRIEL EDUARDO</li> <li>— ESCOFFIÉ RAMÍREZ MAURICIO</li> <li>— HERRERA ATOCHE JOSÉ RUBÉN <b>(LÍDER DE CA)</b></li> <li>— PEREZ TRACONIS LAURA BEATRIZ</li> <li>— ZÚÑIGA HERRERA IVÁN DANIEL</li> </ul> |
| 70. Autonomous University of Yucatan<br>School of Dentistry  | UADY-CA 115: Endodontics                         | Consolidated     | Epidemiology and Treatment of Pulp and Morphological Variations Pathologies of the Pulp Cavity.<br>This group generates research on the diseases that affect the dental pulp and periapical tissues   | <ul style="list-style-type: none"> <li>— ALVARADO CÁRDENAS GABRIEL</li> <li>— LOPEZ VILLANUEVA MARIA EUGENIA <b>(LEADER OF THE RG)</b></li> <li>— RAMÍREZ SALOMÓN MARCO ANTONIO</li> <li>— VEGA LIZAMA ELMA MARIA</li> </ul>  |

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| Area: Health Sciences<br>Discipline: Endodontics<br>Website:   |  |                     | associated, as well as technical, instrumental, emerging treatments and anatomic variations that influence conventional therapy.   |   |
| 71. Autonomous University of Yucatan<br><br>School of Dentistry<br><br>Area: Health Sciences<br><br>Discipline: Odontology<br><br>Website: | UADY-CA 116:<br>Restorative Dentistry                    | In<br>Consolidation | Epidemiology, Diagnosis and Treatment of Occlusal Rehabilitation. It develops studies on Epidemiology, Diagnosis and Treatment of Occlusal Rehabilitation.   | <ul style="list-style-type: none"> <li>– CARDENAS EROSA RUBEN ARMANDO <b>(LEADER OF THE RG)</b></li> <li>– CORTES CARRILLO DAVID RAFAEL</li> <li>– LUGO ANCONA PEDRO ERNESTO</li> <li>– MENDIBURU ZAVALA CELIA ELENA DEL PERPETUO SOCORRO</li> <li>– PEÑALOZA CUEVAS RICARDO</li> </ul> |
| 72. Autonomous University of Yucatan<br><br>School of Dentistry<br><br>Area: Health Sciences<br><br>Discipline: Odontology<br><br>Website: | UADY-CA 117:<br>Periodontics                             | In<br>Consolidation | Epidemiology and Treatment of Periodontal Diseases. Conduct studies on major periodontal diseases, evaluation and action mechanisms in towns of the Mexican southeast, thus generating basic knowledge about them that establish appropriate mechanisms for the attention to these entities and thus develop specific techniques for the aforementioned population, to increase the effectiveness of therapeutics and future restoration of damage caused by these diseases. | <ul style="list-style-type: none"> <li>– CARRILLO AVILA BERTHA ARELLY</li> <li>– CASTILLO BOLIO RUBÉN</li> <li>– MARTINEZ AGUILAR VICTOR MANUEL <b>(LÍDER DE CA)</b></li> <li>– SAURI ESQUIVEL EDUARDO ALMIGAR</li> </ul>   |
| 73. Autonomous University of Yucatan<br><br>School of Architecture   | UADY-CA 118:<br>Architecture, Technology and Environment | In<br>Consolidation | Sustainable Technologies for Habitat and Social Production of Assisted Living. Aspects of the treatment of municipal solid waste, environmental education, bioclimatic and experimentation and transfer of sustainable   | <ul style="list-style-type: none"> <li>– CONTRERAS MANZANILLA ADRIAN RENE</li> <li>– ROMÁN KALISCH MANUEL ARTURO</li> <li>– RUIZ Y SABIDO RUBI ELINA</li> </ul>   |

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| <p>Area: Engineering and Technology</p> <p>Discipline: Urbanism</p> <p>Website:</p>  |  |                         | <p>building technologies in general and particularly inexpensive are studied. As part of the new university development program there is a particular commitment to the Social Responsibility line. The group is participating in research projects focused on social problems in rural areas which correspond to the architect, but also is thought to intervene in urban areas.</p>   |   |
| <p>74. Autonomous University of Yucatan</p> <p>School of Engineering</p> <p>Area: Engineering and Technology</p> <p>Discipline: Energy</p> <p>Website: <a href="https://www.ingenieria.uady.mx/personalacademico.fi.php">https://www.ingenieria.uady.mx/personalacademico.fi.php</a></p> | <p>UADY-CA 119: Renewable Energies and Energy Sustainability</p> | <p>Consolidated</p>     | <p><b>Renewable Energy Engineering and its applications.</b><br/>This line of research is dedicated to the study of systems that involve renewable energy in order to generate knowledge and technology that are reflected in the social, economic and educational sectors of the region, through a better understanding and use of them. In particular it considers issues such as characterization, transformation, quality analysis, management, efficient use, sustainability, among others, of Renewable Energy systems.</p>   | <ul style="list-style-type: none"> <li>— ALI BASSAM (<b>LEADER OF THE RG</b>)</li> <li>— ESCALANTE SOBERANIS MAURICIO ALBERTO</li> <li>— FLOTA BAÑUELOS MANUEL ISRAEL</li> </ul>  |
| <p>75. Autonomous University of Yucatan</p> <p>School of Psychology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Psychology</p> <p>Website:</p>  | <p>UADY-CA 120: Social Justice</p>                               | <p>In Consolidation</p> | <p><b>Social Justice for Individuals, Families and Communities.</b><br/>This line of research considers the current state of the state and the country, with high needs related to poverty levels, social and economic inequality, the lack of opportunities, the existence of endemic violence and the different vulnerabilities that exist at the psychosocial level; from there that the research line consists of basic and applied research on issues related to strengthening the empowerment of people, families and communities in vulnerable situations, with a community clinic approach.</p> | <ul style="list-style-type: none"> <li>— ÁLVAREZ CUEVAS SILVIA MARÍA</li> <li>— AYORA TALAVERA DORA ADOLFINA</li> <li>— CAMPO MARÍN TERESITA CONCEPCIÓN</li> <li>— CASTILLO LEON MARÍA TERESITA DEL NIÑO JESÚS (<b>LEADER OF THE RG</b>)</li> <li>— PEÑA CASTILLO REYNA FARIDE</li> </ul> |

