

Gianfranco Amicosante

ISTRUZIONE

- **Laurea in Scienze Biologiche conseguita il 24-03-1976 presso l'Università degli Studi dell'Aquila**

ESPERIENZA PROFESSIONALE ACCADEMICA

Settembre 1983 – Ottobre 1992: Ricercatore confermato per il gruppo disciplinare n° 68, sottosettore n.1 (Biochimica), presso la Facoltà di Medicina e Chirurgia dell'Università degli Studi dell'Aquila.

Novembre 1992 a ottobre 2000: Professore associato confermato, settore scientifico disciplinare E05A, per l'insegnamento di "Enzimologia" presso la Facoltà di Medicina e Chirurgia dell'Università degli Studi dell'Aquila.

1 novembre 2000 sino al 31 Ottobre 2020. Professore Ordinario di Biochimica Clinica e Biologia Molecolare Clinica (BIO-12) presso il Dipartimento di Scienze Cliniche Applicate e Biotecnologiche dell'Università degli Studi dell'Aquila.

ATTIVITÀ DIDATTICA

C.L.S. Medicina e Chirurgia (1.11.2000 al 1.8.2005 e dall'1.10.2005 al 2020)

C.L.S. Odontoiatria e Protesi Dentaria (a partire dall'A.A. 2002/2003 e dall'1.10.2005 al 2020).

C.L. Triennale Infermiere (già D.U. infermiere sino all'A.A. 2000/2001 fino al 2009).

C.L. Triennale Ostetrico/a (a partire dall' AA 2000-2001 e dall'1.10.2005 fino al 2009).

C.L. Triennale Ortottista ed Assistente di Oftalmologia (già D.U. sino all'A.A. 2000/2001 e dall'1.10.2005 fino al 2009).

C.L. Triennale per Tecnici di Laboratorio Biomedico (già D.U. sino all'A.A. 2004/2005)

C.L. Triennale in Tecnico Prevenzione Ambiente e Luoghi di Lavoro (a partire dall'A.A. 2002/2003 e dall'1.10.2005 fino al 2006)

C.L. Triennale Tecnico Sanitario di Radiologia (dall'A.A. 2002/2003 all'A.A. 2004/2005).

C.L. Triennale in Biotecnologie (Facoltà di Scienze e Medicina e Chirurgia) dall'A.A. 2002/2003 all'A.A. 2004/2005: (C.I. Medicina di Laboratorio).

C.L.S. Biotecnologie Mediche (dall'A.A. 2002/2003 all'A.A. 2004/2005): Elementi di metodologie Biochimiche e Diagnostica Biotecnologica
Insegnamenti presso le Scuole di Specializzazione della Facoltà di Medicina e Chirurgia:

Insegnamento di Biochimica Clinica e Biologia Molecolare Clinica nelle seguenti Scuole di Specializzazione:


S.S. in Biochimica Clinica fino all'a.a. 2013-14.



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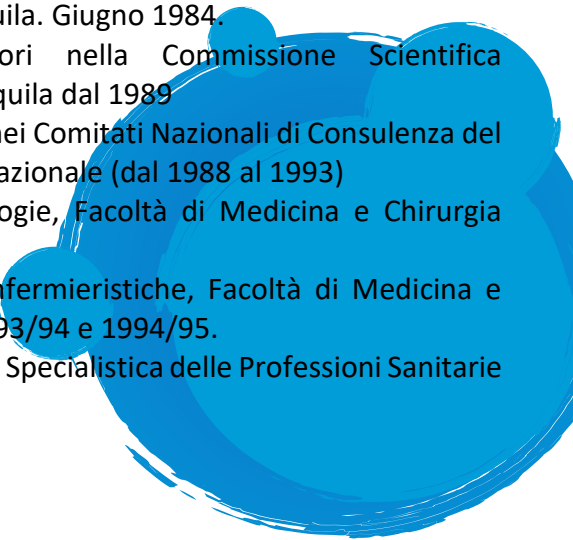
S.S. in Patologia Clinica fino all'a.a. 2013-14.
S.S. Anestesia e Rianimazione: fino all'a.a. 2017-18.
S.S. Urologia: fino all'a.a. 2017-18
S.S. Malattie dell'Apparato Digerente: fino all'a.a. 2017-18.
S.S. Farmacologia: fino all'a.a. 2017-18
S.S. Geriatria: fino all'a.a. 2017-18
S.S. Oncologia: fino all'a.a. 2017-18
S.S. Patologia Clinica e Biochimica Clinica: da a.a. 2016/2017 fino a 2019-2020

RESPONSABILITÀ IN PROGETTI SCIENTIFICI

2000-2019, exMUR 60% (responsabile G. Amicosante)
2000-2002, Progetto di Rilevante Interesse di Ateneo (PRIA) (Responsabile Prof.ssa M.G. Cifone, Responsabile di U.O. G. Amicosante)
2002-2006, FIRB (MIUR), (Responsabile Nazionale Prof. G. Nicoletti, Responsabile di U.O. G. Amicosante)
2000-2002, Progetto U.E. Capitale Umano e Mobilità, (Responsabile Internazionale Prof. J.M. Frère, Responsabile di U.O. G. Amicosante)
2003-2005, Progetto U.E., Capitale Umano e Mobilità, (Responsabile Internazionale Prof. J.M. Frère, Responsabile di U.O. G. Amicosante)
2000-2001, Progetto con AstraZeneca Italia (Responsabile G. Amicosante)
2001-2002, Progetto con Schering-Plough Italia (Responsabile G. Amicosante)
2002-2003, Progetto con AstraZeneca Italia (Responsabile G. Amicosante)
2004-2005, MIUR, PRIN, (Responsabile nazionale Prof. G. Nicoletti, responsabile di U.O. G. Amicosante)
2003-2005, Progetto con Wyeth-Lederle, Italia (responsabile G. Amicosante)
2005-2006, Progetto con Sanofi Aventis, Italia (responsabile G. Amicosante)
2006-2007, Ministero degli Affari Esteri, progetto bilaterale Italia-Argentina. Responsabile di U.O. nel progetto europeo RETE ALFA con l'America Latina (RICERBIOMO) con i seguenti paesi: Italia, Belgio, Spagna, Argentina, Cile, Colombia.

INCARICHI ORGANIZZATIVI E GESTIONALI

Rappresentante dei Ricercatori nel CdF della Facoltà di Medicina e Chirurgia dell'Università dell'Aquila. Giugno 1984.
Rappresentante dei Ricercatori nella Commissione Scientifica dell'Università degli Studi dell'Aquila dal 1989
Rappresentante dei Ricercatori nei Comitati Nazionali di Consulenza del CUN per i progetti di interesse nazionale (dal 1988 al 1993)
Direttore del D.U. in Biotecnologie, Facoltà di Medicina e Chirurgia UNIVAQ (1993)
Direttore del D.U. in Scienze Infermieristiche, Facoltà di Medicina e Chirurgia UNIVAQ per gli a.a. 1993/94 e 1994/95.
Coordinatore del Corso di Laurea Specialistica delle Professioni Sanitarie





Tecnico-Diagnostiche (2008-2009).

