



## **GABRIEL ISAAC CORKIDI BLANCO**

### **Datos Generales**

**Nombre:** GABRIEL ISAAC CORKIDI BLANCO

**Máximo nivel de estudios:** POSDOCTORADO

**Antigüedad académica en la UNAM:** 42 años

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### **Nombramientos**

**Vigente:** INVESTIGADOR TITULAR C TC Definitivo  
Instituto de Biotecnología  
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

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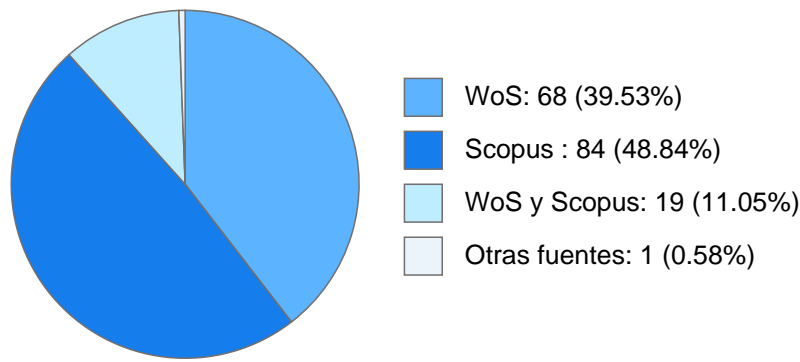
### **Estímulos, programas, premios y reconocimientos**

SNI II - 2024  
PRIDE C 2016 - 2024  
PRIDE D - 2016  
RDUNJA Innovación tecnológica y diseño industrial 1995

## GABRIEL ISAAC CORKIDI BLANCO

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Computation of Human-Sperm Local Flagellar Instantaneous Velocity	JOSE DE JESUS FERNANDO MONTOYA NAVA ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO et al.	IFMBE Proceedings	2024
2	Feature-based 3D+t descriptors of hyperactivated human sperm beat patterns	JIMENA OLVERES MONTIEL BORIS ESCALANTE RAMIREZ GABRIEL ISAAC CORKIDI BLANCO et al.	Heliyon	2024
3	A three-dimensional extension of the slope chain code: analyzing the tortuosity of the flagellar beat of human sperm	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO ERNESTO BRIBIESCA CORREA et al.	PATTERN ANALYSIS AND APPLICATIONS	2024
4	Use of the Java programming language for digital-automated counting from <i>Aedes aegypti</i> (Linnaeus, 1762) (Diptera: Culicidae) eggs images	JOSE DE JESUS FERNANDO MONTOYA NAVA GABRIEL ISAAC CORKIDI BLANCO Walter Eduardo Quezada-Yaguachi et al.	REVISTA CHILENA DE ENTOMOLOGIA	2024
5	Reorganization of the flagellum scaffolding induces a sperm standstill during fertilization	CLAUDIA SANCHEZ CARDENAS JOSE LUIS DE LA VEGA BELTRAN GABRIEL ISAAC CORKIDI BLANCO et al.	eLife	2024
6	Artifacts Generated by the 3D Rotation of a Freely-Swimming Human Sperm in the Measurement of Intracellular Ca <sup>2+</sup>	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO Bribiesca-Sánchez A. et al.	IFMBE Proceedings	2023