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| <p>76. Autonomous University of Yucatan</p> <p>School of Mathematics</p> <p>Area: Engineering and Technology</p> <p>Discipline: Applied Computing</p> <p>Website: <a href="https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos">https://www.matematicas.uady.mx/personal-academico/cuerpos-academicos</a></p> | <p>UADY-CA 121: Software Engineering for Education</p>                    | <p>In Consolidation</p> | <p><b>Software Engineering</b><br/>This line is responsible for the study of methods, techniques, tools and good practices related to software development and management processes, as well as those for training human resources for the discipline.</p> <p><b>Educational informatics.</b><br/>This line is responsible for the development of innovative educational applications, as well as the study of their uses, effects and consequences in the educational process.</p>   | <ul style="list-style-type: none"> <li>– AGUILAR VERA RAÚL ANTONIO (<b>LEADER OF THE RG</b>)</li> <li>– DÍAZ MENDOZA JULIO CÉSAR</li> <li>– UCAN PECH JUAN PABLO</li> </ul>   |
| <p>77. Autonomous University of Yucatan</p> <p>School of Anthropology</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Social</p> <p>Website: <a href="http://www.antropologia.uady.mx/facultad/ca.php">http://www.antropologia.uady.mx/facultad/ca.php</a></p>   | <p>UADY-CA 122: Multidisciplinary Studies for Sustainable Development</p> | <p>In Formation</p>     | <p><b>Sustainable Development, Culture and Society.</b><br/>21st century societies face a set of changes and challenges that require the synergy of various areas of knowledge. Under this consideration, we propose to generate multidisciplinary studies of the transformations and channels of local and global development, and evaluate their environmental, social, territorial, economic and cultural impacts on societies, whether rural or urban, starting from sustainable development as one of the most important objectives.</p> | <ul style="list-style-type: none"> <li>– ACUÑA GALLARETA ALMA ROSA</li> <li>– BOLIO ROSADO MARÍA ISABEL</li> <li>– GARCIA GOMEZ CARMEN (<b>LEADER OF THE RG</b>)</li> <li>– LARA NAVARRETE ILEANA BEATRIZ</li> <li>– PEREZ SANCHEZ MARÍA MILAGROSA</li> </ul> |
| <p>78. Autonomous University of Yucatan</p> <p>Division of Health Sciences</p>  | <p>UADY-CA 123: Food, Nutrition and Health</p>                            | <p>In Consolidation</p> | <p><b>Biological, psychological, and social determinants of diet and their impact on lifestyle.</b><br/>Evaluation of the determinants that influence diet in order to generate and apply intervention</p>  | <ul style="list-style-type: none"> <li>– ARANDA GONZÁLEZ IRMA ISELA</li> <li>– AVILA ESCALANTE MARÍA LUISA (<b>LEADER OF THE RG</b>)</li> <li>– CRUZ BOJORQUEZ REYNA MARIA</li> <li>– PEREZ IZQUIERDO JUANITA ODETTE</li> </ul>                               |

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| <p>Area: Health Sciences</p> <p>Discipline: Nutrition</p> <p>Website:</p>   |   |                         | <p>strategies to promote health, prevent and treat diseases of clinical relevance in the region and the country and improve the lifestyle of different sectors of society.</p>  |   |
| <p>79. Autonomous University of Yucatan</p> <p>School of Economy</p> <p>Area: Social and Administrative Sciences</p> <p>Discipline: Economy</p> <p>Website:</p> | <p>UADY-CA 124: Economic Development and Sustainability</p> | <p>In Consolidation</p> | <p>Economic development, sustainability, and political processes.</p> <p>This line of research allows to contribute to the generation of scientific knowledge in scenarios of global changes and strategies with local implications, on the management of natural resources, ecosystem services, biocultural heritage and waste from human activities through the design and implementation of public policies that contribute to reorienting the economy to a path of sustainable development.</p> | <ul style="list-style-type: none"> <li>- ALBORNOZ MENDOZA LILIAN</li> <li>- BECERRIL GARCÍA JAVIER (<b>LEADER OF THE RG</b>)</li> <li>- CANTO SAENZ RODOLFO ARMANDO</li> <li>- ORTIZ PECH RAFAEL</li> </ul> |