

## Curriculum Vitae

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**Abbas (Babak) Yadegar**

Medical Bacteriology, Ph.D.

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### EDUCATION

**Tarbiat Modares University**, Tehran, Iran.

**PhD**, Medical Bacteriology, 2009-2014.

**Tarbiat Modares University**, Tehran, Iran.

**MSc**, Medical Bacteriology, 2006-2009.

**Islamic Azad University, Lahijan Branch**, Lahijan, Iran.

**BSc**, Microbiology, 2001-2005.

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### TEACHING AND ADVISING EXPERIENCE

**Teaching Fellow**

- Department of Microbiology, Islamic Azad University, Zanjan Branch, Zanjan, Iran, 2010-2011.
- Department of Microbiology, Islamic Azad University Pharmaceutical Sciences Branch (IAUPS), Tehran, Iran, 2014-2016.

**Postgraduate Senior Thesis Advisor**

- Microbiology Department, School of Medicine, Iran University of Medical Sciences, Tehran, Iran, 2014-2017.
- Department of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2017-Till date.
- Department of Bacteriology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran, 2017-Till date.

- Mycobacteriology and Pulmonary Research Department, Pasteur Institute of Iran, Tehran, Iran, 2017-Till date.
  - Department of Pharmaceutical Biomaterials, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, 2016-Till date.
  - Department of Microbiology, Islamic Azad University Science and Research Branch, Tehran, Iran, 2016-Till date.
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## RESEARCH INTERESTS

- Host-Microbe Interactions (*Helicobacter pylori*, *Clostridioides difficile*)
  - Bacterial Oncogenesis and Signaling Pathways
  - Antimicrobial Drug Resistance (AMR) and Novel Treatments
  - Gut Microbiota and Human Health and Diseases
  - Fecal Microbiota Transplantation (FMT)
  - Probiotics and Beneficial Microbes (*Lactobacillus* spp., *Bifidobacterium* spp.)
  - Next-Generation Probiotics (*Akkermansia muciniphila*)
  - Bacterial extracellular vesicles (EVs) and Exosomes
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## INVENTIONS AND AWARDS

**National Patent:** “A rapid molecular diagnostic kit for *Helicobacter* genus”

**Inventors:** Abbas Yadegar, Masoud Alebouyeh, Mohammad Reza Zali

**Top Student, Grade 1,** MSc Graduation in Medical Bacteriology, Tarbiat Modares University, Tehran, Iran, (2009).

**Top Student, Grade 1,** PhD Entrance Exam in Medical Bacteriology, Tarbiat Modares University, Tehran, Iran (2009).

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## TECHNICAL PROFICIENCY AND SKILLS

- **Wet Lab,** regular laboratory practices, working with hazardous chemicals and biohazardous materials.
  - **Microbiology Techniques,** aseptic methods, staining and microscopy techniques, microbial culture, isolation and identification, microaerophilic and anaerobic culture, bacterial spore induction and purification, colony count, diagnostic methods, agglutination assays.
  - **Molecular Analysis,** DNA and RNA extraction, primer and probe design, PCR, qPCR, Multiplex PCR, PCR-RFLP, PCR-DGGE, Real-Time PCR, SOEing PCR, DNA sequencing, gel electrophoresis, SDS-PAGE, Dot blot, Western blot, ELISA, Flow cytometry, plasmid isolation, transformation, gene cloning, gene expression, spore surface display, extraction of bacterial EVs and exosomes.
  - **Cell and Tissue Culture,** culture and passage of different cell lines (Caco-2, HT-29, HepG2, LX-2, Vero, THP-1), coculture and coinfection assays, cell viability and cytotoxicity assays, in vitro studies.
  - **Bioinformatics, software's and tools,** alignment tools (BLAST, ExPASy), CLC Sequence Viewer, BioEdit, Lasergene, Gene Runner, Chromas, MEGA, GelCompare II, databases and services (NCBI, DDBJ, Protein Data Bank, PATRIC), SPSS, and GraphPad Prism.
  - **Language Abilities:** Persian (native), English (professional working proficiency).
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## SELECTED PUBLICATIONS