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7	A Measure of Tortuosity for 3D Curves: Identifying 3D Beating Patterns of Sperm Flagella	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO ERNESTO BRIBIESCA CORREA et al.	Lecture Notes in Computer Science	2023
8	Human sperm rotate with a conserved direction during free swimming in four dimensions	GABRIEL ISAAC CORKIDI BLANCO NEIL CHARLES BRUCE DAVIDSON ALBERTO DARSZON ISRAEL et al.	JOURNAL OF CELL SCIENCE	2023
9	3D+t feature-based descriptor for unsupervised flagellar human sperm beat classification	JOSE DE JESUS FERNANDO MONTOYA NAVA JIMENA OLVERES MONTIEL ALBERTO DARSZON ISRAEL et al.	IEEE Engineering in Medicine and Biology Society Conference Proceedings	2022
10	Live Plant Cell Tracking: Fiji plugin to analyze cell proliferation dynamics and understand morphogenesis	YAMEL SONIA UGARTECHEA CHIRINO ALEJANDRO VASQUEZ ARZOLA BERENICE GARCIA PONCE DE LEON et al.	PLANT PHYSIOLOGY	2022
11	Long-term segmentation-free assessment of head-flagellum movement and intracellular calcium in swimming human sperm	GABRIEL ISAAC CORKIDI BLANCO ALBERTO DARSZON ISRAEL Paul Hernandez-Herrera et al.	JOURNAL OF CELL SCIENCE	2021
12	RETRACTION: Human sperm uses asymmetric and anisotropic flagellar controls to regulate swimming symmetry and cell steering (Retraction of Vol 6, art no EABA5168, 2021)	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO Hermes Gadelha et al.	Science Advances	2021
13	Role of calcium oscillations in sperm physiology	CLAUDIA SANCHEZ CARDENAS JULIO CESAR CHAVEZ ZAMORA CLAUDIA LYDIA TREVIÑO SANTA CRUZ et al.	Biosystems	2021
14	Role of calcium oscillations in sperm physiology (vol 209, 104524, 2021)	CLAUDIA SANCHEZ CARDENAS JULIO CESAR CHAVEZ ZAMORA ADAN OSWALDO GUERRERO CARDENAS et al.	Biosystems	2021
15	Device for experimental characterization of the 4D flow inside an evaporating sessile water droplet	GABRIEL ISAAC CORKIDI BLANCO A. Bribiesca F. Montoya et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2020
16	Local bubble size distribution in a pilot scale stirred tank containing a mycelial (three phases) dispersion as a function of constant retrofitted gassed power input	GABRIEL ISAAC CORKIDI BLANCO ENRIQUE GALINDO FENTANES Holguín-Salas A.	BIOCHEMICAL ENGINEERING JOURNAL	2020
17	Human sperm uses asymmetric and anisotropic flagellar controls to regulate swimming symmetry and cell steering	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO Hermes Gadelha et al.	Science Advances	2020

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18	From one cell to many: Morphogenetic field of lateral root founder cells in Arabidopsis thaliana is built by gradual recruitment	GABRIEL ISAAC CORKIDI BLANCO Torres-Martínez H.H. Hernández-Herrera P. et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2020
19	3-D + t Human Sperm Flagellum Tracing in Low SNR Fluorescence Images	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO Paul Hernandez-Herrera et al.	IEEE TRANSACTIONS ON MEDICAL IMAGING	2018
20	Intracellular Ca <sup>2+</sup> threshold reversibly switches flagellar beat off and on	CLAUDIA SANCHEZ CARDENAS ARTURO HERNANDEZ CRUZ GABRIEL ISAAC CORKIDI BLANCO et al.	BIOLOGY OF REPRODUCTION	2018
21	Erratum: Longitudinal zonation pattern in Arabidopsis root tip defined by a multiple structural change algorithm (Annals of Botany (2016) 118 (763-776) DOI: 10.1093/aob/mcw101)	GABRIEL ISAAC CORKIDI BLANCO Pacheco-Escobedo M.A. Ivanov V.B. et al.	ANNALS OF BOTANY	2017
22	Are there intracellular Ca <sup>2+</sup> oscillations correlated with flagellar beating in human sperm? A three vs. two-dimensional analysis	GABRIEL ISAAC CORKIDI BLANCO CLAUDIA LYDIA TREVIÑO SANTA CRUZ ALBERTO DARSZON ISRAEL et al.	MOLECULAR HUMAN REPRODUCTION	2017
23	Air and oil dispersions in a four-phase fermentation model, studied under varying physicochemical conditions and retrofitted constant gassed power input	GABRIEL ISAAC CORKIDI BLANCO ENRIQUE GALINDO FENTANES Brito-Bazan, M. et al.	CHEMICAL ENGINEERING RESEARCH & DESIGN	2017
24	Root hydrotropism and thigmotropism in Arabidopsis thaliana are differentially controlled by redox status	GEORGINA PONCE ROMERO GABRIEL ISAAC CORKIDI BLANCO LUIS CARDENAS TORRES et al.	PLANT SIGNALING & BEHAVIOR	2017
25	Sperm flagellum center-line tracing in fluorescence 3D+t low SNR stacks using an iterative minimal path method	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO Hernandez-Herrera, P. et al.	Lecture Notes in Computer Science	2017
26	Evaporation dynamics and sedimentation pattern of a sessile particle laden water droplet	GABRIEL ISAAC CORKIDI BLANCO GUILLERMO HERNANDEZ CRUZ EDUARDO RAMOS MORA et al.	EXPERIMENTS IN FLUIDS	2016
27	Longitudinal zonation pattern in Arabidopsis root tip defined by a multiple structural change algorithm	GABRIEL ISAAC CORKIDI BLANCO IOSSIF DOUBROVSKI JANKOVSKY ADRIANA GARAY ARROYO et al.	ANNALS OF BOTANY	2016

