**UNIVERSIDADE ESTADUAL DE MARINGÁ**

**PROGRAMA DE PÓS-GRADUAÇÃO EM BIOCIÊNCIAS E FISIOPATOLOGIA**

|  |
| --- |
| PROGRAMA DA DISCIPLINA |

|  |  |  |  |
| --- | --- | --- | --- |
| **CÓDIGO**: DAC4072  **NOME**: Imunologia e imunodiagnóstico de doenças infecciosas  **CURSO**: Mestrado e Doutorado | | | |
| CRÉDITOS | | | CARGA HORÁRIA TOTAL:  **45 horas** |
| **TOTAL: 03** | PRÁTICOS: | TEÓRICOS: 03 |
| PRÉ-REQUISITOS: | | | CO-REQUISITOS: |

**EMENTA:**

Mecanismos imunológicos envolvidos na proteção e na patogenia de doenças causadas por vírus, bactérias e protozoários e de métodos laboratoriais avançados para o imunodiagnóstico destas doenças.

**PROGRAMA:**

* Estudo dos mecanismos de imunidade inata, das respostas imunes adquiridas, dos mecanismos de evasão e da imunopatogenia em doenças humanas causadas por bactérias, vírus e protozoários.
* Métodos imunológicos utilizados no diagnóstico de doenças infecciosas enfocando a aplicabilidade e evolução das técnicas.

