

## Curriculum Vitae

### Personal data:

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### Research field experience:

1	Pharmacodynamics.
2	Drug-drug interactions.
3	Pharmacokinetic analysis.

### List of scientific publications:

Published papers	
1	Abdel Aziz, M.I., El-Shazly, K.A. and <u>Kandael, M. K.</u> (2003): Comparative Efficacy Of Diclazuril And Semduramicin In Chickens Infected With E.Tenella, Kafr El-Sheikh, Vet. Med. J. Vol.1, No.1: 587-609. The First Scientific Congress (April, 2003).

2	<b>T Ando, H Shinohara, X Luo, <u>M Kandeel</u>, Y Kitade (2007):</b> Facile synthesis of 1', 2'-cis- $\beta$ -pyranosyladenine nucleosides. <i>Carbohydrate research</i> 342 (17), 2641-2648.
3	<b><u>M Kandeel</u>, Y Kitade (2008):</b> Molecular Characterization, Heterologous Expression and Kinetic Analysis of Recombinant <i>Plasmodium falciparum</i> Thymidylate Kinase. <i>Journal of biochemistry</i> 144 (2), 245-250.
4	<b><u>M Kandeel</u>, M Nakanishi, T Ando, K El-Shazly, T Yosef, Y Ueno, Y Kitade (2008):</b> Molecular cloning, expression, characterization and mutation of <i>Plasmodium falciparum</i> guanylate kinase. <i>Molecular and biochemical parasitology</i> 159 (2), 130-133.
5	<b><u>M Kandeel</u>, T Ando, Y Kitamura, M Abdel-Aziz, Y Kitade (2009):</b> Mutational, inhibitory and microcalorimetric analyses of <i>Plasmodium falciparum</i> TMP kinase. Implications for drug discovery. <i>Parasitology</i> 136 (1), 11-25.
6	<b><u>M Kandeel</u>, T Miyamoto, Y Kitade (2009):</b> Bioinformatics, enzymologic properties, and comprehensive tracking of <i>Plasmodium falciparum</i> nucleoside diphosphate kinase. <i>Biological and Pharmaceutical Bulletin</i> 32 (8), 1321-1327.
7	<b><u>M Kandeel</u>, Y Kitamura, Y Kitade (2009):</b> The exceptional properties of <i>Plasmodium</i> deoxyguanylate pathways as a potential area for metabolic and drug discovery studies. <i>Nucleic acids symposium series</i> 53 (1), 39-40.
8	<b><u>M Kandeel</u>, A Kato, Y Kitamura, Y Kitade (2009):</b> Thymidylate kinase: the lost chemotherapeutic target. <i>Nucleic acids symposium series</i> 53 (1), 283-284.
9	<b><u>M Kandeel</u>, Y Kitade (2010):</b> Substrate specificity and nucleotides binding properties of NM23H2/nucleoside diphosphate kinase homolog from <i>Plasmodium falciparum</i> . <i>Journal of bioenergetics and biomembranes</i> 42 (5), 361-369.
10	<b>I Abdelaziz, <u>M Kandeel</u> (2011):</b> The protective effects of <i>Nigella sativa</i> oil and <i>Allium sativum</i> extract on amikacin-induced nephrotoxicity. <i>Int. J. Pharmacol</i> 7, 697-703.
11	<b><u>M Kandeel</u>, I Abdelaziz, N Elhabashy, H Hegazy, Y Tolba (2011).</b> Nephrotoxicity and oxidative stress of single large dose or two divided doses of gentamicin in rats. <i>Pakistan Journal of Biological Sciences</i> 14 (11), 627.
12	<b><u>M Kandeel</u>, Y Kitade (2011):</b> Binding dynamics and energetic insight into the molecular forces driving nucleotide binding by guanylate kinase. <i>Journal of Molecular Recognition</i> 24 (2), 322-332.
13	<b><u>M Kandeel</u>, Y Kitade (2011).</b> The substrate binding preferences of <i>Plasmodium</i> thymidylate kinase. <i>Biological and Pharmaceutical Bulletin</i> 34 (1), 173-176.
14	<b><u>M Kandeel</u> (2011):</b> Efficacy of amprolium and toltrazuril in chicken with subclinical infection of cecal coccidiosis. <i>Indian journal of pharmacology</i> 43 (6), 741.
15	<b>K Taniho, R Nakashima, <u>M Kandeel</u>, Y Kitamura, Y Kitade (2012):</b> Synthesis and biological properties of chemically modified siRNAs bearing 1-deoxy-D-ribofuranose in their 3'-overhang region. <i>Bioorganic &amp; medicinal chemistry letters</i> 22 (7), 2518-2521.
16	<b>A Kato, Y Yasuda, Y Kitamura, <u>M Kandeel</u>, Y Kitade (2012):</b> Carbocyclic thymidine derivatives efficiently inhibit <i>Plasmodium falciparum</i> thymidylate kinase (PFTMK). <i>Parasitology international</i> 61 (3), 501-503.
17	<b>TA Yosef, MZ Al-Julaiifi, <u>M Kandeel</u> (2012):</b> The effects of green tea ( <i>Camellia sinensis</i> ) probiotics on broilers exposed to lead-induced oxidative stress. <i>The Journal of American Science</i> 8 (4), 499-506.
18	<b><u>M Kandeel</u>, W Elgazar, Y Kitade (2012):</b> The binding interactions of the macrolide endectocide ivermectin with the antibiotics ampicillin, chloramphenicol and