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28	Hydrodynamics, Fungal Physiology, and Morphology	LEOBARDO SERRANO CARREON ENRIQUE GALINDO FENTANES J. A. RochaValadez et al.	Advances in Biochemical Engineering-Biotechnology	2015
29	Gradient-Direction-Pattern Transform for Automated Measurement of Oil Drops in Images of Multiphase Dispersions	Alfonso RojasDominguez Alehli HolguinSalas ENRIQUE GALINDO FENTANES et al.	CHEMICAL ENGINEERING & TECHNOLOGY	2015
30	Foam production and hydrodynamic performance of a traditional Mexican molinillo (beater) in the chocolate beverage preparation process	Alehli HolguinSalas Diana LopezLopez GABRIEL ISAAC CORKIDI BLANCO et al.	FOOD AND BIOPRODUCTS PROCESSING	2015
31	Littoral zooplankton?water hyacinth interactions: habitat or refuge?	AIDEE MONTIEL MARTINEZ JORGE CIROS PEREZ GABRIEL ISAAC CORKIDI BLANCO	Hydrobiologia	2015
32	Viability characterization of Taxus chinensis plant cell suspension cultures by rapid colorimetric- and image analysis-based techniques	JAIME ARTURO PIMENTEL CABRERA GABRIEL ISAAC CORKIDI BLANCO Wucherpfennig, Thomas et al.	BIOPROCESS AND BIOSYSTEMS ENGINEERING	2014
33	A segmentation algorithm for automated tracking of fast swimming unlabelled cells in three dimensions	JAIME ARTURO PIMENTEL CABRERA ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO et al.	JOURNAL OF MICROSCOPY	2012
34	Visualization of compound drops formation in multiphase processes for the identification of factors influencing bubble and water droplet inclusions in oil drops	GABRIEL ISAAC CORKIDI BLANCO A. Rojas JAIME ARTURO PIMENTEL CABRERA et al.	CHEMICAL ENGINEERING RESEARCH & DESIGN	2012
35	Strategies for locating the female gamete: the importance of measuring sperm trajectories in three spatial dimensions	ADAN OSWALDO GUERRERO CARDENAS JAIME ARTURO PIMENTEL CABRERA CHRISTOPHER DAVID WOOD et al.	MOLECULAR HUMAN REPRODUCTION	2011
36	17 beta-Oestradiol Indirectly Inhibits Thyrotrophin-Releasing Hormone Expression in the Hypothalamic Paraventricular Nucleus of Female Rats and Blunts Thyroid Axis Response to C	ROSA MARIA URIBE VILLEGAS M. Zacarias GABRIEL ISAAC CORKIDI BLANCO et al.	JOURNAL OF NEUROENDOCRINOLOGY	2009
37	Mechanical vibration compensation method for 3D+t multi-particle tracking in microscopic volumes	JAIME ARTURO PIMENTEL CABRERA GABRIEL ISAAC CORKIDI BLANCO	Proceedings Of The 31st Annual International Conference Of The IEEE Engineering In Medicine And Biology Society:	2009