Masoumeh Azimirad, YoungJae Jo, Min-Sueng Kim, Minsoo Jeong, Shabnam Shahrokh, Hamid **Yadegar A**, Pakpoor S, Ibrahim FF, Nabavi-Rad A, Cook L, Walter J, Seekatz AM, Wong K, Monaghan TM, Kao D. Beneficial effects of fecal microbiota transplantation in recurrent *Clostridioides difficile* infection. **Cell Host Microbe (IF 31.31)**. 2023. (First Author).

Nabavi-Rad A, **Yadegar A**, Sadeghi A, Aghdaei HA, Zali MR, Klionsky DJ, Yamaoka Y. The interaction between autophagy, *Helicobacter pylori*, and gut microbiota in gastric carcinogenesis. **Trends in Microbiology (IF 18.23)**. 2023. (Corresponding Author).

Raeisi H, Noori M, Azimirad M, Mohebbi SR, Asadzadeh Aghdaei H, **Yadegar A**, Zali MR. Emerging applications of phage therapy and fecal virome transplantation for treatment of *Clostridioides difficile* infection: challenges and perspectives. **Gut Pathogens (IF 5.32)**. 2023. (Corresponding Author).

Nabavi-Rad A, Jamshidzadeh S, Azizi M, **Yadegar A**, Robinson K, Monaghan TM, Zali MR. The synergistic effect of *Levilactobacillus brevis* IBRC-M10790 and vitamin D3 on *Helicobacter pylori*-induced inflammation. **Frontiers in Cellular and Infection Microbiology (IF 6.07)**. 2023. (Corresponding Author).

Gholam-Mostafaei FS, Azimirad M, Naseri K, Nabavi-Rad A, Asadzadeh Aghdaei H, Shahrokh S, Ebrahimi Daryani N, **Yadegar A**, Zali MR. Intestinal microbiota changes pre- and post-fecal microbiota transplantation for treatment of recurrent *Clostridioides difficile* infection among Iranian patients with concurrent inflammatory bowel disease. **Frontiers in Microbiology (IF 6.06)**. 2023. (Corresponding Author).

Molaaghaee-Rouzbahani S, Asri N, Sapone A, Baghaei K, **Yadegar A**, Amani D, Rostami-Nejad M. *Akkermansia muciniphila* exerts immunomodulatory and anti-inflammatory effects on gliadin-stimulated THP-1 derived macrophages. **Scientific Reports (IF 4.99)**. 2023.

Ali Nabavi-Rad, Amir Sadeghi, Hamid Asadzadeh Aghdaei, **Abbas Yadegar**, Sinéad Marian Smith, Mohammad Reza Zali. The double-edged sword of probiotic supplementation on gut microbiota structure in *Helicobacter pylori* management. **Gut Microbes (IF 9.43)**. 2022. (Corresponding Author).

Hamideh Raeisi, Masoumeh Azimirad, Ali Nabavi-Rad, Hamid Asadzadeh Aghdaei, **Abbas Yadegar**, Mohammad Reza Zali. Application of recombinant antibodies for treatment of *Clostridioides difficile* infection: Current status and future perspective. **Frontiers in Immunology (IF 8.78)**. 2022. (Corresponding Author).

Kimia Kermanshahian, **Abbas Yadegar**, Hamid Moghimi, Hedayatollah Ghourchian. The synergy of Fe<sub>3</sub>O<sub>4</sub>@ Au and molybdate as HRP-Mimetic catalysts for gold nanorods etching: development of an ultrasensitive genosensor for detection of *Helicobacter pylori*. **Sensors and Actuators B: Chemical (IF 9.22)**. 2022.