Membro del Comitato Ordinatore per la costituzione della Facoltà di Psicologia dell'Università dell'Aquila. (2005-2006)

Vicepresidente della Facoltà di Psicologia dell'Università dell'Aquila (2005-2006)

Membro eletto dei P.O. nel Senato Accademico dell'Università dell'Aquila nel triennio 2004-2007.

Membro della Commissione Ispettiva di Ateneo nominata con D.R. 125 del 30 gennaio 2017 sino al 2019

Direttore della Scuola di Specializzazione in Biochimica Clinica dal 2004 al 2013.

Membro del collegio dei docenti del Dottorato di Ricerca in "Enzimologia applicata alle Scienze Mediche" dal 1988-2000

Membro del Collegio dei docenti del Dottorato di Ricerca Scienze Biochimiche e Neuroscienze dal 2000 al 2012

Membro del dottorato di ricerca in Medicina Sperimentale dal 2013 al 2020.

Membro eletto della Giunta del Dipartimento di STB

Vicedirettore del Dipartimento di S.T.B. con D.R. 1799/2010 prot.n. 37129 del 29-10-2010

Direttore del Dipartimento di S.T.B. con D.R. 2713/2010 prot. n. 46266 del 23-12-2010 sino alla costituzione del Dipartimento DISCAB nel 2012.

Vicedirettore del Dipartimento di Scienze Cliniche Applicate e Biotecnologiche con D.R. n. 36468 del 22-10-2012 sino al 2018.

Membro della Commissione per l'abilitazione scientifica nazionale (ASN) per il settore concorsuale 05/E3 per gli anni 2018-2021.

Organizzazione scientifica di convegni internazionali:

- "Trends in Microbial Resistance to β -lactam antibiotics: molecular aspects and clinical implications", June 1990, L'Aquila

- International Congress on β -lactamases: " β -lactamase Mediated Resistance: Molecular Aspects and Clinical Implications", June 17-20, 1999, L'Aquila

- "9th β -lactamase Meeting", June 11-15, 2005, Leonessa (RI)

- "11th β -lactamase Meeting", June 10-14, 2011, Leonessa (RI)

- "13th β -lactamase Meeting", June 16-19, 2017, Santo Stefano di Sessanio, L'Aquila

Referee per le seguenti riviste scientifiche:

Antimicrobial Agents Chemotherapy (U.S.A.),

Journal of Clinical Microbiology (U.S.A.),

Microbiology (U.K.),


Journal of Antimicrobial Chemotherapy (U.K.),

Journal of Chemotherapy (Italy).

Membro dell'Editorial board di Journal of Chemotherapy dal 2004.

Referee per progetti di ricerca su invito della BSAC (British Society for Antimicrobial Chemotherapy).





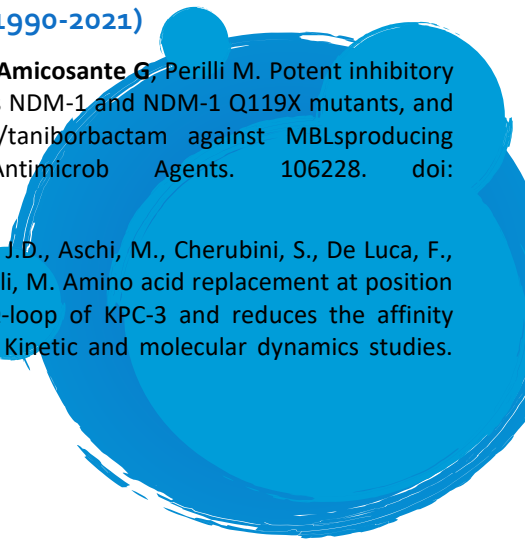
Membro della Società Italiana di Biochimica dal 1981
Membro della American Society for Microbiology dal 1991
Membro dell'ESCMID dal 2004.

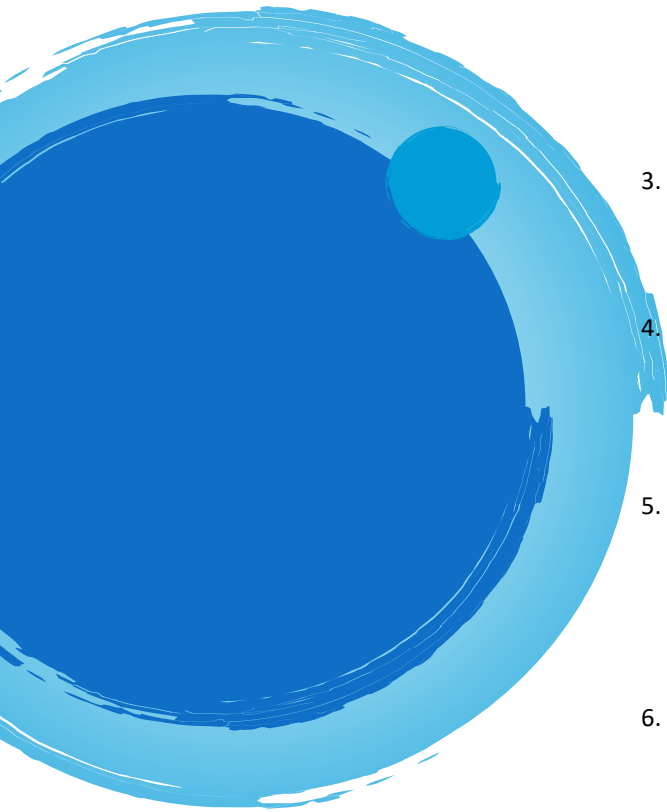
ATTIVITÀ SCIENTIFICA

L'attività scientifica è incentrata sullo studio molecolare e biochimico dei meccanismi coinvolti nella resistenza a varie classi di antibiotici in patogeni Gram-positivi e Gram-negativi. Le principali linee di ricerca sono:

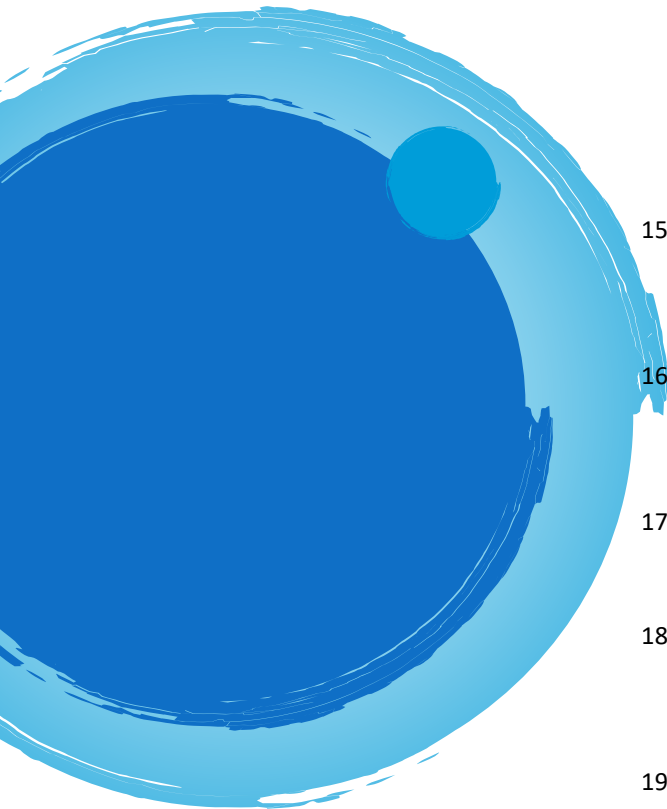
- Caratterizzazione molecolare e biochimica di β -lattamasi a serina e metallo- β -lattamasi che rappresentano i principali sistemi con i quali batteri gram-negativi sono in grado di rendere inefficaci gli antibiotici β -lattamici.
- Studio del sito catalitico di β -lattamasi ad ampio spettro d'azione (ES β L) e metallo β -lattamasi mediante l'analisi cinetica e molecolare di mutanti di laboratorio mediante.
- Disegno di nuove molecole ad attività inibitoria in grado di inattivare le β -lattamasi
- Monitoraggio dei determinanti di resistenza che codificano per β -lattamasi ad ampio spettro d'azione (ES β L) e metallo β -lattamasi come studio di sorveglianza nazionale.
- Caratterizzazione molecolare di elementi genetici mobili che codificano per proteine/enzimi coinvolti nei meccanismi di resistenza a varie classi di antibiotici. Nello specifico caratterizzazione di plasmidi, integroni, cassette geniche, trasposoni e sequenze di inserzione.
- Caratterizzazione di proteine espresse da ceppi batterici formanti biofilm microbici che rappresentano una vera sfida per la medicina moderna.
- Studio dei meccanismi di resistenza non mediati da enzimi: alterazioni delle porine, mutazioni a livello della topoisomerasi II e IV, studio dell'operone MAR.

PUBBLICAZIONI SCIENTIFICHE (1990-2021)

1. Piccirilli A, Segatore B, Brisdelli F, **Amicosante G**, Perilli M. Potent inhibitory activity of Taniborbactam towards NDM-1 and NDM-1 Q119X mutants, and "in vitro" activity of cefepime/taniborbactam against MBLsproducing Enterobacterales. *Int J Antimicrob Agents*. 106228. doi: 10.1016/j.ijantimicag. 2021
 2. Piccirilli, A., Brisdelli, F., Docquier, J.D., Aschi, M., Cherubini, S., De Luca, F., Matagne, A., Amicosante, G., Perilli, M. Amino acid replacement at position 228 induces fluctuation in the Ω -loop of KPC-3 and reduces the affinity against oxyimino cephalosporins: Kinetic and molecular dynamics studies. *Catalysts* 10 (12): 1-14, 2020
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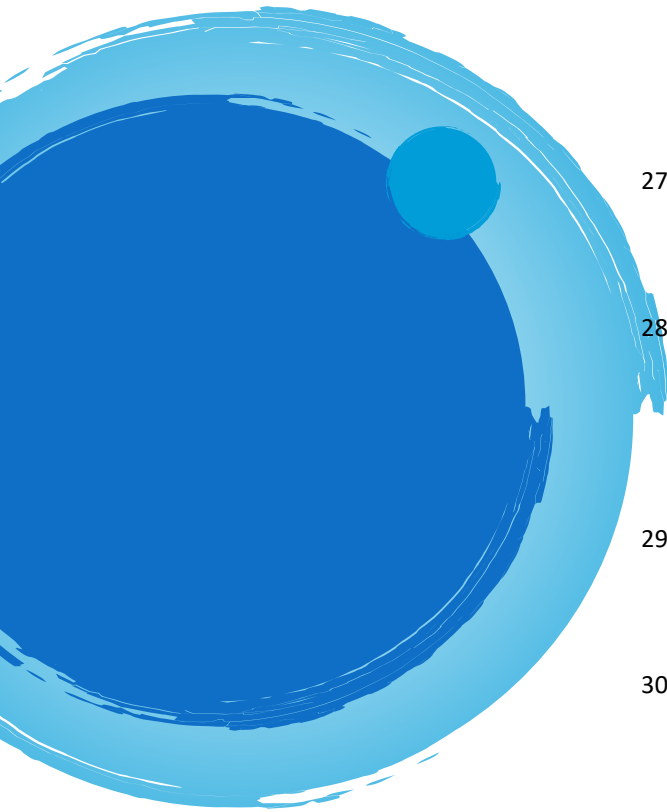