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38	Visualization of pseudocaverns in stirred vessels	GABRIEL ISAAC CORKIDI BLANCO GUILLERMO HERNANDEZ CRUZ EDUARDO RAMOS MORA et al.	Journal of Engineering Science and Technology	2009
39	Accurate determination of embedded particles within dispersed elements in multiphase dispersions, using a 3D micro-stereoscopic vision system	GABRIEL ISAAC CORKIDI BLANCO T. Voinson BLANCA ITZELT TABOADA RAMIREZ et al.	CHEMICAL ENGINEERING SCIENCE	2008
40	An optical approach for identifying the nature and the relative 3D spatial position of components of complex structures formed in multiphase dispersion systems	MARIA SOLEDAD CORDOVA AGUILAR JOSE RUFINO DIAZ URIBE O. Escobar et al.	CHEMICAL ENGINEERING SCIENCE	2008
41	Tracking sperm in three-dimensions	GABRIEL ISAAC CORKIDI BLANCO BLANCA ITZELT TABOADA RAMIREZ CHRISTOPHER DAVID WOOD et al.	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	2008
42	High-speed visualization of multiphase dispersions in a mixing tank	Eliane Guevara Lopez Rene Sanjuan Galindo Ma. Soledad Cordova Aguilar et al.	CHEMICAL ENGINEERING RESEARCH & DESIGN	2008
43	A comparison of image deconvolution algorithms applied to the detection of endocytic vesicles in fluorescence images of neural proteins.	LETICIA VEGA ALVARADO GABRIEL ISAAC CORKIDI BLANCO Elezgaray I. et al.	IEEE Engineering in Medicine and Biology Society Conference Proceedings	2007
44	Assessing mango anthracnose using a new three-dimensional image-analysis technique to quantify lesions on fruit	GABRIEL ISAAC CORKIDI BLANCO BLANCA ITZELT TABOADA RAMIREZ LEOBARDO SERRANO CARREON et al.	PLANT PATHOLOGY	2006
45	Semi-automatic image analysis methodology for the segmentation of bubbles and drops in complex dispersions occurring in bioreactors	BLANCA ITZELT TABOADA RAMIREZ LETICIA VEGA ALVARADO MARIA SOLEDAD CORDOVA AGUILAR et al.	EXPERIMENTS IN FLUIDS	2006
46	Application of a stereoscopic vision system for the accurate measure of air bubbles density trapped in oil drops in a model fermentation system	MARIA SOLEDAD CORDOVA AGUILAR GABRIEL ISAAC CORKIDI BLANCO ENRIQUE GALINDO FENTANES	Aiche Annual Meeting, Conference Proceedings	2005

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47	6-Pentyl- $\alpha$ -pyrone production by trichoderma harzianum: The influence of energy dissipation rate and its implications on fungal physiology	GABRIEL ISAAC CORKIDI BLANCO CELIA FLORES OCAMPO ENRIQUE GALINDO FENTANES et al.	BIOTECHNOLOG Y AND BIOENGINEERIN G	2005
48	Micro-stereoscopic vision system for the determination of air bubbles and aqueous droplets content within oil drops in simulated processes of multiphase fermentations	MARIA SOLEDAD CORDOVA AGUILAR ENRIQUE ISIDORO GALINDO NAVA GABRIEL ISAAC CORKIDI BLANCO et al.	Proceedings Of International Conference On 3-D Digital Imaging And Modeling, 3dim	2005
49	Online sauter diameter measurement of air bubbles and oil drops in stirred bioreactors by using hough transform	LETICIA VEGA ALVARADO MARIA SOLEDAD CORDOVA AGUILAR BLANCA ITZELT TABOADA RAMIREZ et al.	Lecture Notes in Computer Science	2004
50	Production of 6-pentyl- $\alpha$ -pyrone by Trichoderma harzianum cultured in unbaffled and baffled shake flasks	ENRIQUE GALINDO FENTANES CELIA FLORES OCAMPO GABRIEL ISAAC CORKIDI BLANCO et al.	BIOCHEMICAL ENGINEERING JOURNAL	2004
51	Automatic tracking and analysis system for free-swimming bacteria	BLANCA ITZELT TABOADA RAMIREZ SEBASTIAN POGGIO GHILARDUCCI ROSA LAURA CAMARENA MEJIA et al.	IEEE Engineering in Medicine and Biology Society Conference Proceedings	2003
52	Hough transform based method for air bubbles and oil drops segmentation in dispersions occurring in stirred bioreactors	LETICIA VEGA ALVARADO BLANCA ITZELT TABOADA RAMIREZ GABRIEL ISAAC CORKIDI BLANCO et al.	IEEE Engineering in Medicine and Biology Society Conference Proceedings	2003
53	Oil and air dispersion in a simulated fermentation broth as a function of mycelial morphology	GABRIEL ISAAC CORKIDI BLANCO Lucatero S. Larralde-Corona C.P. et al.	BIOTECHNOLOG Y PROGRESS	2003
54	A no hydrotropic response root mutant that responds positively to gravitropism in Arabidopsis	MARIA EUGENIA CAMPOS TORRES GEORGINA PONCE ROMERO GABRIEL ISAAC CORKIDI BLANCO et al.	PLANT PHYSIOLOGY	2003
55	Characterization of Azotobacter vinelandii aggregation in submerged culture by digital image analysis	CARLOS FELIPE PEÑA MALACARA GABRIEL ISAAC CORKIDI BLANCO ENRIQUE GALINDO FENTANES et al.	FEMS MICROBIOLOGY LETTERS	2002
56	Accurate and rapid viability assessment of Trichoderma harzianum using fluorescence-based digital image analysis	GABRIEL ISAAC CORKIDI BLANCO ENRIQUE GALINDO FENTANES CELIA FLORES OCAMPO et al.	BIOTECHNOLOG Y AND BIOENGINEERIN G	2002