Hamidreza Hourri, Hamid Asadzadeh Aghdaei, Sepideh Firuzabadi, Babak Khorsand, Fatemeh Soltanpoor, Maedeh Rafieepoor, Mohammad Tanhaei, Ghazal Soleymani, Masoumeh Azimirad, Amir Sadeghi, Nasser Ebrahimi Daryani, Farhad Zamani, Ramin Talaie, **Abbas Yadegar**, Seyed Reza Mohebi, Ghazal Sherkat, Mehrdad Hagh Azalli, Habib Malekpour, Gholamreza Hemmasi, Mohammad Reza Zali. High prevalence rate of microbial contamination in patient-ready gastrointestinal endoscopes in Tehran, Iran; an alarming sign for the occurring severe outbreaks. **Microbiology Spectrum (IF 9.04)**. 2022.

Masoumeh Azimirad, Maryam Noori, Fahimeh Azimirad, Fatemeh Gholami, Kaveh Naseri, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali. Curcumin and capsaicin regulate apoptosis and alleviate intestinal inflammation induced by *Clostridioides difficile* in vitro. **Annals of Clinical Microbiology and Antimicrobials (IF 6.78)**. 2022. (Corresponding Author).

Farzaneh Fakharian, Behnoush Asgari, Ali Nabavi-Rad, Amir Sadeghi, Neda Soleimani, **Abbas Yadegar**, Mohammad Reza Zali. **Frontiers in Cellular and Infection Microbiology (IF 6.07)**. 2022. **(Corresponding Author)**.

Amir Hossein Miri, Mojtaba Kamankesh, Antoni Llopis-Lorente, Chenguang Liu, Matthias G Wacker, Ismaeil Haririan, Hamid Asadzadeh Aghdaei, Michael R Hamblin, **Abbas Yadegar**, Mazda Rad-Malekshahi, Mohammad Reza Zali. **Frontiers in Pharmacology (IF 5.98)**. 2022. **(Corresponding Author)**.

Mobin Makhmalbaf, Seyed Masoud Hosseini, Hamid Asadzadeh Aghdaei, Mahsa Saeedi Niasar, Shahrzad Shoraka, **Abbas Yadegar**, Shaghayegh Baradaran Ghavami, Shabnam Shahrokh, Mohammadreza Moshari, Habib Malekpour, Mohammad Reza Zali, Seyed Reza Mohebbi. Detection of SARS-CoV-2 genome in stool and plasma samples of laboratory confirmed Iranian COVID-19 patients. **Frontiers in Molecular Biosciences (IF 6.11)**. 2022.

Banafsheh Nadalian, Bahareh Nadalian, Hamidreza Hourri, Shabnam Shahrokh, Mohammad Abdehagh, **Abbas Yadegar**, Gholamhossein Ebrahimipour. Phylogrouping and characterization of *Escherichia coli* isolated from colonic biopsies and fecal samples of patients with flare of inflammatory bowel disease in Iran. **Frontiers in Medicine (IF 5.05)**. 2022. **(Corresponding Author)**.

Masoumeh Azimirad, YoungJae Jo, Min-Sueng Kim, Minsoo Jeong, Shabnam Shahrokh, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali, Seungjun Lee, **Abbas Yadegar**, Jae-Ho Shin. Alterations and prediction of functional profiles of gut microbiota after fecal microbiota transplantation for Iranian recurrent *Clostridioides difficile* infection with underlying inflammatory bowel disease: a pilot study. **Journal of Inflammation Research (IF 4.63)**. 2022. **(Corresponding Author)**.

Shahrbano Keshavarz Azizi Raftar, Fatemeh Ashrafian, Sara Abdollahiyan, **Abbas Yadegar**, Hamid Reza Moradi, Morteza Masoumi, Farzam Vaziri, Arfa Moshiri, Seyed Davar Siadat, Mohammad Reza Zali. The anti-inflammatory effects of Akkermansia muciniphila and its derivatives in HFD/CCL4-induced murine model of liver injury. **Scientific Reports (IF 4.99)**. 2022.