3. Ben Abderrazek R, Chamam S, Ksouri A, Perilli M, Dhaouadi S, Mdini I, Benlasfar Z, Amicosante G, Bouhaouala-Zahar B, Piccirilli A. Inhibitory Potential of Polyclonal Camel Antibodies against New Delhi Metallo- β -lactamase-1 (NDM-1). *Molecules*. 28;25(19):4453, 2020
4. Segatore B, Piccirilli A, Setacci D, Cicolani B, Di Sabatino A, Miccoli FP, Perilli M, Amicosante G. First Identification of β -Lactamases in Antibiotic-Resistant *Escherichia coli*, *Citrobacter freundii*, and *Aeromonas* spp. Isolated in Stream Macroinvertebrates in a Central Italian Region. *Microb Drug Resist* 26(8):976-981, 2020.
5. Piccirilli A, Perilli M, Piccirilli V, Segatore B, Amicosante G, Maccacaro L, Bazaj A, Naso L, Lo Cascio G, Cornaglia G. Molecular characterization of carbapenem-resistant *Klebsiella pneumoniae* ST14 and ST512 causing bloodstream infections in ICU and surgery wards of a tertiary University hospital of Verona (Northern Italy): co-production of KPC-3, OXA-48, and CTX-M-15 β -lactamases. *Diagn Microbiol Infect Dis*, 96(3):114968, 2020.
6. Cafaro, T., Carnicelli, V., Caprioli, G., Maggi, F., Celenza, G., Perilli, M., Bozzi, A., Amicosante, G., Brisdelli, F. Anti-apoptotic and anti-inflammatory activity of *Gentiana lutea* root extract. *Advances in Traditional Medicine* 20 (4): 619-630, 2020
7. Bellio P, Mancini A, Di Pietro L, Cracchiolo S, Franceschini N, Reale S, de Angelis F, Perilli M, Amicosante G, Spyraakis F, Tondi D, Cendron L, Celenza G. Inhibition of the transcriptional repressor LexA: withstanding drug resistance by inhibiting the bacterial mechanisms of adaptation to antimicrobials. *Life Sciences* 241, 117116, 2020
8. Piccirilli A, Pompilio A, Rossi L, Segatore B, Amicosante G, Rosatelli G, Perilli M, Di Bonaventura G. Identification of CTX-M-15 and CTX-M-27 in Antibiotic-Resistant Gram-Negative Bacteria Isolated from Three Rivers Running in Central Italy. *Microb Drug Resist*. 25(7):1041-1049, 2019
9. Piccirilli A, Brisdelli F, Aschi M, Celenza G, Amicosante G, Perilli M. Kinetic Profile and Molecular Dynamic Studies Show that Y229W Substitution in an NDM-1/L209F Variant Restores the Hydrolytic Activity of the Enzyme toward Penicillins, Cephalosporins, and Carbapenems. *Antimicrob Agents Chemother*. 63(4), 2019
10. Piccirilli A, Perilli M, Amicosante G, Conte V, Tascini C, Rossolini GM, Giani T. TEM-184, a Novel TEM-Derived Extended-Spectrum β -Lactamase with Enhanced Activity against Aztreonam. *Antimicrob Agents Chemother*.62(9), 2018
11. Bellio P, Luzi C, Mancini A, Cracchiolo S, Passacantando M, Di Pietro L, Perilli M, Amicosante G, Santucci S, Celenza G. Cerium oxide nanoparticles as potential antibiotic adjuvant. Effects of CeO₂ nanoparticles on bacterial outer membrane permeability. *Biochim Biophys Acta*. 1860(11):2428-2435, 2018.
12. Marcoccia F, Mercuri PS, Galleni M, Celenza G, Amicosante G, Perilli M. A Kinetic Study of the Replacement by Site Saturation Mutagenesis of Residue 119 in NDM-1 Metallo- β -Lactamase. *Antimicrob Agents Chemother*. 62(8), 2018.
13. Piccirilli A, Mercuri PS, Galleni M, Aschi M, Matagne A, Amicosante G, Perilli M. P174E substitution in GES-1 and GES-5 β -lactamases improves catalytic efficiency towards carbapenems. *Antimicrob Agents Chemother*. 62(5), 2018
14. Marcoccia F, Leiros HS, Aschi M, Amicosante G, Perilli M. Exploring the role of L209 residue in the active site of NDM-1 a metallo- β -lactamase. *PLoS*