	tetracycline HCL. Indian journal of pharmaceutical sciences 74 (6), 592.
19	<b><u>M Kandeel</u>, Y Kitade (2012):</b> Analysis of the molecular interactions and complexation of chloroquine with bovine serum albumin. Drug metabolism and drug interactions 27 (1), 41-46.
20	<b>MN Abdel-Rahman, <u>M Kandeel</u> (2012):</b> Effect of amlodipine and trimetazidine on gentamicin-induced nephrotoxicity in rats. J. Am. Sci 8.
21	<b>Y Noguchi, Y Yasuda, M Tashiro, T Kataoka, Y Kitamura, <u>M Kandeel</u>, ...(2013):</b> Synthesis of carbocyclic pyrimidine nucleosides and their inhibitory activities against Plasmodium falciparum thymidylate kinase. Parasitology international 62 (4), 368-371.
22	<b><u>M Kandeel</u>, M Nabih, Y Kitade (2013):</b> Macromolecular interactions of spectinomycin with Bovine serum albumin. Journal of thermal analysis and calorimetry 111 (3), 1737-1741.
23	<b><u>M Kandeel</u>, Y Kitade (2013):</b> Computational analysis of siRNA recognition by the Ago2 PAZ domain and identification of the determinants of RNA-induced gene silencing. PloS one 8 (2).
24	<b><u>M Kandeel</u>, Y Kitade (2013):</b> In silico molecular docking analysis of the human Argonaute 2 PAZ domain reveals insights into RNA interference. Journal of computer-aided molecular design 27 (7), 605-614.
25	<b><u>M Kandeel</u>, M Balaha, N Inagaki, Y Kitade (2013):</b> Current and future asthma therapies. Drugs of today (Barcelona, Spain: 1998) 49 (5), 325-339.
26	<b><u>M Kandeel</u>, R Nakashima, Y Kitamura, M Balaha, <u>M Abdelaziz</u>, Y Kitade (2013):</b> Thermodynamics and molecular bases of the interaction of ampicillin and streptomycin at their binding sites of bovine serum albumin. Journal of thermal analysis and calorimetry 112 (2), 945-952.
27	<b><u>M Kandeel</u>, T Yosef, M Al-Julaifi, A AL-Rizki, Y Kitade (2013):</b> Chelating efficiency and mechanisms of interaction of some toxic and biologically important cations with EDTA by isothermal titration calorimetry. Life Science Journal 10 (4).
28	<b><u>M Kandeel</u>, Y Noguchi, K Oh-Hashi, HS Kim, Y Kitade (2014):</b> Molecular dynamics and energetic perceptions of substrate recognition by thymidylate kinase. Journal of Thermal Analysis and Calorimetry 115 (3), 2089-2097.
29	<b><u>M Kandeel</u>, M Elaiziz, A Kandeel, A Altaher, Y Kitade (2014):</b> Association of host tropism of Middle East syndrome coronavirus with the amino acid structure of host cell receptor dipeptidyl peptidase 4. Acta Virol 58, 359-363.
30	<b>A Al-Taher, <u>M Kandeel</u>, HS Kim, Y Kitade (2014):</b> Cleavage of DNA and nuclease properties of plasmodium nucleoside diphosphate kinase. Int. J. Pharmacol 10, 334-339.
31	<b><u>M Kandeel</u>, A Al-Taher, R Nakashima, T Sakaguchi, A Kandeel, Y Nagaya, ...(2014):</b> Bioenergetics and gene silencing approaches for unraveling nucleotide recognition by the human EIF2C2/Ago2 PAZ domain. PloS one 9 (5).
32	<b>S Endo, D Hu, T Matsunaga, Y Otsuji, O El-Kabbani, <u>M Kandeel</u>, A Ikari, ...(2014):</b> Synthesis of non-prenyl analogues of baccharin as selective and potent inhibitors for aldo-keto reductase 1C3. Bioorganic & medicinal chemistry 22 (19), 5220-5233.
33	<b><u>M Kandeel</u> (2014):</b> Bioavailability and pharmacokinetics of ampicillin in chicken infected with Eimeria tenella. Int. J. Pharmacol 10, 340-344.
34	<b><u>M Kandeel</u> (2014):</b> Bioinformatics analysis of the recent MERS-CoV with special