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57	Inter-chromosome texture as a feature for automatic identification of metaphase spreads	LETICIA VEGA ALVARADO JORGE ALBERTO MARQUEZ FLORES GABRIEL ISAAC CORKIDI BLANCO	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	2002
58	Automatic identification of metaphase spreads and nuclei using neural networks	FERNANDO ARAMBULA COSIO LIBIA VEGA LOYO ALBERTO ARTURO HERRERA BECERRA et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	2001
59	The N terminus of FliM is essential to promote flagellar rotation in Rhodobacter sphaeroides	SEBASTIAN POGGIO GHILARDUCCI AURORA VENTURA OSORIO FRANCO GABRIEL ISAAC CORKIDI BLANCO et al.	JOURNAL OF BACTERIOLOGY	2001
60	Differential responses of thyrotropin-releasing hormone (TRH) neurons to cold exposure or suckling indicate functional heterogeneity of the TRH system in the paraventricular nucleus of the rat hypothalamus	ROSA MARIA URIBE VILLEGAS GABRIEL ISAAC CORKIDI BLANCO MIGUEL CISNEROS RAMIREZ et al.	Neuroendocrin ology	2001
61	A neural network based workstation for automated cell proliferation analysis	FERNANDO ARAMBULA COSIO LIBIA VEGA LOYO ALBERTO ARTURO HERRERA BECERRA et al.	Annual Reports Of The Research Reactor Institute, Kyoto University	2001
62	Automatic metaphase finding by inter-chromosome extrema profile analysis	LETICIA VEGA ALVARADO JORGE ALBERTO MARQUEZ FLORES GABRIEL ISAAC CORKIDI BLANCO	Annual Reports Of The Research Reactor Institute, Kyoto University	2001
63	Inter-extrema profile analysis for a texture coarseness estimate in automatic metaphase finding	LETICIA VEGA ALVARADO JORGE ALBERTO MARQUEZ FLORES GABRIEL ISAAC CORKIDI BLANCO	International Symposium On Image And Signal Processing And Analysis, Ispa	2001
64	Biochemical characterization of rotavirus receptors in MA104 cells	GABRIEL ISAAC CORKIDI BLANCO SUSANA LOPEZ CHARRETON CARLOS FEDERICO ARIAS ORTIZ et al.	JOURNAL OF VIROLOGY	2000