Ali Nabavi-Rad, Mahsa Azizi, Shaghayegh Jamshidizadeh, Amir Sadeghi, Hamid Asadzadeh Aghdaei, **Abbas Yadegar**, Mohammad Reza Zali. The effects of vitamins and micronutrients on *Helicobacter pylori* pathogenicity, survival, and eradication: A crosstalk between micronutrients and immune system. **Journal of Immunology Research (IF 4.49)**. 2022. **(Corresponding Author)**.

Alireza Olyaiee, Amir Sadeghi, **Abbas Yadegar**, Elnaz Sadat Mirsamadi, Hamed Mirjalali. Gut microbiota shifting in irritable bowel syndrome: The mysterious role of *Blastocystis* sp. **Frontiers in Medicine (IF 5.05)**. 2022.

Sahar Amirkamali, Masoumeh Azimirad, Gelareh Nasiri, Hossein Goudarzi, Maryam Noori, **Abbas Yadegar**, Zohreh Ghalavand, Mohammad Reza Zali. Surface layer protein A from hypervirulent *Clostridioides difficile* ribotype 001 can induce autophagy process in human intestinal epithelial cells. **Microbial Pathogenesis (IF 3.84)**. 2022. **(Corresponding Author)**.

Mohadeseh Naseri, Fahimeh Palizban, **Abbas Yadegar**, Mohsen Khodarahmi, Hamid Asadzadeh Aghdaei, Hamidreza Hourri, Javad Zahiri. Investigation and characterization of human gut phageome in advanced liver cirrhosis of defined etiologies. **Gut Pathogens (IF 5.32)**. 2022.

Masoumeh Azimirad, Maryam Noori, Hamideh Raeisi, **Abbas Yadegar**, Shabnam Shahrokh, Hamid Asadzadeh Aghdaei, Enrico Bentivegna, Paolo Martelletti, Nicola Petrosillo, Mohammad Reza Zali. How does COVID-19 pandemic impact on incidence of *Clostridioides difficile* infection and exacerbation of its gastrointestinal symptoms? **Frontiers in Medicine (IF 5.05)**. 2021. **(Corresponding Author)**.

Shahrbanoo Keshavarz Azizi Raftar, Fatemeh Ashrafiyan, **Abbas Yadegar**, Arezou Lari, Hamid Reza Moradi, Arefeh Shahriary, Masoumeh Azimirad, Helia Alavifard, Zhaleh Mohsenifar, Mehdi Davari, Farzam Vaziri, Arfa Moshiri, Seyed Davar Siadat, Mohammad Reza Zali. The protective effects of live and pasteurized *Akkermansia muciniphila* and its extracellular vesicles against HFD/CCl4-induced liver injury. **Microbiology Spectrum (IF 9.04)**. 2021.

Mahdieh Yarmohammadi, **Abbas Yadegar**, Maryam Tajabadi Ebrahimi, Mohammad Reza Zali. Effects of a potential probiotic strain *Lactobacillus gasseri* ATCC 33323 on *Helicobacter pylori*-induced inflammatory response and gene expression in coinfecting gastric epithelial cells. **Probiotics and Antimicrobial Proteins (IF 5.26)**. 2021. **(Corresponding Author)**.

Masoumeh Azimirad, Banafsheh Nadalian, Helia Alavifard, Shaho Negahdar Panirani, Solmaz Mahdigholi Vand Bonab, Fahimeh Azimirad, Fatemeh Gholami, Parnia Jabbari, **Abbas Yadegar**, Luca Busani, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali. Microbiological survey and occurrence of bacterial foodborne pathogens in raw and ready-to-eat green leafy vegetables marketed in Tehran, Iran. **International Journal of Hygiene and Environmental Health (IF 7.40)**. 2021. **(Corresponding Author)**.

Kimia Kermanshahian, **Abbas Yadegar**, Hedayatollah Ghourchian. Gold nanorods etching as a powerful signaling process for plasmonic multicolorimetric chemo-/biosensors: Strategies and applications. **Coordination Chemistry Reviews (IF 24.79)**. 2021.