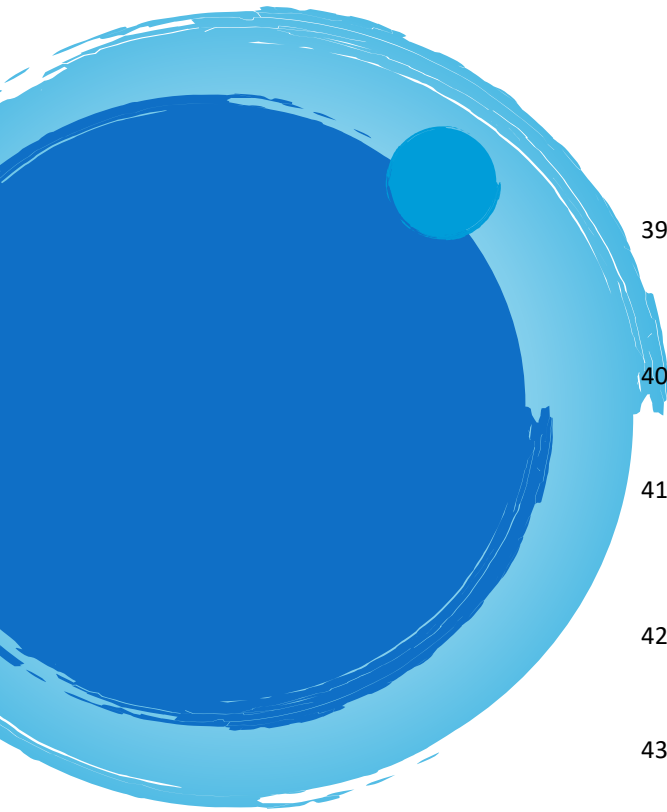


One.13(1):e0189686, 2018

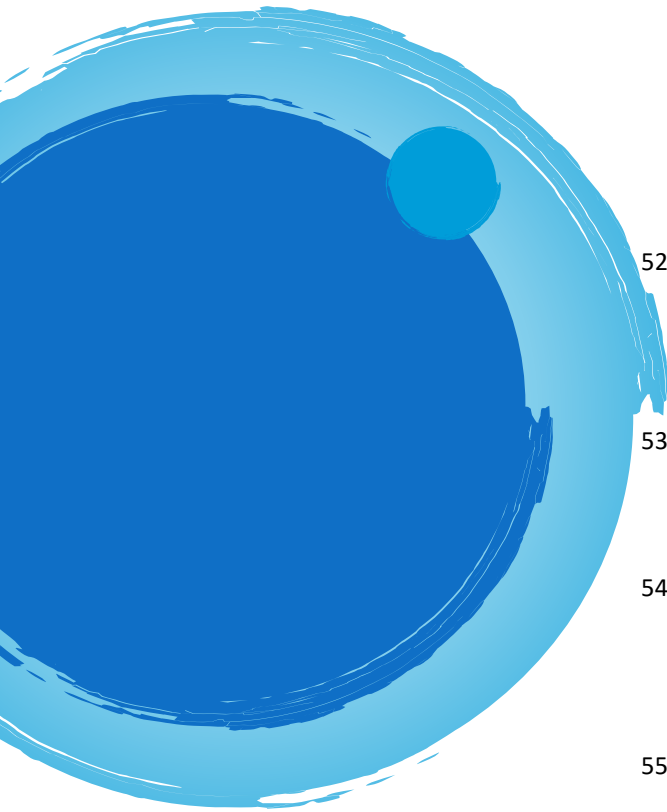
15. Sabatini A, Brisdelli F, Celenza G, Marcoccia F, Colapietro M, Tavío MM, Piccirilli A, Amicosante G, Perilli M. Interaction of carbapenems and β -lactamase inhibitors towards CTX-M-15 and CTX-M-15G238C mutant. *J Glob Antimicrob Resist*. 10:95-100, 2017
16. Bellio P., Di Pietro L., Mancini A., Piovano M., Nicoletti M., Brisdelli F., Tondi D., Cendron L., Franceschini N., Amicosante G., Perilli M., Celenza G. SOS response in bacteria: Inhibitory activity of lichen secondary metabolites against *Escherichia coli* RecA protein. *Phytomedicine*, 29:11-18, 2017
17. Brisdelli F, Perilli M, Sellitri D, Bellio P, Bozzi A, Amicosante G, Nicoletti M, Piovani M, Celenza G. Protolichesterinic acid enhances doxorubicin-induced apoptosis in HeLa cells in vitro. *Life Sci* 158: 89-97, 2016
18. Colapietro M, Endimiani A, Sabatini A, Marcoccia F, Celenza G, Segatore B, Amicosante G, Perilli M. BlaB-15, a new BlaB metallo- β -lactamase variant found in an *Elizabethkingia miricola* clinical isolate. *Diagn. Microbiol. Infect. Dis.* 85: 195-197, 2016.
19. Bottoni C, Perilli M, Marcoccia F, Piccirilli A, Pellegrini C, Colapietro M, Sabatini A, Celenza G, Kerff F, Amicosante G, Galleni M, Mercuri PS. Kinetic studies on CphA mutants: the role of the loop P158-P170 on the activity versus carbapenems. *Antimicrob Agents Chemother*. 60(5):3123-3126, 2016.
20. Marcoccia F, Bottoni C, Sabatini A, Colapietro M, Mercuri PS, Galleni M, Kerff F, Matagne A, Celenza G, Amicosante G, Perilli M. Kinetic study of laboratory mutants of NDM-1 metallo- β -lactamase: the importance of an isoleucine at position 35. *Antimicrob Agents Chemother*. 60:2366-2372, 2016.
21. Bottoni C., Marcoccia F., Compagnoni C., Colapietro M., Sabatini A., Celenza G., Segatore B., Maturo M.G., Amicosante G., Perilli M. Identification of new natural CphA metallo- β -lactamases CphA4 and CphA5 in *Aeromonas veronii* and *Aeromonas hydrophila* isolates from municipal sewage in central Italy. *Antimicrob. Agents Chemother*. 59: 4990-4993, 2015
22. Bellio P., Segatore B., Mancini A., Di Pietro L., Bottoni C., Sabatini A., Brisdelli F., Piovano M., Nicoletti M., Amicosante G., Perilli M., Celenza G. Interaction between lichen secondary metabolites and antibiotics against clinical isolates methicillin-resistant *Staphylococcus aureus* strains. *Phytomedicine* 22: 223-230, 2015
23. Perilli M, Sabatini A, Pontieri E, Celenza G, Segatore B, Bottoni C, Bellio P, Mancini A, Marcoccia F, Brisdelli F, Amicosante G. OXA-23 Carbapenemase in Multidrug-Resistant *Acinetobacter baumannii* ST2 Type: First Identification in L'Aquila Hospital (Italy). *Microb Drug Resist*. 21: 97-101, 2015
24. Perilli M, Mancini A, Celenza G, Bottoni C, Bellio P, Sabatini A, Di Pietro L, Brisdelli F, Segatore B, Amicosante G. Kinetic Study of the Effect of Histidines 240 and 164 on TEM-149 Enzyme Probed by β -Lactam Inhibitors. *Antimicrob. Agents and Chemother*. 58(10):6294-6296. 2014
25. Bellio P, Brisdelli F, Perilli M, Sabatini A, Bottoni C, Segatore B, Setacci D, Amicosante G, Celenza G. Curcumin inhibits the SOS response induced by levofloxacin in *Escherichia coli*. *Phytomedicine* 21(4):430-434, 2014
26. Perilli M, Bottoni C, Pontieri E, Segatore B, Celenza G, Setacci D, Bellio P, Strom R, Amicosante G. Emergence of blaKPC-3-Tn4401a in *Klebsiella pneumoniae* ST512 in the municipal wastewater treatment plant and in the university hospital of a town in central Italy. *J. Global Antimicrob Res* 1(4): 217-220, 2013