	reference to the virus-encoded Spike protein. <i>Molecular Enzymology and Drug Targets</i> 1 (1).
35	<b><i>M Kandeel</i> (2015):</b> Pharmacokinetics and oral bioavailability of amoxicillin in chicken infected with caecal coccidiosis. <i>Journal of veterinary pharmacology and therapeutics</i> 38 (5), 504-507.
36	<b>Y Altaher, M Nakanishi, <i>M Kandeel</i> (2015):</b> Annotation of camel genome for estimation of drug binding power, evolution and adaption of cytochrome P450 1a2. <i>International Journal of Pharmacology</i> 11, 243-247.
37	<b>Y Kitamura, S Ogawa, R Nakashima, <i>M Kandeel</i>, Y Kitade (2015):</b> Synthesis and evaluation of chemically modified dangling end units for optimization of RNA interference. <i>ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY</i> 250.
38	<b>Y Altaher, <i>M Kandeel</i> (2016):</b> Molecular analysis of some camel cytochrome P450 enzymes reveals lower evolution and drug-binding properties. <i>Journal of Biomolecular Structure and Dynamics</i> 34 (1), 115-124.
39	<b><i>M Kandeel</i>, A Altaher, Y Kitade, M Abdelaziz, M Alnazawi, K Elshazli (2016):</b> Evolution of camel CYP2E1 and its associated power of binding toxic industrial chemicals and drugs. <i>Computational biology and chemistry</i> 64, 271-280.
40	<b>M Alfuwaires, A Altaher, <i>M Kandeel</i> (2017):</b> Molecular dynamic studies of interferon and innate immunity resistance in MERS CoV non-structural protein 3. <i>Biological and Pharmaceutical Bulletin</i> 40 (3), 345-351.
41	<b><i>M Kandeel</i>, A Altaher (2017):</b> Synonymous and biased codon usage by MERS CoV papain-like and 3CL-proteases. <i>Biological and Pharmaceutical Bulletin</i> , b17-00168.
42	<b>M Alnazawi, A Altaher, <i>M Kandeel</i> (2017):</b> Comparative genomic analysis MERS CoV isolated from humans and camels with special reference to virus encoded helicase. <i>Biological and Pharmaceutical Bulletin</i> 40 (8), 1289-1298.
43	<b>M Alfuwaires, A Altaher, A Alhafufi, <i>M Kandeel</i> (2017):</b> Middle east respiratory syndrome coronavirus in healthy and diseased dromedaries. <i>Journal of Camel Practice and Research</i> 24 (3), 217-220.
44	<b>W El-Deeb, M Fayez, A Elmoslemany, <i>M Kandeel</i>, K Zidan (2018):</b> Methicillin resistant <i>Staphylococcus aureus</i> among goat farms in Eastern province, Saudi Arabia: Prevalence and risk factors. <i>Preventive veterinary medicine</i> 156, 84-90.
45	<b><i>M Kandeel</i>, Y Kitade (2018):</b> Molecular dynamics and binding selectivity of nucleotides and polynucleotide substrates with EIF2C2/Ago2 PAZ domain. <i>International journal of biological macromolecules</i> 107, 2566-2573.
46	<b>MK Hany E Khalil, Maged E Mohamed, Mohamed A Morsy, <i>M Kandeel</i> (2018):</b> Flavonoid and phenolic compounds from <i>Carissa macrocarpa</i> : Molecular docking and cytotoxicity studies. <i>Pharmacognosy Magazine</i> 14 (57 Suppl 2), S304-310.
47	<b>M Alquhaidan, <i>M Kandeel</i> (2018):</b> Gene expression of multidrug-resistant ATP-binding cassette transporter (MDR1/ABCB1) in bovine mastitis. <i>Tropical Journal of Pharmaceutical Research</i> 17 (12).
48	<b>KN Venugopala, S Chandrashekarappa, M Pillay, S Bhandary, <i>M Kandeel</i> ,... (2019):</b> Synthesis and structural elucidation of novel benzothiazole derivatives as anti-tubercular agents: In-silico screening for possible target identification. <i>Medicinal Chemistry</i> 15 (3), 311-326.
49	<b><i>M Kandeel</i>, Y Kitade, A Al-Taher, M Al-Nazawi (2019):</b> The structural basis of unique substrate recognition by Plasmodium thymidylate kinase: Molecular dynamics