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65	Erratum: Roughness feature of metaphase chromosome spreads and nuclei for automated cell proliferation analysis (Medical and Biological Engineering and Computing (1998) 36 (679-685))	GABRIEL ISAAC CORKIDI BLANCO LIBIA VEGA LOYO JORGE ALBERTO MARQUEZ FLORES et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	1999
66	COVASIAM: An image analysis method that allows detection of confluent microbial colonies and colonies of various sizes for automated counting	GABRIEL ISAAC CORKIDI BLANCO JOSE RUFINO DIAZ URIBE JORGE LUIS FOLCH MALLOL et al.	APPLIED AND ENVIRONMENTA L MICROBIOLOGY	1998
67	Roughness feature of metaphase chromosome spreads and nuclei for automated cell proliferation analysis	GABRIEL ISAAC CORKIDI BLANCO LIBIA VEGA LOYO JORGE ALBERTO MARQUEZ FLORES et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	1998
68	Topographic relationship of neurotensin-containing axon terminals with cardiac and noncardiac principal ganglion cells in the stellate ganglia of the cat	MARIA ELENA ZETINA ROSALES GABRIEL ISAAC CORKIDI BLANCO MIGUEL ANGEL MORALES MENDOZA et al.	Synapse	1997
69	Limits of variation of fiber distribution in the sural nerve of man	GABRIEL ISAAC CORKIDI BLANCO SILVIA RUIZ VELASCO ACOSTA Ortiz A. et al.	Archives Of Medical Research	1997
70	NADPH-diaphorase-stained neurons after experimental epilepsy in rats	MARIA GUADALUPE MARTINEZ LORENZANA GABRIEL ISAAC CORKIDI BLANCO MIGUEL CONDES Y LARA et al.	NITRIC OXIDE-BIOLOGY AND CHEMISTRY	1997
71	Expression of the proprotein convertases PC1 and PC2 mRNAs in thyrotropin releasing hormone neurons of the rat paraventricular nucleus of hypothalamus	GABRIEL ISAAC CORKIDI BLANCO PATRICIA ILEANA JOSEPH BRAVO ROSA MARIA URIBE VILLEGAS et al.	BRAIN RESEARCH	1997
72	Three-dimensional analysis of the arrangement of compact chromatin in the nucleus of G0 rat lymphocytes	GABRIEL LOPEZ VELAZQUEZ JORGE ALBERTO MARQUEZ FLORES ERNESTINA UBALDO PEREZ et al.	HISTOCHEMISTR Y AND CELL BIOLOGY	1996
73	Phenotypic changes induced by replating of early post-natal rat chromaffin cells	SYLVIA LETICIA VERDUGO DIAZ GABRIEL ISAAC CORKIDI BLANCO RENE RAUL DRUCKER COLIN et al.	NEUROSCIENCE LETTERS	1995
74	Mossy fibers of the hippocampal formation in prenatal malnourished rats.	LEON FEDERICO CINTRA MC GLONE AZUCENA RUTH AGUILAR VAZQUEZ GABRIEL ISAAC CORKIDI BLANCO et al.	Boletín De Estudios Médicos Y Biológicos	1995

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75	Effects of prenatal malnutrition and postnatal nutritional rehabilitation on CA3 hippocampal pyramidal cells in rats of four ages	SOFIA YOLANDA DIAZ MIRANDA GABRIEL ISAAC CORKIDI BLANCO LEON FEDERICO CINTRA MC GLONE et al.	BRAIN RESEARCH	1994
76	Blockade of the cholinergic system during the female's rat infantile period stimulates follicular growth but not stimulatory feedback of oestrogen	GABRIEL ISAAC CORKIDI BLANCO ROBERTO DOMINGUEZ CASALA Sapiro R.	MED SCI RES	1994
77	Erratum: Technical note (Medical and Biological Engineering and Computing (1993) 31,4 (432-437))	GABRIEL ISAAC CORKIDI BLANCO JORGE ALBERTO MARQUEZ FLORES Usisima R. et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	1994
78	Cartographic system for spatial distribution analysis of corneal endothelial cells	GABRIEL ISAAC CORKIDI BLANCO JORGE ALBERTO MARQUEZ FLORES SOFIA YOLANDA DIAZ MIRANDA et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	1994
79	Comparison between low frequency magnetic field stimulation and nerve growth factor treatment of cultured chromaffin cells, on neurite growth, noradrenaline release, excitable properties, and grafting in nigrostriatal lesioned rats	RENE RAUL DRUCKER COLIN SYLVIA LETICIA VERDUGO DIAZ JOSE DAMIAN CARRILLO RUIZ et al.	MOLECULAR AND CELLULAR NEUROSCIENCE	1994
80	Erratum	GABRIEL ISAAC CORKIDI BLANCO JORGE ALBERTO MARQUEZ FLORES Usisima R. et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	1994
81	Effect of protein malnutrition on CA3 hippocampal pyramidal cells in rats of three ages	SOFIA YOLANDA DIAZ MIRANDA LEON FEDERICO CINTRA MC GLONE GABRIEL ISAAC CORKIDI BLANCO et al.	BRAIN RESEARCH	1993
82	Automated in vivo and online morphometry of human corneal endothelium	GABRIEL ISAAC CORKIDI BLANCO JORGE ALBERTO MARQUEZ FLORES Usisima R. et al.	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	1993
83	APPLICATIONS OF DELTA MODULATION IN TELEMEDICINE.	GABRIEL ISAAC CORKIDI BLANCO Martin-del-Campo F.	IEEE Engineering in Medicine and Biology Society Conference Proceedings	1984