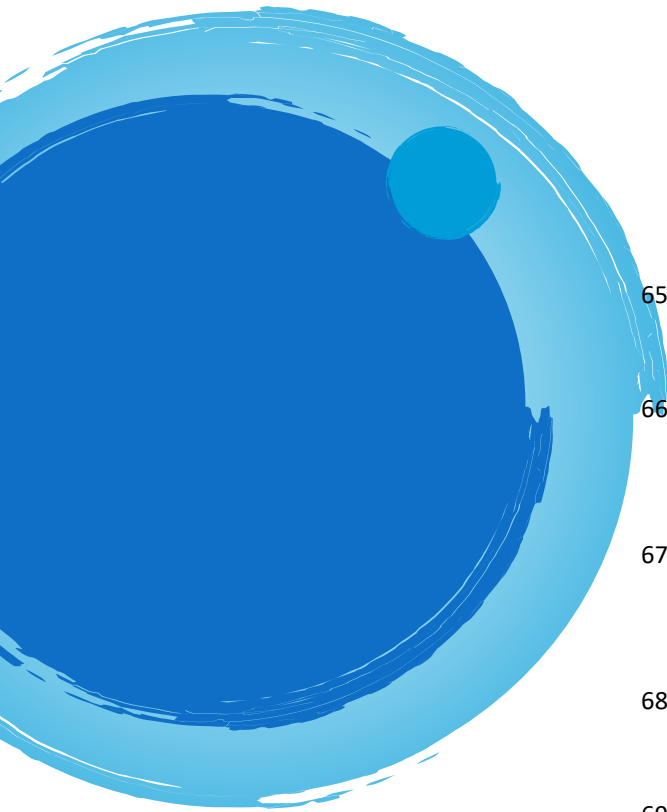
27. Giampaolo AD, Mazza F, Daidone I, Amicosante G, Perilli M, Aschi A. On the structural affinity of macromolecules with different biological properties: molecular dynamics simulations of a series of TEM-1 mutants. *Biochem Biophys Res Commun* 436(4): 666-671, 2013
28. Mahrouki S, Perilli M, Bourouis A, Chihi H, Ferjani M, Ben Moussa M, Amicosante G, Belhadi O. Prevalence of quinolone resistance determinant qnrA6 among broad- and extended-spectrum β -lactam-resistant *Proteus mirabilis* and *Morganella morganii* clinical isolates with sul1-type class 1 integron association in a Tunisian Hospital. *Scand J Infect Dis* 45(8): 600-605, 2013
29. Perilli M, Celenza M, Mercuri PS, Galleni M, Pellegrini C, Segatore B, Amicosante G. R164H and V240H Replacement by site-directed mutagenesis of TEM-149 ESBL: kinetic analysis of TEM-149H240 and TEM-149H164-H240 laboratory mutants. *Antimicrob. Agents Chemother*, 57(2):1047-1049, 2013
30. Perilli M, Bottoni C, Grimaldi A, Segatore B, Celenza G, Mariani M, Bellio P, Frascaria P, Amicosante G. Carbapenem-resistant *Klebsiella pneumoniae* harbouring bla(KPC-3) and bla(VIM-2) from central Italy. *Diagn Microbiol Infect Dis*. 75(2):218-221, 2013
31. Celenza G, Segatore B, Setacci D, Perilli M, Brisdelli F, Bellio P, Piovano M, Garbarino JA, Amicosante G, Nicoletti M. Antibacterial activity of selected metabolites from Chilean lichen species against methicillin-resistant staphylococci. *Nat Prod Res*, 27 (17): 1528-1531, 2013
32. Mahrouki S, Belhadj O, Chihi H, Mohamed BM, Celenza G, Amicosante G, Perilli M. Chromosomal blaCTX-M15 associated with ISEcp1 in *Proteus mirabilis* and *Morganella morganii* isolated at Military Hoapital of Tunis, Tunisia. *J Med Microbiol.*, 61:1286-1289, 2012.
33. Brisdelli F, Perilli M, Sellitri D, Piovano M, Garbarino JA, Nicoletti M, Bozzi A, Amicosante G, Celenza G. Cytotoxic activity and antioxidant capacity of purified lichen metabolites: an in vitro study. *Phytother Res*. 2012 doi: 10.1002/ptr.4739
34. Celenza G, Segatore B, Setacci D, Bellio P, Brisdelli F, Piovano M, Garbarino JA, Nicoletti M, Perilli M, Amicosante G. In vitro antimicrobial activity of pannarin alone and in combination with antibiotics against methicillin-resistant *Staphylococcus aureus* clinical isolates. *Phytomedicine*, 19(7):596-602, 2012.
35. Perilli M, Celenza G, Pellegrini C, Amicosante G. β -Lactamases as major mechanism of resistance in Gram-negative bacteria. In "Multidrug Resistance: A Global Concern" Book, Chapt 13: 210-226, Ed. by Bentham Science Publishers, 2012.
36. Segatore B, Bellio P, Setacci D, Brisdelli F, Piovano M, Garbarino JA, Nicoletti M, Amicosante G, Perilli M, Celenza G. In vitro interaction of usnic acid in combination with antimicrobial agents against methicillin-resistant *Staphylococcus aureus* clinical isolates determined by FICI and \mathcal{R} E model methods. *Phytomedicine.*, 15;19:341-347, 2012.
37. Perilli M, Segatore B, Mugnaioli C, Celenza G, Rossolini GM, Stefani S, Luzzaro F, Pini B, Amicosante G. Persistence of TEM-52/TEM-92 and SHV-12 extended-spectrum beta-lactamases in clinical isolates of Enterobacteriaceae in Italy. *Microb Drug Resist.*, 17(4):521-524, 2011
38. Perilli M., Pellegrini C., Celenza G., Bellio P., Segatore B., Amicosante G. First report from Italy of blaVIM-1 and blaTEM-1 genes in *Pseudomonas putida* and *Acinetobacter baumannii* isolated from wastewater. *J Chemother.*, 23(3):