Sama Rezasoltani, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali. Modulatory effects of gut microbiome in cancer immunotherapy: a novel paradigm for blockade of immune checkpoint inhibitors. **Cancer Medicine (IF 4.71)**. 2021. **(Corresponding Author)**.

Shahrbanoo Keshavarz Azizi Raftar, Sara Abdollahiyan, Masoumeh Azimirad, **Abbas Yadegar**, Farzam Vaziri, Arfa Moshiri, Seyed Davar Siadat, Mohammad Reza Zali. The anti-fibrotic effects of heat-killed *Akkermansia muciniphila* MucT on liver fibrosis markers and activation of hepatic stellate cells. **Probiotics and Antimicrobial Proteins (IF 5.26)**. 2021. **(Corresponding Author)**.

Bahare Salehi, Zohreh Ghalavand, **Abbas Yadegar**, Gita Eslami. Characteristics and diversity of mutations in regulatory genes of resistance-nodulation-cell division efflux pumps in association with drug-resistant clinical isolates of *Acinetobacter baumannii*. **Antimicrobial Resistance and Infection Control (IF 6.45)**. 2021. **(Corresponding Author)**.

Hani Keshavarz Alikhani, Bahare Shokoohian, Sama Rezasoltani, Nikoo Hossein-Khannazer, **Abbas Yadegar**, Moustapha Hassan, Massoud Vosough. Application of stem cell-derived extracellular vesicles as an innovative theranostics in microbial diseases. **Frontiers in Microbiology (IF 6.06)**. 2021.

Mohadeseh Naseri, Hamidreza Hourri, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Javad Zahiri. Investigation of etiology-specific alterations in the gut microbiota in liver cirrhosis. **Expert Review of Gastroenterology & Hepatology (IF 4.09)**. 2021.

Alireza Beheshti- Maal, Shabnam Shahrokh, Saham Ansari, Elnaz Sadat Mirsamadi, **Abbas Yadegar**, Hamed Mirjalali, Mohammad Reza Zali. Gut mycobiome: The probable determinative role of fungi in IBD patients. **Mycoses (IF 4.93)**. 2021.

Maryam Noori, Zohreh Ghalavand, Masoumeh Azimirad, **Abbas Yadegar**, Gita Eslami, Marcela Krutova, Marie Brajerova, Mehdi Goudarzi, Mohammad Reza Zali. Genetic diversity and phylogenetic analysis of the surface layer protein a gene (*slpA*) among *Clostridioides difficile* clinical isolates from Tehran, Iran. **Anaerobe (IF 2.83)**. 2021. **(Corresponding Author)**.

Hamidreza Hour, **Abbas Yadegar**, Mohammad Reza Zali. How infection with *C. difficile* infection aggravates inflammatory bowel disease: Is it CDI or the CDAI? **Digestive Diseases and Sciences (IF 3.48)**. 2021. **(Corresponding Author)**.

Kaveh Naseri, Hossein Dabiri, Mohammad Rostami Nejad, **Abbas Yadegar**, Hamidreza Hour, Meysam Olfatifar, Amir Sadeghi, Saeede Saadati, Carolina Ciacci, Paola Iovino, Mohammad Reza Zali. Influence of low FODMAP and gluten-free diets on gut microbiota alternations and symptom severity in Iranian patients with irritable bowel syndrome; a clinical trial study. **BMC Gastroenterology (IF 2.84)**. 2021. **(Corresponding Author)**.

Zahra Najafiolya, Shahin Najar-Peerayeh, **Abbas Yadegar**, Bita Bakhshi. Clonal diversity and genomic characterization of Panton-valentine Leukocidin (PVL)-positive *Staphylococcus aureus* in Tehran, Iran. **BMC Infectious Diseases (IF 3.66)**. 2021.

Samaneh Ostadmohammadi, Masoumeh Azimirad, Hamidreza Hour, Kaveh Naseri, Ehsan Javanmard, Hamed Mirjalali, **Abbas Yadegar**, Amir Sadeghi, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali. Characterization of the gut microbiota in patients with primary sclerosing cholangitis compared to inflammatory bowel disease and healthy controls. **Molecular Biology Reports (IF 2.74)**. 2021. **(Corresponding Author)**.