	simulation and inhibitory studies. PloS one 14 (2).
50	<b>A Altayban, <u>M Kandeel</u>, A Tahoun, M Al-Nazawi (2019):</b> Cefotaxime pharmacokinetics in Arabian camel ( <i>Camelus dromedarius</i> ) calves after single intravenous injection. Tropical animal health and production, 1-5.
51	<b><u>M Kandeel</u>, A Al-Taher, M Al-Nazawi, K Ohhashi (2019):</b> Substructural dynamics of the phase-I drug metabolizing enzyme, carbonyl reductase 1, in response to various substrate and inhibitor configurations. Tropical Journal of Pharmaceutical Research 18 (8).
52	<b><u>M Kandeel</u>, A Altaher, M Alnazawi (2019):</b> Molecular Dynamics and Inhibition of MERS CoV Papain-like Protease by Small Molecule Imidazole and Aminopurine Derivatives. Letters in Drug Design & Discovery 16 (5), 584-591.
53	<b><u>M Kandeel</u>, K Elshazly, WM El-Deeb, M Fayez, I Ghonim (2019):</b> Species specificity and host affinity rather than tissue tropism controls codon usage pattern in respiratory mycoplasmosis Journal of Camel. Practice and Research 26 (1), 29-40.
54	<b>A Sheikh, A Al-Taher, M Al-Nazawi, AI Al-Mubarak, <u>M Kandeel</u>(2020):</b> Analysis of preferred codon usage in the coronavirus N genes and their implications for genome evolution and vaccine design. Journal of Virological Methods 277, 113806.
55	<b>WM El-Deeb, M Fayez, I Elsohaby, I Ghoneim, T Al-Marri, <u>M Kandeel</u>, ... (2020):</b> Isolation and characterization of vaginal <i>Lactobacillus</i> spp. in dromedary camels ( <i>Camelus dromedarius</i> ): in vitro evaluation of probiotic potential of selected isolates. PeerJ 8, e8500.
56	<b>K Oh-hashi, H Kohno, <u>M Kandeel</u>, Y Hirata (2020):</b> Characterization of IRE1 $\alpha$ in Neuro2a cells by pharmacological and CRISPR/Cas9 approaches. Molecular and Cellular Biochemistry 465 (1-2), 53-64.

### Number of Theses shared in the supervision:

PhD Theses		
Total No.	Inside the faculty	Outside the faculty
-	-	-
Master Theses		
Total No.	Inside the faculty	Outside the faculty
-	-	-

### Number of Theses shared in the judgement :

PhD Theses		
Total No.	Inside the faculty	Outside the faculty
-	-	-
Master Theses		
Total No.	Inside the faculty	Outside the faculty
-	-	-