

	Professor	SNII Level	Research line and topics of interest.
1	Dr. Sergio Alberto Bernal Chávez	I	Non-conventional pharmaceutical products' development, characterization and evaluation. Application of class II and class IV pharmaceuticals with transdermic, dermic, ocular, rectal and vaginal applications for chronic-degenerative diseases. Use of nanotechnology for development, characterization and evaluation of cosmetic products.
2	Dr. Felipe Córdova Lozano	I	Development of nanomaterials for organic and inorganic removal of residual water contaminants. Synthesis of nanofibers of polymeric materials and nano catalysts based on nanoparticles and nanofibers of metal oxides doped with different elements for Redox reactions of organic compounds.
3	Dr. Luis Ricardo Hernández	II	Chemistry of plant derived natural compounds, biologic activity of secondary metabolites of plants, micro- and nano-encapsulation of active metabolites.
4	Dr. José Daniel Lozada Ramírez	I	Obtention and stabilization of bioactive substances. Obtention and application of microbial enzymes for biotechnological purposes.
5	Dr. Miguel Ángel Méndez Rojas	III	Nanoscience and nanotechnology with biomedical application (Nanomedicine). Synthesis, characterization and evaluation of nanomaterials for biomedical applications (controlled drug delivery, medical image acquisition, biosensors, etc). Evaluation of toxic interaction between nanomaterials and biological systems with medical and environmental interest.
6	Dr. Eugenio Sánchez Arreola	II	Obtention and identification of natural compounds with biological activities.
7	Dra. Mónica Cerro López	II	Development of nanostructured nanomaterials based on metallic oxides and carbon derivatives with electrocatalytic and photocatalytic activity for application as biosensors. Study of catalytic processes to be used as water contaminant chelates.
8	Dr. Wanderson Maia Pimenta	I	Trapping, manipulation, and mechanical, electrical, and optical characterization of nanomaterials and biological systems using an optical tweezer apparatus and structured light.
9	Dra. Aura Matilde Jiménez Garduño	I	Biophysics of immune system cells, study of neutrophils during chronic inflammation in chronic-degenerative diseases and study of oxidative status and its effects on immune cells and ion channels.
10	Dra. Lucila Isabel Castro Pastrana	II	Pharmacy surveillance, Eco-pharmacy surveillance. Study of prescription and usage patterns of drugs in hospitals. Identification of genetic markers associated to drug response variability. Study of strategies for the amelioration of antimicrobials hospital resistance.
11	Dra. Erika Palacios Rosas	I	Rational use and security of drugs and proper medical indications. Evaluation of different pharmacological responses and its association with psychosocial therapeutic challenges. Non- communicable diseases, life and health quality of vulnerable populations.

12	Dra. Laura Marissa Islas Romero	C	Nutrition and Biotechnology, study of organisms with probiotic activity and antimicrobial agents used for the treatment of gastrointestinal and chronic-degenerative diseases.
13	Dra. Taisa Sabrina Silva Pereira	I	Research focused on the prevention and treatment of chronic non-communicable diseases (NCDs) through the analysis of food consumption and dietary patterns. Evaluation of clinical status and its relationship with social and environmental determinants, measuring the impact on the health of different population groups.
14	Dra. Natalia Ramírez Girón	I	Multilevel socio-ecological approach, from different strata of social organization of the adult at risk and with type 2 diabetes, obesity and overweight (diabesity). Creation and validation of measurement instruments.
15	Dr. Mario Jiménez Hernández	C	Evaluation of therapeutic interventions and biomarkers in patients with chronic kidney disease, heart failure, and those undergoing renal replacement therapy. Studies on inflammation, endothelial dysfunction, vascular remodeling, and advanced cardiometabolic strategies (SGLT2 inhibitors, finerenone, magnesium, probiotics, and intraluminal solutions). Integration of clinical, imaging, and molecular data to optimize cardiovascular and renal outcomes
16	Dr. Jaime Iván Arévalo Villalobos	I	Development, characterization and preclinical analysis of vaccine prototypes for human and veterinary use on next generation platforms.