Rebecca FitzGerald, Chavi Sinha, **Abbas Yadegar**, Sinead M. Smith. *Helicobacter pylori* methods and protocols (Chapter 11: *Helicobacter pylori* virulence factor genotyping). **Methods in Molecular Biology**. 2021.

Maryam Noori, **Abbas Yadegar**, Mohammad Reza Zali. A Complex Scenario of Nonsteroidal Anti-inflammatory Drugs Induced Prostaglandin E2 Production and Gut Microbiota Alteration in *Clostridium difficile*-Infected Mice. **mBio (IF 7.78)**. 2020. **(Corresponding Author)**.

Masoumeh Azimirad, Marcela Krutova, **Abbas Yadegar**, Shabnam Shahrokh, Meysam Olfatifar, Hamid Asadzadeh Aghdaei, Warren N. Fawley, Mark H. Wilcox, Mohammad Reza Zali. *Clostridioides difficile* ribotypes 001 and 126 were predominant in Tehran healthcare settings from 2004 to 2018: a 14-year-long cross-sectional study. **Emerging Microbes & Infections (IF 19.56)**. 2020. **(Corresponding Author)**.

Masoumeh Azimirad, **Abbas Yadegar**, Fatemeh Gholami, Shabnam Shahrokh, Hamid Asadzadeh Aghdaei, Gianluca Ianiro, Hidekazu Suzuki, Giovanni Cammarota, Mohammad Reza Zali. Treatment of recurrent *Clostridioides difficile* infection using fecal microbiota transplantation in Iranian patients with underlying inflammatory bowel disease. **Journal of Inflammation Research (IF 4.63)**. 2020. **(Corresponding Author)**.

Fahimeh Sadat Gholam-Mostafaei, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Masoumeh Azimirad, Nasser Ebrahimi Daryani, Mohammad Reza Zali. Anti-TNF containing regimens may be associated with increased risk of *Clostridioides difficile* infection in patients with underlying inflammatory bowel disease. **Current Research in Translational Medicine (IF 4.19)**. 2020. **(Corresponding Author)**.

Shaghayegh Baradaran Ghavami, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Dario Sorrentino, Maryam Farmani, Adil Shamim Mir, Masoumeh Azimirad, Hedieh Balaii, Shabnam Shahrokh, Mohammad Reza Zali. Immunomodulation and generation of tolerogenic dendritic cells by probiotic bacteria in patients with inflammatory bowel disease. **International Journal of Molecular Sciences (IF 6.20)**. 2020. **(Equally First Author)**.

Banafsheh Nadalian, **Abbas Yadegar**, Hamidreza Hour, Meysam Olfatifar, Shabnam Shahrokh, Hamid Asadzadeh Aghdaei, Hidekazu Suzuki, Mohammad Reza Zali. Prevalence of the pathobiont adherent-invasive *Escherichia coli* and inflammatory bowel disease: a systematic review and meta-analysis. **Journal of Gastroenterology and Hepatology (IF 4.36)**. 2020. **(Corresponding Author)**.

Sama Rezasoltani, Behzad Hatami, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei and Mohammad Reza Zali. How patients with chronic liver diseases succeed to deal with COVID-19? **Frontiers in Medicine (IF 5.05)**. 2020.

Saeed Moayedi, **Abbas Yadegar**, Saeed Balalaie, Mahdiyeh Yarmohammadi, Mohammad Reza Zali, Hidekazu Suzuki, Gert Fricker, Ismaeil Haririan. Sugar codes conjugated alginate: an innovative platform to make a strategic breakthrough in simultaneous prophylaxis of GERD and *Helicobacter pylori* infection. **Drug Design, Development and Therapy (IF 4.31)**. 2020.