**BIBLIOGRAFIA:**

* S. Nutten, A. Schumann, D. Donnicola, A. Mercenier, S. Rami, and C. L. Garcia-Rodenas. Antibiotic Administration Early in Life Impairs Specific Humoral Responses to an Oral Antigen and Increases Intestinal Mast Cell Numbers and Mediator Concentrations. Clinical and Vaccine Immunology, 14(2): 190-197, 2007
* Samuel Moore, Esme K. Farley, Peter C. Fusco, and Francis Michon. Specificity of the Immune Response to a Modified Group B Meningococcal Polysaccharide Conjugate Vaccine. Clinical and Vaccine Immunology, 14(1), 106–109, 2007
* Nikvash RS. Detection of Helicobacter pylori antigen in stool samples for diagnosis of infection in children. East Mediterr Health J. 13(5):1067-72, 2007.
* Machado GA, Santiago [FM, Mineo JR, Costa-Cruz JM.](http://www.ncbi.nlm.nih.gov/pubmed/17949403?ordinalpos=15&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) Assessment of antigenic fractions of varying hydrophobicity from Taenia solium metacestodes for the diagnosis of human neurocysticercosis. Trop Med Int Health. 12(11):1369-76, 2007.
* [Sadjjadi SM, Abidi H, Sarkari B, Izadpanah A, Kazemian S.](http://www.ncbi.nlm.nih.gov/pubmed/17767016?ordinalpos=25&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) Evaluation of enzyme linked immunosorbent assay, utilizing native antigen B for serodiagnosis of human hydatidosis. Iran J Immunol. 4(3):167-72, 2007.
* [Mansour D, Abass EM, El Mutasim M, Mahamoud A, El Harith A.](http://www.ncbi.nlm.nih.gov/pubmed/17942614?ordinalpos=94&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) Use of a newly developed beta-mercaptoethanol enzyme-linked immunosorbent assay to diagnose visceral leishmaniasis in patients in eastern Sudan. Clin Vaccine Immunol. 14(12):1592-5, 2007.
* Yoneyama KAG, Peder LD, Lonardoni MVC Silveira TGV. Diagnosis of American Cutaneous Leishmaniasis by Enzyme Immunoassay in Patients from Northern Paraná State, Brazil. The Brazilian Journal of Infectious Diseases. 11(3), 2007
* Saha S, Mondal S, Banerjee A, Ghose Ja, Bhowmick S & Ali N. Immune responses in kala-azar. Indian J Med Res 123, 245-266, 2006.
* Carla Pagliari, Elaine R. Fernandes, Fernanda Guedes, Cleiton Alves & Mirian N. Sotto. Role of mast cells as IL10 producing cells in Paracoccidioidomycosis skin Lesions. Mycopathologia, 162: 331–335, 2006
* Abbas KA, lichtman AH. Imunologia Celular e Molecular. Rio de janeiro: Elsevier, 5ª. edição. 579 p. 2005.
* González-Navajas JM, Lee J, David M, Raz E. [Immunomodulatory functions of type I interferons.](http://www.ncbi.nlm.nih.gov/pubmed/22222875) Nat Rev Immunol. 12(2): 125-35, 2012.
* [Macedo AB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Macedo%20AB%22%5BAuthor%5D), [Sánchez-Arcila JC](http://www.ncbi.nlm.nih.gov/pubmed?term=%22S%C3%A1nchez-Arcila%20JC%22%5BAuthor%5D), [Schubach AO](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Schubach%20AO%22%5BAuthor%5D), [Mendonça SC](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Mendon%C3%A7a%20SC%22%5BAuthor%5D), [Marins-Dos-Santos A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Marins-Dos-Santos%20A%22%5BAuthor%5D), [de Fatima Madeira M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22de%20Fatima%20Madeira%20M%22%5BAuthor%5D),[Gagini T](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Gagini%20T%22%5BAuthor%5D), [Pimentel MI](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Pimentel%20MI%22%5BAuthor%5D), [De Luca PM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22De%20Luca%20PM%22%5BAuthor%5D). Multifunctional CD4⁺ T cells in patients with American cutaneous leishmaniasis. [Clin Exp Immunol.](http://www.ncbi.nlm.nih.gov/pubmed) 167(3): 505-13, 2012.
* Menu P, Vince JE. [The NLRP3 inflammasome in health and disease: the good, the bad and the ugly.](http://www.ncbi.nlm.nih.gov/pubmed/21762124) Clin Exp Immunol. 166(1): 1-15, 2011.
* [Mousallem T](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Mousallem%20T%22%5BAuthor%5D), [Burks AW](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Burks%20AW%22%5BAuthor%5D). Immunology in the Clinic Review Series; focus on allergies: immunotherapy for food allergy. [Clin Exp Immunol.](http://www.ncbi.nlm.nih.gov/pubmed) 167(1): 26-31, 2012.
* Savage CO. [Pathogenesis of anti-neutrophil cytoplasmic autoantibody (ANCA)-associated vasculitis.](http://www.ncbi.nlm.nih.gov/pubmed/21447127) Clin Exp Immunol. 164(Suppl 1): 23-6, 2011.
* Swain SL, McKinstry KK, Strutt TM. [Expanding roles for CD4+ T cells in immunity to viruses.](http://www.ncbi.nlm.nih.gov/pubmed/22266691) Nat Rev Immunol. 20;12(2): 136-48. 2012.
* Vouloumanou EK, Rafailidis PI, Falagas ME. [Current diagnosis and management of infectious mononucleosis.](http://www.ncbi.nlm.nih.gov/pubmed/22123662) Curr Opin Hematol. 19(1):14-20, 2012.
* Cestari I, Ansa-Addo E, Deolindo P, Inal JM, Ramirez MI. Trypanosoma cruzi  [immune evasion mediated by host cell-derived microvesicles.](http://www.ncbi.nlm.nih.gov/pubmed/22262654) J Immunol. 188(4): 1942-52. 2012.
* Pellegrini A, Guiñazu N, Giordanengo L, Cano RC, Gea S. [The role of Toll-like receptors and adaptive immunity in the development of protective or pathological immune response triggered by the Trypanosoma cruzi protozoan.](http://www.ncbi.nlm.nih.gov/pubmed/22122446) Future Microbiol. 6(12): 1521-33, 2011.
* [Skendros P](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Skendros%20P%22%5BAuthor%5D), [Mitroulis I](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Mitroulis%20I%22%5BAuthor%5D). Host cell autophagy in immune response to zoonotic infections. [Clin Dev Immunol.](http://www.ncbi.nlm.nih.gov/pubmed/22110539) (2012): 1-9, 2012.
* Criss AK, Seifert HS. [A bacterial siren song: intimate interactions between Neisseria and neutrophils.](http://www.ncbi.nlm.nih.gov/pubmed/22290508) Nat Rev Microbiol. 10(3): 178-90, 2012.
* Donkor ON, Ravikumar M, Proudfoot O, Day SL, Apostolopoulos V, Paukovics G, Vasiljevic T, Nutt SL, Gill H. Cy[tokine profile and induction of T helper type 17 and regulatory T cells by human peripheral mononuclear cells after microbial exposure.](http://www.ncbi.nlm.nih.gov/pubmed/22236005) Clin Exp Immunol. 167(2): 282-95, 2012.

**REVISTAS ESPECIALIZADAS SOBRE O ASSUNTO:**

* www.pathsoc.org.uk
* Acta tropica: <http://www.elsevier.com/wps/product/cws_home/506043>
* Clinical Infectious diseases: <http://www.journals.uchicago.edu/toc/cid/current>

|  |
| --- |
| CRITÉRIOS DE AVALIAÇÃO DA APRENDIZAGEM |
| 1ª |
| DETALHAR ABAIXO O PROCESSO DE VERIFICAÇÕES DE APRENDIZAGEM (PROVAS, AVALIAÇÃO CONTÍNUA, SEMINÁRIOS, TRABALHOS, ETC) |
| 1ª - A avaliação de aprendizagem constará de uma prova valendo de 0 (zero) à 10,0 (dez) pontos. |