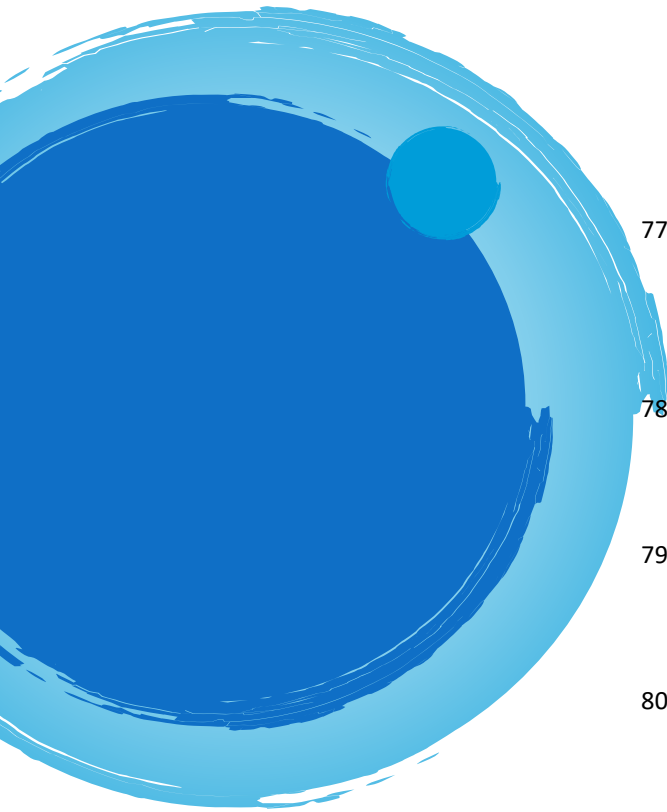
- 181-182, 2011.
39. Pellegrini C, Celenza G, Segatore B, Bellio P, Setacci D, Amicosante G, Perilli M. Occurrence of Class 1 and 2 Integrons in Resistant Enterobacteriaceae Collected from a Urban Wastewater Treatment Plant: First Report from Central Italy. *Microb Drug Res*, 17(2): 229-234, 2011.
 40. Di Ferdinando A, Patacchiola F, Perilli MG, Amicosante G, Carta G. Expression of matrix metalloproteinase-9 (MMP-9) in human midpregnancy amniotic fluid and risk of preterm labor. *Clin Exp Obstet Gynecol* 37(3): 193-196, 2010
 41. Forcella C, Pellegrini C, Celenza G, Segatore B, Calabrese R, Tavio MM, Amicosante G, Perilli M. QnrB9 in association with TEM-116 extended-spectrum β -lactamase in *Citrobacter freundii* isolated from sewage effluent: first report from Italy. *J Chemother.*;22(4):243-245, 2010.
 42. Forcella C, Alessiani A, Perilli M, Zilli K, Di Giannatale E, Amicosante G. Characterization of quinolone resistance in *Escherichia coli* strains of animal origin from Italy. *J Chemother.*; 22(3):165-168; 2010
 43. Falcone M, Perilli M, Mezzatesta ML, Mancini C, Amicosante G, Stefani S, Venditti M. Prolonged bacteremia caused by VIM-1 metallo- β -lactamase-producing *Proteus mirabilis*: first report from Italy. *Clin Microbiol Infect.*;16(2):179-181, 2010.
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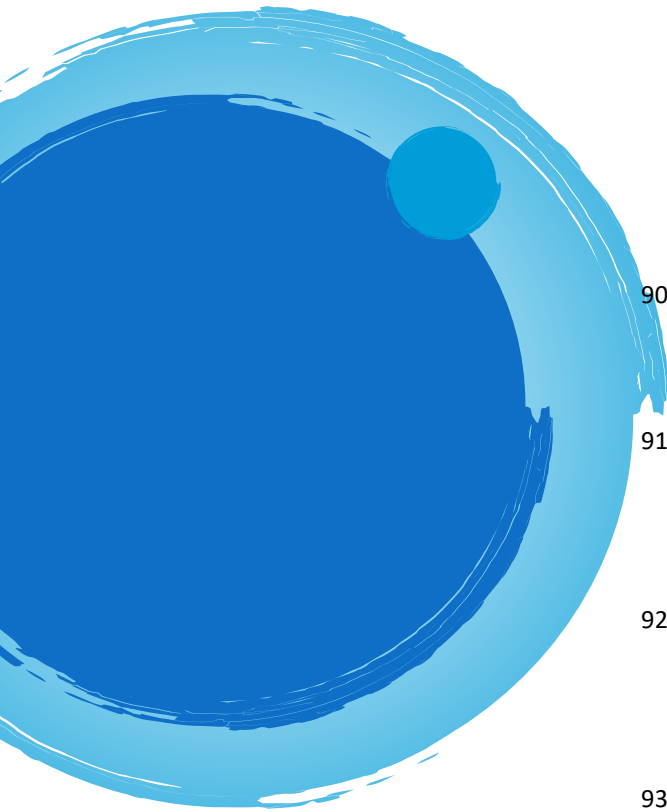
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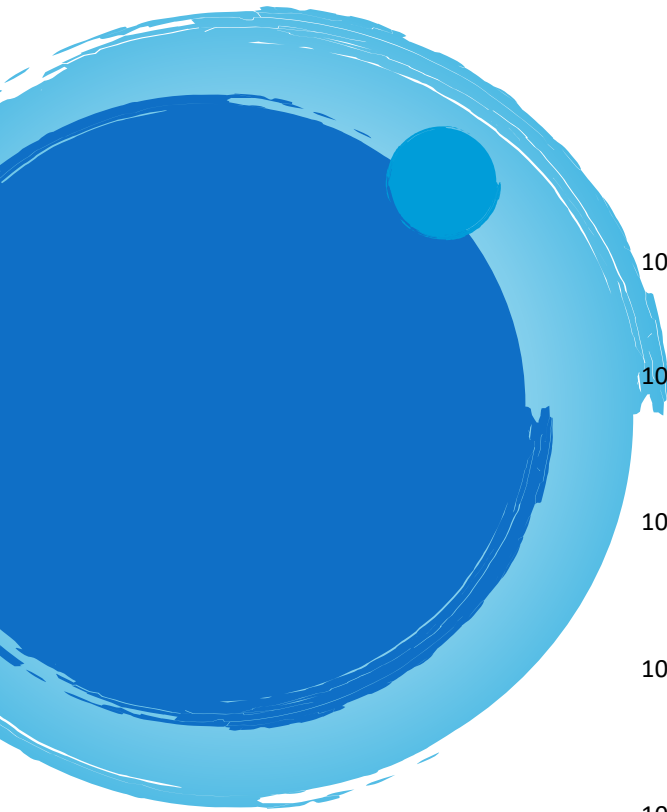
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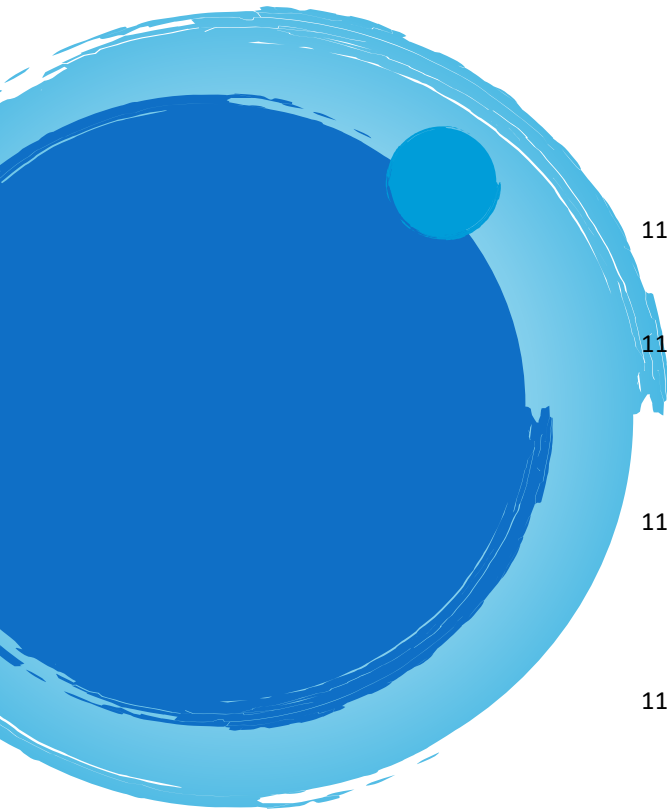
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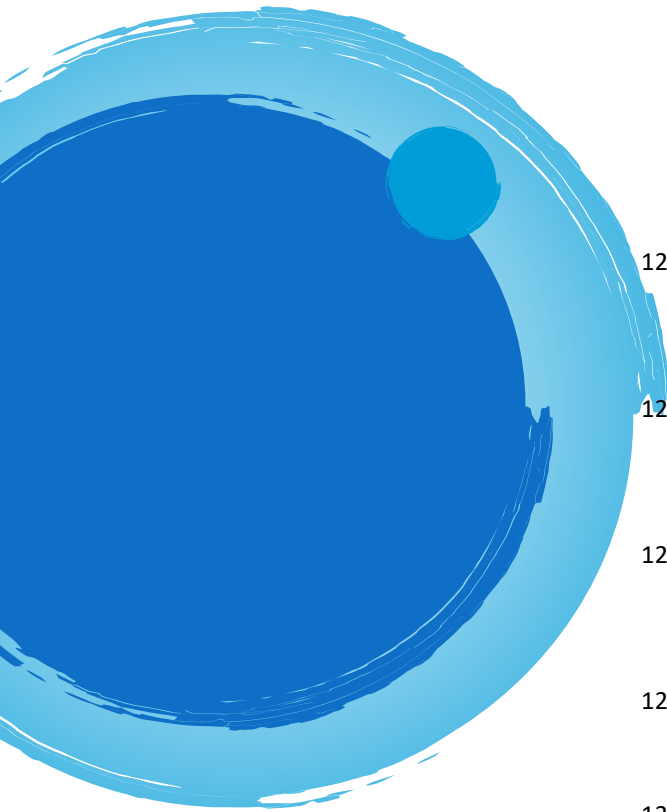
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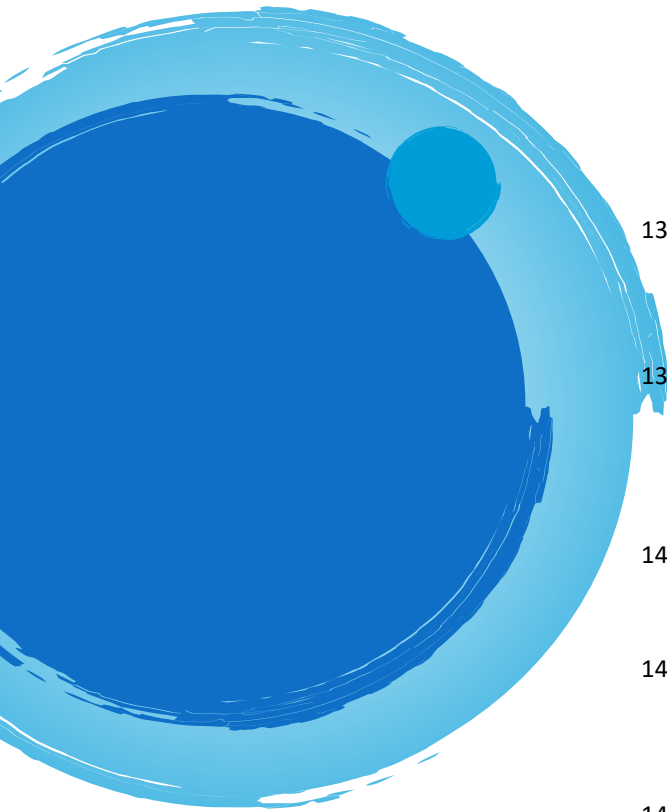
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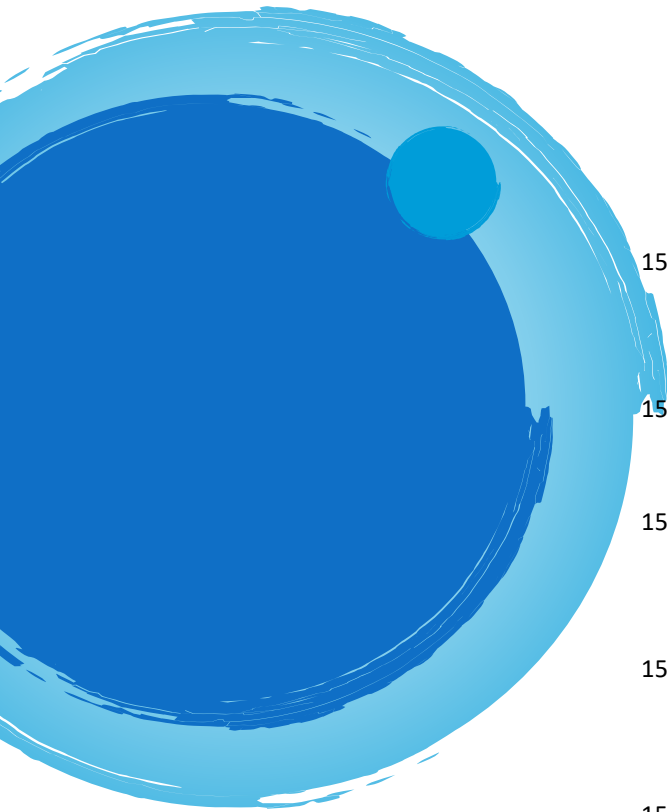
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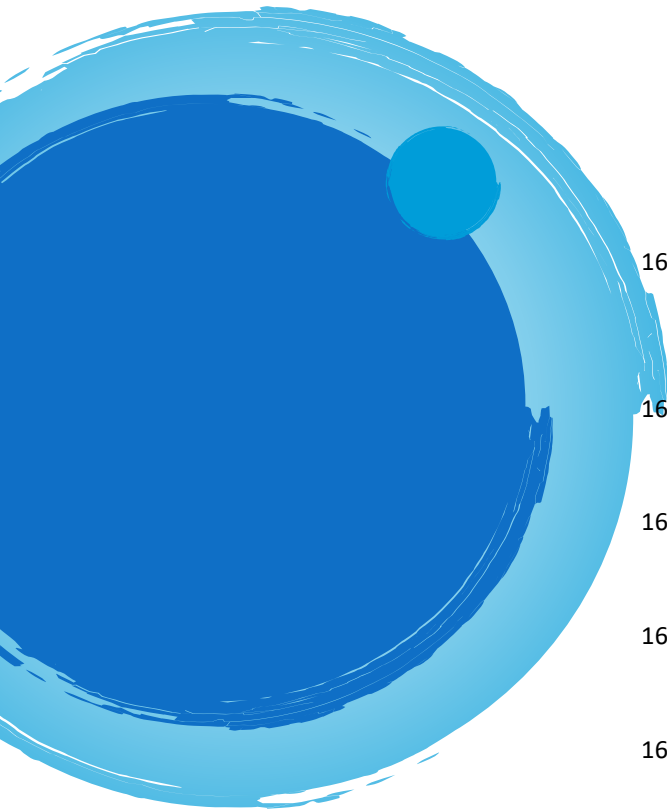