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**Simplificación de la Gestión Institucional**  
**Reporte individual**



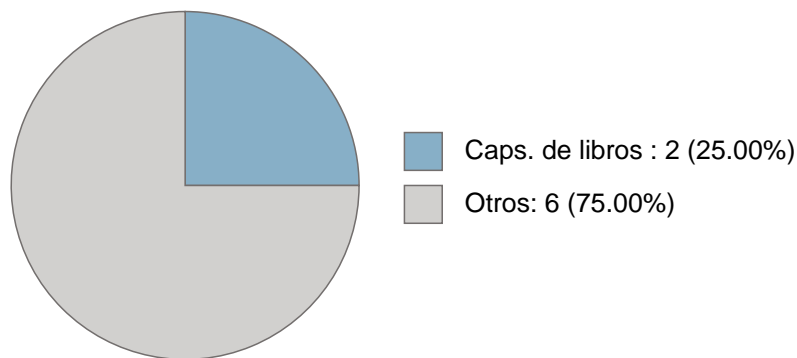
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84	Opto-electronic system for automatic track counting in plastic SSNTD	GABRIEL ISAAC CORKIDI BLANCO Flores R. Ortiz L. et al.	Nuclear Instruments And Methods In Physics Research	1983
85	OPTO-ELECTRONIC SYSTEM FOR AUTOMATIC TRACK COUNTING IN PLASTIC SSNTD.	GABRIEL ISAAC CORKIDI BLANCO Flores R. Ortiz L. et al.	Nuclear Tracks	1983

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### LIBROS Y CAPITULOS CON ISBN

#### Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Human Sperm Flagellar 3D Fractal Dimension as Hyperactivation Indicator	JOSE DE JESUS FERNANDO MONTOYA NAVA ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO et al.	Conferenc e Paper	2025	9783031821226
2	Sperm Flagellum Center-Line Tracing in Fluorescence 3D+t Low SNR Stacks Using an Iterative Minimal Path Method	ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO	Capítulo de un Libro	2017	9783319598765
3	Hydrodynamics, Fungal Physiology, and Morphology	LEOBARDO SERRANO CARREON GABRIEL ISAAC CORKIDI BLANCO ENRIQUE GALINDO FENTANES	Capítulo de un Libro	2015	9783319205113
4	Imaging of the 3D dynamics of flagellar beating in human sperm	JAIME ARTURO PIMENTEL CABRERA ALBERTO DARSZON ISRAEL GABRIEL ISAAC CORKIDI BLANCO et al.	Conferenc e Paper	2014	9781424479290
5	Automated recognition of oil drops in images of multiphase dispersions via gradient direction pattern	GABRIEL ISAAC CORKIDI BLANCO Rojas Domínguez A.	Conferenc e Paper	2011	9781424493067