Sama Rezasoltani, Reza Ghanbari, Mehdi Azizmohammad Looha, Ehsan Nazemalhosseini Mojarad, **Abbas Yadegar**, Delisha Stewart, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali. Expression of main toll-like receptors in patients with different types of colorectal polyps and their relationship with gut microbiota. **International Journal of Molecular Sciences (IF 6.20)**. 2020.

Mansoor Kodori, Zohreh Ghalavand, **Abbas Yadegar**, Gita Eslami, Masoumeh Azimirad, Marcela Krutova, Alireza Abadi, Mohammad Reza Zali. Molecular characterization of pathogenicity locus (PaLoc) and *tcdC* genetic diversity among *tcdA<sup>+</sup>B<sup>+</sup>* *Clostridioides difficile* clinical isolates in Tehran, Iran. **Anaerobe (IF 2.83)**. 2020. **(Corresponding Author)**.

Sama Rezasoltani, **Abbas Yadegar**, Behzad Hatami, Hamid Asadzadeh Aghdaei Mohammad Reza Zali. Antimicrobial resistance as a hidden menace lurking behind COVID-19 outbreak: the global impacts of too much hygiene on AMR. **Frontiers in Microbiology (IF 6.06)**. 2020. **(Corresponding Author)**.

Masoumeh Azimirad, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Colleen R. Kelly. Enterotoxigenic *Clostridium perfringens* infection as an adverse event after fecal microbiota transplantation in two patients with ulcerative colitis and recurrent *Clostridium difficile* infection: a neglected agent in donor screening. **Journal of Crohn's and Colitis (IF 10.02)**. 2019. **(Corresponding Author)**.

Masoumeh Azimirad, Fatemeh Gholami, **Abbas Yadegar**, Daniel R. Knight, Sharareh Shamloei, Hamid Asadzadeh Aghdaei, Mohammad Reza Zali. Prevalence and characterization of *Clostridium perfringens* toxinotypes among patients with antibiotic-associated diarrhea in Iran. **Scientific Reports (IF 4.99)**. 2019. **(Corresponding Author)**.

**Abbas Yadegar**, Ashraf Mohabati Mobarez, Mohammad Reza Zali. Genetic diversity and amino acid sequence polymorphism in *Helicobacter pylori* CagL hypervariable motif and its association with virulence markers and gastroduodenal diseases. **Cancer Medicine (IF 4.71)**. 2019. **(Corresponding Author)**.

Narjess Bostanghadiri, Zohreh Ghalavand, Fatemeh Fallah, Abbas Yadegar, Abdollah Ardebili, Samira Tarashi, Abazar Pournajaf, Jalal Mardaneh, Saeed Shams, Ali Hashemi. Characterization of phenotypic and genotypic diversity of *Stenotrophomonas maltophilia* strains isolated from selected hospitals in Iran. **Frontiers in Microbiology (IF 6.06)**. 2019.

Nastaran Farzi, **Abbas Yadegar**, Amir Sadeghi, Hamid Asadzadeh Aghdaei, Sinéad Marian Smith, Josette Raymond, Hidekazu Suzuki, Mohammad Reza Zali. High prevalence of antibiotic resistance in Iranian *Helicobacter pylori* isolates: importance of functional and mutational analysis of resistance genes and virulence genotyping. **Journal of Clinical Medicine (IF 4.96)**. 2019. **(Corresponding Author)**.

Nastaran Farzi, **Abbas Yadegar**, Hamid Asadzadeh Aghdaei, Yoshio Yamaoka, Mohammad Reza Zali. Genetic diversity and functional analysis of *oipA* gene in association with other virulence factors among *Helicobacter pylori* isolates from Iranian patients with different gastric diseases. **Infection, Genetics and Evolution (IF 4.39)**. 2018. **(Corresponding Author)**.

Iman Hashemifar, **Abbas Yadegar**, Faramarz Masjedian Jazi, Nour Amirmozafari. Molecular prevalence of putative virulence-associated genes in *Brucella melitensis* and *Brucella abortus* isolates from human and livestock specimens in Iran. **Microbial Pathogenesis (IF 3.84)**. 2017. **(Corresponding Author)**.