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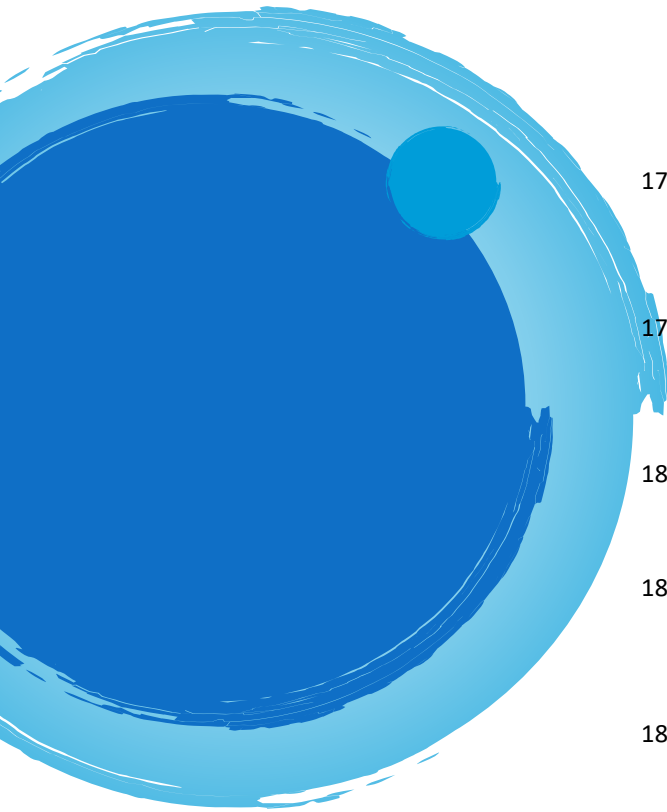


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