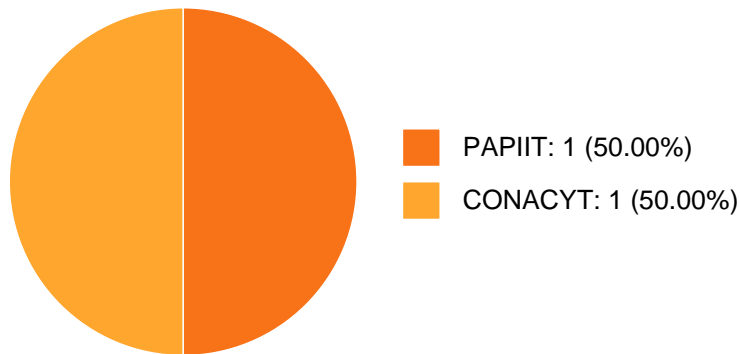
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6	Three dimensional template matching segmentation method for motile cells in 3D+t video sequences	JAIME ARTURO PIMENTEL CABRERA GABRIEL ISAAC CORKIDI BLANCO	Conferenc e Paper	2010	9781424441235
7	Toward automated detection of oil drops in images of multiphase dispersions	GABRIEL ISAAC CORKIDI BLANCO Rojas Domínguez A.	Conferenc e Paper	2009	978088986803 8
8	Three-dimensional image acquisition system for multi-sperm tracking	GABRIEL ISAAC CORKIDI BLANCO BLANCA ITZELT TABOADA RAMIREZ CHRISTOPHER DAVID WOOD et al.	Conferenc e Paper	2008	9781424420032

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**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Distribución local del Ca <sup>2</sup> intracelular en el flagelo del espermatozoide humano activado e hiperactivado batiendo tridimensionalmente: desarrollo de nuevos algoritmos de microscopía tridimensional de alta velocidad y sensibilidad.	GABRIEL ISAAC CORKIDI BLANCO	Recursos CONACYT	29-09-2016	27-05-2020
2	Análisis tridimensional del batido flagelar del espermatozoide humano activado e hiperactivado: desarrollo de nuevos métodos y algoritmos de rastreo y análisis en microscopía tridimensional	GABRIEL ISAAC CORKIDI BLANCO	Recursos PAPIIT	01-01-2022	31-12-2024



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**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**GABRIEL ISAAC CORKIDI BLANCO**

**PARTICIPACIÓN EN TESIS**

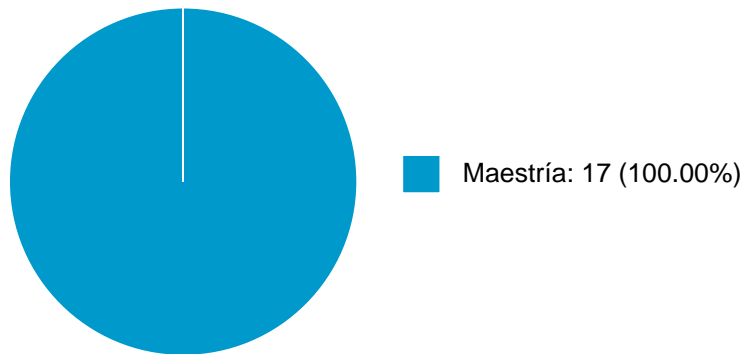
**No se encuentran registros en la base de datos de TESIUNAM asociados a:**

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**DOCENCIA IMPARTIDA**

**Histórico de docencia**



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	SEMINARIO PARA LA OBTENCIÓN DEL GRADO	Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas	1	2022-1
2	Maestría	COLOQUIO DE INVESTIGACIÓN I	Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas	17	2021-2
3	Maestría	SEMINARIO PARA LA OBTENCIÓN DEL GRADO	Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas	12	2021-2
4	Maestría	COLOQUIO DE INVESTIGACIÓN II	Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas	12	2021-1
5	Maestría	TRABAJO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2021-1
6	Maestría	TRABAJO DE INVESTIGACIÓN III	Instituto de Biotecnología	1	2021-1
7	Maestría	TRABAJO DE INVESTIGACIÓN II	Instituto de Biotecnología	1	2020-2
8	Maestría	TRABAJO DE INVESTIGACIÓN II	Instituto de Biotecnología	1	2020-2
9	Maestría	TRABAJO DE INVESTIGACION III-313543	Instituto de Biotecnología	1	2017-1
10	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2016-2
11	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2014-2
12	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2014-1





**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



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13	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2013-2
14	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2013-1
15	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2010-2
16	Maestría	TRABAJO DE INVESTIGACION II	Instituto de Biotecnología	1	2010-1
17	Maestría	TRABAJO DE INVESTIGACION III	Instituto de Biotecnología	1	2009-1



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**Reporte individual**



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**PATENTES**

**No se encuentran registros en la base de datos de patentes asociados a:**

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**FUENTES DE INFORMACIÓN**

**Internos**

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2024
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

**Externos**

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024