**Abbas Yadegar**, Masoud Alebouyeh, Mohammad Reza Zali. Analysis of the intactness of *Helicobacter pylori* *cag* pathogenicity island in Iranian strains by a new PCR-based strategy and its relationship with virulence genotypes and EPIYA motifs. **Infection, Genetics and Evolution (IF 4.39)**. 2015.

**Abbas Yadegar**, Masoud Alebouyeh, Andy J. Lawson, Tabassom Mirzaei, Ehsan Nazemalhosseini Mojarad, Mohammad Reza Zali. Differentiation of non-*pylori Helicobacter* species based on PCR–restriction fragment length polymorphism of the 23S rRNA gene. **World Journal of Microbiology and Biotechnology (IF 4.25)**. 2014.

**Abbas Yadegar**, Ashraf Mohabati Mobarez, Masoud Alebouyeh, Tabassom Mirzaei, Terry Kwok, Mohammad Reza Zali. Clinical relevance of *cagL* gene and virulence genotypes with disease outcomes in a *Helicobacter pylori* infected population from Iran. **World Journal of Microbiology and Biotechnology (IF 4.25)**. 2014.

**Abbas Yadegar**, Morteza Sattari, Nour Amir Mozafari, Gholam Reza Goudarzi. Prevalence of the genes encoding aminoglycoside-modifying enzymes and methicillin resistance among clinical isolates of *Staphylococcus aureus* in Tehran, Iran. **Microbial Drug Resistance (IF 2.70)**. 2009.

Abolghasem Tohidpour, Morteza Sattari, Reza Omidbeigi, **Abbas Yadegar**, Javad Nazemi. Antibacterial effect of essential oils from two medicinal plants against methicillin-resistant *Staphylococcus aureus* (MRSA). **Phytomedicine (IF 6.65)**. 2009.

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#### CONFERENCE PRESENTATIONS

**Abbas Yadegar**, Masoud Alebouyeh, Ashraf Mohabati Mobarez, Mohammad Reza Zali. Virulence genotyping of *Helicobacter pylori* isolates as a predictive tool for disease prognosis of gastroduodenal disorders. The 5<sup>th</sup> International Congress of Laboratory and Clinic “Blood Disorders”, 15-18 January, 2013, Tehran, Iran.

Tabassom Mirzaei, Masoud Alebouyeh, **Abbas Yadegar**, Leila Shokrzadeh, Mohammad Reza Zali. Detection of non-coding sialic-acid binding adhesion gene (*sabA*) in an *Helicobacter pylori* isolate in Tehran, Iran. The 5<sup>th</sup> International Congress of Laboratory and Clinic “Blood Disorders”, 15-18 January, 2013, Tehran, Iran.

**Abbas Yadegar**, Masoud Alebouyeh, Ashraf Mohabati Mobarez, Tabassom Mirzaei, Mohammad Reza Zali. Presence of combined virulence genotypes of *Helicobacter pylori* as a risk factor for development of gastroduodenal disease in Iranian patients. The 14th Iranian & the Third International Congress of Microbiology, August 28-30, 2013, Tehran, Iran.

**Abbas Yadegar**, Masoud Alebouyeh, Tabassom Mirzaei, Mohammad Reza Zali. Design and development of a new method for *cagPAI* genotyping of *Helicobacter pylori* strains in Iran. The 2nd Iranian Congress of Medical Bacteriology, October 2-4, 2013, Tehran, Iran.

**Abbas Yadegar**, Masoud Alebouyeh, Leila Shokrzadeh, Tabassom Mirzaei, Ehsan Nazemalhosseini Mojarad, Mohammad Reza Zali. A novel 23S ribosomal DNA-based PCR-RFLP method for rapid discrimination of non-*pylori Helicobacter* species. First International & 12<sup>th</sup> Iranian Congress of Microbiology. 23-26 May 2011, Kermanshah, Iran.

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